

# *Transmission chain*



**RENOLD**

*Superior Chain Technology*

# Renold Chain Product Range



## Roller Chain

- British, ANSI, API, DIN, ISO and Works Standard Chains
- Adapted Chains
- Extended Pitch Chains
- Hollow Pin Chains
- Made to Order, Special Chains
- Mini Pitch Chains
- Nickel Plated Chains
- Oilfield Chains
- Plastic Bush Chains
- Power and Free Chains
- Polymer Block Chains
- Side Bow Chains
- Stainless Steel Chains

## Applications

- Abattoirs • Air Conditioning • Aircraft - Civil & Military • Bakery Machines • Battery Manufacturing
- Brewing • Canning • Carpet Machines • Chart Tables/Marine • Chocolate Manufacturing
- Concrete Moulding Equipment • Copying Machines • Dairy Machinery • Drying Machinery
- Earth Moving Equipment • Extrusion Machines • Filtration Plants • Food & Drink Manufacture
- Glass Manufacture • Health Care Equipment • Hydraulic Components • Ice-Cream Manufacture
- In-flight Refuelling • Ingot Casting & Scrap Metal Processing • Latex Machinery • Laundry Machinery
- Lawnmower Manufacture • Mill Machinery • Mining • MOT Brake Testing Machinery • Nuclear Power
- Off Road Vehicles • Oil Industry • Packaging Machines • Paper & Card Making • Paper Shredders
- Plastic Machinery • Potato Grading Machinery • Power Generation • Printing Machines • Quarry Plant
- Road Making & Plant Machinery • Robotic Systems • Roof Tile Manufacture • Ship's Engines
- Silkscreen Machinery • Ski-Lifts • Soot Blowers • Steel Making • Straddle Carriers • Sugar Beet Machines
- Sun-Blinds • Telecommunications • Textile Machinery • Timber and Woodworking Machines
- Tin Printer Ovens • Tobacco/Cigarette Machinery • Tunnelling Machines • T.V. and Audio Equipment
- Tyre Manufacture • Waste Handling • X-Ray Equipment



## Conveyor Chain

- British, ISO and Works Standard Chains
- Adapted Chains
- Agricultural Chains
- Bakery Chains
- Deep Link Chains
- Escalator Chains
- Made to Order, Specials
- Stainless Steel Chains
- Sugar Cane Chains
- Zinc Plated Chains

## Applications

- Abattoirs • Agricultural Machines • Bakery Machines • Bottle Washing Plants
- Brick & Tile Machinery OEM • Car Plants • Cement Plants • Chemical Plants • Chicken Process Equipment
- Cigarette/Tobacco Machinery • Dust Filters • Egg Sorting Conveyors • Electrical Switchgears • Escalators
- Extrusion Machines • Feed Mill Machines • Feed Silo Equipment • Fibreglass Industry • Filtration Plants
- Fish Conveyor • Food Sterilisation • Food Processing • Freezing Equipment • Freezing Tunnels • Glass Manufacturing
- Grain Conveyor • Harvesting Machines • Ice Cream Machines • Induction Furnaces • Ingot Casting & Scrap Metal Processing Mfr
- Latex Machinery • Leisure Rides • Luggage & Parcel Handling • Machine Tools • Mail Sorting • Metal Casting
- Mushroom Compost Machinery • Nuclear • Ovens/Provers • Potato Grading Machinery • Potting Machinery • Quarries • Radio Astronomy • Roof Tile Manufacture
- Rope Machinery • Saw Mill Equipment • Sewage Plants • Shaker Conveyors • Ski-Lifts • Sluice Gates
- Steel Making • Sugar Factories • Swarf Conveyors • Textile Machinery • Timber & Woodworking Machines
- Tool Changer • Tunnelling Machines • Tyre Manufacture • Washing & Sterilising Machines
- Water Treatment • Wire Belts



## Lifting Chain

- LH(BL), AL, LL and Works Standard Chains

## Applications

- Bottle Washing Plants • Cement Plants • Chemical • Counterbalance Sets • Cranes
- Dust/Swarf Conveyors • Elevators • Food Processing • Food Sterilisation • Fork Lift Trucks
- Pipe Line Valves/Taps • Printing Machines • Rock Drilling • Straddle Carriers • Sun-Blinds • Tail Lifts

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# Section 1

European (BS) & ANSI  
Products & Dimensions

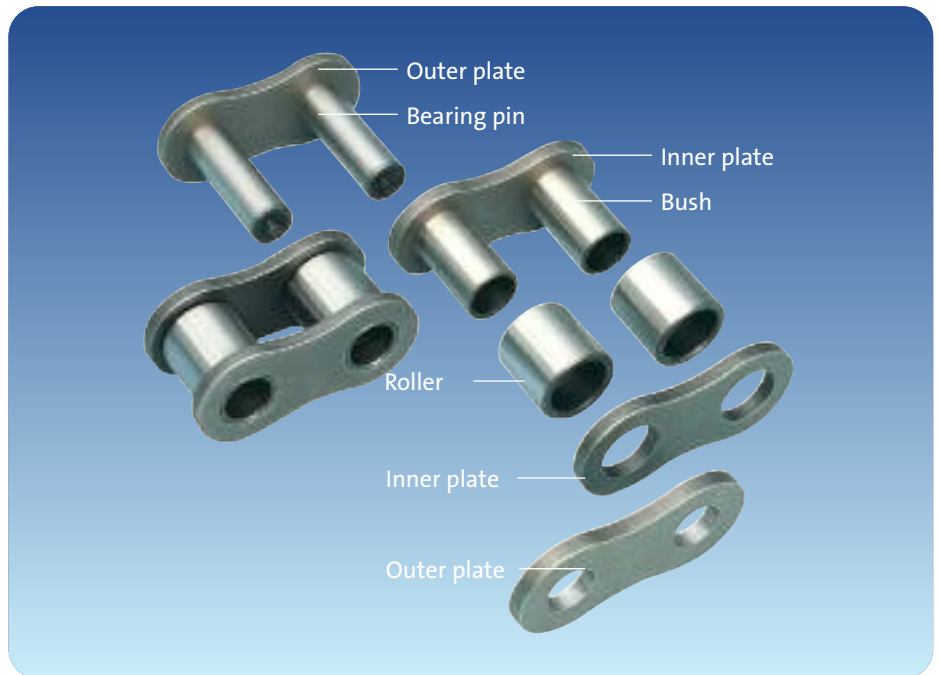
# Precision Roller Chain, Parts and Connecting Links

The Renold precision steel roller chain is a highly efficient and versatile means of transmitting mechanical power, which, in the field of industrial applications, has almost completely superseded all other types of chain previously used.

The illustration below shows component parts of the outer link and of the inner link of a Renold simple roller chain.

As illustrated, the Renold precision steel roller chain consists of a series of journal bearings held in precise relationship to each other by the constraining link plates. Each bearing consists of a bearing pin and bush on which the chain roller revolves. The bearing pin and bush are case hardened to allow articulation under high pressures, and to contend with the load carrying pressures and gearing action imparted via the chain rollers.

All chains are classified according to pitch (the distance between the centres of adjacent bearing pins), roller diameter and width between inner plates. Collectively, these dimensions are known as the gearing dimensions, as they determine the form and width of the sprocket teeth.



## Standard links

The chain parts and connecting links illustrated are only indicative of the types available. Please refer to the appropriate product page for the parts relevant to individual chains.

**No. 4**  
Inner Link (BS/DIN)  
Roller Link (ANSI)



These are complete assemblies for use with all sizes and types of chain. The unit consists of two inner plates pressed on to the bushes which carry the rollers. (Inner links for use with bush chains have no rollers).

**No. 107**  
Outer Link - Press Fit (BS/DIN)  
Riveting Pin Link - Press Fit (ANSI)



For use with all sizes and types of chain where optimum security is desired. The link is supplied with bearing pins riveted into one outer plate. The other outer plate is an interference fit on the bearing pins, the ends of which should be riveted over after the plate is fitted.

Press fit connecting links should only be used once; new links must be used to replace dismantled links. (See 'Riveting Chain Endless' for full instructions).

**No. 11**  
Connecting Link - Slip Fit  
(BS/DIN/ANSI)



A connecting link supplied with two connecting pins riveted into the outer plate. The outer plate is a clearance fit on the connecting pins and is secured in position by a split pin through the projecting end of each connecting pin.

**No. 26**  
Connecting Link - Slip Fit  
(BS/DIN/ANSI)



Used on short pitch chains only. Supplied with two connecting pins riveted into the outer plate, the clearance fit connecting plate being secured by means of a spring clip, No. 27, which snaps into the grooves in the pins.

**No. 58**  
Connecting Link - Press Fit  
(BS/DIN/ANSI)



The standard connecting link for ANSI series detachable chains, also used on riveted chains where high speeds or arduous conditions are encountered. Supplied with two connecting pins riveted into the outer plate, the other outer plate being a press fit onto the pins and secured by split pins after assembly.

Press fit connecting links can only be used once; new links must always be used to replace dismantled links.

## Cranked links

Apart from the specialised chains where the cranked link is an essential design feature, cranked links are used only where the chain length must be an odd number of pitches. This practice is not recommended; all drives should, wherever possible, be designed with sufficient overall adjustment to ensure the use of an even number of pitches throughout the chain. **DO NOT USE CRANKED LINKS ON IMPULSIVE, HIGHLY LOADED OR HIGH SPEED DRIVES.**

**No. 12**  
Cranked Link - Slip Fit (BS/DIN)  
Offset Link - Slip Fit (ANSI)



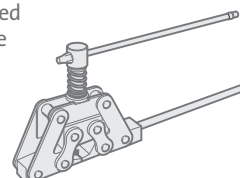
A single link with cranked plates pressed onto a bush and roller assembly at the narrow end. A clearance fit connecting pin (No. 128) is fitted at the wide end and is secured by a split pin.

**No. 30**  
Cranked Link Double (BS/DIN)  
Two Pitch Offset Link (ANSI)



Double cranked links are available for most sizes and types of chain. The unit consists of an inner link (No. 4), with cranked links retained permanently in position by a riveted bearing pin.

Screw operated extractors break chain by forcing the Renold end softened bearing pins out of the outer link plates. For other brands of chain, the rivet swell must first be ground away.



## Solution Chains from Renold

**RENOLD**  
**Synergy™**

Strong. Powerful. Even better performance.

**Synergy was created to meet a specific requirement of our customers: Improved chain performance resulting in better value.**

Synergy is the only true high-performance chain on the market. Engineers and maintenance professionals around the world endorse the wear resistance and exceptional working life of this remarkable chain technology.

### And the best just got better...

New specially formulated lubricant has improved initial wear life by up to 50%. Renold Synergy should be lubricated as normal when in operations.

#### Improved fatigue resistance

Plate and connecting link design optimises stress distribution and fatigue performance. Synergy® performs, on average, 30 percent better than other brands under repeated shock loading and continual heavy loads.

#### Better wear resistance

Independent tests show Renold Synergy® performed up to six times better than the highest quality competitor's chain.

#### Built to perform

Each component of Renold Synergy® is engineered to perfection using cutting-edge design tools such as Finite Element Analysis (FEA). It all adds up to chain performance that exceeds the sum of its parts.

#### Plate Shape

Wide waist profile for improved stress distribution; plate thickness maximised within the constraints of the Standard.



#### Bushes

Solid extruded bush provides improved roundness and strength compared to curled bushes. Profiled ends improve bearing area and extend wear life.

#### Hole Quality

Triple punch holing ensures controlled positional location of pin and bushing for even wear.

#### Interference Fits

Optimised to ensure maximize fatigue life.

#### Fatigue Resistance

Pre-stressed surfaces increase fatigue resistance.

#### Wear Resistance

Profiled components and special pin surface coating enhance wear resistance.

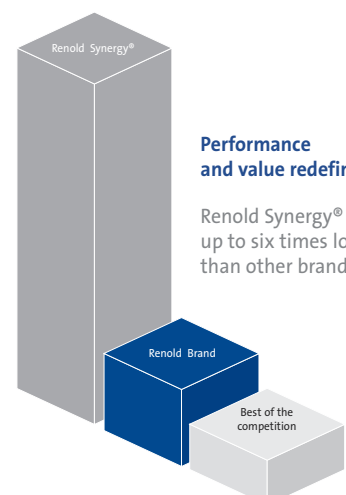
#### Connecting Link

Unique in design, allowing for a chain system with no component weaker than another.

**Exclusive!** Our unique end-softened pins cut to length quickly and cleanly using just one tool. Get up and running faster than ever before.

Our platinum-coloured connecting links stand out against the black surface plates, so they're easy to identify and remove.

Synergy® lasts longer and resists greater shock loads, making it the most reliable chain on the market.



# Solution Chains from Renold



The Renold Syno range sets a new benchmark for lube-free performance.

## Renold Syno NP chain

This dry-to-the-touch chain now includes more performance enhancing characteristics than ever before. Using the latest techniques, Renold have incorporated special surface treatment processes to improve the bonding of the nickel plating. This type of plating is not prone to chipping or peeling as some other plated chains are prone to doing.

The pin coating minimises friction, improving wear life and reducing vibration, while the FDA-approved coating on the roller and the USDA H1-approved lubricant within the chain make it ideal for food processing environments.

- Dry-to-the-touch chain
- Never needs relubrication
- FDA-approved coating on rollers
- Nickel-plating on plates won't chip or peel
- Good resistance to corrosion
- Food industry-approved lubricant inside chain when supplied
- Standard chain dimensions so can be exchanged "like for like"
- Will run on standard sprockets
- BS: ½" to 1½" simplex and duplex (06B-1 to 24B-1 and 06B-2 to 24B-2)
- ANSI: ½" to 1¼" simplex and duplex (40-1 to 100-1 and 40-2 to 100-2)

Renold Syno Nickel Plated chain outlasts any comparable competitor product promoted as low-lube or non-lube.

## Renold Syno PC chain

Renold has added to its impressive Syno range of chain for applications where lubrication is either difficult or impractical. The latest element is the introduction of a poly-steel chain, Renold Syno PC chain, comprising a polymer inner link and stainless steel pins and outer plates.

With no metal bush or roller there is no lubricant required to facilitate metal-on-metal movement. This opens up applications where the chain could even run submerged in water if required.

This construction also means the chain is corrosion resistant, light weight and versatile. Attachments can be fitted to the outer plates if required.

- No lubrication required
- Can operate in wet conditions, even submerged
- Lightweight construction
- Attachments can be added

## Renold Syno PB chain

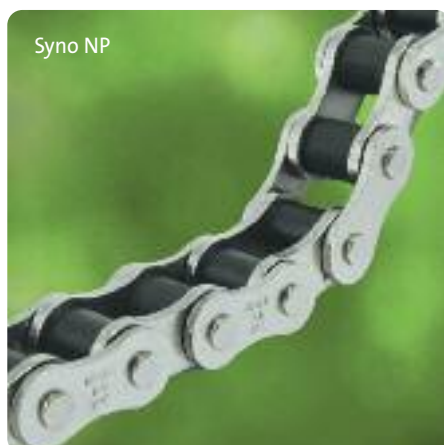
For higher loads and more heavy-duty applications, the Renold Syno range takes on the serious business of wear and fatigue resistance through the addition of a polymer sleeve between the pin and bush.

- Absolutely no lubrication
- Highly durable and wear resistant polymer bush – exclusive to Renold
- Polymer roller tested for impact resistance and load capabilities
- Can be operated without any lubrication
- Available in 28B – 40B and ANSI 120 to 200

Ideal for applications where it is not possible or not advisable to lubricate a chain, Renold Syno Polymer Bush chain can be considered for:

- Outdoor or wash down environments
- Car assembly plants or steel mills
- Environments where lubrication may contaminate products
- Forestry; saw mills or paper mills
- Textile plants
- Mixers
- Environments where lubrication may cause contaminants to stick to the chain and possibly get into bearing areas, seizing up the chain.

With a corrosion resistant surface treatment adding to the variety of applications it can cope with, Renold Syno Polymer Bush chain is a truly versatile product.



# Solution Chains from Renold

## Nickel Plated chain

Renold Nickel Plated chain delivers excellent corrosion protection. Ideal for applications such as bottling where spillages can lead to corrosion the specification for this chain is designed to optimise its performance. Every modification is made to push the wear and fatigue resistance to the maximum as well as delivering corrosion resistance.

### Features and benefits:

- Hexavalent chrome free
- 400 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance
- Tensile strength is approximately 85% that of standard carbon steel chain



## Stainless Steel chain

Renold Stainless Steel chain is made from high grades of rust-proof steel.

These perform extremely well in environments that are acidic, alkaline, where direct contact with food is a consideration, where the chain will be exposed to water, and for very high or very low temperature locations ( -40° to +400°C ) where resistance to corrosion is a requirement.

Renold Stainless Steel chain should be selected when resistance to chemical action is critical. It is manufactured using FDA approved material and is prelubricated with USDA H1 approved lubricant.

### Features and benefits:

- All components made from rust-proof steel
- All components receive surface finishing to remove stress raisers
- Lubrication that improves wear performance
- Tensile strength is approximately 65% that of standard carbon steel chain



## Zinc Plated chain

This is a new zinc plating from Renold. Ideal for applications susceptible to light corrosion, the new plating has one consistent appearance, replacing the yellow and blue chromated versions previously available and delivering the same high levels of corrosion resistance.

Every component is plated before assembly and the chain has improved wear resistance under normal loads due to the new surface treatment.

### Features and benefits:

- Hexavalent chrome free
- 250 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance
- Tensile strength is approximately 85% that of standard carbon steel chain



# Solution Chains from Renold

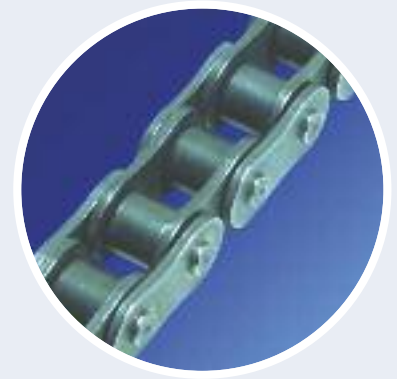
## Renold Hydro-Service

Renold Hydro-Service chain delivers superior corrosion resistance, lasting as much as 30 times longer than standard carbon steel in applications that have to deal with water or salt spray. It is ideal for wash-down environments. Hydro-Service chain is also more economical, and stronger, than stainless steel.

Each component is mechanically treated prior to assembly to ensure consistent, secure protection. The surface treatment is free of hexavalent chrome, complying with legislation relating to environmental and health & safety considerations.

### Features and benefits:

- Superior corrosion resistance
- Last as much as 30 times longer than standard carbon steel
- Hexavalent chrome free
- 350 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance



## Renold Sovereign

Some applications demand a specific solution. Trying to run a standard specification chain in a harsh environment will lead to dramatically reduced working life, possible chain failure and expensive downtime and all this can be avoided by specifying the chain that's designed for the job.

Abrasive environments such as brick and tile manufacture, which are characterised by dust and debris, are perfect examples of applications that demand the inclusion of Renold Sovereign chain. Renold Sovereign includes a particular surface treatment that ensures greatly increased wear resistance.

The chain is able to withstand the effect of dust and debris infiltrating the bearing areas between pins, bushes and plates, an effect that would quickly grind away a standard specification chain.

### Features and benefits:

- Resilient, durable components
- Up to 3 times longer wear life than standard chain in harsh environments
- Up to 4 times longer wear life than low maintenance chain in harsh environments
- Reduced pin wear
- Suitable for high speed or heavy load applications
- Excellent reliability giving reduced maintenance costs
- Ideal for situations of irregular or restricted maintenance



## Renold Klik-Top™

Klik-Top™ polymer block chain is quick to install, strong, and will cut costly downtime experienced when using conventional polymer block chain.

Klik-Top™ chain ensures reliability, quality and great value for money.

Ideal for conveying delicate items such as glass, wood and packaging.

You can have confidence in Klik-Top™ chain.

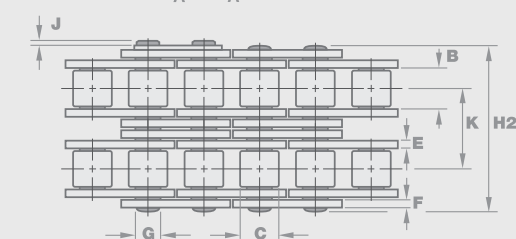
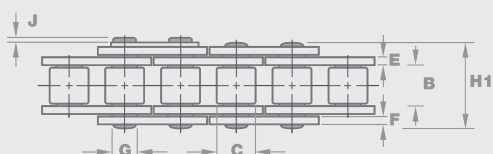
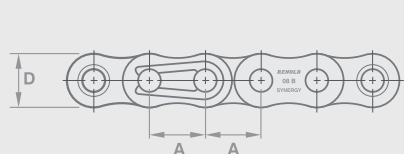
### Features and benefits:

- New synthetic clip with special profile
- Protecting your goods from damage and the base chain from wear
- Rapidly exchangeable clip using Klik-Top™ mechanism
- Increase your productivity by reducing downtime
- 08B-1, 12B-1 and 16B-1 base chains available
- Maintenance free and stainless base chains available
- Different coloured clip marks the position of a connecting link



# Renold Synergy® Roller Chain

## European (BS) Standard / ISO 606



No. 4



No. 26



No. 107



No. 12



No. 11



No. 30

| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     | MIN    |                  |         |        |        |        |        |

### European (BS) Standard - Simplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|
| GY06B1* | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 12.5 | 1.3 | - | 8900   | 0.39 | ✓ | ✓ | - | ✓ | - | ✓ |
| GY08B1  | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 16.5 | 2.0 | - | 17800  | 0.70 | ✓ | ✓ | - | ✓ | - | ✓ |
| 111044  | -     | 0.500 | 12.700 | 3.30  | 7.75  | 9.60  | 1.13 | 0.98 | 4.09  | 9.8  | 2.0 | - | 8900   | 0.30 | ✓ | ✓ | - | ✓ | - | ✓ |
| 111046  | -     | 0.500 | 12.700 | 4.88  | 7.75  | 9.60  | 1.13 | 0.98 | 4.09  | 11.4 | 2.0 | - | 8900   | 0.35 | ✓ | ✓ | - | ✓ | - | ✓ |
| 110044  | -     | 0.500 | 12.700 | 5.21  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 14.5 | 2.0 | - | 17800  | 0.70 | ✓ | ✓ | - | ✓ | - | ✓ |
| GY10B1  | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 18.8 | 2.5 | - | 22200  | 0.96 | ✓ | ✓ | - | ✓ | - | ✓ |
| 110054  | -     | 0.625 | 15.875 | 6.48  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 16.0 | 2.5 | - | 22200  | 0.81 | ✓ | ✓ | - | ✓ | - | ✓ |
| GY12B1  | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 21.9 | 2.6 | - | 28900  | 1.22 | ✓ | ✓ | - | ✓ | - | ✓ |
| GY16B1  | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 34.9 | 2.2 | - | 60000  | 2.80 | ✓ | ✓ | - | ✓ | ✓ | - |
| GY20B1  | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 39.8 | 2.7 | - | 95000  | 3.85 | ✓ | ✓ | - | ✓ | ✓ | - |
| GY24B1  | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 52.6 | 6.8 | - | 160000 | 7.45 | ✓ | ✓ | ✓ | - | ✓ | - |

### European (BS) Standard - Duplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|
| GY06B2* | 06B-2 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 23.0  | 1.3 | 10.24 | 16900  | 0.78  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY08B2  | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 30.4  | 2.0 | 13.92 | 31100  | 1.38  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY10B2  | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 35.4  | 2.5 | 16.59 | 44500  | 1.69  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY12B2  | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 41.4  | 2.6 | 19.46 | 57800  | 2.42  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY16B2  | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 66.8  | 2.2 | 31.88 | 106000 | 5.50  | ✓ | ✓ | - | ✓ | ✓ | - |
| GY20B2  | 20B-2 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 76.7  | 2.7 | 36.45 | 170000 | 7.80  | ✓ | ✓ | - | ✓ | ✓ | - |
| GY24B2  | 24B-2 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 101.3 | 6.8 | 48.36 | 280000 | 14.80 | ✓ | ✓ | ✓ | - | ✓ | - |

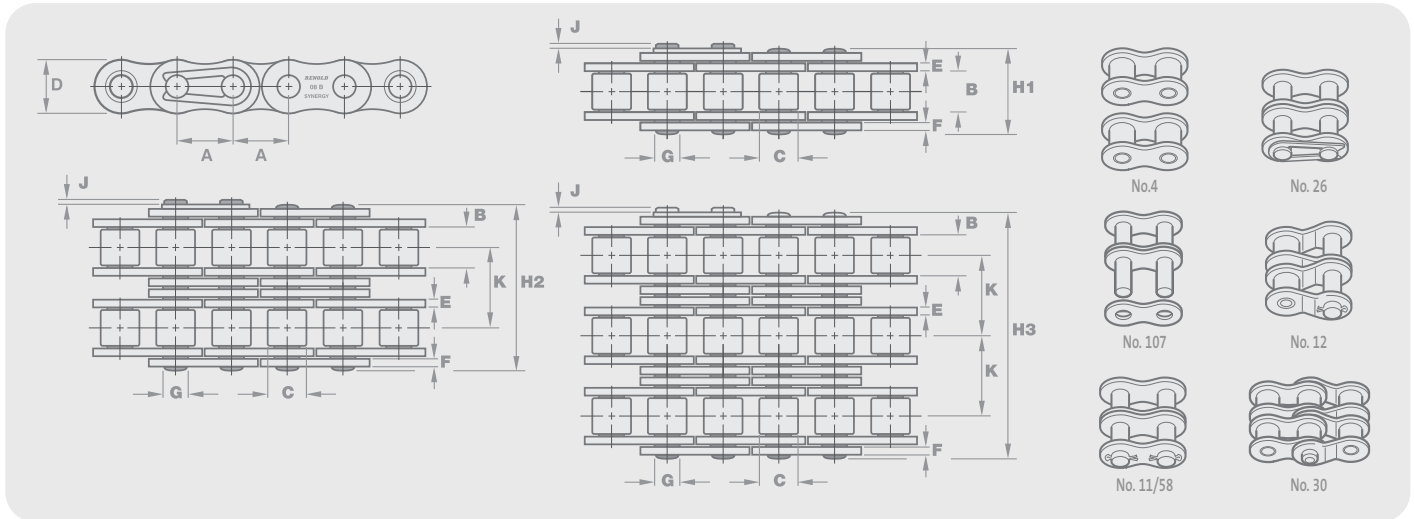
### European (BS) Standard - Triplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H3    | J   | K     |        |       |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|
| GY06B3* | 06B-3 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 33.3  | 1.3 | 10.24 | 24900  | 1.11  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY08B3  | 08B-3 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 44.3  | 2.0 | 13.92 | 44500  | 2.06  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY10B3  | 10B-3 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 52.0  | 2.5 | 16.59 | 66700  | 2.54  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY12B3  | 12B-3 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 60.9  | 2.6 | 19.46 | 86700  | 3.59  | ✓ | ✓ | - | ✓ | - | ✓ |
| GY16B3  | 16B-3 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 98.6  | 2.2 | 31.88 | 160000 | 8.15  | ✓ | ✓ | - | ✓ | ✓ | - |
| GY20B3  | 20B-3 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 113.2 | 2.7 | 36.45 | 250000 | 11.65 | ✓ | ✓ | - | ✓ | ✓ | - |
| GY24B3  | 24B-3 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 149.7 | 6.8 | 48.36 | 425000 | 22.25 | ✓ | ✓ | ✓ | - | ✓ | - |

\* Straight side plates

# Renold Synergy® Roller Chain

## ANSI Standard / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |                    | Connecting Links |         |        |        |        |        |        |     |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------------------|------------------|---------|--------|--------|--------|--------|--------|-----|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight<br><br>kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |     |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     |                    |                  |         |        |        |        |        |        | MIN |

### ANSI Standard - Simplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|-------|---|---|---|---|---|---|---|
| GY35A1 <sup>9</sup> | 35-1  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 12.0 | 1.7 | - | 7900   | 0.35  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| GY40A1              | 40-1  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 16.4 | 2.1 | - | 13900  | 0.60  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY50A1              | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 20.4 | 2.7 | - | 21800  | 1.00  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY60A1              | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 25.3 | 2.6 | - | 31300  | 1.47  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY80A1              | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 32.7 | 3.0 | - | 55600  | 2.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| GY100A1             | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 39.7 | 4.2 | - | 87000  | 4.20  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY120A1             | 120-1 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 49.3 | 5.3 | - | 125000 | 5.70  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY140A1             | 140-1 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 52.9 | 5.2 | - | 170000 | 7.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY160A1             | 160-1 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 63.1 | 6.5 | - | 223000 | 10.40 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

### ANSI Standard - Duplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|---|
| GY35A2 <sup>9</sup> | 35-2  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 22.2  | 1.7 | 10.13 | 15800  | 0.62  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| GY40A2              | 40-2  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 30.8  | 2.1 | 14.38 | 27800  | 1.20  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY50A2              | 50-2  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 38.4  | 2.7 | 18.11 | 43600  | 1.98  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY60A2              | 60-2  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 48.1  | 2.6 | 22.78 | 62600  | 2.91  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY80A2              | 80-2  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 61.9  | 3.0 | 29.29 | 111200 | 5.50  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY100A2             | 100-2 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 75.4  | 4.2 | 35.76 | 174000 | 8.40  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY120A2             | 120-2 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 94.7  | 5.3 | 45.44 | 250000 | 11.00 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY140A2             | 140-2 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 101.8 | 5.2 | 48.87 | 340000 | 15.50 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY160A2             | 160-2 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 121.6 | 6.5 | 58.55 | 446000 | 20.60 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

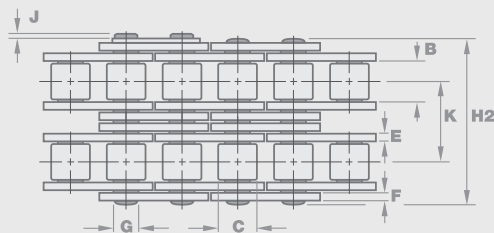
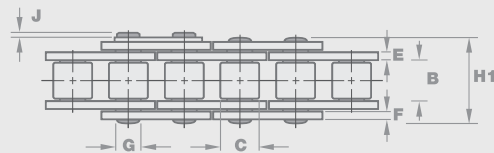
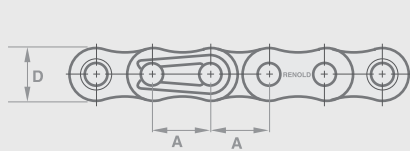
### ANSI Standard - Triplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H3    | J   | K     |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|---|
| GY35A3 <sup>9</sup> | 35-3  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 32.2  | 1.7 | 10.13 | 23700  | 0.93  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| GY40A3              | 40-3  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 45.1  | 2.1 | 14.38 | 41700  | 1.80  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY50A3              | 50-3  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 56.5  | 2.7 | 18.11 | 65400  | 2.96  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY60A3              | 60-3  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 70.9  | 2.6 | 22.78 | 93900  | 4.38  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| GY80A3              | 80-3  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 91.2  | 3.0 | 29.29 | 166800 | 8.30  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY100A3             | 100-3 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 111.2 | 4.2 | 35.76 | 261000 | 12.60 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY120A3             | 120-3 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 140.2 | 5.3 | 45.44 | 375000 | 16.70 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY140A3             | 140-3 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 150.7 | 5.2 | 48.87 | 510000 | 23.10 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| GY160A3             | 160-3 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 180.2 | 6.5 | 58.55 | 669000 | 31.00 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

<sup>9</sup> Bush Chain

# Renold Syno® Nickel Plated

## European (BS) Standard / ISO 606



No. 4



No. 26



No. 107



No. 12



No. 11



No. 30

| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | MAX                               | NOM    |                  |         |        |        |        |        |

### European (BS) Standard - Simplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|
| 06B1SN* | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 12.5 | 1.1 | - | 8900   | 0.40 | ✓ | ✓ | - | ✓ | - | ✓ |
| 08B1SN  | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.81 | 1.55 | 4.45  | 17.0 | 2.0 | - | 17800  | 0.73 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 10B1SN  | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 2.04 | 1.55 | 5.08  | 19.6 | 1.4 | - | 22200  | 1.01 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 12B1SN  | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 2.42 | 1.81 | 5.72  | 23.6 | 2.5 | - | 28900  | 1.30 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 16B1SN  | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 20.20 | 3.76 | 3.06 | 8.27  | 35.0 | 3.0 | - | 60000  | 2.72 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20B1SN  | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 25.30 | 4.46 | 4.16 | 10.17 | 41.4 | 2.1 | - | 95000  | 3.75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24B1SN  | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.08 | 4.88 | 14.63 | 52.6 | 5.1 | - | 160000 | 7.35 | ✓ | ✓ | ✓ | - | ✓ | ✓ |

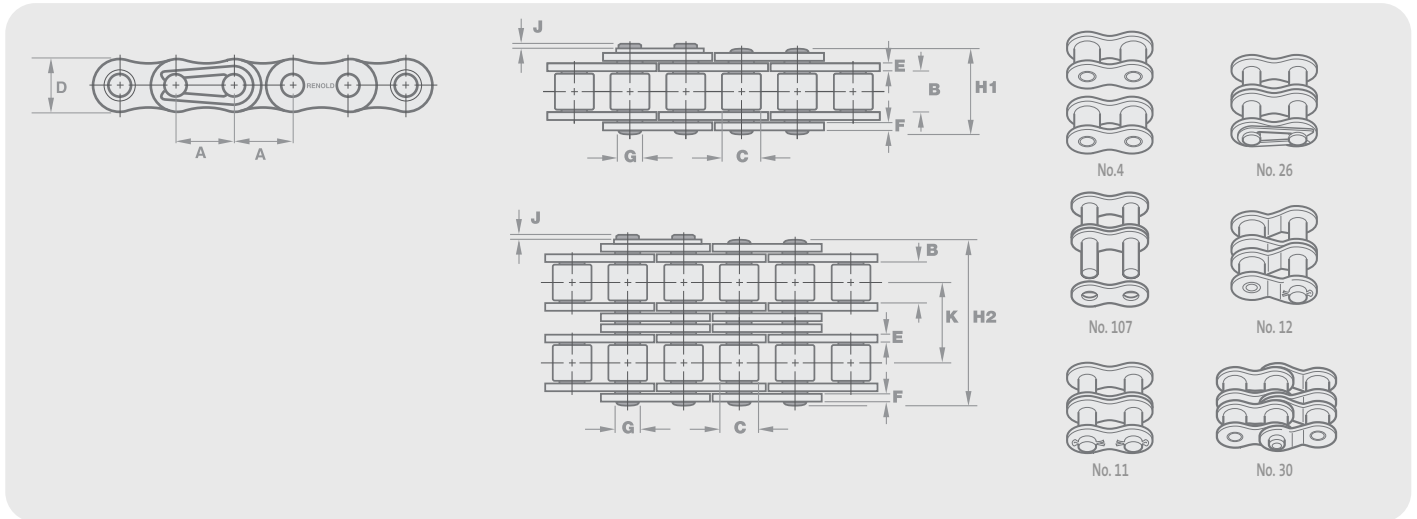
### European (BS) Standard - Duplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|
| 06B2SN* | 06B-2 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 23.0  | 1.1 | 10.24 | 16900  | 0.76  | ✓ | ✓ | - | ✓ | - | ✓ |
| 08B2SN  | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.81 | 1.55 | 4.45  | 30.9  | 2.0 | 13.92 | 31100  | 1.40  | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 10B2SN  | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 2.04 | 1.55 | 5.08  | 36.2  | 1.4 | 16.59 | 44500  | 1.93  | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 12B2SN  | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 2.42 | 1.81 | 5.72  | 43.1  | 2.5 | 19.46 | 57800  | 2.47  | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 16B2SN  | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 20.20 | 3.76 | 3.06 | 8.27  | 66.8  | 3.0 | 31.88 | 106000 | 5.40  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20B2SN  | 20B-2 | 1.250 | 31.750 | 19.56 | 19.05 | 25.30 | 4.46 | 4.16 | 10.17 | 77.8  | 2.1 | 36.45 | 170000 | 7.06  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24B2SN  | 24B-2 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.08 | 4.88 | 14.63 | 101.0 | 5.0 | 48.36 | 280000 | 14.70 | ✓ | ✓ | ✓ | - | ✓ | ✓ |

\* Straight side plates

# Renold Syno® Nickel Plated

## ISO 606 / ANSI Standard



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              | MIN                               |             |                  |         |        |        |        |        |

### ANSI Standard - Simplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|
| 40A1SN  | 40-1  | 0.500 | 12.700 | 7.85  | 7.92  | 11.70 | 1.76 | 1.55 | 3.97 | 16.9 | 2.0 | - | 13900 | 0.67 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 50A1SN  | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.42 | 2.04 | 5.08 | 21.1 | 2.5 | - | 21800 | 1.12 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 60A1SN  | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 3.23 | 2.45 | 5.95 | 27.0 | 2.5 | - | 31300 | 1.73 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 80A1SN  | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 23.00 | 4.06 | 3.06 | 7.92 | 33.7 | 3.1 | - | 55600 | 2.90 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 100A1SN | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 25.30 | 4.46 | 4.16 | 9.53 | 40.6 | 3.5 | - | 87000 | 3.61 | ✓ | ✓ | ✓ | - | ✓ | ✓ |

### ANSI Standard - Duplex

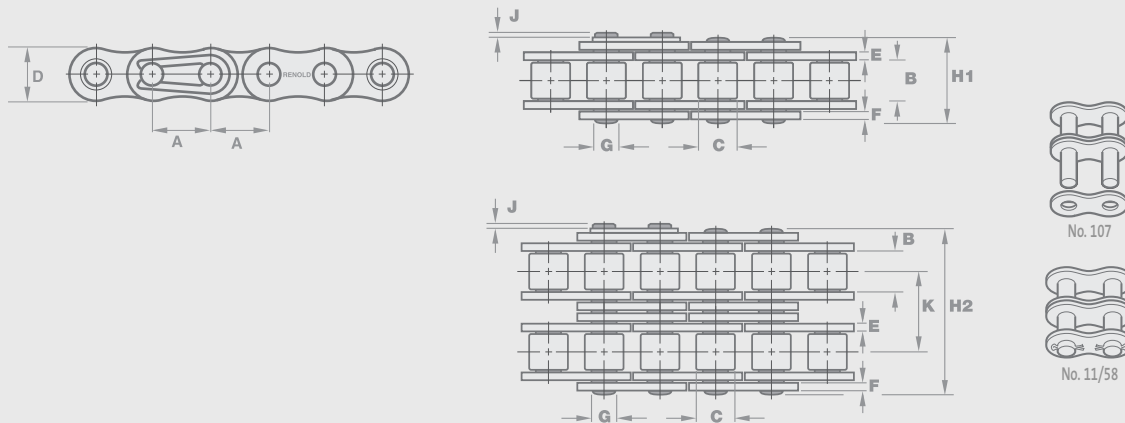
|         |       | A     | A      | B     | C     | D     | E    | F    | G    | H2   | J   | K     |        |      |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|-------|--------|------|---|---|---|---|---|---|
| 40A2SN  | 40-2  | 0.500 | 12.700 | 7.85  | 7.92  | 11.70 | 1.76 | 1.55 | 3.97 | 31.3 | 2.0 | 14.38 | 27800  | 1.30 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 50A2SN  | 50-2  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.42 | 2.04 | 5.08 | 39.2 | 2.5 | 18.11 | 43600  | 2.11 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 60A2SN  | 60-2  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 3.23 | 2.45 | 5.95 | 49.8 | 2.5 | 22.78 | 62600  | 3.46 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 80A2SN  | 80-2  | 1.000 | 25.400 | 15.75 | 15.88 | 23.00 | 4.06 | 3.06 | 7.92 | 63.0 | 3.1 | 29.29 | 111200 | 5.60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 100A2SN | 100-2 | 1.250 | 31.750 | 18.90 | 19.05 | 25.30 | 4.46 | 4.16 | 9.53 | 76.4 | 3.5 | 35.76 | 174000 | 6.95 | ✓ | ✓ | ✓ | - | ✓ | ✓ |



Syno Nickel Plated

# Renold Syno® Polymer Bush

## European (BS) Standard / ISO 606 / ANSI Standard



| Chain Ref.       |               | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                       |             | Conn. Links |        |        |
|------------------|---------------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|---------------------------------------|-------------|-------------|--------|--------|
| Renold Chain No. | ISO/ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) MIN | Weight kg/m | No. 107     | No. 11 | No. 58 |
|                  |               |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              |                                       |             |             |        |        |

### European (BS) Standard - Simplex

|        |       | A    | A     | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |
|--------|-------|------|-------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|
| 28B1SP | 28B-1 | 1.75 | 44.45 | 30.99 | 27.94 | 37.08 | 7.62 | 6.35 | 12.71 | 64.2 | 6.8 | - | 200000 | 8.1  | ✓ | ✓ | - |
| 32B1SP | 32B-1 | 2.00 | 50.80 | 30.99 | 29.21 | 42.29 | 7.11 | 6.35 | 14.29 | 63.4 | 8.0 | - | 250000 | 10.1 | ✓ | ✓ | - |
| 40B1SP | 40B-1 | 2.25 | 63.50 | 39.30 | 39.37 | 52.96 | 8.13 | 8.13 | 19.85 | 78.2 | 9.5 | - | 355000 | 14.3 | ✓ | ✓ | - |

### European (BS) Standard - Duplex

|        |       | A    | A     | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |      |   |   |   |
|--------|-------|------|-------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|------|---|---|---|
| 28B2SP | 28B-2 | 1.75 | 44.45 | 30.99 | 27.94 | 37.08 | 7.62 | 6.35 | 12.71 | 123.7 | 6.8 | 59.56 | 360000 | 15.9 | ✓ | ✓ | - |
| 32B2SP | 32B-2 | 2.00 | 50.80 | 30.99 | 29.21 | 42.29 | 7.11 | 6.35 | 14.29 | 122.0 | 8.0 | 58.55 | 450000 | 17.1 | ✓ | ✓ | - |
| 40B2SP | 40B-2 | 2.25 | 63.50 | 39.30 | 39.37 | 52.96 | 8.13 | 8.13 | 19.85 | 150.5 | 9.5 | 72.29 | 694000 | 27.1 | ✓ | ✓ | - |

### ANSI Standard - Simplex

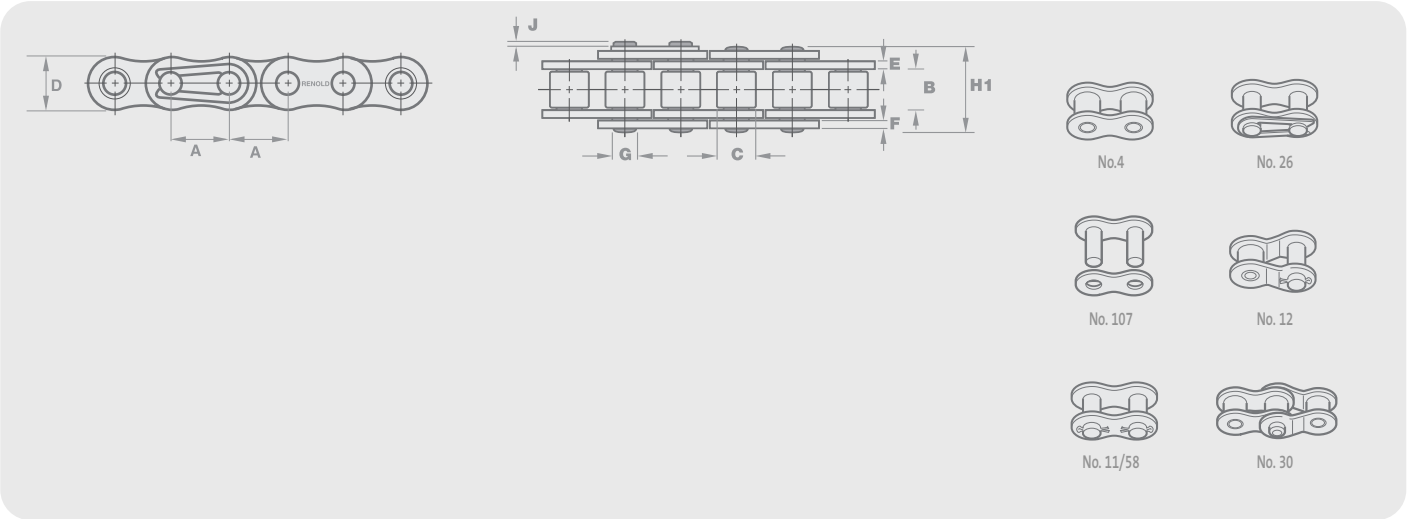
|         |       | A    | A     | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |
|---------|-------|------|-------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|
| 120A1SP | 120-1 | 1.50 | 38.10 | 25.50 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 49.3 | 5.3 | - | 125000 | 5.2  | ✓ | ✓ | ✓ |
| 140A1SP | 140-1 | 1.75 | 44.45 | 25.73 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 52.9 | 5.2 | - | 170000 | 6.8  | ✓ | ✓ | ✓ |
| 160A1SP | 160-1 | 2.00 | 50.80 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 63.1 | 6.5 | - | 223000 | 8.9  | ✓ | ✓ | ✓ |
| 200A1SP | 200-1 | 2.50 | 63.50 | 38.00 | 39.67 | 60.33 | 8.13 | 8.13 | 19.85 | 76.9 | 9.0 | - | 347000 | 14.6 | ✓ | ✓ | ✓ |

### ANSI Standard - Duplex

|         |       | A    | A     | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |      |   |   |   |
|---------|-------|------|-------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|------|---|---|---|
| 120A2SP | 120-2 | 1.50 | 38.10 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 94.7  | 5.3 | 45.44 | 250000 | 10.3 | ✓ | ✓ | ✓ |
| 140A2SP | 140-2 | 1.75 | 44.45 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 101.8 | 5.2 | 48.87 | 340000 | 13.9 | ✓ | ✓ | ✓ |
| 160A2SP | 160-2 | 2.00 | 50.80 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 121.6 | 6.5 | 58.55 | 446000 | 17.6 | ✓ | ✓ | ✓ |
| 200A2SP | 200-2 | 2.50 | 63.50 | 37.85 | 39.67 | 60.33 | 8.13 | 8.13 | 19.85 | 148.5 | 9.0 | 71.55 | 694000 | 28.9 | ✓ | ✓ | ✓ |

# Renold Syno® PC

European (BS) Standard / ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                       |             | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|---------------------------------------|-------------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) MIN | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              |                                       |             |                  |         |        |        |        |        |

European (BS) Standard - Simplex

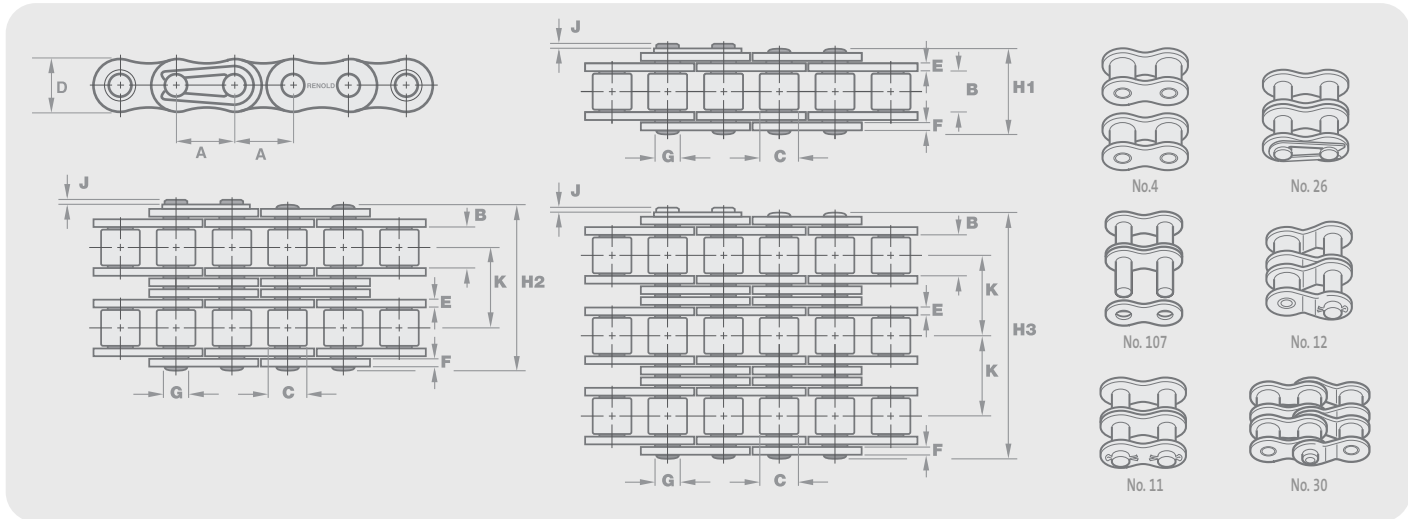
|         |       | A     | A      | B    | C    | D     | E    | F    | G    | H1   | J | K |      |      |   |   |   |   |   |   |
|---------|-------|-------|--------|------|------|-------|------|------|------|------|---|---|------|------|---|---|---|---|---|---|
| 1215359 | 06B-1 | 0.375 | 9.525  | 5.72 | 6.35 | 8.20  | 1.30 | 1.04 | 3.28 | 12.5 | - | - | 800  | 0.22 | ✓ | ✓ | - | ✓ | ✓ | - |
| 1215360 | 08B-1 | 0.500 | 12.700 | 7.75 | 8.51 | 11.50 | 1.80 | 1.55 | 4.45 | 16.5 | - | - | 1600 | 0.38 | ✓ | ✓ | ✓ | ✓ | - | - |

ANSI sizes available on request



# Renold Hydro-Service

## European (BS) Standard / ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | MAX                               | NOM    |                  |         |        |        |        |        |

### European (BS) Standard - Simplex

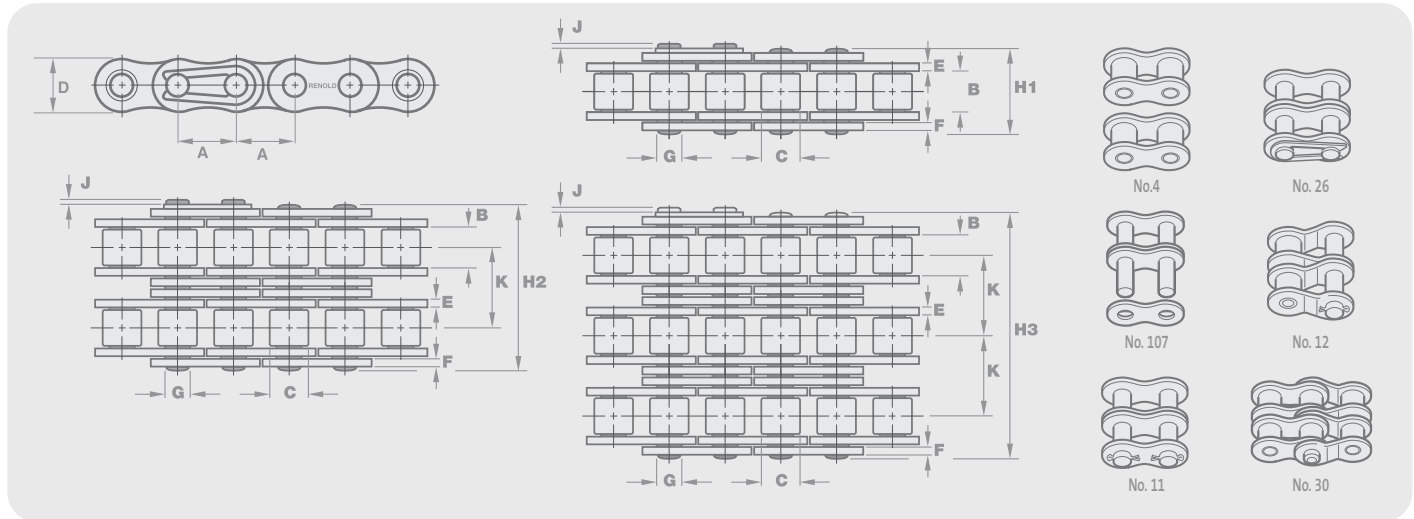
|        |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|
| 06B1HS | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.26  | 1.30 | 1.04 | 3.28  | 13.5 | 3.3 | - | 8900   | 0.39 | ✓ | ✓ | - | ✓ | - | ✓ |
| 08B1HS | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.81 | 1.55 | 1.55 | 4.45  | 17.0 | 3.9 | - | 17800  | 0.70 | ✓ | ✓ | - | ✓ | - | ✓ |
| 10B1HS | 10B-1 | 0.625 | 15.880 | 9.65  | 10.16 | 14.73 | 1.55 | 1.55 | 5.08  | 18.8 | 1.3 | - | 22200  | 0.92 | ✓ | ✓ | - | ✓ | - | ✓ |
| 12B1HS | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.13 | 1.80 | 1.80 | 5.72  | 21.9 | 1.1 | - | 28900  | 1.20 | ✓ | ✓ | - | ✓ | - | ✓ |
| 16B1HS | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 36.1 | 5.4 | - | 60000  | 2.80 | ✓ | ✓ | - | ✓ | ✓ | - |
| 20B1HS | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 43.2 | 6.1 | - | 95000  | 3.85 | ✓ | ✓ | - | ✓ | ✓ | - |
| 24B1HS | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 53.4 | 6.6 | - | 160000 | 7.45 | ✓ | ✓ | ✓ | - | ✓ | - |

### European (BS) Standard - Duplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|
| 06B2HS | 06B-2 | 0.375 | 9.525  | 5.72  | 6.35  | 8.26  | 1.30 | 1.04 | 3.28  | 23.0  | 1.3 | 10.24 | 16900  | 0.74  | ✓ | ✓ | - | ✓ | - | ✓ |
| 08B2HS | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.81 | 1.55 | 1.55 | 4.45  | 30.4  | 1.5 | 13.92 | 31100  | 1.38  | ✓ | ✓ | - | ✓ | - | ✓ |
| 10B2HS | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.73 | 1.55 | 1.55 | 5.08  | 35.4  | 1.3 | 16.59 | 44500  | 1.80  | ✓ | ✓ | - | ✓ | - | ✓ |
| 12B2HS | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.13 | 1.80 | 1.80 | 5.72  | 41.4  | 1.1 | 19.46 | 57800  | 2.40  | ✓ | ✓ | - | ✓ | - | ✓ |
| 16B2HS | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 68.0  | 5.4 | 31.88 | 106000 | 5.50  | ✓ | ✓ | - | ✓ | ✓ | - |
| 20B2HS | 20B-2 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 76.7  | 2.7 | 36.45 | 170000 | 7.80  | ✓ | ✓ | - | ✓ | ✓ | - |
| 24B2HS | 24B-2 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 101.3 | 6.8 | 48.36 | 280000 | 14.80 | ✓ | ✓ | ✓ | - | ✓ | - |

# Renold Hydro-Service

## ANSI Standard



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |                    | Connecting Links |         |        |        |        |        |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------------------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight<br><br>kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     |                    |                  |         |        |        |        |        |

### ANSI Standard - Simplex

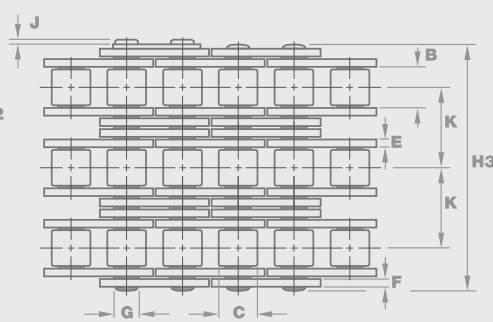
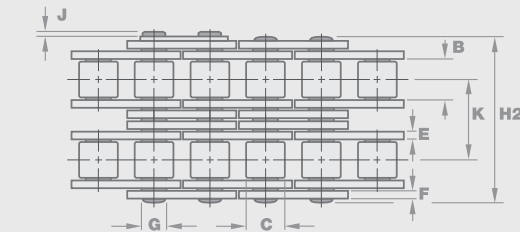
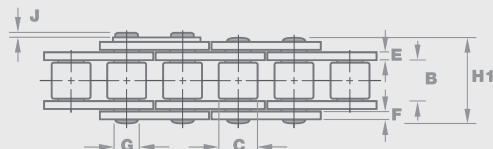
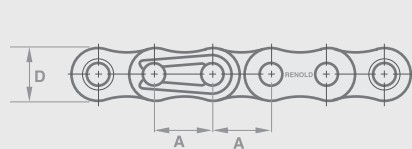
|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|
| 25A1HS  | 25-1  | 0.250 | 6.350  | 3.10  | 3.30  | 6.02  | 0.76 | 0.76 | 2.30  | 8.6  | 0.8 | - | 3500   | 0.13 | ✓ | ✓ | - | - | - | ✓ |
| 35A1HS  | 35-1  | 0.375 | 9.525  | 4.68  | 5.08  | 9.05  | 1.30 | 1.30 | 3.59  | 12.0 | 1.1 | - | 7900   | 0.33 | ✓ | ✓ | - | - | - | ✓ |
| 40A1HS  | 40-1  | 0.500 | 12.700 | 7.85  | 7.92  | 12.07 | 1.55 | 1.55 | 3.98  | 16.4 | 1.4 | - | 13900  | 0.60 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 50A1HS  | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 15.09 | 2.03 | 2.03 | 5.09  | 20.4 | 1.1 | - | 21800  | 1.00 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 60A1HS  | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 18.10 | 2.39 | 2.39 | 5.96  | 25.3 | 1.1 | - | 31300  | 1.47 | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 80A1HS  | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 32.7 | 3.0 | - | 55600  | 2.80 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| 100A1HS | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 39.7 | 4.2 | - | 87000  | 4.20 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| 120A1HS | 120-1 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 49.3 | 5.3 | - | 125000 | 5.70 | ✓ | ✓ | ✓ | ✓ | ✓ | - |

### ANSI Standard - Duplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H2   | J   | K     |        |       |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|-------|--------|-------|---|---|---|---|---|---|
| 25A2HS  | 25-2  | 0.250 | 6.350  | 3.10  | 3.30  | 6.02  | 0.76 | 0.76 | 2.30  | 15.5 | 0.8 | 6.40  | 7000   | 0.26  | ✓ | ✓ | - | - | - | ✓ |
| 35A2HS  | 35-2  | 0.375 | 9.525  | 4.68  | 5.08  | 9.05  | 1.30 | 1.30 | 3.59  | 22.2 | 1.1 | 10.13 | 15800  | 0.65  | ✓ | ✓ | - | ✓ | - | ✓ |
| 40A2HS  | 40-2  | 0.500 | 12.700 | 7.85  | 7.92  | 12.07 | 1.55 | 1.55 | 3.98  | 30.8 | 1.4 | 14.38 | 27800  | 1.20  | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 50A2HS  | 50-2  | 0.625 | 15.875 | 9.40  | 10.16 | 15.09 | 2.03 | 2.03 | 5.09  | 38.4 | 1.1 | 18.11 | 43600  | 2.10  | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 60A2HS  | 60-2  | 0.750 | 19.050 | 12.57 | 11.91 | 18.10 | 2.39 | 2.39 | 5.96  | 48.1 | 1.1 | 22.78 | 62600  | 3.05  | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| 80A2HS  | 80-2  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 61.9 | 3.0 | 29.29 | 111200 | 5.50  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| 100A2HS | 100-2 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 75.4 | 4.2 | 35.76 | 174000 | 8.40  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| 120A2HS | 120-2 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 94.7 | 5.3 | 45.44 | 250000 | 11.00 | ✓ | ✓ | ✓ | ✓ | ✓ | - |

# Renold Sovereign

European (BS) Standard / ISO 606 / ANSI Standard



No. 4



No. 26



No. 107



No. 12



No. 11/58



No. 30

| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                               | MIN    |                  |         |        |        |        |        |

## European (BS) Standard - Simplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|
| 08B1S0 | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45 | 16.5 | 2.0 | - | 17800 | 0.70 | ✓ | ✓ | - | ✓ | - | ✓ |
| 10B1S0 | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08 | 18.8 | 2.5 | - | 22200 | 0.96 | ✓ | ✓ | - | ✓ | - | ✓ |
| 12B1S0 | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72 | 21.9 | 2.6 | - | 28900 | 1.22 | ✓ | ✓ | - | ✓ | - | ✓ |
| 16B1S0 | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28 | 34.9 | 2.2 | - | 60000 | 2.80 | ✓ | ✓ | - | ✓ | ✓ | - |

## European (BS) Standard - Duplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G    | H2   | J   | K     |        |      |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|-------|--------|------|---|---|---|---|---|---|
| 08B2S0 | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45 | 30.4 | 2.0 | 13.92 | 31100  | 1.38 | ✓ | ✓ | - | ✓ | - | ✓ |
| 10B2S0 | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08 | 35.4 | 2.5 | 16.59 | 44500  | 1.69 | ✓ | ✓ | - | ✓ | - | ✓ |
| 12B2S0 | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72 | 41.4 | 2.6 | 19.46 | 57800  | 2.42 | ✓ | ✓ | - | ✓ | - | ✓ |
| 16B2S0 | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28 | 66.8 | 2.2 | 31.88 | 106000 | 5.50 | ✓ | ✓ | - | ✓ | ✓ | - |

| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |        | Connecting Links |         |        |        |        |        |        |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------|------------------|---------|--------|--------|--------|--------|--------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     | MIN    |                  |         |        |        |        |        |        |

## ANSI Standard - Simplex

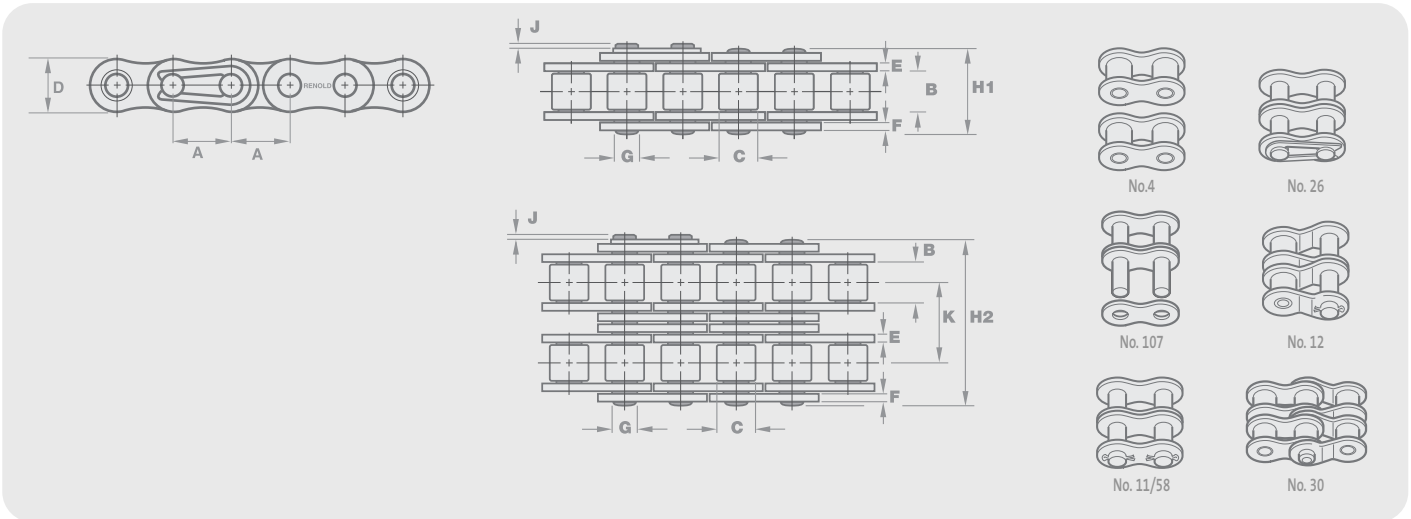
|        |      | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |   |
|--------|------|-------|--------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|---|
| 40A1S0 | 40-1 | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97 | 16.4 | 2.1 | - | 13900 | 0.60 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 50A1S0 | 50-1 | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08 | 20.4 | 2.7 | - | 21800 | 1.00 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 60A1S0 | 60-1 | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94 | 25.3 | 2.6 | - | 31300 | 1.47 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 80A1S0 | 80-1 | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94 | 32.7 | 3.0 | - | 55600 | 2.80 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

## ANSI Standard - Duplex

|        |      | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K     |        |      |   |   |   |   |   |   |   |
|--------|------|-------|--------|-------|-------|-------|------|------|------|------|-----|-------|--------|------|---|---|---|---|---|---|---|
| 40A2S0 | 40-2 | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97 | 30.8 | 2.1 | 14.38 | 27800  | 1.20 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 50A2S0 | 50-2 | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08 | 38.4 | 2.7 | 18.11 | 43600  | 1.98 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 60A2S0 | 60-2 | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94 | 48.1 | 2.6 | 22.78 | 62600  | 2.91 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 80A2S0 | 80-2 | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94 | 61.9 | 3.0 | 29.29 | 111200 | 5.50 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

# Renold Stainless Steel Chain

European (BS) Standard / ISO 606 / ANSI Standard



| Chain Ref.       |                | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |
|------------------|----------------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO/ ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |                |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              | MIN                               |             |                  |         |        |        |        |        |

## European (BS) Standard - Simplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|
| 05B1SS | 05B-1 | 0.315 | 8.000  | 3.00  | 5.00  | 7.11  | 0.76 | 0.76 | 2.31 | 8.6  | 1.5 | - | 3200  | 0.18 | ✓ | ✓ | - | ✓ | - | - |
| 06B1SS | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28 | 12.5 | 1.3 | - | 6850  | 0.39 | ✓ | ✓ | - | ✓ | ✓ | - |
| 08B1SS | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45 | 16.5 | 2.0 | - | 12000 | 0.70 | ✓ | ✓ | ✓ | ✓ | - | - |
| 10B1SS | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08 | 18.8 | 2.5 | - | 14700 | 0.96 | ✓ | ✓ | ✓ | ✓ | - | - |
| 12B1SS | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72 | 21.9 | 2.6 | - | 18640 | 1.22 | ✓ | ✓ | ✓ | ✓ | - | - |
| 16B1SS | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 20.20 | 3.70 | 3.00 | 8.28 | 34.9 | 2.2 | - | 43160 | 2.70 | ✓ | ✓ | ✓ | ✓ | - | - |

## European (BS) Standard - Duplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G    | H2   | J   | K     |       |      |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|-------|-------|------|---|---|---|---|---|---|
| 06B2SS | 06B-2 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28 | 23.0 | 1.3 | 10.24 | 12150 | 0.78 | ✓ | ✓ | - | ✓ | ✓ | - |
| 08B2SS | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45 | 30.4 | 2.0 | 13.92 | 23540 | 1.38 | ✓ | ✓ | ✓ | ✓ | - | - |
| 10B2SS | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08 | 35.4 | 2.5 | 16.59 | 29400 | 1.69 | ✓ | ✓ | ✓ | ✓ | - | - |
| 12B2SS | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72 | 41.4 | 2.6 | 19.46 | 37280 | 2.42 | ✓ | ✓ | ✓ | ✓ | - | - |
| 16B2SS | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 3.70 | 3.00 | 8.28 | 66.8 | 2.2 | 31.88 | 86320 | 5.40 | ✓ | ✓ | ✓ | ✓ | - | - |

## ANSI Standard - Simplex

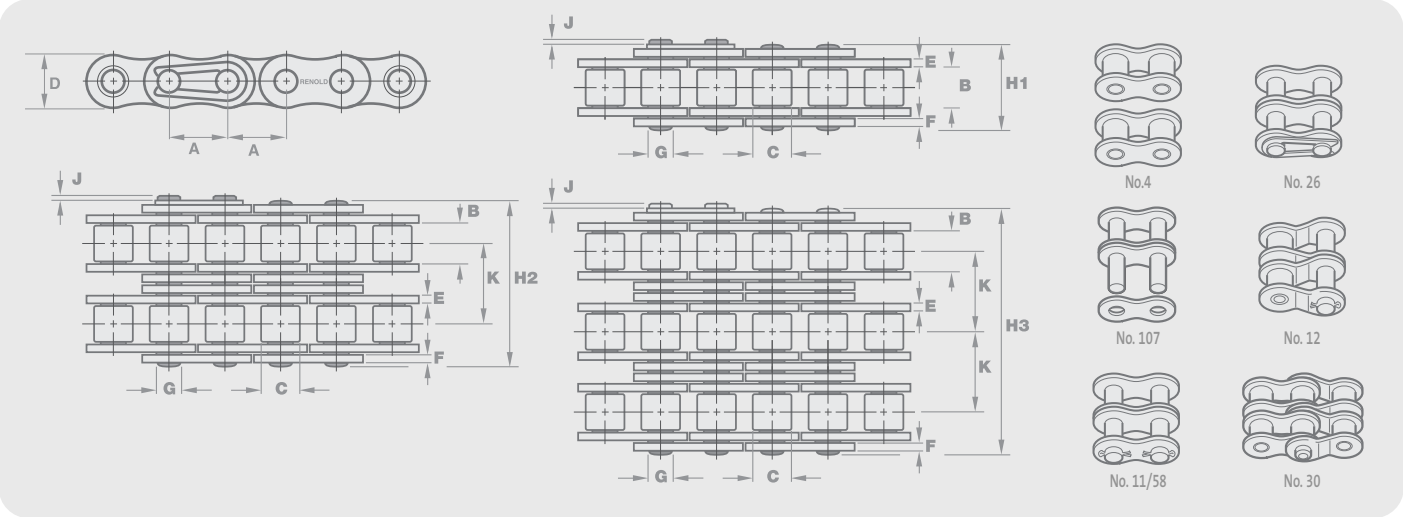
|        |      | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |
|--------|------|-------|--------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|
| 25A1SS | 25-1 | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30 | 7.9  | 1.2 | - | 2500  | 0.12 | ✓ | ✓ | - | ✓ | - | ✓ |
| 35A1SS | 35-1 | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59 | 12.0 | 1.7 | - | 7600  | 0.35 | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| 40A1SS | 40-1 | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97 | 16.4 | 2.1 | - | 10690 | 0.60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50A1SS | 50-1 | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08 | 20.4 | 2.7 | - | 16810 | 1.00 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 60A1SS | 60-1 | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94 | 25.3 | 2.6 | - | 30000 | 1.47 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 80A1SS | 80-1 | 1.000 | 25.400 | 15.75 | 15.88 | 23.00 | 3.00 | 3.00 | 7.94 | 32.7 | 3.0 | - | 51000 | 2.60 | ✓ | ✓ | ✓ | ✓ | - | - |

## ANSI Standard - Duplex

|        |      | A     | A      | B     | C     | D     | E    | F    | G    | H2   | J   | K     |        |      |   |   |   |   |   |   |
|--------|------|-------|--------|-------|-------|-------|------|------|------|------|-----|-------|--------|------|---|---|---|---|---|---|
| 35A2SS | 35-2 | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59 | 22.2 | 1.7 | 10.13 | 15200  | 0.62 | ✓ | ✓ | ✓ | ✓ | - | - |
| 40A2SS | 40-2 | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97 | 30.8 | 2.1 | 14.38 | 21380  | 1.20 | ✓ | ✓ | ✓ | ✓ | - | - |
| 50A2SS | 50-2 | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08 | 38.4 | 2.7 | 18.11 | 33620  | 1.98 | ✓ | ✓ | ✓ | ✓ | - | - |
| 60A2SS | 60-2 | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94 | 48.1 | 2.6 | 22.78 | 60000  | 2.91 | ✓ | ✓ | ✓ | ✓ | - | - |
| 80A2SS | 80-2 | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.00 | 3.00 | 7.93 | 62.7 | 5.4 | 29.29 | 101000 | 5.01 | ✓ | ✓ | ✓ | ✓ | - | - |

# Zinc Plated Chain

European (BS) Standard / ISO 606 / ANSI Standard



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              | MIN                               |             |                  |         |        |        |        |        |        |

European (BS) Standard - Simplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|---|
| 581015 | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 12.5 | 1.3 | - | 7565   | 0.39 | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 581803 | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 16.5 | 2.0 | - | 15130  | 0.70 | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 583109 | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 18.8 | 2.5 | - | 18870  | 0.96 | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 583620 | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 21.9 | 2.6 | - | 24565  | 1.22 | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 584319 | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 34.9 | 2.2 | - | 51000  | 2.80 | ✓ | ✓ | - | ✓ | - | - | - |
| 585187 | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 39.8 | 2.7 | - | 80750  | 3.85 | ✓ | ✓ | - | ✓ | - | ✓ | - |
| 585466 | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 52.6 | 6.8 | - | 136000 | 7.45 | ✓ | ✓ | ✓ | - | - | ✓ | - |

ANSI sizes available on request



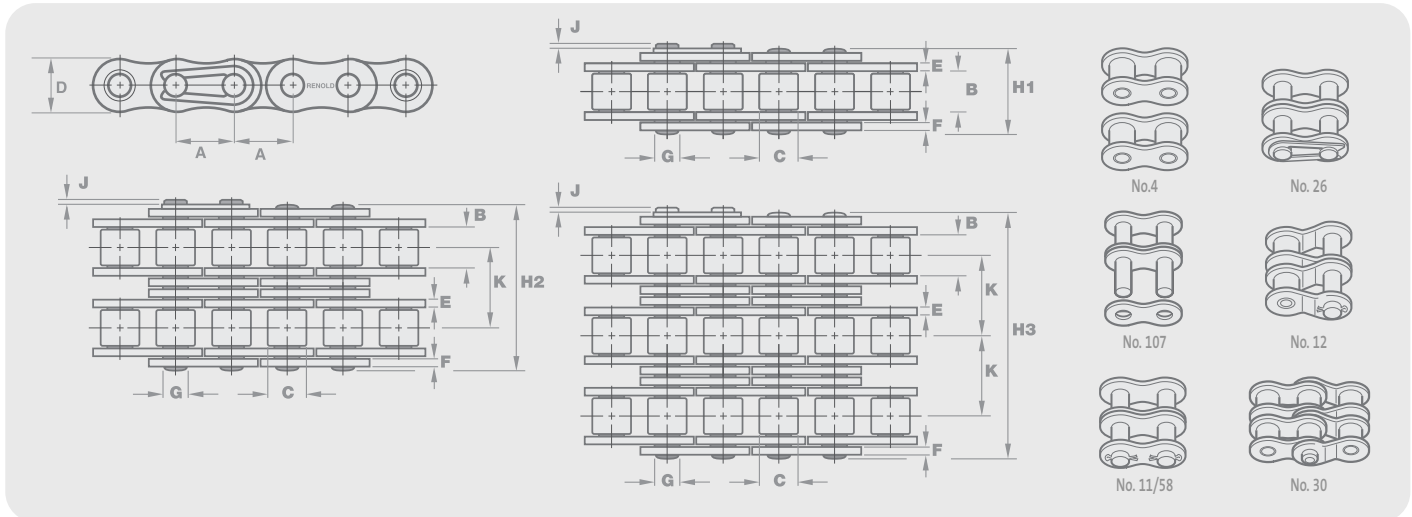
Stainless Steel Chain



Zinc Plated Chain

# Nickel Plated Chain

European (BS) Standard / ISO 606 / ANSI Standard



| Chain Ref.       |               | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |               | Connecting Links |         |        |        |        |        |        |
|------------------|---------------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|---------------|------------------|---------|--------|--------|--------|--------|--------|
| Renold Chain No. | ISO/ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight (kg/m) | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |
|                  |               |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | MAX                               | NOM           | MIN              |         |        |        |        |        |        |

## European (BS) Standard - Simplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |       |   |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|-------|---|---|---|---|---|---|---|
| 550038 | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 12.5 | 1.3 | - | 7565   | 0.39  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 550046 | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 16.5 | 2.0 | - | 15130  | 0.70  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 550056 | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 18.8 | 2.5 | - | 18870  | 0.96  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 550066 | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 21.9 | 2.6 | - | 24565  | 1.22  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 550088 | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 34.9 | 2.2 | - | 51000  | 2.80  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| 550127 | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 52.6 | 6.8 | - | 136000 | 7.45  | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 550147 | 28B-1 | 1.750 | 44.450 | 30.99 | 27.94 | 37.08 | 7.62 | 6.35 | 15.90 | 64.2 | 6.8 | - | 170000 | 9.35  | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 550166 | 32B-1 | 2.000 | 50.800 | 30.99 | 29.21 | 42.29 | 7.11 | 6.35 | 17.81 | 63.4 | 8.0 | - | 212500 | 10.10 | ✓ | ✓ | ✓ | - | - | ✓ | - |

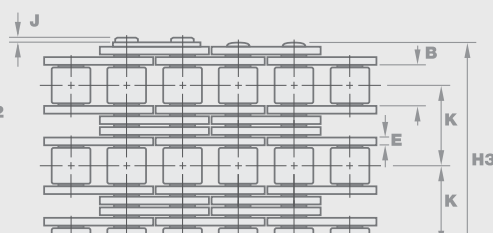
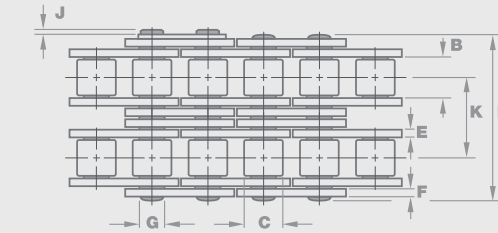
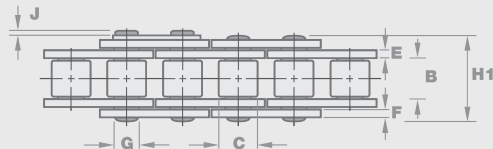
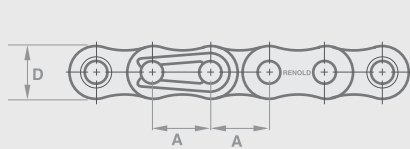
## ANSI Standard - Simplex

|        |       | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|---|
| 559043 | 40-1  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97 | 16.4 | 2.1 | - | 11815 | 0.60 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 559053 | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08 | 20.4 | 2.7 | - | 18530 | 1.00 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 559063 | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94 | 25.3 | 2.6 | - | 26605 | 1.47 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 559083 | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94 | 32.7 | 3.0 | - | 47260 | 2.80 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 559103 | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54 | 39.7 | 4.2 | - | 73950 | 4.20 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |



# Renold Roller Chain

## European (BS) Standard / ISO 606



No. 4



No. 26



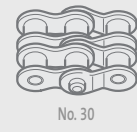
No. 107



No. 12



No. 11/58



No. 30

| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |        |        |         |  |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|--------|--------|---------|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 | No. 69 | No. 87 | No. 211 |  |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | MAX                               | NOM         | MIN              |         |        |        |        |        |        |        |         |  |

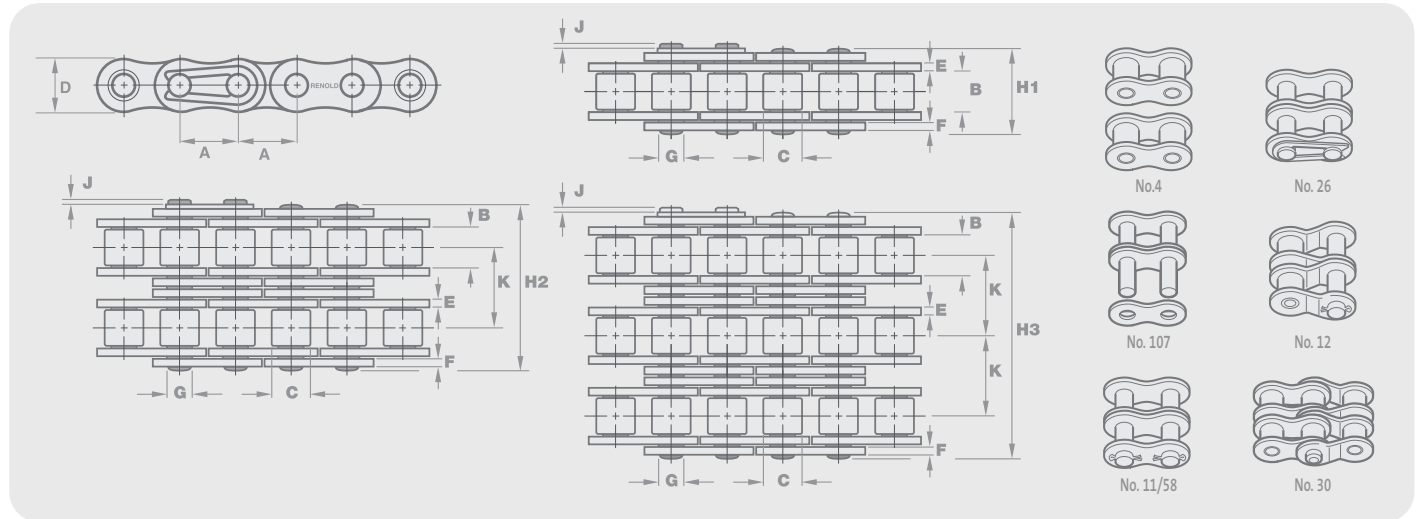
### European (BS) Standard - Simplex

|        |       | A     | A       | B     | C     | D     | E     | F     | G     | H1    | J    | K |        |       |   |   |   |   |   |   |   |   |   |
|--------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|------|---|--------|-------|---|---|---|---|---|---|---|---|---|
| 1141   | -     | 0.157 | 4.000   | 2.70  | 2.50  | 4.10  | 0.57  | 0.57  | 1.65  | 6.8   | 1.2  | - | 1800   | 0.07  | ✓ | ✓ | ✓ | - | - | - | - | - | - |
| 1151   | 03    | 0.197 | 5.000   | 2.50  | 3.20  | 4.10  | 0.60  | 0.60  | 1.49  | 7.4   | 1.3  | - | 2200   | 0.08  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 1161   | 04    | 0.236 | 6.000   | 2.80  | 4.00  | 5.00  | 0.60  | 0.60  | 1.85  | 7.4   | 1.0  | - | 3000   | 0.12  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 05B1   | 05B-1 | 0.315 | 8.000   | 3.00  | 5.00  | 7.11  | 0.76  | 0.76  | 2.31  | 8.6   | 1.5  | - | 4400   | 0.18  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 06B1*  | 06B-1 | 0.375 | 9.525   | 5.72  | 6.35  | 8.20  | 1.29  | 1.04  | 3.28  | 12.5  | 1.3  | - | 8900   | 0.39  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 08B1   | 08B-1 | 0.500 | 12.700  | 7.75  | 8.51  | 11.70 | 1.55  | 1.55  | 4.45  | 16.5  | 2.0  | - | 17800  | 0.70  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 111043 | -     | 0.500 | 12.700  | 4.88  | 7.75  | 9.60  | 1.13  | 0.98  | 4.09  | 11.4  | 2.0  | - | 8900   | 0.35  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 111041 | -     | 0.500 | 12.700  | 3.30  | 7.75  | 9.60  | 1.13  | 0.98  | 4.09  | 9.8   | 2.0  | - | 8900   | 0.30  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 110043 | -     | 0.500 | 12.700  | 5.21  | 8.51  | 11.70 | 1.55  | 1.55  | 4.45  | 14.5  | 2.0  | - | 17800  | 0.70  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 10B1   | 10B-1 | 0.625 | 15.875  | 9.65  | 10.16 | 14.60 | 1.55  | 1.55  | 5.08  | 18.8  | 2.5  | - | 22200  | 0.96  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 110053 | -     | 0.625 | 15.875  | 6.48  | 10.16 | 14.60 | 1.55  | 1.55  | 5.08  | 16.0  | 2.5  | - | 22200  | 0.81  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 12B1   | 12B-1 | 0.750 | 19.050  | 11.68 | 12.07 | 16.00 | 1.81  | 1.81  | 5.72  | 21.9  | 2.6  | - | 28900  | 1.22  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 16B1   | 16B-1 | 1.000 | 25.400  | 17.02 | 15.88 | 21.08 | 4.12  | 3.10  | 8.28  | 34.9  | 2.2  | - | 60000  | 2.80  | ✓ | ✓ | - | ✓ | ✓ | - | - | - | - |
| 20B1   | 20B-1 | 1.250 | 31.750  | 19.56 | 19.05 | 26.42 | 4.62  | 3.61  | 10.19 | 39.8  | 2.7  | - | 95000  | 3.85  | ✓ | ✓ | - | ✓ | ✓ | - | - | - | - |
| 24B1   | 24B-1 | 1.500 | 38.100  | 25.40 | 25.40 | 33.40 | 6.10  | 5.08  | 14.63 | 52.6  | 6.8  | - | 160000 | 7.45  | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 28B1   | 28B-1 | 1.750 | 44.450  | 30.99 | 27.94 | 37.08 | 7.62  | 6.35  | 15.90 | 64.2  | 6.8  | - | 200000 | 9.35  | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 32B1   | 32B-1 | 2.000 | 50.800  | 30.99 | 29.21 | 42.29 | 7.11  | 6.35  | 17.81 | 63.4  | 8.0  | - | 250000 | 10.10 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 40B1   | 40B-1 | 2.500 | 63.500  | 39.30 | 39.37 | 52.96 | 8.13  | 8.13  | 22.89 | 78.2  | 9.5  | - | 355000 | 16.50 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 180709 | -     | 3.000 | 76.200  | 45.72 | 48.26 | 66.04 | 12.19 | 10.16 | 29.24 | 99.1  | 10.5 | - | 560000 | 25.80 | ✓ | ✓ | ✓ | - | - | - | ✓ | ✓ | - |
| 180781 | -     | 3.500 | 88.900  | 53.34 | 53.98 | 80.52 | 13.72 | 12.70 | 34.30 | 114.6 | 11.7 | - | 778435 | 35.20 | ✓ | ✓ | ✓ | - | - | - | - | - | ✓ |
| 110325 | -     | 4.000 | 101.600 | 60.96 | 63.50 | 90.17 | 15.24 | 13.72 | 39.40 | 130.9 | 13.0 | - | 711800 | 49.30 | ✓ | ✓ | - | - | - | - | - | - | - |

\* Straight side plates

# Renold Roller Chain

## European (BS) Standard / ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |        |        |         |     |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|--------|--------|---------|-----|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 | No. 69 | No. 87 | No. 211 |     |
|                  |          |                        |            |              | MIN          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | MAX                               |             |                  |         |        |        |        |        |        |        |         | NOM |

### European (BS) Standard - Duplex

|        |       | A     | A       | B     | C     | D     | E     | F     | G     | H1    | J    | K      |         |       |   |   |   |   |   |   |   |   |   |
|--------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|------|--------|---------|-------|---|---|---|---|---|---|---|---|---|
| 05B2   | 05B-2 | 0.315 | 8.000   | 3.00  | 5.00  | 7.11  | 0.76  | 0.76  | 2.31  | 14.3  | 1.5  | 5.64   | 7800    | 0.36  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 06B2*  | 06B-2 | 0.375 | 9.525   | 3.72  | 6.35  | 8.20  | 1.29  | 1.04  | 3.28  | 23.0  | 1.3  | 10.24  | 16900   | 0.78  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 08B2   | 08B-2 | 0.500 | 12.700  | 7.75  | 8.51  | 11.70 | 1.55  | 1.55  | 4.45  | 30.4  | 2.0  | 13.92  | 31100   | 1.38  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 10B2   | 10B-2 | 0.625 | 15.875  | 9.65  | 10.16 | 14.60 | 1.55  | 1.55  | 5.08  | 35.4  | 2.5  | 16.59  | 44500   | 1.69  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 12B2   | 12B-2 | 0.750 | 19.050  | 11.68 | 12.07 | 16.00 | 1.81  | 1.81  | 5.72  | 41.4  | 2.6  | 19.46  | 57800   | 2.42  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 16B2   | 16B-2 | 1.000 | 25.400  | 17.02 | 15.88 | 21.08 | 4.12  | 3.10  | 8.28  | 66.8  | 2.2  | 31.88  | 106000  | 5.50  | ✓ | ✓ | - | ✓ | ✓ | - | - | - | - |
| 20B2   | 20B-2 | 1.250 | 31.750  | 19.56 | 19.05 | 26.42 | 4.62  | 3.61  | 10.19 | 76.7  | 2.7  | 36.45  | 170000  | 7.80  | ✓ | ✓ | - | ✓ | ✓ | - | - | - | - |
| 24B2   | 24B-2 | 1.500 | 38.100  | 25.40 | 25.40 | 33.40 | 6.10  | 5.08  | 14.63 | 101.3 | 6.8  | 48.36  | 280000  | 14.80 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 28B2   | 28B-2 | 1.750 | 44.450  | 30.99 | 27.94 | 37.08 | 7.62  | 6.35  | 15.90 | 123.7 | 6.8  | 59.56  | 360000  | 18.60 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 32B2   | 32B-2 | 2.000 | 50.800  | 30.99 | 29.21 | 42.29 | 7.11  | 6.35  | 17.81 | 122.0 | 8.0  | 58.55  | 450000  | 20.10 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 40B2   | 40B-2 | 2.500 | 63.500  | 39.30 | 39.37 | 52.96 | 8.13  | 8.13  | 22.89 | 150.5 | 9.5  | 72.29  | 630000  | 32.80 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 180721 | -     | 3.000 | 76.200  | 45.72 | 48.26 | 66.04 | 12.19 | 10.16 | 29.24 | 190.4 | 10.5 | 91.21  | 1000000 | 51.00 | ✓ | ✓ | ✓ | - | - | - | ✓ | - | - |
| 180760 | -     | 3.500 | 88.900  | 53.34 | 53.98 | 80.52 | 12.45 | 13.72 | 34.30 | 221.2 | 11.7 | 106.60 | 1557000 | 69.70 | ✓ | ✓ | ✓ | - | - | - | - | - | - |
| 114325 | -     | 4.000 | 101.600 | 60.96 | 63.50 | 90.17 | 15.24 | 13.72 | 39.40 | 250.8 | 13.0 | 119.90 | 1423420 | 97.50 | ✓ | ✓ | ✓ | - | - | - | - | - | - |

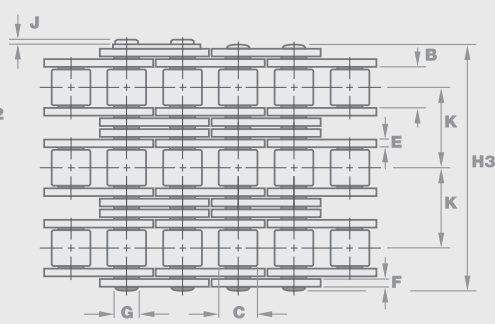
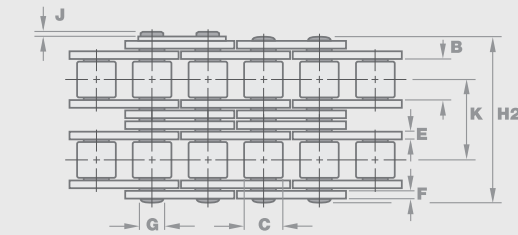
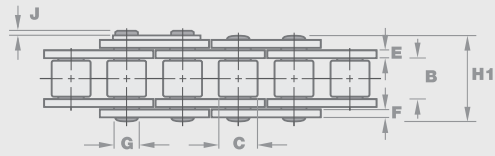
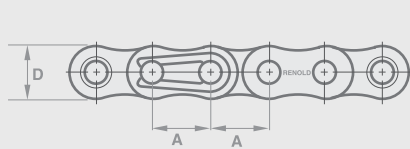
### European (BS) Standard - Triplex

|        |       | A     | A      | B     | C     | D     | E     | F     | G     | H1    | J    | K     |         |       |   |   |   |   |   |   |   |   |   |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-------|---------|-------|---|---|---|---|---|---|---|---|---|
| 05B3   | 05B-3 | 0.315 | 8.000  | 3.00  | 5.00  | 7.11  | 0.76  | 0.76  | 2.31  | 19.9  | 1.5  | 5.64  | 11100   | 0.54  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 06B3*  | 06B-3 | 0.375 | 9.525  | 3.72  | 6.35  | 8.20  | 1.29  | 1.04  | 3.28  | 33.3  | 1.3  | 10.24 | 24900   | 1.11  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 08B3   | 08B-3 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55  | 1.55  | 4.45  | 44.3  | 2.0  | 13.92 | 44500   | 2.06  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 10B3   | 10B-3 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55  | 1.55  | 5.08  | 52.0  | 2.5  | 16.59 | 66700   | 2.54  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 12B3   | 12B-3 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81  | 1.81  | 5.72  | 60.9  | 2.6  | 19.46 | 86700   | 3.59  | ✓ | ✓ | - | ✓ | - | ✓ | - | - | - |
| 16B3   | 16B-3 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12  | 3.10  | 8.28  | 98.6  | 2.2  | 31.88 | 160000  | 8.15  | ✓ | ✓ | - | ✓ | ✓ | - | - | - | - |
| 20B3   | 20B-3 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62  | 3.61  | 10.19 | 113.2 | 2.7  | 36.45 | 250000  | 11.65 | ✓ | ✓ | - | ✓ | ✓ | - | - | - | - |
| 24B3   | 24B-3 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10  | 5.08  | 14.63 | 149.7 | 6.8  | 48.36 | 425000  | 22.25 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 28B3   | 28B-3 | 1.750 | 44.450 | 30.99 | 27.94 | 37.08 | 7.62  | 6.35  | 15.90 | 183.3 | 6.8  | 59.56 | 530000  | 28.00 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 32B3   | 32B-3 | 2.000 | 50.800 | 30.99 | 29.21 | 42.29 | 7.11  | 6.35  | 17.81 | 180.5 | 8.0  | 58.55 | 670000  | 30.00 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 40B3   | 40B-3 | 2.500 | 63.500 | 39.30 | 39.37 | 52.96 | 8.13  | 8.13  | 22.89 | 222.8 | 9.5  | 72.29 | 950000  | 48.90 | ✓ | ✓ | ✓ | - | ✓ | - | - | - | - |
| 180739 | -     | 3.000 | 76.200 | 45.72 | 48.26 | 66.04 | 12.19 | 10.16 | 29.24 | 281.6 | 10.5 | 91.21 | 1500000 | 76.20 | ✓ | ✓ | ✓ | - | - | - | - | - | - |

\* Straight side plates

# Renold Roller Chain

## ANSI Standard / ISO 606



No. 4



No. 26



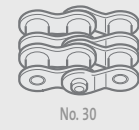
No. 107



No. 12



No. 11/58



No. 30

| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                       | Connecting Links |       |         |        |        |        |        |        |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|---------------------------------------|------------------|-------|---------|--------|--------|--------|--------|--------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) MIN | Weight kg/m      | No. 4 | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              |                                       |                  |       |         |        |        |        |        |        |

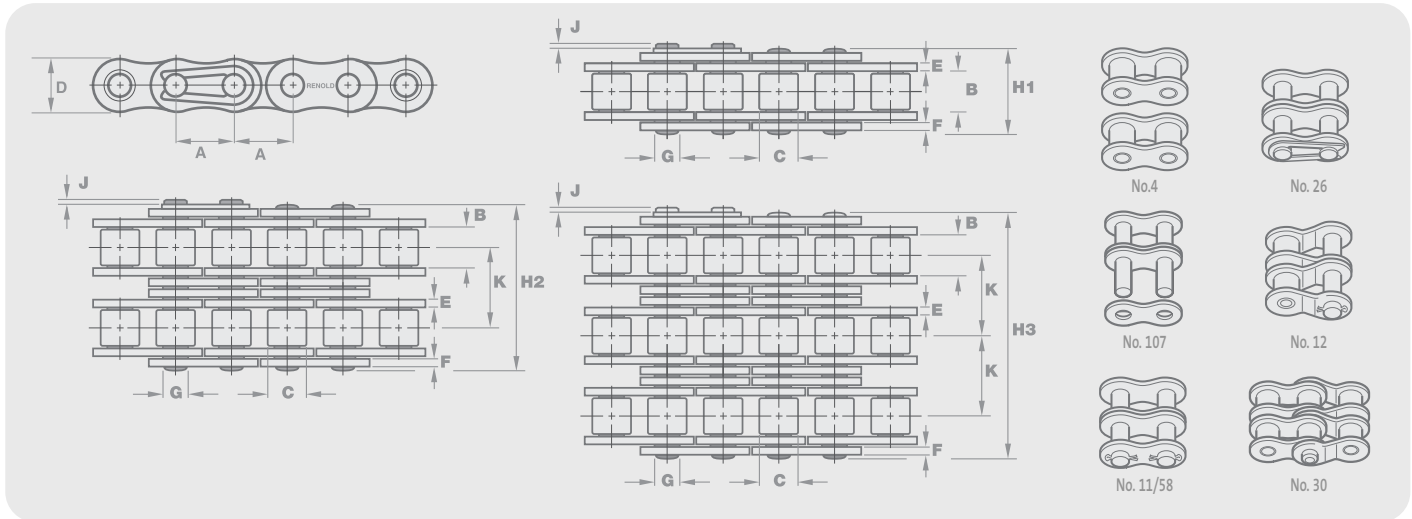
### ANSI Standard - Simplex

|                   |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J    | K |        |       |   |   |   |   |   |   |   |
|-------------------|-------|-------|--------|-------|-------|-------|------|------|-------|------|------|---|--------|-------|---|---|---|---|---|---|---|
| 25A1 <sup>o</sup> | 25-1  | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30  | 7.9  | 1.2  | - | 3500   | 0.12  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 35A1 <sup>o</sup> | 35-1  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 12.0 | 1.7  | - | 7900   | 0.35  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 40A1              | 40-1  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 16.4 | 2.1  | - | 13900  | 0.60  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 41A1              | 41-1  | 0.500 | 12.700 | 6.35  | 7.77  | 9.91  | 1.30 | 1.30 | 3.59  | 14.5 | 2.1  | - | 6700   | 0.42  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| 50A1              | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 20.4 | 2.7  | - | 21800  | 1.00  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 60A1              | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 25.3 | 2.6  | - | 31300  | 1.47  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 80A1              | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 32.7 | 3.0  | - | 55600  | 2.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 100A1             | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 39.7 | 4.2  | - | 87000  | 4.20  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 120A1             | 120-1 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 49.3 | 5.3  | - | 125000 | 5.70  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 140A1             | 140-1 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 52.9 | 5.2  | - | 170000 | 7.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 160A1             | 160-1 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 63.1 | 6.5  | - | 223000 | 10.40 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 180A1             | 180-1 | 2.250 | 57.150 | 35.48 | 35.71 | 54.30 | 7.11 | 7.11 | 17.46 | 70.6 | 7.9  | - | 281000 | 13.94 | ✓ | ✓ | ✓ | - | ✓ | - | - |
| 200A1             | 200-1 | 2.500 | 63.500 | 37.85 | 39.67 | 60.33 | 8.13 | 8.13 | 19.85 | 76.9 | 9.0  | - | 347000 | 17.30 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 240A1             | 240-1 | 3.000 | 76.200 | 47.35 | 47.62 | 72.39 | 9.80 | 9.80 | 23.80 | 94.4 | 10.5 | - | 500000 | 25.00 | ✓ | ✓ | ✓ | - | ✓ | - | - |

<sup>o</sup> Bush Chain

# Renold Roller Chain

## ANSI Standard / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |        |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|--------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                               | MIN         |                  |         |        |        |        |        |        |

### ANSI Standard - Duplex

|                   |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J    | K     |         |       |   |   |   |   |   |   |   |
|-------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|------|-------|---------|-------|---|---|---|---|---|---|---|
| 25A2 <sup>o</sup> | 25-2  | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30  | 14.2  | 1.2  | 6.40  | 7000    | 0.26  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 35A2 <sup>o</sup> | 35-2  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 22.2  | 1.7  | 10.13 | 15800   | 0.62  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| 40A2              | 40-2  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 30.8  | 2.1  | 14.38 | 27800   | 1.20  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 50A2              | 50-2  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 38.4  | 2.7  | 18.11 | 43600   | 1.98  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 60A2              | 60-2  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 48.1  | 2.6  | 22.78 | 62600   | 2.91  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 80A2              | 80-2  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 61.9  | 3.0  | 29.29 | 111200  | 5.50  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 100A2             | 100-2 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 75.4  | 4.2  | 35.76 | 174000  | 8.40  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 120A2             | 120-2 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 94.7  | 5.3  | 45.44 | 250000  | 11.00 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 140A2             | 140-2 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 101.8 | 5.2  | 48.87 | 340000  | 15.50 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 160A2             | 160-2 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 121.6 | 6.5  | 58.55 | 446000  | 20.60 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 180A2             | 180-2 | 2.250 | 57.150 | 35.48 | 35.71 | 54.30 | 7.11 | 7.11 | 17.46 | 136.5 | 7.9  | 65.84 | 562000  | 27.72 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 200A2             | 200-2 | 2.500 | 63.500 | 37.85 | 39.67 | 60.33 | 8.13 | 8.13 | 19.85 | 148.5 | 9.0  | 71.55 | 694000  | 34.40 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| 240A2             | 240-2 | 3.000 | 76.200 | 47.35 | 47.62 | 72.39 | 9.80 | 9.80 | 23.80 | 182.2 | 10.5 | 87.80 | 1000000 | 50.00 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

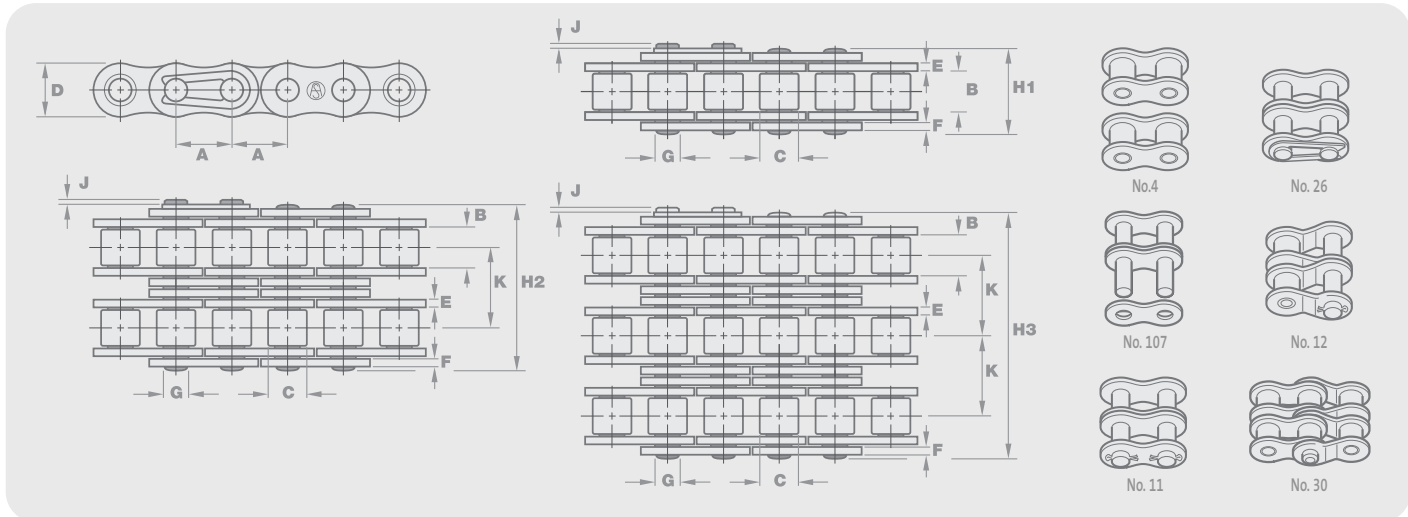
### ANSI Standard - Triplex

|                   |       | A     | A      | B     | C     | D     | E    | F    | G     | H3    | J    | K     |         |       |   |   |   |   |   |   |   |
|-------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|------|-------|---------|-------|---|---|---|---|---|---|---|
| 25A3 <sup>o</sup> | 25-3  | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30  | 20.8  | 1.2  | 6.40  | 10500   | 0.39  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| 35A3 <sup>o</sup> | 35-3  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 32.2  | 1.7  | 10.13 | 23700   | 0.93  | ✓ | ✓ | - | ✓ | - | ✓ | ✓ |
| 40A3              | 40-3  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 45.1  | 2.1  | 14.38 | 41700   | 1.80  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 50A3              | 50-3  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 56.5  | 2.7  | 18.11 | 65400   | 2.96  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 60A3              | 60-3  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 70.9  | 2.6  | 22.78 | 93900   | 4.38  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| 80A3              | 80-3  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 91.2  | 3.0  | 29.29 | 166800  | 8.30  | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 100A3             | 100-3 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 111.2 | 4.2  | 35.76 | 261000  | 12.60 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 120A3             | 120-3 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 140.2 | 5.3  | 45.44 | 375000  | 16.70 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 140A3             | 140-3 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 150.7 | 5.2  | 48.87 | 510000  | 23.10 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 160A3             | 160-3 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 180.2 | 6.5  | 58.55 | 669000  | 31.00 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 180A3             | 180-3 | 2.250 | 57.150 | 35.48 | 35.71 | 54.30 | 7.11 | 7.11 | 17.46 | 202.3 | 7.9  | 65.84 | 843000  | 41.50 | ✓ | ✓ | ✓ | - | - | - | - |
| 200A3             | 200-3 | 2.500 | 63.500 | 37.85 | 39.67 | 60.33 | 8.13 | 8.13 | 19.85 | 229.0 | 9.0  | 71.55 | 1041000 | 51.20 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| 240A3             | 240-3 | 3.000 | 76.200 | 47.35 | 47.62 | 72.39 | 9.80 | 9.80 | 23.80 | 270.1 | 10.5 | 87.80 | 1500000 | 75.00 | ✓ | ✓ | ✓ | - | ✓ | - | - |

<sup>o</sup> Bush Chain

# Renold A&S Roller Chain

## European (BS) Standard / ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                               | MIN    |                  |         |        |        |        |        |

### European (BS) Standard - Simplex

|          |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |       |   |   |   |   |   |   |
|----------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|-------|---|---|---|---|---|---|
| 1000001  | -     | 0.158 | 4.000  | 2.70  | 2.50  | 4.10  | 0.57 | 0.57 | 1.65  | 6.8  | 1.2 | - | 1800   | 0.07  | ✓ | ✓ | ✓ | - | - | - |
| 1000002  | 03    | 0.197 | 5.000  | 2.50  | 3.20  | 4.10  | 0.60 | 0.60 | 1.49  | 7.4  | 1.3 | - | 2200   | 0.08  | ✓ | ✓ | - | ✓ | - | ✓ |
| 1000003  | 04    | 0.236 | 6.000  | 2.80  | 4.00  | 5.00  | 0.60 | 0.60 | 1.85  | 7.4  | 1.0 | - | 3000   | 0.12  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR05B1   | 05B-1 | 0.315 | 8.000  | 3.00  | 5.00  | 7.11  | 0.76 | 0.76 | 2.31  | 8.6  | 1.5 | - | 4400   | 0.18  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR06B1*  | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 12.5 | 1.3 | - | 8900   | 0.39  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR08B1** | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 16.5 | 2.0 | - | 17800  | 0.70  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR10B1** | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 18.8 | 2.5 | - | 22200  | 0.96  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR12B1** | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 21.9 | 2.6 | - | 28900  | 1.22  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR16B1** | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 34.9 | 2.2 | - | 60000  | 2.80  | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| AR20B1** | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 39.8 | 2.7 | - | 95000  | 3.85  | ✓ | ✓ | - | ✓ | ✓ | - |
| AR24B1** | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 52.6 | 6.8 | - | 160000 | 7.45  | ✓ | ✓ | ✓ | - | ✓ | - |
| AR28B1   | 28B-1 | 1.750 | 44.450 | 30.99 | 27.94 | 37.08 | 7.62 | 6.35 | 15.90 | 64.2 | 6.8 | - | 200000 | 9.35  | ✓ | ✓ | ✓ | - | ✓ | - |
| AR32B1   | 32B-1 | 2.000 | 50.800 | 30.99 | 29.21 | 42.29 | 7.11 | 6.35 | 17.81 | 63.4 | 8.0 | - | 250000 | 10.10 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR40B1   | 40B-1 | 2.500 | 63.500 | 39.30 | 39.37 | 52.96 | 8.13 | 8.13 | 22.89 | 78.2 | 9.5 | - | 355000 | 16.50 | ✓ | ✓ | ✓ | - | ✓ | - |

### European (BS) Standard - Duplex

|          |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |
|----------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|
| 1000004  | 04    | 0.236 | 6.000  | 2.80  | 4.00  | 5.00  | 0.60 | 0.60 | 1.85  | 7.4   | 1.0 | 5.50  | 6000   | 0.24  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR05B2   | 05B-2 | 0.315 | 8.000  | 3.00  | 5.00  | 7.11  | 0.76 | 0.76 | 2.31  | 14.3  | 1.5 | 5.64  | 7800   | 0.36  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR06B2*  | 06B-2 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 23.0  | 1.3 | 10.24 | 16900  | 0.78  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR08B2** | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 30.4  | 2.0 | 13.92 | 31100  | 1.38  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR10B2** | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 35.4  | 2.5 | 16.59 | 44500  | 1.69  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR12B2** | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 41.4  | 2.6 | 19.46 | 57800  | 2.42  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR16B2** | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 66.8  | 2.2 | 31.88 | 106000 | 5.50  | ✓ | ✓ | - | ✓ | ✓ | - |
| AR20B2   | 20B-2 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 76.7  | 2.7 | 36.45 | 170000 | 7.80  | ✓ | ✓ | - | ✓ | ✓ | - |
| AR24B2   | 24B-2 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 101.3 | 6.8 | 48.36 | 280000 | 14.80 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR28B2   | 28B-2 | 1.750 | 44.450 | 30.99 | 27.94 | 37.08 | 7.62 | 6.35 | 15.90 | 123.7 | 6.8 | 59.56 | 360000 | 18.60 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR32B2   | 32B-2 | 2.000 | 50.800 | 30.99 | 29.21 | 42.29 | 7.11 | 6.35 | 17.81 | 122.0 | 8.0 | 58.55 | 450000 | 20.10 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR40B2   | 40B-2 | 2.500 | 63.500 | 39.30 | 39.37 | 52.96 | 8.13 | 8.13 | 22.89 | 150.5 | 9.5 | 72.29 | 630000 | 32.80 | ✓ | ✓ | ✓ | - | ✓ | - |

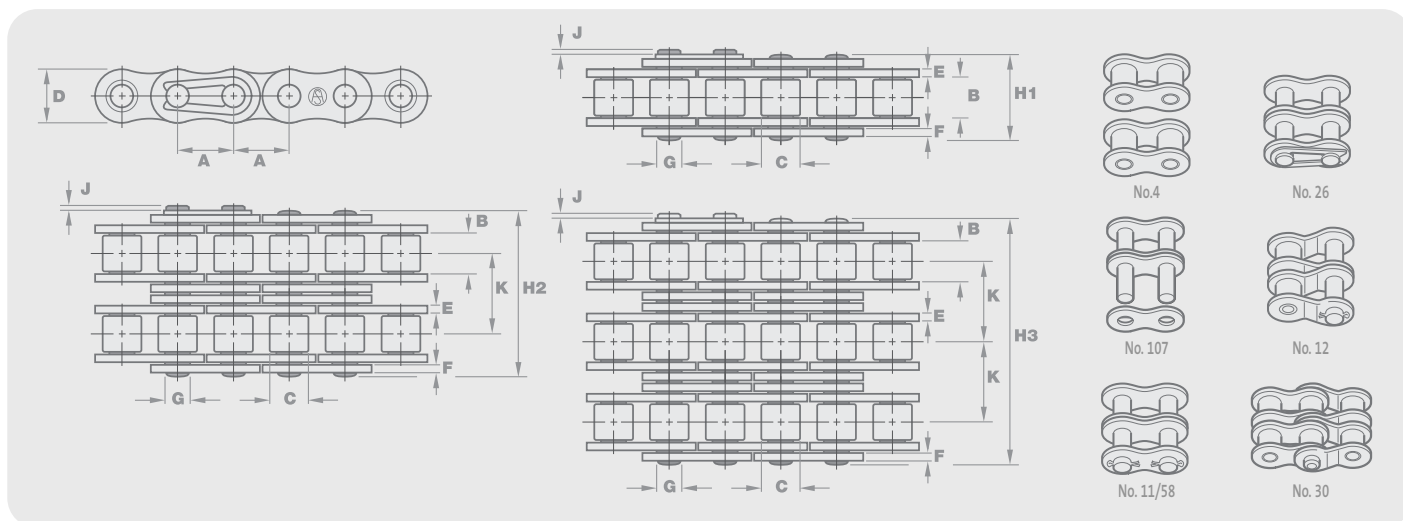
### European (BS) Standard - Triplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H3    | J   | K     |        |       |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|
| AR05B3  | 05B-3 | 0.315 | 8.000  | 3.00  | 5.00  | 7.11  | 0.76 | 0.76 | 2.31  | 19.9  | 1.5 | 5.64  | 11100  | 0.54  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR06B3* | 06B-3 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.29 | 1.04 | 3.28  | 33.3  | 1.3 | 10.24 | 24900  | 1.11  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR08B3  | 08B-3 | 0.500 | 12.700 | 7.75  | 8.51  | 11.70 | 1.55 | 1.55 | 4.45  | 44.3  | 2.0 | 13.92 | 44500  | 2.06  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR10B3  | 10B-3 | 0.625 | 15.875 | 9.65  | 10.16 | 14.60 | 1.55 | 1.55 | 5.08  | 52.0  | 2.5 | 16.59 | 66700  | 2.54  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR12B3  | 12B-3 | 0.750 | 19.050 | 11.68 | 12.07 | 16.00 | 1.81 | 1.81 | 5.72  | 60.9  | 2.6 | 19.46 | 86700  | 3.59  | ✓ | ✓ | - | ✓ | - | ✓ |
| AR16B3  | 16B-3 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 98.6  | 2.2 | 31.88 | 160000 | 8.15  | ✓ | ✓ | - | ✓ | ✓ | - |
| AR20B3  | 20B-3 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 113.2 | 2.7 | 36.45 | 250000 | 11.65 | ✓ | ✓ | - | ✓ | ✓ | - |
| AR24B3  | 24B-3 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 149.7 | 6.8 | 48.36 | 425000 | 22.25 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR28B3  | 28B-3 | 1.750 | 44.450 | 30.99 | 27.94 | 37.08 | 7.62 | 6.35 | 15.90 | 183.3 | 6.8 | 59.56 | 530000 | 28.00 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR32B3  | 32B-3 | 2.000 | 50.800 | 30.99 | 29.21 | 42.29 | 7.11 | 6.35 | 17.81 | 180.5 | 8.0 | 58.55 | 670000 | 30.00 | ✓ | ✓ | ✓ | - | ✓ | - |
| AR40B3  | 40B-3 | 2.500 | 63.500 | 39.30 | 39.37 | 52.96 | 8.13 | 8.13 | 22.89 | 222.8 | 9.5 | 72.29 | 950000 | 48.90 | ✓ | ✓ | ✓ | - | ✓ | - |

\* Only with straight plates \*\* Straight side plates available

# Renold A&S Roller Chain

## ANSI Standard / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |        | Connecting Links |         |        |        |        |        |        |      |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------|------------------|---------|--------|--------|--------|--------|--------|------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |      |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     | MIN    |                  |         |        |        |        |        |        | kg/m |

### ANSI Standard - Simplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|-------|---|---|---|---|---|---|---|
| AR25A1 <sup>o</sup> | 25-1  | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30  | 7.9  | 1.2 | - | 3500   | 0.12  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR35A1 <sup>o</sup> | 35-1  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 12.0 | 1.7 | - | 7900   | 0.35  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR40A1              | 40-1  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 16.4 | 2.1 | - | 13900  | 0.60  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR50A1**            | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 20.4 | 2.7 | - | 21800  | 1.00  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| AR60A1**            | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 25.3 | 2.6 | - | 31300  | 1.47  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| AR80A1              | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 32.7 | 3.0 | - | 55600  | 2.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR100A1             | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 39.7 | 4.2 | - | 87000  | 4.20  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR120A1             | 120-1 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 49.3 | 5.3 | - | 125000 | 5.70  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR140A1             | 140-1 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 52.9 | 5.2 | - | 170000 | 7.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR160A1             | 160-1 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 63.1 | 6.5 | - | 223000 | 10.40 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR200A1             | 200-1 | 2.500 | 63.500 | 37.85 | 39.67 | 60.33 | 8.13 | 8.13 | 19.85 | 76.9 | 9.0 | - | 347000 | 17.30 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

### ANSI Standard - Duplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|---|
| AR25A2 <sup>o</sup> | 25-2  | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30  | 14.2  | 1.2 | 6.40  | 7000   | 0.26  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR35A2 <sup>o</sup> | 35-2  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 22.2  | 1.7 | 10.13 | 15800  | 0.62  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR40A2              | 40-2  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 30.8  | 2.1 | 14.38 | 27800  | 1.20  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR50A2              | 50-2  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 38.4  | 2.7 | 18.11 | 43600  | 1.98  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| AR60A2              | 60-2  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 48.1  | 2.6 | 22.78 | 62600  | 2.91  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| AR80A2              | 80-2  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 61.9  | 3.0 | 29.29 | 111200 | 5.50  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR100A2             | 100-2 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 75.4  | 4.2 | 35.76 | 174000 | 8.40  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR120A2             | 120-2 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 94.7  | 5.3 | 45.44 | 250000 | 11.00 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR140A2             | 140-2 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 101.8 | 5.2 | 48.87 | 340000 | 15.50 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| AR160A2             | 160-2 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 121.6 | 6.5 | 58.55 | 446000 | 20.60 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

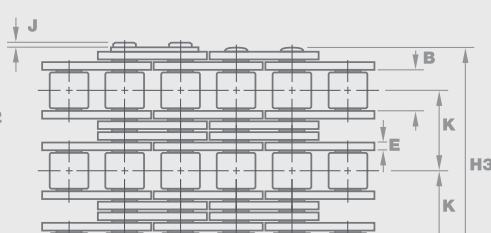
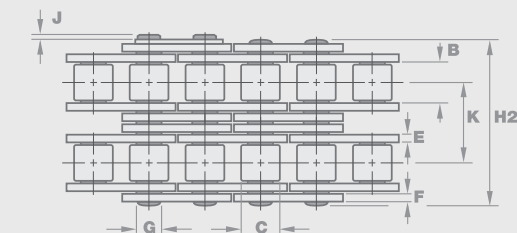
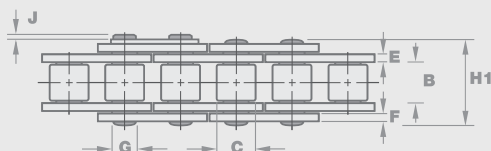
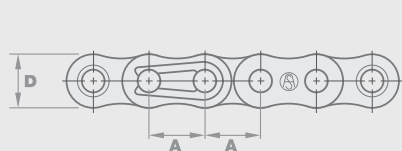
### ANSI Standard - Triplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H3    | J   | K     |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|---|
| AR25A3 <sup>o</sup> | 25-3  | 0.250 | 6.350  | 3.10  | 3.30  | 5.90  | 0.76 | 0.76 | 2.30  | 20.8  | 1.2 | 6.40  | 10500  | 0.39  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR35A3 <sup>o</sup> | 35-3  | 0.375 | 9.525  | 4.68  | 5.08  | 8.60  | 1.29 | 1.29 | 3.59  | 32.2  | 1.7 | 10.13 | 23700  | 0.93  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR40A3              | 40-3  | 0.500 | 12.700 | 7.85  | 7.92  | 11.20 | 1.55 | 1.55 | 3.97  | 45.1  | 2.1 | 14.38 | 41700  | 1.80  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| AR50A3              | 50-3  | 0.625 | 15.875 | 9.40  | 10.16 | 14.60 | 2.04 | 2.04 | 5.08  | 56.5  | 2.7 | 18.11 | 65400  | 2.96  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| AR60A3              | 60-3  | 0.750 | 19.050 | 12.57 | 11.91 | 17.50 | 2.45 | 2.45 | 5.94  | 70.9  | 2.6 | 22.78 | 93900  | 4.38  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| AR80A3              | 80-3  | 1.000 | 25.400 | 15.75 | 15.88 | 24.13 | 3.25 | 3.25 | 7.94  | 91.2  | 3.0 | 29.29 | 166800 | 8.30  | ✓ | ✓ | ✓ | - | - | ✓ | - |
| AR100A3             | 100-3 | 1.250 | 31.750 | 18.90 | 19.05 | 30.17 | 4.06 | 4.06 | 9.54  | 111.2 | 4.2 | 35.76 | 261000 | 12.60 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| AR120A3             | 120-3 | 1.500 | 38.100 | 25.23 | 22.23 | 36.20 | 4.80 | 4.80 | 11.11 | 140.2 | 5.3 | 45.44 | 375000 | 16.70 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| AR140A3             | 140-3 | 1.750 | 44.450 | 25.23 | 25.40 | 42.23 | 5.61 | 5.61 | 12.71 | 150.7 | 5.2 | 48.87 | 510000 | 23.10 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| AR160A3             | 160-3 | 2.000 | 50.800 | 31.55 | 28.58 | 48.26 | 6.35 | 6.35 | 14.29 | 180.2 | 6.5 | 58.55 | 669000 | 31.00 | ✓ | ✓ | ✓ | - | - | ✓ | - |

<sup>o</sup> Bush Chain \*\* Straight side plates available

# Renold SD Roller Chain

## European (BS) Standard / ISO 606



No. 4



No. 26



No. 107



No. 12



No. 11



No. 30

| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight | No. 4            | No. 107 | No. 11 | No. 26 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     | MIN    |                  |         |        |        |        |        |

### European (BS) Standard - Simplex

|          |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J    | K |        |       |   |   |   |   |   |   |
|----------|-------|-------|--------|-------|-------|-------|------|------|-------|------|------|---|--------|-------|---|---|---|---|---|---|
| SD05B-1  | 05B-1 | -     | 8.000  | 3.00  | 5.00  | 7.11  | 0.75 | 0.75 | 2.31  | 8.0  | 8.9  | - | 4400   | 0.20  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD06B-1* | 06B-1 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.25 | 1.00 | 3.28  | 13.2 | 14.2 | - | 8900   | 0.41  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD08B-1  | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.80 | 1.50 | 1.50 | 4.45  | 16.7 | 18.0 | - | 17800  | 0.69  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD10B-1  | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.70 | 1.65 | 1.65 | 5.08  | 19.6 | 21.0 | - | 22200  | 0.96  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD12B-1  | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.10 | 1.80 | 1.80 | 5.72  | 22.5 | 24.0 | - | 28900  | 1.22  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD16B-1  | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.05 | 4.00 | 3.20 | 8.28  | 36.0 | 37.2 | - | 60000  | 2.80  | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| SD20B-1  | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 26.30 | 4.50 | 3.50 | 10.19 | 41.1 | 44.7 | - | 95000  | 3.85  | ✓ | ✓ | - | ✓ | ✓ | - |
| SD24B-1  | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.30 | 6.00 | 5.20 | 14.63 | 53.3 | 57.5 | - | 160000 | 7.45  | ✓ | ✓ | ✓ | - | ✓ | - |
| SD28B-1  | 28B-1 | 1.750 | 44.450 | 30.99 | 27.94 | 36.90 | 7.40 | 6.40 | 15.90 | 64.8 | 69.5 | - | 200000 | 9.35  | ✓ | ✓ | ✓ | - | ✓ | - |
| SD32B-1  | 32B-1 | 2.000 | 50.800 | 30.99 | 29.21 | 42.10 | 7.10 | 6.40 | 17.81 | 66.2 | 71.0 | - | 250000 | 10.10 | ✓ | ✓ | ✓ | - | ✓ | - |

### European (BS) Standard - Duplex

|          |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J     | K     |        |       |   |   |   |   |   |   |
|----------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-------|-------|--------|-------|---|---|---|---|---|---|
| SD06B-2* | 06B-2 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.25 | 1.00 | 3.28  | 23.5  | 24.5  | 10.24 | 16900  | 0.77  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD08B-2  | 08B-2 | 0.500 | 12.700 | 7.75  | 8.51  | 11.80 | 1.50 | 1.50 | 4.45  | 31.0  | 32.1  | 13.92 | 31100  | 1.34  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD10B-2  | 10B-2 | 0.625 | 15.875 | 9.65  | 10.16 | 14.70 | 1.65 | 1.65 | 5.08  | 36.2  | 37.5  | 16.59 | 44500  | 1.84  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD12B-2  | 12B-2 | 0.750 | 19.050 | 11.68 | 12.07 | 16.10 | 1.80 | 1.80 | 5.72  | 42.1  | 43.6  | 19.46 | 57800  | 2.31  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD16B-2  | 16B-2 | 1.000 | 25.400 | 17.02 | 15.88 | 21.05 | 4.00 | 3.20 | 8.2   | 67.5  | 69.1  | 31.88 | 106000 | 5.42  | ✓ | ✓ | - | ✓ | ✓ | - |
| SD20B-2  | 20B-2 | 1.250 | 31.750 | 19.56 | 19.05 | 26.30 | 4.50 | 3.50 | 10.19 | 77.2  | 80.9  | 36.45 | 170000 | 7.20  | ✓ | ✓ | - | ✓ | ✓ | - |
| SD24B-2  | 24B-2 | 1.500 | 38.100 | 25.40 | 25.40 | 33.30 | 6.00 | 5.20 | 14.63 | 101.6 | 105.9 | 48.36 | 280000 | 13.40 | ✓ | ✓ | ✓ | - | ✓ | - |
| SD28B-2  | 28B-2 | 1.750 | 44.450 | 30.99 | 27.94 | 36.90 | 7.40 | 6.40 | 15.90 | 124.1 | 129.1 | 59.56 | 360000 | 16.60 | ✓ | ✓ | ✓ | - | ✓ | - |
| SD32B-2  | 32B-2 | 2.000 | 50.800 | 30.99 | 29.21 | 42.10 | 7.10 | 6.40 | 17.81 | 124.6 | 129.6 | 58.55 | 450000 | 21.00 | ✓ | ✓ | ✓ | - | ✓ | - |

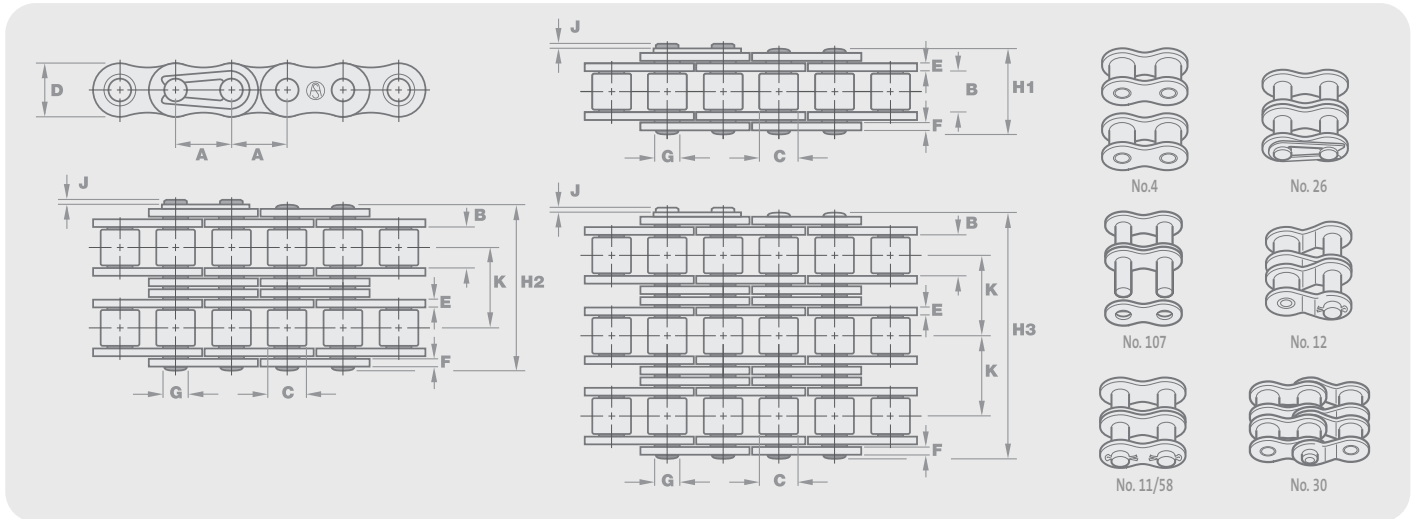
### European (BS) Standard - Triplex

|          |       | A     | A      | B     | C     | D     | E    | F    | G     | H3     | J      | K     |        |       |   |   |   |   |   |   |
|----------|-------|-------|--------|-------|-------|-------|------|------|-------|--------|--------|-------|--------|-------|---|---|---|---|---|---|
| SD06B-3* | 06B-3 | 0.375 | 9.525  | 5.72  | 6.35  | 8.20  | 1.25 | 1.04 | 3.28  | 33.80  | 33.90  | 10.24 | 24900  | 1.16  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD08B-3  | 08B-3 | 0.500 | 12.700 | 7.75  | 8.51  | 11.80 | 1.50 | 1.50 | 4.45  | 44.90  | 46.05  | 13.92 | 44500  | 2.03  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD10B-3  | 10B-3 | 0.625 | 15.875 | 9.65  | 10.16 | 14.70 | 1.65 | 1.65 | 5.08  | 52.80  | 54.10  | 16.59 | 66700  | 2.77  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD12B-3  | 12B-3 | 0.750 | 19.050 | 11.68 | 12.07 | 16.10 | 1.80 | 1.80 | 5.72  | 61.65  | 63.20  | 19.46 | 86700  | 3.46  | ✓ | ✓ | - | ✓ | - | ✓ |
| SD16B-3  | 16B-3 | 1.000 | 25.400 | 17.02 | 15.88 | 21.05 | 4.00 | 3.20 | 8.28  | 99.40  | 101.00 | 31.88 | 160000 | 8.13  | ✓ | ✓ | - | ✓ | ✓ | - |
| SD20B-3  | 20B-3 | 1.250 | 31.750 | 19.56 | 19.05 | 26.30 | 4.50 | 3.50 | 10.19 | 114.20 | 117.90 | 36.45 | 250000 | 10.82 | ✓ | ✓ | - | ✓ | ✓ | - |
| SD24B-3  | 24B-3 | 1.500 | 38.100 | 25.40 | 25.40 | 33.30 | 6.00 | 5.20 | 14.63 | 105.10 | 154.60 | 48.36 | 425000 | 20.10 | ✓ | ✓ | ✓ | - | ✓ | - |
| SD28B-3  | 28B-3 | 1.750 | 44.450 | 30.99 | 27.94 | 36.90 | 7.40 | 6.40 | 15.90 | 184.20 | 188.70 | 59.56 | 530000 | 24.92 | ✓ | ✓ | ✓ | - | ✓ | - |
| SD32B-3  | 32B-3 | 2.000 | 50.800 | 30.99 | 29.21 | 42.10 | 7.10 | 6.40 | 17.81 | 183.20 | 188.20 | 58.55 | 670000 | 31.56 | ✓ | ✓ | ✓ | - | ✓ | - |

\* Only with straight plates

# Renold SD Roller Chain

## ANSI Standard / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |             | Connecting Links |         |        |        |        |        |        |  |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|-------------|------------------|---------|--------|--------|--------|--------|--------|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m | No. 4            | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |  |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                               | MIN         |                  |         |        |        |        |        |        |  |

### ANSI Standard - Simplex

|                     |       | A     | A      | B     | C     | D     | E    | F    | G     | H1    | J     | K |        |       |   |   |   |   |   |   |   |
|---------------------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|-------|---|--------|-------|---|---|---|---|---|---|---|
| SD25-1 <sup>o</sup> | 25-1  | 0.250 | 6.350  | 3.18  | 3.30  | 5.90  | 0.75 | 0.75 | 2.31  | 7.80  | 8.45  | - | 3500   | 0.15  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| SD35-1 <sup>o</sup> | 35-1  | 0.375 | 9.525  | 4.77  | 5.08  | 8.95  | 1.20 | 1.20 | 3.58  | 12.15 | 13.10 | - | 7900   | 0.33  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| SD41-1              | 41-1  | 0.500 | 12.700 | 6.25  | 7.77  | 9.90  | 1.20 | 1.20 | 3.58  | 13.75 | 15.40 | - | 6700   | 0.41  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| SD40-1              | 40-1  | 0.500 | 12.700 | 7.85  | 7.95  | 11.90 | 1.50 | 1.50 | 3.96  | 16.60 | 17.75 | - | 13900  | 0.62  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| SD50-1              | 50-1  | 0.625 | 15.875 | 9.40  | 10.16 | 15.09 | 2.00 | 2.00 | 5.08  | 20.90 | 22.20 | - | 21800  | 1.02  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| SD60-1              | 60-1  | 0.750 | 19.050 | 12.57 | 11.91 | 18.00 | 2.40 | 2.40 | 5.94  | 25.90 | 27.50 | - | 31300  | 1.50  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| SD80-1              | 80-1  | 1.000 | 25.400 | 15.75 | 15.88 | 24.10 | 3.10 | 3.10 | 7.92  | 32.80 | 34.90 | - | 55600  | 2.60  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD100-1             | 100-1 | 1.250 | 31.750 | 18.90 | 19.05 | 30.10 | 3.90 | 3.90 | 9.53  | 40.00 | 43.20 | - | 87000  | 3.91  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD120-1             | 120-1 | 1.500 | 38.100 | 25.22 | 22.23 | 36.10 | 4.70 | 4.70 | 11.10 | 50.45 | 53.40 | - | 125000 | 5.62  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD140-1             | 140-1 | 1.750 | 44.450 | 25.22 | 25.40 | 42.00 | 5.60 | 5.60 | 12.70 | 54.20 | 59.00 | - | 170000 | 7.50  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD160-1             | 160-1 | 2.000 | 50.800 | 31.55 | 28.58 | 48.00 | 6.40 | 6.40 | 14.20 | 64.30 | 69.90 | - | 223000 | 10.10 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

### ANSI Standard - Duplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H2    | J      | K     |        |       |   |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|--------|-------|--------|-------|---|---|---|---|---|---|---|
| SD40-2  | 40-2  | 0.500 | 12.700 | 7.85  | 7.95  | 11.90 | 1.50 | 1.50 | 3.96  | 31.1  | 32.25  | 14.38 | 27800  | 1.12  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| SD50-2  | 50-2  | 0.625 | 15.875 | 9.40  | 10.16 | 15.09 | 2.00 | 2.00 | 5.08  | 39.0  | 40.30  | 18.11 | 43600  | 2.00  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| SD60-2  | 60-2  | 0.750 | 19.050 | 12.57 | 11.91 | 18.00 | 2.40 | 2.40 | 5.94  | 48.8  | 50.30  | 22.78 | 62600  | 2.92  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| SD80-2  | 80-2  | 1.000 | 25.400 | 15.75 | 15.88 | 24.10 | 3.10 | 3.10 | 7.92  | 61.9  | 64.20  | 29.29 | 111200 | 5.15  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD100-2 | 100-2 | 1.250 | 31.750 | 18.90 | 19.05 | 30.10 | 3.90 | 3.90 | 9.53  | 76.2  | 80.50  | 35.76 | 174000 | 7.80  | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD120-2 | 120-2 | 1.500 | 38.100 | 25.22 | 22.23 | 36.10 | 4.70 | 4.70 | 11.10 | 95.4  | 99.70  | 45.44 | 250000 | 11.70 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD140-2 | 140-2 | 1.750 | 44.450 | 25.22 | 25.40 | 42.00 | 5.60 | 5.60 | 12.70 | 103.1 | 107.90 | 48.87 | 340000 | 15.14 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |
| SD160-2 | 160-2 | 2.000 | 50.800 | 31.55 | 28.58 | 48.00 | 6.40 | 6.40 | 14.27 | 122.9 | 128.10 | 58.55 | 446000 | 20.14 | ✓ | ✓ | ✓ | - | ✓ | ✓ | - |

### ANSI Standard - Triplex

|         |       | A     | A      | B     | C     | D     | E    | F    | G     | H3    | J      | K     |        |       |   |   |   |   |   |   |   |
|---------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|--------|-------|--------|-------|---|---|---|---|---|---|---|
| SD40-3  | 40-3  | 0.500 | 12.700 | 7.85  | 7.95  | 11.90 | 1.50 | 1.50 | 3.96  | 45.6  | 47.00  | 14.38 | 41700  | 1.90  | ✓ | ✓ | - | ✓ | - | - | ✓ |
| SD50-3  | 50-3  | 0.625 | 15.875 | 9.40  | 10.16 | 15.09 | 2.00 | 2.00 | 5.08  | 57.4  | 59.10  | 18.11 | 65400  | 3.09  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| SD60-3  | 60-3  | 0.750 | 19.050 | 12.57 | 11.91 | 18.00 | 2.40 | 2.40 | 5.94  | 71.5  | 73.20  | 22.78 | 93900  | 4.54  | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| SD80-3  | 80-3  | 1.000 | 25.400 | 15.75 | 15.88 | 24.10 | 3.10 | 3.10 | 7.92  | 91.6  | 93.30  | 29.29 | 166800 | 7.89  | ✓ | ✓ | ✓ | - | - | ✓ | ✓ |
| SD100-3 | 100-3 | 1.250 | 31.750 | 18.90 | 19.05 | 30.10 | 3.90 | 3.90 | 9.53  | 111.6 | 116.30 | 35.76 | 261000 | 11.77 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| SD120-3 | 120-3 | 1.500 | 38.100 | 25.22 | 22.23 | 36.10 | 4.70 | 4.70 | 11.10 | 141.0 | 145.20 | 45.44 | 375000 | 17.53 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| SD140-3 | 140-3 | 1.750 | 44.450 | 25.22 | 25.40 | 42.00 | 5.60 | 5.60 | 12.70 | 151.8 | 156.80 | 48.87 | 510000 | 22.20 | ✓ | ✓ | ✓ | - | - | ✓ | - |
| SD160-3 | 160-3 | 2.000 | 50.800 | 31.55 | 28.58 | 48.00 | 6.40 | 6.40 | 14.20 | 181.4 | 186.60 | 58.55 | 669000 | 30.02 | ✓ | ✓ | ✓ | - | - | ✓ | - |

<sup>o</sup> Bush Chain

# Renold ANSI Xtra Chain

## RENOLD ANSI XTRA...

**Xtra** shock resistant pins

**Xtra** round components  
with seamless roller/bush



Shock resistant



Fatigue resistant



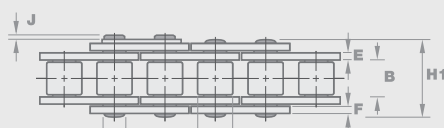
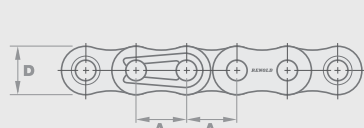
High loads

**Xtra** finish shot  
peening ball drifting

**Xtra** security  
interference fits

**Xtra** thick plates  
resists heavy loads

## ... THE HEAVY DUTY CHAIN



No. 4



No. 11/58



No. 107



No. 26

### Product description

RENOLD ANSI XTRA chain incorporates the usual Renold performance enhancing features including seamless bushes, ball drifted plate holes, shot peening and optimum interference fits. The extra features incorporated into this range of chain is classified by:

- Thicker side plates denoted by 'H'. These plates are approximately 20% thicker than standard ANSI chain
- Through hardened pins, denoted by 'V'

The gearing dimensions of ANSI XTRA chain are identical to our standard ANSI simplex

range and will therefore run on standard sprockets. The larger transverse pitch of duplex and triplex chains with heavy duty side plates (H or HV range) require special sprockets.

The range can therefore be summarised as follows:

**H Range** - Identical to standard ANSI chain with the exception of the overall width. Thicker plates give this chain excellent resistance to heavy loads and help absorb shock. Duplex and triplex chain must have sprockets with an increased transverse pitch of the teeth.

**V Range** - Identical dimensions to standard ANSI chain but with a higher breaking load and excellent resistance to shock loads.

**HV Range** - A combination of the 'H' and 'V' chain, giving excellent resistance to both heavy and shock loads.

A further enhancement to the chain life can be achieved by hardening the sprocket teeth of the drive. 'H' and 'HV' chains are designed for improved fatigue life, therefore offset and slip fit joints which have a lower fatigue resistance are not recommended.

Shown below is an easy to use features guide to help in selecting chain to suit its application.

| Chain Type                                                     | Strength                               | Wear                                   | Heavy Loads                            | Shock Loads                            | High Speeds                                       |
|----------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------------------|
| Standard ANSI<br>XTRA H Range<br>XTRA V Range<br>XTRA HV Range | Good<br>Good<br>Excellent<br>Excellent | Excellent<br>Excellent<br>Good<br>Good | Good<br>Excellent<br>Good<br>Excellent | Good<br>Good<br>Excellent<br>Excellent | Excellent<br>Not Suitable<br>Good<br>Not Suitable |

# Renold ANSI Xtra Chain

ANSI XTRA roller chain is specifically designed and manufactured for arduous applications where frequent, impulsive or heavy loads are involved, or where operating conditions are

severe as in the mining, quarrying, rock drilling, forestry and construction industries. This chain is interchangeable with our standard ANSI range and can be used to upgrade the

performance of existing applications subject to normal design and installation checks.

Multiplex versions are also available on request.

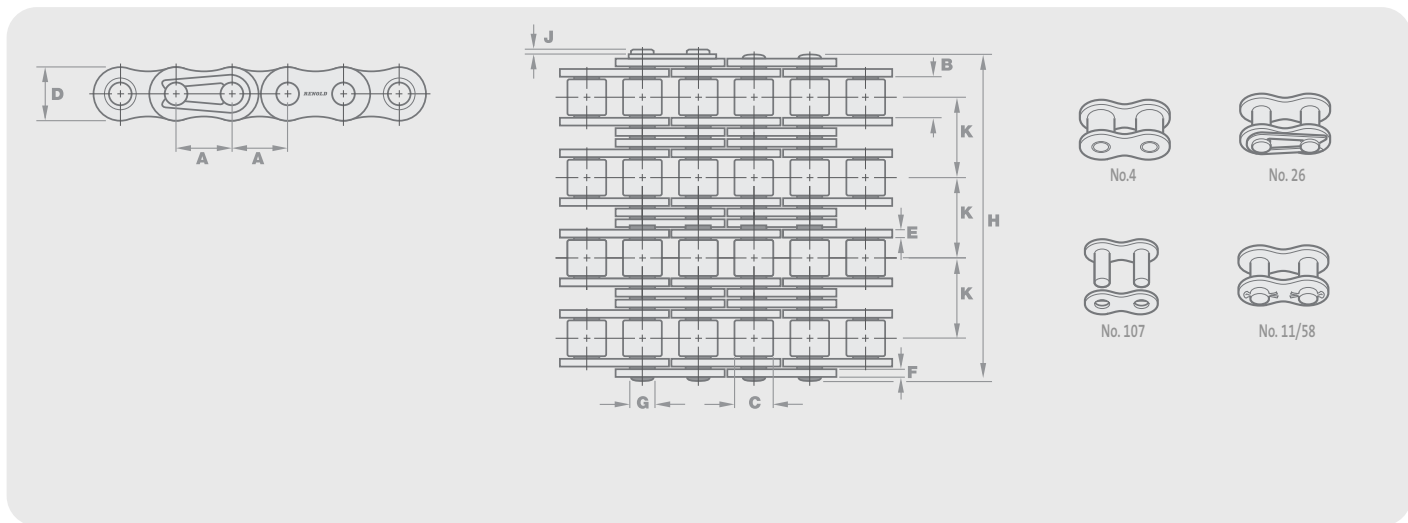
| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   |        | Connecting Links |         |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|--------|------------------|---------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight | No. 4            | No. 107 | No. 11 | No. 58 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                               | MIN    |                  |         |        |        |

## ANSI Xtra - simple and multiplex

|          |         | A     | A      | B      | C      | D      | E     | F     | G      | H1      | J      | K      |         |        |   |   |   |   |
|----------|---------|-------|--------|--------|--------|--------|-------|-------|--------|---------|--------|--------|---------|--------|---|---|---|---|
| 60HR     | 60H-1   | 0.750 | 19.050 | 12.570 | 11.910 | 17.500 | 3.170 | 3.170 | 5.940  | 28.600  | 4.600  | -      | 31300   | 1.800  | ✓ | ✓ | - | ✓ |
| 60H-2R   | 60H-2   | 0.750 | 19.050 | 12.570 | 11.910 | 17.500 | 3.170 | 3.170 | 5.940  | 57.000  | 4.600  | 26.110 | 62600   | 3.600  | ✓ | ✓ | - | ✓ |
| 60H-3R   | 60H-3   | 0.750 | 19.050 | 12.570 | 11.910 | 17.500 | 3.170 | 3.170 | 5.940  | 83.100  | 4.600  | 26.110 | 93900   | 5.400  | ✓ | ✓ | - | ✓ |
| 60HVR    | 60HV-1  | 0.750 | 19.050 | 12.570 | 11.910 | 17.500 | 3.170 | 3.170 | 5.940  | 28.600  | 4.600  | -      | 55000   | 1.800  | ✓ | ✓ | - | ✓ |
| 60HV-2R  | 60HV-2  | 0.750 | 19.050 | 12.570 | 11.910 | 17.500 | 3.170 | 3.170 | 5.940  | 57.000  | 4.600  | 26.110 | 110000  | 3.500  | ✓ | ✓ | - | ✓ |
| 60HV-3R  | 60HV-3  | 0.750 | 19.050 | 12.570 | 11.910 | 17.500 | 3.170 | 3.170 | 5.940  | 83.100  | 4.600  | 26.110 | 165000  | 5.300  | ✓ | ✓ | - | ✓ |
| 80HR     | 80H-1   | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 4.060 | 4.060 | 7.940  | 37.000  | 5.400  | -      | 55600   | 3.300  | ✓ | ✓ | - | ✓ |
| 80H-2R   | 80H-2   | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 4.060 | 4.060 | 7.940  | 68.700  | 5.400  | 32.590 | 112200  | 6.600  | ✓ | ✓ | - | ✓ |
| 80H-3R   | 80H-3   | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 4.060 | 4.060 | 7.940  | 101.300 | 5.400  | 32.590 | 166800  | 9.900  | ✓ | ✓ | - | ✓ |
| 80VR     | 80V-1   | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 3.250 | 3.250 | 7.940  | 33.500  | 5.400  | -      | 75000   | 2.800  | ✓ | ✓ | ✓ | ✓ |
| 80V-2R   | 80V-2   | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 3.250 | 3.250 | 7.940  | 62.700  | 5.400  | 29.290 | 150000  | 5.500  | ✓ | ✓ | ✓ | ✓ |
| 80V-3R   | 80V-3   | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 3.250 | 3.250 | 7.940  | 91.900  | 5.400  | 29.290 | 225000  | 8.300  | ✓ | ✓ | ✓ | ✓ |
| 80HVR    | 80HV-1  | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 4.060 | 4.060 | 7.940  | 37.000  | 5.400  | -      | 87000   | 3.300  | ✓ | ✓ | - | ✓ |
| 80HV-2R  | 80HV-2  | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 4.060 | 4.060 | 7.940  | 69.000  | 5.400  | 32.590 | 174000  | 6.600  | ✓ | ✓ | - | ✓ |
| 80HV-3R  | 80HV-3  | 1.000 | 25.400 | 15.750 | 15.880 | 24.050 | 4.060 | 4.060 | 7.940  | 102.000 | 5.400  | 32.590 | 261000  | 9.900  | ✓ | ✓ | - | ✓ |
| 100HR    | 100H-1  | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.800 | 4.800 | 9.540  | 44.100  | 6.100  | -      | 87000   | 4.800  | ✓ | ✓ | - | ✓ |
| 100H-2R  | 100H-2  | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.800 | 4.800 | 9.540  | 83.200  | 6.100  | 39.090 | 174000  | 10.300 | ✓ | ✓ | - | ✓ |
| 100H-3R  | 100H-3  | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.800 | 4.800 | 9.540  | 122.300 | 6.100  | 39.090 | 261000  | 15.500 | ✓ | ✓ | ✓ | ✓ |
| 100VR    | 100V-1  | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.060 | 4.060 | 9.540  | 41.100  | 6.100  | -      | 122000  | 4.200  | ✓ | ✓ | ✓ | ✓ |
| 100HVR   | 100HV-1 | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.800 | 4.800 | 9.540  | 44.100  | 6.100  | -      | 133450  | 4.800  | ✓ | ✓ | - | ✓ |
| 100HV-2R | 100HV-2 | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.800 | 4.800 | 9.540  | 83.200  | 6.100  | 39.090 | 266900  | 10.300 | ✓ | ✓ | - | ✓ |
| 100HV-3R | 100HV-3 | 1.250 | 31.750 | 18.900 | 19.050 | 29.970 | 4.800 | 4.800 | 9.540  | 122.300 | 6.100  | 39.090 | 400350  | 15.450 | ✓ | ✓ | - | ✓ |
| 120HR    | 120H-1  | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 5.610 | 5.610 | 11.110 | 52.5300 | 6.600  | -      | 125000  | 6.300  | ✓ | ✓ | - | ✓ |
| 120H-2R  | 120H-2  | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 5.610 | 5.610 | 11.110 | 105.000 | 6.600  | 48.870 | 250000  | 12.600 | ✓ | ✓ | - | ✓ |
| 120H-3R  | 120H-3  | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 5.610 | 5.610 | 11.110 | 158.000 | 6.600  | 48.870 | 375000  | 18.800 | ✓ | ✓ | - | ✓ |
| 120VR    | 120V-1  | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 4.800 | 4.800 | 11.110 | 50.800  | 6.600  | -      | 169000  | 5.700  | ✓ | ✓ | ✓ | ✓ |
| 120V-2R  | 120V-2  | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 4.800 | 4.800 | 11.110 | 96.300  | 6.600  | 45.440 | 338000  | 11.000 | ✓ | ✓ | ✓ | ✓ |
| 120V-3R  | 120V-3  | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 4.800 | 4.800 | 11.110 | 141.700 | 6.600  | 45.440 | 507000  | 16.700 | ✓ | ✓ | ✓ | ✓ |
| 120HVR   | 120HV-1 | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 5.610 | 5.610 | 11.110 | 52.500  | 6.600  | -      | 182400  | 6.300  | ✓ | ✓ | - | ✓ |
| 120HV-2R | 120HV-2 | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 5.610 | 5.610 | 11.110 | 52.500  | 6.600  | 48.870 | 364800  | 6.300  | ✓ | ✓ | - | ✓ |
| 120HV-3R | 120HV-3 | 1.500 | 38.100 | 25.230 | 22.230 | 35.890 | 5.610 | 5.610 | 11.110 | 158.000 | 6.600  | 48.870 | 400350  | 18.800 | ✓ | ✓ | - | ✓ |
| 140HR    | 140H-1  | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 6.350 | 6.350 | 12.710 | 57.900  | 7.400  | -      | 170000  | 8.600  | ✓ | ✓ | - | ✓ |
| 140H-2R  | 140H-2  | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 6.350 | 6.350 | 12.710 | 106.900 | 7.400  | 52.200 | 340000  | 16.700 | ✓ | ✓ | - | ✓ |
| 140H-3R  | 140H-3  | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 6.350 | 6.350 | 12.710 | 160.400 | 7.400  | 52.200 | 510000  | 25.100 | ✓ | ✓ | - | ✓ |
| 140VR    | 140V-1  | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 5.610 | 5.610 | 12.710 | 54.900  | 7.400  | -      | 235000  | 7.800  | ✓ | ✓ | ✓ | ✓ |
| 140V-2R  | 140V-2  | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 5.610 | 5.610 | 12.710 | 103.600 | 7.400  | 48.870 | 470000  | 15.500 | ✓ | ✓ | ✓ | ✓ |
| 140V-3R  | 140V-3  | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 5.610 | 5.610 | 12.710 | 152.400 | 7.400  | 48.870 | 705000  | 23.100 | ✓ | ✓ | ✓ | ✓ |
| 140HVR   | 140HV-1 | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 6.350 | 6.350 | 12.710 | 57.900  | 7.400  | -      | 258000  | 8.600  | ✓ | ✓ | - | ✓ |
| 140HV-2R | 140HV-2 | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 6.350 | 6.350 | 12.710 | 106.900 | 7.400  | 52.200 | 516000  | 16.740 | ✓ | ✓ | - | ✓ |
| 140HV-3R | 140HV-3 | 1.750 | 44.450 | 25.230 | 25.400 | 41.810 | 6.350 | 6.350 | 12.710 | 160.400 | 7.400  | 52.200 | 774000  | 25.100 | ✓ | ✓ | - | ✓ |
| 160HR    | 160H-1  | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 7.110 | 7.110 | 14.290 | 68.500  | 7.900  | -      | 223000  | 11.200 | ✓ | ✓ | - | ✓ |
| 160H-2R  | 160H-2  | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 7.110 | 7.110 | 14.290 | 130.400 | 7.900  | 61.900 | 446000  | 23.500 | ✓ | ✓ | - | ✓ |
| 160H-3R  | 160H-3  | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 7.110 | 7.110 | 14.290 | 182.900 | 7.900  | 61.900 | 669000  | 35.200 | ✓ | ✓ | - | ✓ |
| 160VR    | 160V-1  | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 6.350 | 6.350 | 14.290 | 65.500  | 7.900  | -      | 289000  | 10.400 | ✓ | ✓ | ✓ | ✓ |
| 160HVR   | 160HV-1 | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 7.110 | 7.110 | 14.290 | 68.500  | 7.900  | -      | 311400  | 11.200 | ✓ | ✓ | - | ✓ |
| 160HV-2R | 160HV-2 | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 7.110 | 7.110 | 14.290 | 130.400 | 7.900  | 61.900 | 622800  | 23.500 | ✓ | ✓ | - | ✓ |
| 160HV-3R | 160HV-3 | 2.000 | 50.800 | 31.550 | 28.580 | 47.730 | 7.110 | 7.110 | 14.290 | 182.900 | 7.900  | 61.900 | 934250  | 35.200 | ✓ | ✓ | - | ✓ |
| 180HR    | 180H-1  | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 8.130 | 8.130 | 17.460 | 73.900  | 9.100  | -      | 281000  | 15.200 | ✓ | ✓ | - | ✓ |
| 180H-2R  | 180H-2  | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 8.130 | 8.130 | 17.460 | 140.800 | 9.100  | 65.840 | 562000  | 30.400 | ✓ | ✓ | - | ✓ |
| 180H-3R  | 180H-3  | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 8.130 | 8.130 | 17.460 | 206.000 | 9.100  | 65.840 | 843000  | 45.600 | ✓ | ✓ | - | ✓ |
| 180VR    | 180V-1  | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 7.110 | 7.110 | 17.460 | 73.900  | 9.100  | -      | 382500  | 13.940 | ✓ | ✓ | ✓ | ✓ |
| 180HVR   | 180HV-1 | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 8.130 | 8.130 | 17.460 | 73.900  | 9.100  | -      | 422500  | 15.200 | ✓ | ✓ | - | ✓ |
| 180HV-2R | 180HV-2 | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 8.130 | 8.130 | 17.460 | 140.800 | 9.100  | 65.840 | 845000  | 30.400 | ✓ | ✓ | - | ✓ |
| 180HV-3R | 180HV-3 | 2.250 | 57.150 | 35.480 | 35.710 | 53.510 | 8.130 | 8.130 | 17.460 | 206.000 | 9.100  | 65.840 | 1267500 | 45.600 | ✓ | ✓ | - | ✓ |
| 200HR    | 200H-1  | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 9.650 | 9.650 | 19.850 | 86.400  | 10.200 | -      | 347000  | 19.500 | ✓ | ✓ | - | ✓ |
| 200H-2R  | 200H-2  | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 9.650 | 9.650 | 19.850 | 164.700 | 10.200 | 78.310 | 694000  | 39.000 | ✓ | ✓ | - | ✓ |
| 200H-3R  | 200H-3  | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 9.650 | 9.650 | 19.850 | 243.000 | 10.200 | 78.310 | 1041000 | 57.700 | ✓ | ✓ | - | ✓ |
| 200VR    | 200V-1  | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 8.130 | 8.130 | 19.850 | 80.300  | 10.200 | -      | 445000  | 17.300 | ✓ | ✓ | ✓ | ✓ |
| 200HVR   | 200HV-1 | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 9.650 | 9.650 | 19.850 | 86.400  | 10.200 | -      | 600500  | 19.500 | ✓ | ✓ | - | ✓ |
| 200HV-2R | 200HV-2 | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 9.650 | 9.650 | 19.850 | 164.700 | 10.200 | 78.310 | 1201000 | 39.000 | ✓ | ✓ | - | ✓ |
| 200HV-3R | 200HV-3 | 2.500 | 63.500 | 37.850 | 39.670 | 59.560 | 9.650 | 9.650 | 19.850 | 243.000 | 10.200 | 78.310 | 1801500 | 57.700 | ✓ | ✓ | - | ✓ |
| 240HR    | 240     |       |        |        |        |        |       |       |        |         |        |        |         |        |   |   |   |   |

# Renold Multiplex

## ANSI Standard



| Chain Ref.       |          |          | Technical Details (mm) |            |              |              |                    |                   |             |           |            |                      |                  |                         |        | Connecting Links |         |           |        |
|------------------|----------|----------|------------------------|------------|--------------|--------------|--------------------|-------------------|-------------|-----------|------------|----------------------|------------------|-------------------------|--------|------------------|---------|-----------|--------|
| Renold Chain No. | ISO Ref. | ANSI No. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height Inner | Plate Width Outer | Plate Width | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight | No. 4            | No. 107 | No. 11/58 | No. 26 |
|                  |          |          |                        |            | MIN          | MAX          | MAX                | MAX               | MAX         | MAX       | MAX        | MAX                  | NOM              | MIN                     | kg/m   |                  |         |           |        |

### ANSI Standard - Multiplex

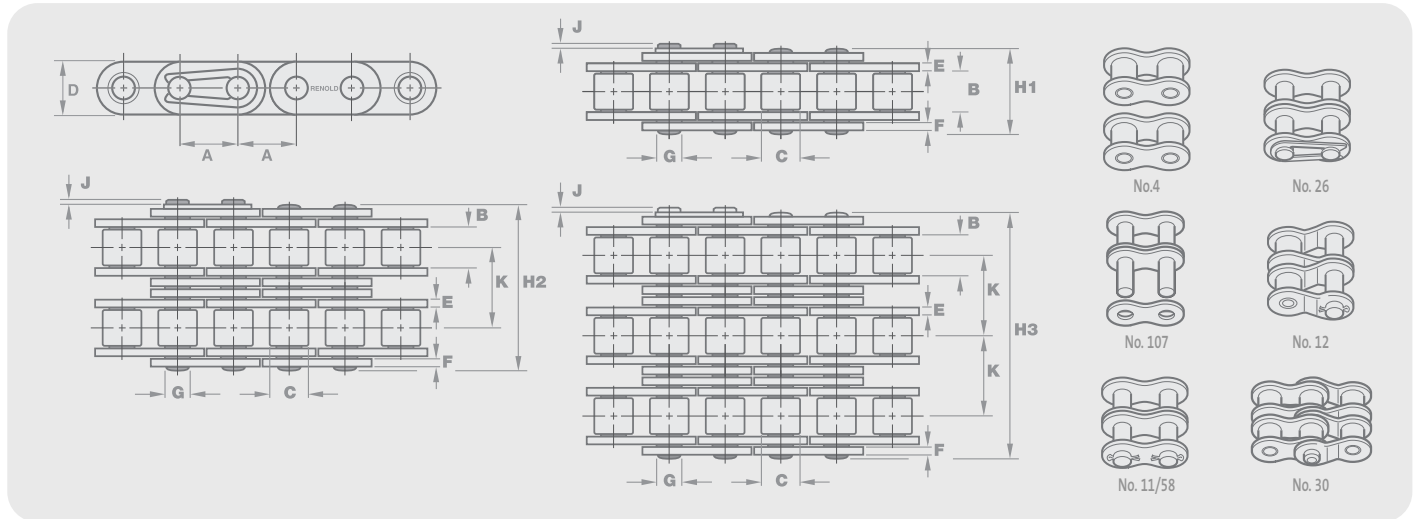
|        |       |       | A     | A      | B     | C     | D     | E    | F    | G     | H1    | J    | K     |         |       |   |   |   |   |
|--------|-------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|------|-------|---------|-------|---|---|---|---|
| 40-4R  | 08A-4 | 40-4  | 0.500 | 12.700 | 7.85  | 7.92  | 11.15 | 1.55 | 1.55 | 3.98  | 59.7  | 3.9  | 14.38 | 67600   | 2.50  | ✓ | ✓ | ✓ | ✓ |
| 50-4R  | 10A-4 | 50-4  | 0.625 | 15.875 | 9.40  | 10.16 | 14.55 | 2.03 | 2.03 | 5.07  | 75.2  | 4.1  | 18.11 | 111200  | 4.20  | ✓ | ✓ | ✓ | - |
| 50-5R  | 10A-5 | 50-5  | 0.625 | 15.875 | 9.40  | 10.16 | 14.55 | 2.03 | 2.03 | 5.07  | 93.3  | 4.1  | 18.11 | 139000  | 5.25  | ✓ | ✓ | ✓ | - |
| 50-6R  | 10A-6 | 50-6  | 0.625 | 15.875 | 9.40  | 10.16 | 14.55 | 2.03 | 2.03 | 5.07  | 111.3 | 4.1  | 18.11 | 166800  | 6.30  | ✓ | ✓ | ✓ | - |
| 60-4R  | 12A-4 | 60-4  | 0.750 | 19.050 | 12.57 | 11.91 | 17.45 | 2.39 | 2.39 | 5.96  | 94.3  | 4.6  | 22.78 | 151250  | 6.20  | ✓ | ✓ | ✓ | - |
| 60-5R  | 12A-5 | 60-5  | 0.750 | 19.050 | 12.57 | 11.91 | 17.45 | 2.39 | 2.39 | 5.96  | 116.9 | 4.6  | 22.78 | 190000  | 7.75  | ✓ | ✓ | ✓ | - |
| 60-6R  | 12A-6 | 60-6  | 0.750 | 19.050 | 12.57 | 11.91 | 17.45 | 2.39 | 2.39 | 5.96  | 139.7 | 4.6  | 22.78 | 226800  | 9.30  | ✓ | ✓ | ✓ | - |
| 80-4R  | 16A-4 | 80-4  | 1.000 | 25.400 | 15.38 | 15.75 | 24.05 | 3.25 | 3.25 | 7.93  | 120.7 | 5.4  | 29.29 | 258000  | 11.20 | ✓ | ✓ | ✓ | - |
| 80-5R  | 16A-5 | 80-5  | 1.000 | 25.400 | 15.38 | 15.75 | 24.05 | 3.25 | 3.25 | 7.93  | 149.9 | 5.4  | 29.29 | 322500  | 14.00 | ✓ | ✓ | ✓ | - |
| 80-6R  | 16A-6 | 80-6  | 1.000 | 25.400 | 15.38 | 15.75 | 24.05 | 3.25 | 3.25 | 7.93  | 179.4 | 5.4  | 29.29 | 387000  | 16.80 | ✓ | ✓ | ✓ | - |
| 80-8R  | 16A-8 | 80-8  | 1.000 | 25.400 | 15.38 | 15.75 | 24.05 | 3.25 | 3.25 | 7.93  | 237.8 | 5.4  | 29.29 | 516000  | 22.40 | ✓ | ✓ | ✓ | - |
| 100-4R | 20A-4 | 100-4 | 1.250 | 31.750 | 19.05 | 19.05 | 29.97 | 4.06 | 4.06 | 9.54  | 147.1 | 6.1  | 35.76 | 418150  | 16.80 | ✓ | ✓ | ✓ | - |
| 100-5R | 20A-5 | 100-5 | 1.250 | 31.750 | 19.05 | 19.05 | 29.97 | 4.06 | 4.06 | 9.54  | 182.9 | 6.1  | 35.76 | 522600  | 21.00 | ✓ | ✓ | ✓ | - |
| 100-6R | 20A-6 | 100-6 | 1.250 | 31.750 | 19.05 | 19.05 | 29.97 | 4.06 | 4.06 | 9.54  | 218.7 | 6.1  | 35.76 | 627200  | 25.20 | ✓ | ✓ | ✓ | - |
| 120-4R | 24A-4 | 120-4 | 1.500 | 38.100 | 25.68 | 22.23 | 35.89 | 4.80 | 4.80 | 11.11 | 185.7 | 6.6  | 45.44 | 570000  | 22.92 | ✓ | ✓ | ✓ | - |
| 120-5R | 24A-5 | 120-5 | 1.500 | 38.100 | 25.68 | 22.23 | 35.89 | 4.80 | 4.80 | 11.11 | 231.2 | 6.6  | 45.44 | 711700  | 27.96 | ✓ | ✓ | ✓ | - |
| 120-6R | 24A-6 | 120-6 | 1.500 | 38.100 | 25.68 | 22.23 | 35.89 | 4.80 | 4.80 | 11.11 | 276.6 | 6.6  | 45.44 | 854000  | 33.50 | ✓ | ✓ | ✓ | - |
| 120-8R | 24A-8 | 120-8 | 1.500 | 38.100 | 25.68 | 22.23 | 35.89 | 4.80 | 4.80 | 11.11 | 367.6 | 6.6  | 45.44 | 1138000 | 44.65 | ✓ | ✓ | ✓ | - |
| 140-4R | 28A-4 | 140-4 | 1.750 | 44.450 | 25.73 | 25.40 | 41.81 | 5.61 | 5.61 | 12.64 | 199.7 | 7.4  | 48.87 | 765000  | 30.21 | ✓ | ✓ | ✓ | - |
| 140-5R | 28A-5 | 140-5 | 1.750 | 44.450 | 25.73 | 25.40 | 41.81 | 5.61 | 5.61 | 12.64 | 248.4 | 7.4  | 48.87 | 956400  | 37.72 | ✓ | ✓ | ✓ | - |
| 140-6R | 28A-6 | 140-6 | 1.750 | 44.450 | 25.73 | 25.40 | 41.81 | 5.61 | 5.61 | 12.64 | 297.5 | 7.4  | 48.87 | 1147680 | 45.24 | ✓ | ✓ | ✓ | - |
| 160-4R | 32A-4 | 160-4 | 2.000 | 50.800 | 32.13 | 28.58 | 47.73 | 6.35 | 6.35 | 14.29 | 238.8 | 7.9  | 58.55 | 978600  | 38.90 | ✓ | ✓ | ✓ | - |
| 200-4R | 40A-4 | 200-4 | 2.500 | 63.500 | 38.15 | 39.67 | 59.56 | 8.13 | 8.13 | 19.81 | 291.6 | 10.2 | 71.55 | 1690000 | 68.24 | ✓ | ✓ | ✓ | - |

Connecting links

Note: No.12 Crank links - please consult Renold.

# Straight Side Plate

## ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                                   | Connecting Links |       |         |        |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-----------------------------------|------------------|-------|---------|--------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) | Weight kg/m      | No. 4 | No. 107 | No. 11 | No. 26 | No. 58 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | NOM              | MIN                               |                  |       |         |        |        |        |        |        |

### Simplex

|        |       | A     | A     | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |       |   |   |   |   |   |   |   |
|--------|-------|-------|-------|-------|-------|-------|------|------|-------|------|-----|---|--------|-------|---|---|---|---|---|---|---|
| 110047 | 08B-1 | 0.500 | 12.70 | 7.75  | 8.51  | 11.81 | 1.55 | 1.55 | 4.45  | 17.0 | 3.9 | - | 17800  | 0.70  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 110057 | 10B-1 | 0.625 | 15.88 | 9.65  | 10.16 | 14.70 | 1.55 | 1.55 | 5.08  | 19.6 | 4.1 | - | 22200  | 0.92  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 110067 | 12B-1 | 0.750 | 19.05 | 11.68 | 12.07 | 15.93 | 1.80 | 1.80 | 5.72  | 22.7 | 4.6 | - | 28900  | 1.20  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 110080 | 16B-1 | 1.000 | 25.40 | 17.02 | 15.88 | 24.06 | 4.12 | 3.10 | 8.28  | 36.1 | 5.4 | - | 60000  | 3.45  | ✓ | ✓ | - | ✓ | - | - | - |
| 110120 | 24B-1 | 1.500 | 38.10 | 25.40 | 25.40 | 35.75 | 6.10 | 5.08 | 14.63 | 53.4 | 6.6 | - | 160000 | 7.45  | ✓ | ✓ | - | ✓ | - | - | - |
| 110140 | 28B-1 | 1.750 | 44.45 | 30.99 | 27.94 | 41.68 | 7.62 | 6.35 | 15.90 | 65.1 | 7.4 | - | 200000 | 9.35  | ✓ | ✓ | - | ✓ | - | - | - |
| 110160 | 32B-1 | 2.000 | 50.80 | 30.99 | 29.21 | 47.60 | 7.11 | 6.35 | 17.81 | 67.4 | 7.9 | - | 250000 | 10.10 | ✓ | ✓ | - | ✓ | - | - | - |

### Duplex

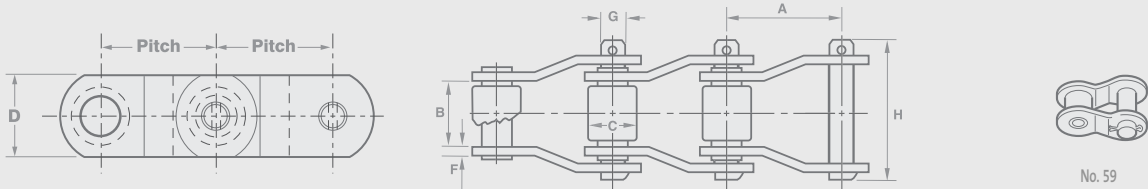
|        |       | A     | A     | B     | C     | D     | E    | F    | G     | H2    | J   | K     |        |       |   |   |   |   |   |   |   |
|--------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-----|-------|--------|-------|---|---|---|---|---|---|---|
| 114047 | 08B-2 | 0.500 | 12.70 | 7.75  | 8.51  | 11.81 | 1.55 | 1.55 | 4.45  | 31.0  | 3.9 | 13.92 | 31000  | 1.38  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 114057 | 10B-2 | 0.625 | 15.88 | 9.65  | 10.16 | 14.70 | 1.55 | 1.55 | 5.08  | 36.2  | 4.1 | 16.59 | 44500  | 1.80  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 114067 | 12B-2 | 0.750 | 19.05 | 11.68 | 12.07 | 15.93 | 1.80 | 1.80 | 5.72  | 42.2  | 4.6 | 19.46 | 57800  | 2.40  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 114080 | 16B-2 | 1.000 | 25.40 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 68.0  | 5.4 | 31.88 | 106000 | 5.50  | ✓ | ✓ | - | ✓ | - | - | - |
| 114120 | 24B-2 | 1.500 | 38.10 | 25.40 | 25.40 | 35.75 | 6.10 | 5.08 | 14.63 | 101.8 | 6.6 | 48.36 | 280000 | 14.80 | ✓ | ✓ | - | ✓ | - | - | - |

### Triplex

|        |       | A     | A     | B     | C     | D     | E    | F    | G    | H3   | J   | K     |        |       |   |   |   |   |   |   |   |
|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|-------|--------|-------|---|---|---|---|---|---|---|
| 116048 | 08B-3 | 0.500 | 12.70 | 7.75  | 8.51  | 11.81 | 1.55 | 1.55 | 4.45 | 44.9 | 3.9 | 13.92 | 445000 | 2.06  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 116080 | 16B-3 | 1.000 | 25.40 | 17.02 | 15.88 | 24.06 | 4.12 | 3.10 | 8.28 | 99.9 | 5.4 | 31.88 | 160000 | 10.12 | ✓ | ✓ | - | ✓ | - | - | - |

# Cranked Link Chain

## European (BS) Standard



| Chain Ref.       |         | Technical Details (mm) |            |              |              |              |             |           |            |                  |        | Conn Link |
|------------------|---------|------------------------|------------|--------------|--------------|--------------|-------------|-----------|------------|------------------|--------|-----------|
| Renold Chain No. | API No. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width | Pin Diam. | Pin Length | Tensile Strength | Weight | No.       |
|                  |         |                        |            | MIN          | MAX          | MAX          | MAX         | MAX       | MAX        | (Newtons) MIN    | kg/m   |           |

Cranked Link Chain

|        |      | A     | A       | B      | C      | D      | F      | G      | H       |         |        |   |
|--------|------|-------|---------|--------|--------|--------|--------|--------|---------|---------|--------|---|
| 181046 | -    | 3.067 | 77.900  | 39.850 | 41.400 | 46.630 | 10.920 | 18.550 | 104.390 | 409000  | 18.300 | ✓ |
| 187050 | API3 | 3.075 | 78.100  | 38.280 | 31.800 | 40.160 | 9.780  | 16.540 | 96.770  | 320285  | 12.500 | ✓ |
| 184051 | API4 | 4.063 | 103.200 | 49.380 | 44.500 | 58.290 | 12.950 | 22.340 | 127.510 | 667260  | 23.900 | ✓ |
| 180847 | -    | 5.000 | 127.000 | 70.030 | 63.500 | 88.900 | 16.130 | 31.760 | 161.290 | 1380000 | 52.000 | ✓ |

| Chain Ref.       |              | Technical Details (mm) |              |             |              |           |            |                  |        |
|------------------|--------------|------------------------|--------------|-------------|--------------|-----------|------------|------------------|--------|
| Renold Chain No. | Pitch (inch) | Pitch (mm)             | Roller Diam. | Plate Width | Plate Height | Pin Diam. | Pin Length | Tensile Strength | Weight |
|                  |              |                        | MAX          | MAX         | MAX          | MAX       | MAX        | (Newtons)<br>MIN | kg/m   |

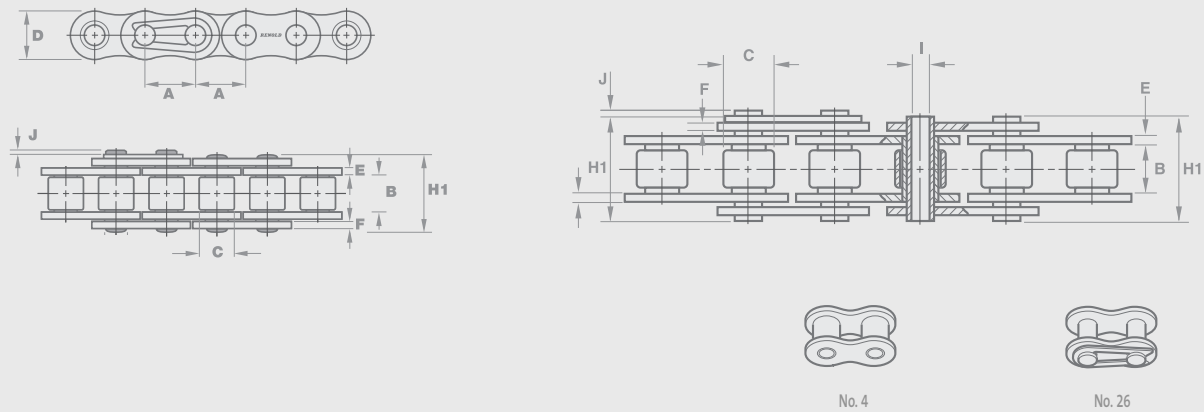
Cranked Link Chain

|         | A     | A       | C      | F      |         | G      | H       |        |        |
|---------|-------|---------|--------|--------|---------|--------|---------|--------|--------|
| IS2065  | 2.000 | 50.800  | 28.575 | 7.938  | 39.243  | 15.062 | 73.819  | 14,612 | 11.307 |
| JS882   | 2.609 | 52.553  | 22.225 | 6.350  | 28.575  | 11.113 | 62.706  | 5,845  | 5.356  |
| JS1031  | 3.075 | 78.105  | 31.750 | 7.938  | 38.100  | 15.875 | 83.344  | 10,790 | 10.861 |
| JS3075  | 3.075 | 78.105  | 31.750 | 9.525  | 42.863  | 16.434 | 89.694  | 16,860 | 13.390 |
| JS3011  | 3.067 | 77.902  | 41.275 | 9.525  | 57.150  | 19.050 | 89.694  | 24,728 | 19.490 |
| JS3514  | 3.500 | 88.900  | 44.450 | 12.700 | 57.150  | 22.250 | 102.394 | 31,472 | 25.739 |
| JS4014  | 4.063 | 103.200 | 44.450 | 12.700 | 57.150  | 22.250 | 111.919 | 31,472 | 22.912 |
| JS4106  | 4.063 | 103.200 | 44.450 | 12.700 | 57.150  | 22.250 | 111.919 | 15,736 | 23.207 |
| JS1245A | 4.073 | 103.454 | 45.244 | 14.288 | 60.325  | 23.800 | 121.444 | 38,216 | 27.822 |
| IS4121  | 4.090 | 103.886 | 47.625 | 14.288 | 69.850  | 25.349 | 118.269 | 47,208 | 35.707 |
| IS4522  | 4.500 | 114.300 | 57.150 | 14.288 | 76.200  | 27.915 | 125.413 | 49,456 | 37.195 |
| JS5031  | 5.000 | 127.000 | 63.500 | 15.875 | 88.900  | 31.750 | 146.844 | 62,944 | 53.561 |
| 1605AAA | 5.000 | 127.000 | 63.500 | 19.050 | 88.900  | 34.925 | 161.925 | 78,680 | 64.720 |
| JS6042  | 6.000 | 152.400 | 76.200 | 19.050 | 101.600 | 38.100 | 174.625 | 94,416 | 69.034 |



# Hollow Pin Chain

## European (BS) Standard / ANSI Standard



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |          |            |                      |                  |                                       |             | Conn Links |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|----------|------------|----------------------|------------------|---------------------------------------|-------------|------------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Bore | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength (Newtons) MIN | Weight kg/m | No. 4      | No. 26 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX      | MAX        | MAX                  | NOM              |                                       |             |            |        |

### European (BS) Standard - Simplex Bush Chain

|         |   | A     | A      | B     | C     | D    | E    | F    | I    | H1   | J   | K |       |      |   |   |
|---------|---|-------|--------|-------|-------|------|------|------|------|------|-----|---|-------|------|---|---|
| 1204387 | - | 0.500 | 12.70  | 7.75  | 8.51  | 12.1 | 1.51 | 1.51 | 4.50 | 16.5 | 1.1 | - | 12000 | 0.66 | ✓ | ✓ |
| 1204989 | - | 1.000 | 25.40  | 12.70 | 15.88 | 23.0 | 3.00 | 3.00 | 6.00 | 30.8 | 1.3 | - | 70000 | 2.22 | ✓ | ✓ |
| 1203629 | - | 1.000 | 25.40  | 12.70 | 15.88 | 23.0 | 3.00 | 3.00 | 7.05 | 30.8 | 1.3 | - | 40000 | 2.20 | ✓ | ✓ |
| 1000947 | - | 1.968 | 50.00  | 10.00 | 30.00 | 27.5 | 3.00 | 3.00 | 8.20 | 26.0 | 4.0 | - | 60000 | 2.20 | ✓ | ✓ |
| 1000884 | - | 2.000 | 50.80  | 10.00 | 30.00 | 25.5 | 3.00 | 3.00 | 8.20 | 26.0 | 4.0 | - | 60000 | 2.10 | ✓ | ✓ |
| 1000948 | - | 3.937 | 100.00 | 10.00 | 30.00 | 25.5 | 3.00 | 3.00 | 8.20 | 26.0 | 4.0 | - | 60000 | 1.50 | ✓ | ✓ |

### European (BS) Standard - Simplex Stainless Steel Chain

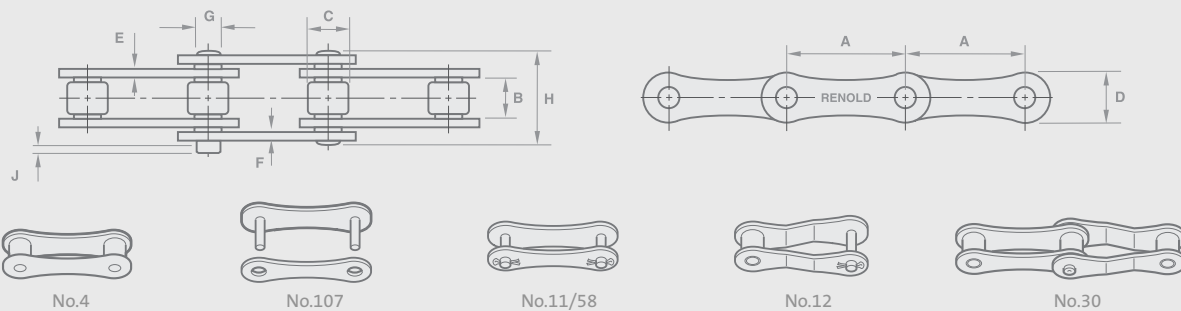
|         |   | A     | A     | B    | C    | D    | E    | F    | I    | H1   | J   | K |       |      |   |   |
|---------|---|-------|-------|------|------|------|------|------|------|------|-----|---|-------|------|---|---|
| 1206742 | - | 0.500 | 12.70 | 7.75 | 8.51 | 12.5 | 1.51 | 1.51 | 4.58 | 16.5 | 1.1 | - | 10500 | 0.61 | ✓ | ✓ |

### ANSI Standard - Simplex Bush Chain

|        |   | A     | A     | B     | C     | D    | E    | F    | I    | H1   | J   | K |       |      |   |   |
|--------|---|-------|-------|-------|-------|------|------|------|------|------|-----|---|-------|------|---|---|
| 50HP-1 | - | 0.625 | 15.88 | 9.40  | 10.16 | 15.1 | 2.00 | 2.00 | 5.10 | 20.4 | 1.0 | - | 18000 | 1.05 | ✓ | ✓ |
| 60HP-1 | - | 0.750 | 19.05 | 12.70 | 11.91 | 17.5 | 2.40 | 2.40 | 6.00 | 25.3 | 1.3 | - | 28500 | 1.39 | ✓ | ✓ |
| 80HP-1 | - | 1.000 | 25.40 | 15.88 | 15.88 | 25.0 | 2.70 | 3.70 | 9.50 | 34.0 | 5.1 | - | 60000 | 2.20 | ✓ | ✓ |

# Double Pitch Chain

## ISO 1275 / ANSI B29.00



| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                  |                         |        | Connecting Links |         |        |        |        |        |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|------------------|-------------------------|--------|------------------|---------|--------|--------|--------|--------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | Transverse Pitch | ISO606 Tensile Strength | Weight | No. 4            | No. 107 | No. 11 | No. 58 | No. 12 | No. 30 |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MAX              | NOM                     | MIN    |                  |         |        |        |        |        |

### ISO 1275 - Simplex

|         |      | A    | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |
|---------|------|------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|
| 113083* | 208B | 1.00 | 25.40  | 7.75  | 8.51  | 11.43 | 1.55 | 1.55 | 4.45  | 16.6 | 3.9 | - | 19000  | 0.53 | ✓ | ✓ | ✓ | - | - | ✓ |
| 113103* | 210B | 1.25 | 31.75  | 9.65  | 10.16 | 13.72 | 1.55 | 1.55 | 5.08  | 19.6 | 4.1 | - | 23000  | 0.66 | ✓ | ✓ | ✓ | - | - | ✓ |
| 113123* | 212B | 1.50 | 38.10  | 11.68 | 12.07 | 15.88 | 1.80 | 1.80 | 5.72  | 22.7 | 4.6 | - | 30500  | 0.90 | ✓ | ✓ | ✓ | - | - | ✓ |
| 113168  | 216B | 2.00 | 50.80  | 17.02 | 15.88 | 20.83 | 4.12 | 3.10 | 8.28  | 36.1 | 5.4 | - | 67000  | 1.80 | ✓ | ✓ | ✓ | - | - | ✓ |
| 113203  | 220B | 2.50 | 63.50  | 19.56 | 19.05 | 24.64 | 4.12 | 3.61 | 10.19 | 43.2 | 6.1 | - | 98070  | 2.45 | ✓ | ✓ | ✓ | - | ✓ | - |
| 113243  | 224B | 3.00 | 76.20  | 25.40 | 25.40 | 33.53 | 6.10 | 5.08 | 14.63 | 53.4 | 6.6 | - | 166700 | 4.80 | ✓ | ✓ | ✓ | - | ✓ | - |
| 113323  | 232B | 4.00 | 101.60 | 30.99 | 29.21 | 40.13 | 7.11 | 6.35 | 17.81 | 67.4 | 7.9 | - | 255000 | 5.95 | ✓ | ✓ | ✓ | - | - | - |

### ANSI Standard - Conveyor Small Roller

|         |   | A    | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |      |   |   |   |   |   |   |
|---------|---|------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|------|---|---|---|---|---|---|
| C2040R* | - | 1.00 | 25.40  | 7.85  | 7.92  | 11.80 | 1.50 | 1.50 | 3.97  | 17.8 | 3.9 | - | 14100  | 0.50 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2050R* | - | 1.25 | 31.75  | 9.40  | 10.16 | 15.00 | 2.00 | 2.00 | 5.09  | 21.8 | 4.1 | - | 22200  | 0.84 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2060R* | - | 1.50 | 38.10  | 12.57 | 11.91 | 17.80 | 3.17 | 3.17 | 5.95  | 28.6 | 4.6 | - | 38000  | 1.44 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2080R* | - | 2.00 | 50.80  | 15.75 | 15.88 | 24.10 | 4.00 | 4.00 | 7.92  | 35.8 | 5.4 | - | 65000  | 2.42 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2100H* | - | 2.50 | 63.50  | 19.00 | 19.05 | 28.80 | 4.75 | 4.75 | 9.54  | 42.4 | 4.3 | - | 137000 | 3.47 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2120H* | - | 3.00 | 76.20  | 25.40 | 22.23 | 35.10 | 5.61 | 5.61 | 11.11 | 52.4 | 5.3 | - | 185900 | 4.93 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2160H* | - | 4.00 | 101.60 | 31.50 | 28.58 | 47.90 | 7.30 | 7.30 | 14.29 | 65.6 | 6.7 | - | 305500 | 8.00 | ✓ | ✓ | ✓ | ✓ | ✓ | - |

### ANSI Standard - Conveyor Large Roller

|         |   | A    | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K |        |       |   |   |   |   |   |   |
|---------|---|------|--------|-------|-------|-------|------|------|-------|------|-----|---|--------|-------|---|---|---|---|---|---|
| C2042R* | - | 1.00 | 25.40  | 7.85  | 15.88 | 11.80 | 1.50 | 1.50 | 3.97  | 17.8 | 3.9 | - | 14100  | 0.82  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2052R* | - | 1.25 | 31.75  | 9.40  | 19.05 | 15.00 | 2.00 | 2.00 | 5.09  | 21.8 | 4.1 | - | 22200  | 1.26  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2062R* | - | 1.50 | 38.10  | 12.57 | 22.23 | 17.80 | 3.17 | 3.17 | 5.95  | 28.6 | 4.6 | - | 38000  | 2.03  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2082R* | - | 2.00 | 50.80  | 15.75 | 28.58 | 24.10 | 4.00 | 4.00 | 7.92  | 35.8 | 5.4 | - | 65000  | 3.36  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2102H* | - | 2.50 | 63.50  | 19.00 | 39.67 | 28.80 | 4.75 | 4.75 | 9.54  | 42.4 | 4.3 | - | 137000 | 5.65  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2122H* | - | 3.00 | 76.20  | 25.40 | 44.45 | 35.10 | 5.61 | 5.61 | 11.11 | 5.4  | 5.3 | - | 185900 | 7.90  | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| C2162H* | - | 4.00 | 101.60 | 31.50 | 57.15 | 47.90 | 7.30 | 7.30 | 14.29 | 65.6 | 6.7 | - | 305500 | 12.80 | ✓ | ✓ | ✓ | ✓ | ✓ | - |

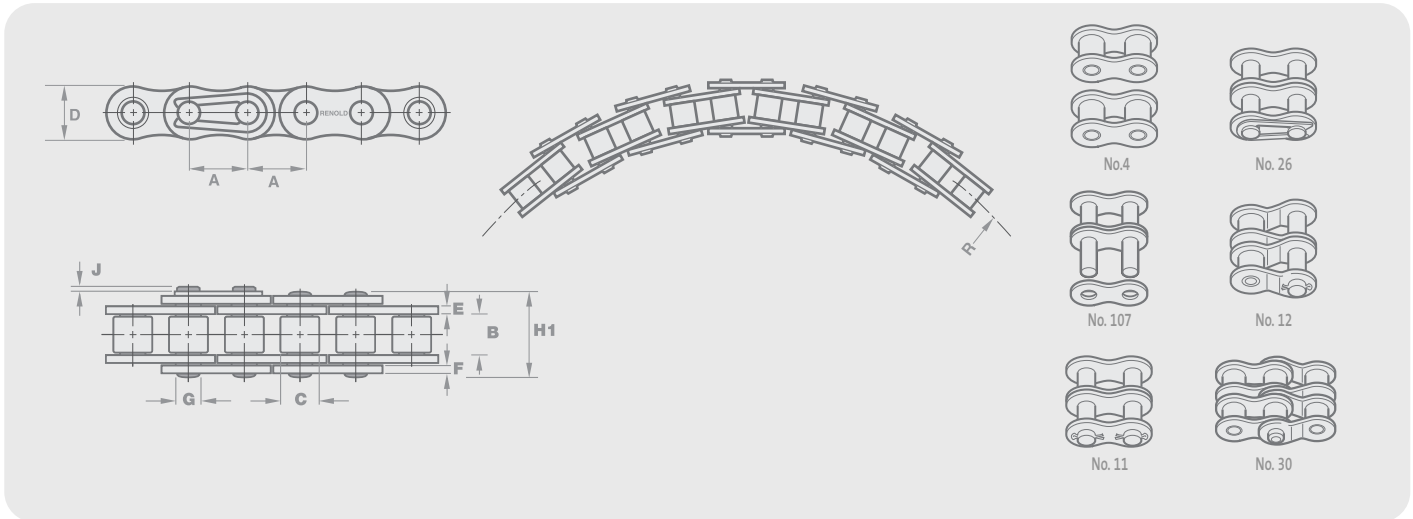
### ANSI Standard - Drive Chain

|       |   | A    | A     | B     | C     | D     | E    | F    | G    | H1   | J   | K |       |      |   |   |   |   |   |   |
|-------|---|------|-------|-------|-------|-------|------|------|------|------|-----|---|-------|------|---|---|---|---|---|---|
| A2040 | - | 1.00 | 25.40 | 7.85  | 7.92  | 11.80 | 1.50 | 1.50 | 3.97 | 17.8 | 3.9 | - | 14100 | 0.40 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| A2050 | - | 1.25 | 31.75 | 9.40  | 10.16 | 15.00 | 2.00 | 2.00 | 5.09 | 21.8 | 4.1 | - | 22200 | 0.70 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| A2060 | - | 1.50 | 38.10 | 12.57 | 11.91 | 17.80 | 2.40 | 2.40 | 5.95 | 26.9 | 4.6 | - | 31800 | 1.05 | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| A2080 | - | 2.00 | 50.80 | 15.75 | 15.88 | 24.10 | 3.00 | 3.00 | 7.92 | 33.5 | 5.4 | - | 56700 | 1.76 | ✓ | ✓ | ✓ | ✓ | ✓ | - |

\* Straight side plate

# Sidebow Roller Chain

## European (BS) Standard



| Chain Ref.       |              | Technical Details (mm) |              |              |              |             |                   |                 |            |                      |            |                |                           | Conn. Links |        |        |
|------------------|--------------|------------------------|--------------|--------------|--------------|-------------|-------------------|-----------------|------------|----------------------|------------|----------------|---------------------------|-------------|--------|--------|
| Renold Chain No. | Pitch (inch) | Pitch (mm)             | Inside Width | Roller Diam. | Plate Height | Plate Width | Plate Width Inner | Pin Diam. Outer | Pin Length | Conn. Link Extension | Bow Radius | ISO606 Tensile | Weight Strength (Newtons) | No. 4       | No. 11 | No. 26 |
|                  |              |                        | MIN          | MAX          | MAX          | MAX         | MAX               | MAX             | MAX        | MAX                  |            | MIN            |                           | kg/m        |        |        |

### Simplex

|          | A     | A      | B     | C     | D     | E    | F    | G    | H1   | J   | R   |        |      |   |   |   |
|----------|-------|--------|-------|-------|-------|------|------|------|------|-----|-----|--------|------|---|---|---|
| 1202219  | 0.375 | 9.520  | 5.72  | 6.35  | 8.26  | 1.30 | 1.30 | 3.28 | 13.5 | 3.3 | 195 | 9000   | 0.39 | ✓ | ✓ | ✓ |
| 1206046# | 0.500 | 12.700 | 7.85  | 7.95  | 11.89 | 1.55 | 1.55 | 3.42 | 17.0 | 3.9 | 350 | 13000  | 0.58 | ✓ | ✓ | ✓ |
| 1205319  | 0.500 | 12.700 | 7.75  | 8.51  | 11.89 | 1.55 | 1.55 | 4.45 | 17.0 | 3.9 | 400 | 19000  | 0.69 | ✓ | ✓ | ✓ |
| 1200180  | 0.625 | 15.875 | 9.65  | 10.16 | 13.72 | 1.55 | 1.55 | 4.70 | 18.7 | 4.1 | 450 | 22400  | 0.85 | ✓ | ✓ | ✓ |
| 1201871  | 0.750 | 19.050 | 11.68 | 12.07 | 15.93 | 1.80 | 1.80 | 5.72 | 22.7 | 4.6 | 650 | 29000  | 1.18 | ✓ | ✓ | ✓ |
| 1205954  | 1.000 | 25.400 | 17.02 | 15.88 | 20.57 | 4.12 | 3.10 | 8.27 | 36.1 | 5.4 | 750 | 65000  | 2.50 | ✓ | ✓ | ✓ |
| 1202031† | 1.250 | 31.750 | 9.53  | 10.16 | 15.00 | 2.00 | 2.00 | 4.45 | 21.8 | 4.1 | 650 | 222000 | 0.69 | ✓ | ✓ | ✓ |

#Based on ANSI 40 chain.

†Based on ANSI 2050 extended pitch chain.

Sidebow chain, unlike standard chain, is manufactured with larger clearances between the pin and bush diameters. Therefore, the tolerance over a length of chain is +0.3% and not +0.15% as for standard chain.

### Renold sidebow chain

#### Application:

Renold sidebow chain is used on curved track conveyors in the bottling, packaging, canning and textile industries. Some typical applications for this chain are:

- To operate a live-roll conveyor on a power curve
- To carry materials around a curve by use of attachments or slats
- To transmit power where abnormal chain twist may be encountered

### Product description

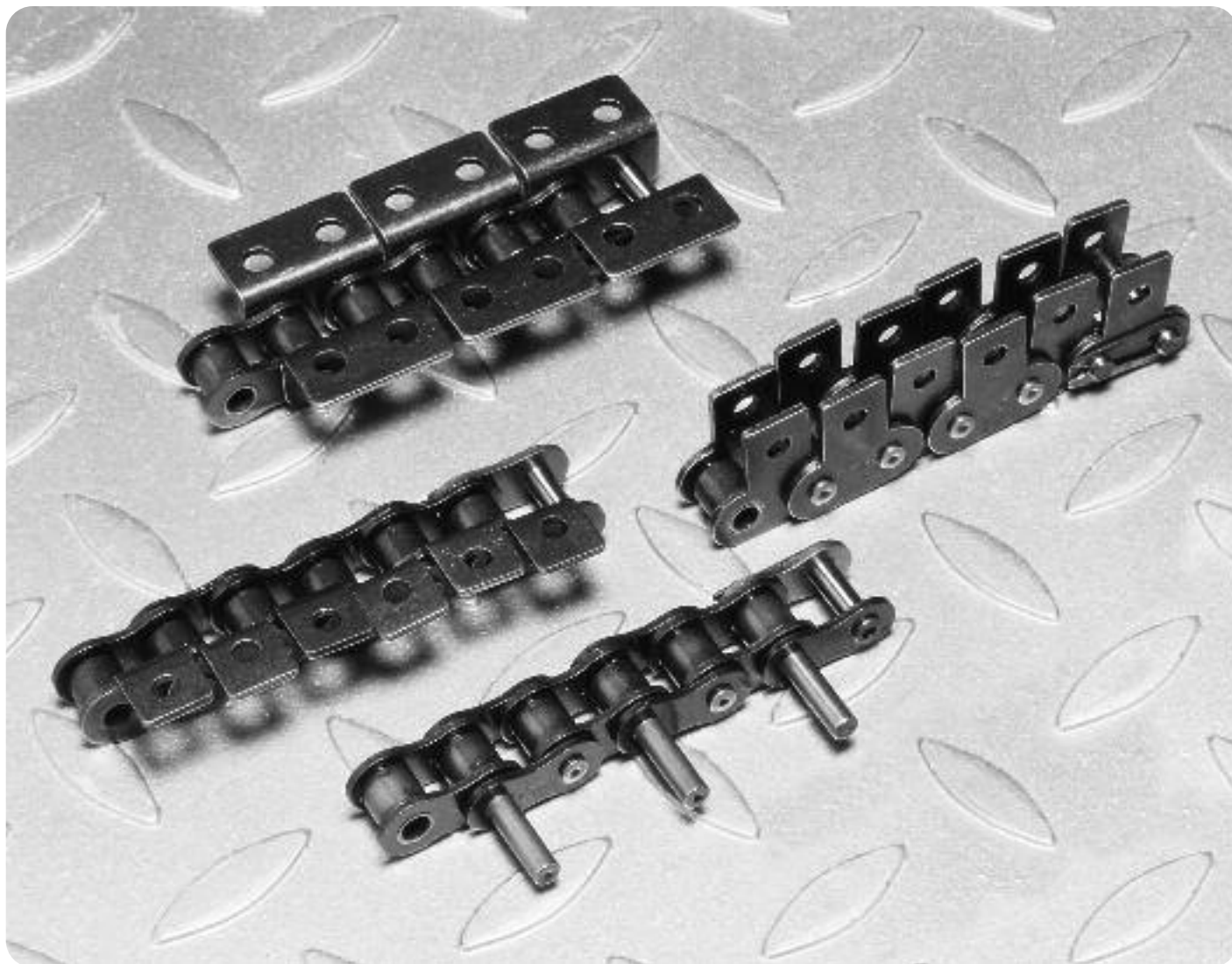
Renold sidebow chain is based on the ANSI and British Standard chain of its respective pitch size. The design of the chain requires a special pin diameter resulting in greater clearance between the pin and bush, allowing the chain to bow.

Attachments can be supplied for this chain, but are made to order. Selection of the chain is not covered in our selection procedures and we advise you to consult our technical staff with the details of your application.

Chain should be protected against dirt/moisture and be lubricated with good quality non-detergent petroleum based oil. Renold Sidebow Chain is pre-lubricated before despatch, but like all chain it needs regular re-lubrication during its working life.

For the majority of applications between -5°C and 60°C, a range of multigrade SAE 20/50 oil would be suitable. Special lubrication or coatings can be provided to match your applicational needs.

## Standard Attachments



▲  
Clockwise from top  
K2 attachment, M1 attachment,  
extended bearing pin & K1 attachment

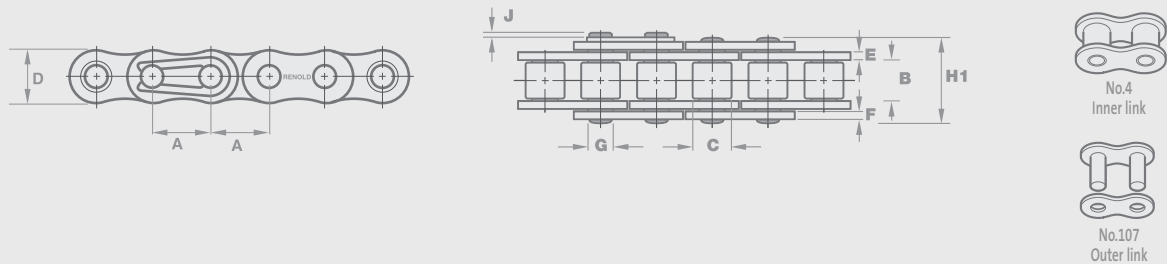
# Standard Attachments

## European (BS) Standard / ISO 606

Renold standard power transmission chain can be adapted for conveying duties by the fitment of attachments shown on these pages. The attachments can be assembled on one or both sides of the chain at any desired pitch spacing.

- Note:
1. K2 attachments cannot be assembled on adjacent inner and outer links on the same side of the chain.
  2. M1 attachments cannot be assembled next to a No. 30 Cranked link double joint.

Bearing pins with an extension on one side of the chain can be built into chain at any desired pitch spacing and afford a simple means by which attachments or tubular staybars may be secured to chain. The pins for BS/DIN series chain are grooved for standard external type circlips to BS 3673 Part 2 (not supplied) so that, if required, attachments may be retained endwise or can be supplied as a standard straight extended pin.



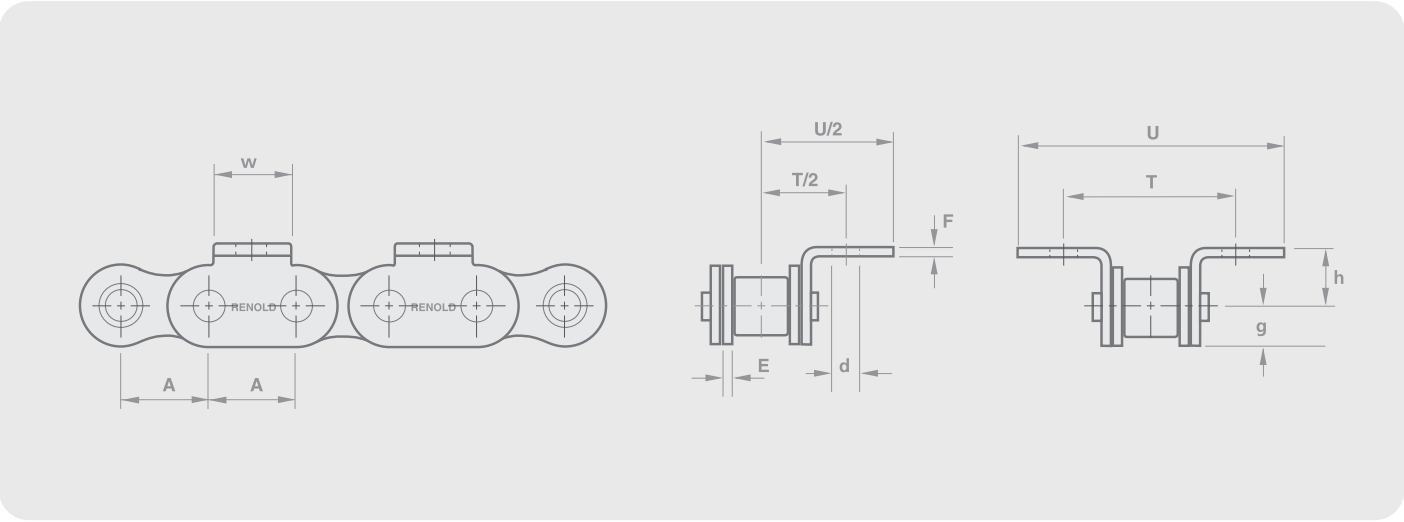
| Chain Ref.       |          | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                                       |             |
|------------------|----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|---------------------------------------|-------------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | ISO606 Tensile Strength (Newtons) MIN | Weight kg/m |
|                  |          |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  |                                       |             |

### European (BS) Standard - Simplex

|      |       | A     | A      | B     | C     | D     | E    | F    | G     | H1   | J   | K      |      |
|------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-----|--------|------|
| 08B1 | 08B-1 | 0.500 | 12.700 | 7.75  | 8.51  | 11.81 | 1.55 | 1.55 | 4.45  | 17.0 | 3.9 | 17800  | 0.70 |
| 10B1 | 10B-1 | 0.625 | 15.875 | 9.65  | 10.16 | 14.73 | 1.55 | 1.55 | 5.08  | 19.6 | 4.1 | 22200  | 0.92 |
| 12B1 | 12B-1 | 0.750 | 19.050 | 11.68 | 12.07 | 16.13 | 1.80 | 1.80 | 5.72  | 22.7 | 4.6 | 28900  | 1.20 |
| 16B1 | 16B-1 | 1.000 | 25.400 | 17.02 | 15.88 | 21.08 | 4.12 | 3.10 | 8.28  | 36.1 | 5.4 | 60000  | 2.80 |
| 20B1 | 20B-1 | 1.250 | 31.750 | 19.56 | 19.05 | 26.42 | 4.62 | 3.61 | 10.19 | 43.2 | 6.1 | 95000  | 3.85 |
| 24B1 | 24B-1 | 1.500 | 38.100 | 25.40 | 25.40 | 33.40 | 6.10 | 5.08 | 14.63 | 53.4 | 6.6 | 160000 | 7.45 |

# K1 Attachments

## Renold & ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

Renold Standard

|      |     | A     | A      | E    | F    | w     | h     | d    | g     | T     | U     |
|------|-----|-------|--------|------|------|-------|-------|------|-------|-------|-------|
| 08B1 | 08B | 0.500 | 12.700 | 1.57 | 1.57 | 11.56 | 8.89  | 4.19 | 6.80  | 23.80 | 37.92 |
| 10B1 | 10B | 0.625 | 15.875 | 1.57 | 1.57 | 12.83 | 10.16 | 4.98 | 6.80  | 31.75 | 44.45 |
| 12B1 | 12B | 0.750 | 19.050 | 1.83 | 1.83 | 16.64 | 13.49 | 7.14 | 8.02  | 38.10 | 59.66 |
| 16B1 | 16B | 1.000 | 25.400 | 4.06 | 3.10 | 24.32 | 15.24 | 6.68 | 10.27 | 47.63 | 74.45 |
| 20B1 | 20B | 1.250 | 31.750 | 4.62 | 3.61 | 25.59 | 19.84 | 8.08 | 12.58 | 63.50 | 93.62 |

ISO Standard

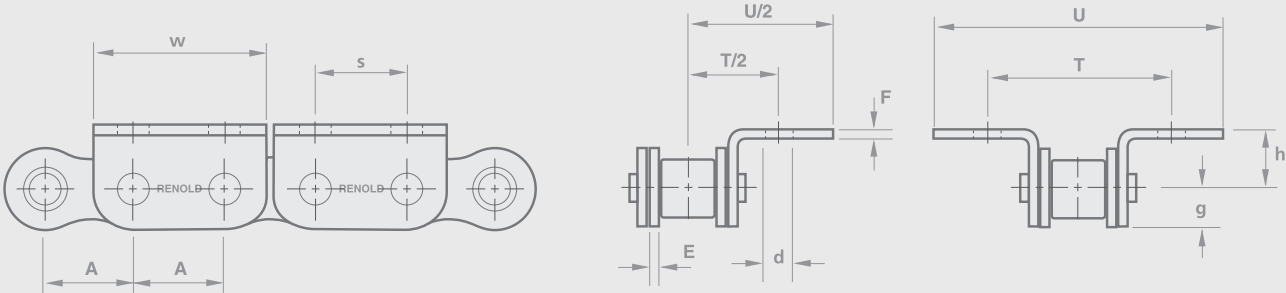
|       |     | A     | A      | E    | F    | w    | h    | d    | g    | T    | U     |
|-------|-----|-------|--------|------|------|------|------|------|------|------|-------|
| 1161  | 04  | 0.236 | 6.000  | 0.57 | 0.57 | 5.8  | 4.5  | 2.3  | 2.5  | 11.2 | 17.6  |
| 05B1  | 05B | 0.315 | 8.000  | 0.73 | 0.73 | 7.8  | 5.3  | 2.3  | 3.4  | 13.5 | 21.5  |
| 06B1* | 06B | 0.375 | 9.525  | 1.25 | 1.00 | 8.0  | 6.7  | 3.3  | 4.1  | 19.6 | 28.5  |
| 08B1  | 08B | 0.500 | 12.700 | 1.51 | 1.51 | 11.0 | 8.9  | 4.3  | 5.9  | 25.4 | 41.7  |
| 10B1  | 10B | 0.625 | 15.875 | 1.51 | 1.51 | 14.0 | 10.3 | 5.3  | 6.8  | 31.8 | 49.0  |
| 12B1  | 12B | 0.750 | 19.050 | 1.76 | 1.76 | 18.0 | 13.5 | 6.6  | 8.1  | 38.1 | 52.7  |
| 16B1  | 16B | 1.000 | 25.400 | 3.70 | 3.00 | 24.0 | 15.9 | 6.6  | 10.5 | 50.8 | 85.6  |
| 20B1  | 20B | 1.250 | 31.750 | 4.40 | 3.50 | 30.0 | 19.9 | 8.4  | 13.2 | 63.5 | 101.0 |
| 24B1  | 24B | 1.500 | 38.100 | 5.40 | 5.00 | 36.0 | 28.0 | 10.5 | 16.7 | 88.0 | 124.7 |

\* Straight plate



# K2 Attachments

## Renold & ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |  |  |

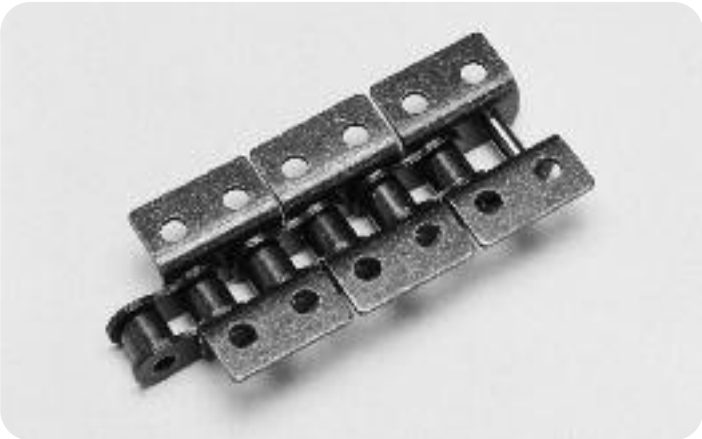
Renold Standard

|      |     | A     | A      | E    | F    | h      | d    | g     | w     | s      | T     | U     |
|------|-----|-------|--------|------|------|--------|------|-------|-------|--------|-------|-------|
| 08B1 | 08B | 0.500 | 12.700 | 1.57 | 1.57 | 8.890  | 4.85 | 6.80  | 24.50 | 12.700 | 25.40 | 40.46 |
| 10B1 | 10B | 0.625 | 15.875 | 1.57 | 1.57 | 10.160 | 4.98 | 6.80  | 29.97 | 15.875 | 31.75 | 45.57 |
| 12B1 | 12B | 0.750 | 19.050 | 1.83 | 1.83 | 11.430 | 5.54 | 8.02  | 35.48 | 19.050 | 34.93 | 51.13 |
| 16B1 | 16B | 1.000 | 25.400 | 4.06 | 3.10 | 15.875 | 8.08 | 10.27 | 45.91 | 25.400 | 57.15 | 78.26 |
| 20B1 | 20B | 1.250 | 31.720 | 4.62 | 3.61 | 19.840 | 8.08 | 12.58 | 58.10 | 31.750 | 63.50 | 93.62 |

ISO Standard

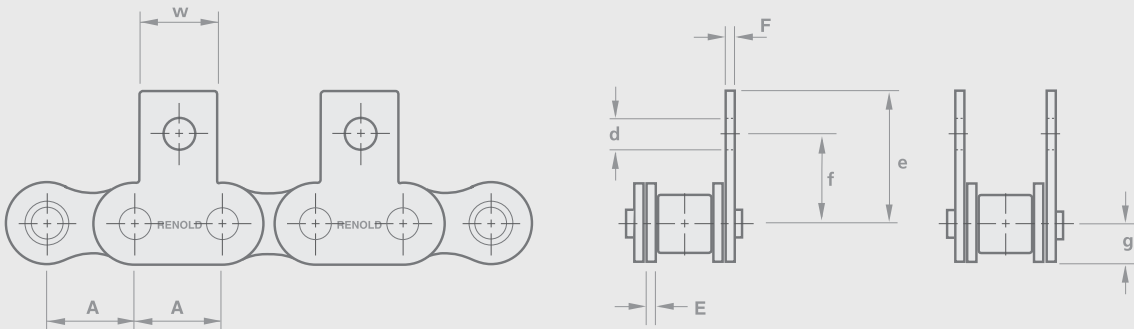
|       |     | A     | A      | E    | F    | h    | d    | g    | w    | s    | T    | U     |
|-------|-----|-------|--------|------|------|------|------|------|------|------|------|-------|
| 1161  | 04  | -     | 6.000  | 0.57 | 0.57 | 4.5  | 2.3  | 2.5  | 11.1 | 6.0  | 11.2 | 17.6  |
| 05B1  | 05B | -     | 8.000  | 0.73 | 0.73 | 5.3  | 2.3  | 3.4  | 14.8 | 8.0  | 13.5 | 21.5  |
| 06B1* | 06B | 0.375 | 9.525  | 1.25 | 1.00 | 6.7  | 3.3  | 4.1  | 19.6 | 9.5  | 19.6 | 28.5  |
| 08B1  | 08B | 0.500 | 12.700 | 1.51 | 1.51 | 8.9  | 4.3  | 5.9  | 24.4 | 12.7 | 25.4 | 41.7  |
| 10B1  | 10B | 0.625 | 15.875 | 1.51 | 1.51 | 10.3 | 5.3  | 6.8  | 29.9 | 15.9 | 31.8 | 49.6  |
| 12B1  | 12B | 0.750 | 19.050 | 1.76 | 1.76 | 13.5 | 6.6  | 8.1  | 35.4 | 19.0 | 38.1 | 48.8  |
| 16B1  | 16B | 1.000 | 25.400 | 3.70 | 3.00 | 15.9 | 6.6  | 10.5 | 46.2 | 26.4 | 50.8 | 85.6  |
| 20B1  | 20B | 1.250 | 31.750 | 4.40 | 3.50 | 19.9 | 8.4  | 13.2 | 57.0 | 31.7 | 63.5 | 101.0 |
| 24B1  | 24B | 1.500 | 38.100 | 5.40 | 5.00 | 28.0 | 10.5 | 16.7 | 71.5 | 38.1 | 88.0 | 124.7 |

\* Straight plate



# M1 Attachments

## Renold & ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |
|                  |          |                        |            |  |  |  |  |  |  |  |

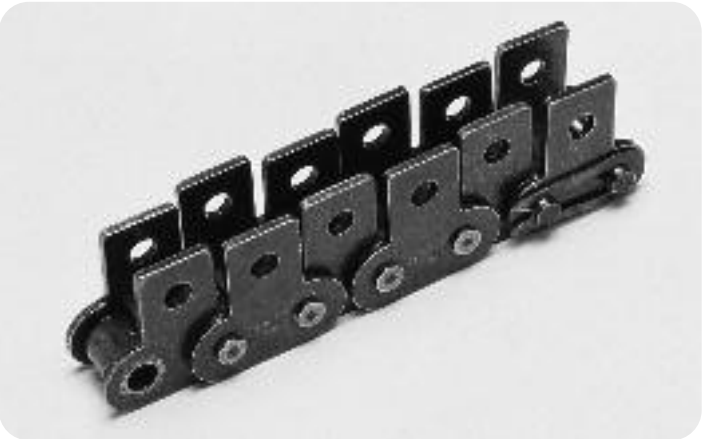
Renold Standard

|      |     | A     | A      | E    | F    | w     | e     | f      | d    | g     |
|------|-----|-------|--------|------|------|-------|-------|--------|------|-------|
| 08B1 | 08B | 0.500 | 12.700 | 1.57 | 1.57 | 11.56 | 19.00 | 12.700 | 4.19 | 6.80  |
| 10B1 | 10B | 0.625 | 15.875 | 1.57 | 1.57 | 12.83 | 22.54 | 15.875 | 4.98 | 6.80  |
| 12B1 | 12B | 0.750 | 19.050 | 1.83 | 1.83 | 16.64 | 31.98 | 22.230 | 7.14 | 8.02  |
| 16B1 | 16B | 1.000 | 25.400 | 4.06 | 3.10 | 24.32 | 34.13 | 23.800 | 6.73 | 10.27 |
| 20B1 | 20B | 1.250 | 31.750 | 4.62 | 3.61 | 25.59 | 46.02 | 31.750 | 8.20 | 12.58 |

ISO Standard

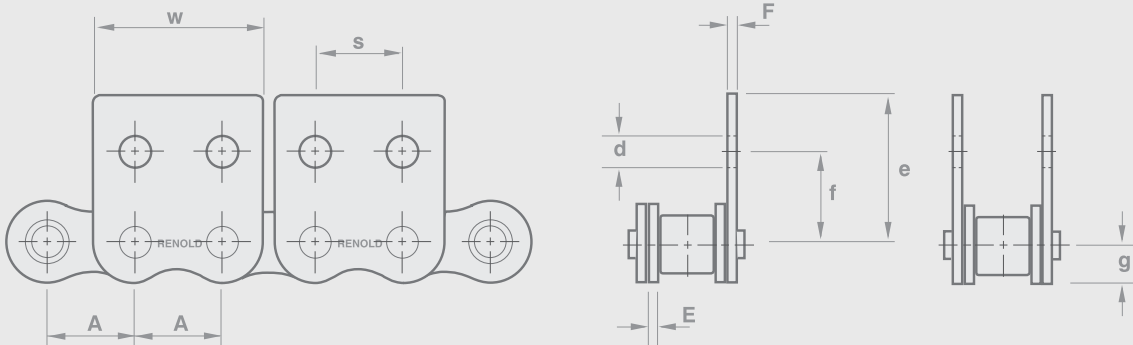
|       |     | A     | A      | E    | F    | w     | e    | f    | d    | g    |
|-------|-----|-------|--------|------|------|-------|------|------|------|------|
| 1161  | 04  | -     | 6.000  | 0.57 | 0.57 | 5.80  | 10.0 | 6.8  | 2.3  | 2.5  |
| 05B1  | 05B | -     | 8.000  | 0.73 | 0.73 | 7.80  | 11.9 | 8.6  | 2.3  | 3.4  |
| 06B1* | 06B | 0.375 | 9.525  | 1.25 | 1.00 | 8.00  | 14.5 | 10.1 | 3.3  | 4.1  |
| 08B1  | 08B | 0.500 | 12.700 | 1.51 | 1.51 | 11.00 | 20.8 | 13.0 | 4.3  | 5.9  |
| 10B1  | 10B | 0.625 | 15.875 | 1.51 | 1.51 | 14.00 | 24.9 | 16.5 | 5.3  | 6.8  |
| 12B1  | 12B | 0.750 | 19.050 | 1.76 | 1.76 | 18.00 | 28.2 | 21.0 | 6.6  | 8.1  |
| 16B1  | 16B | 1.000 | 25.400 | 3.70 | 3.00 | 24.00 | 39.7 | 23.0 | 6.6  | 10.5 |
| 20B1  | 20B | 1.250 | 31.750 | 4.40 | 3.50 | 30.00 | 47.5 | 30.5 | 8.4  | 13.2 |
| 24B1  | 24B | 1.500 | 38.100 | 5.40 | 5.00 | 36.00 | 61.5 | 42.7 | 10.5 | 16.7 |

\*Straight plate



# M2 Attachments

## ISO 606



| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

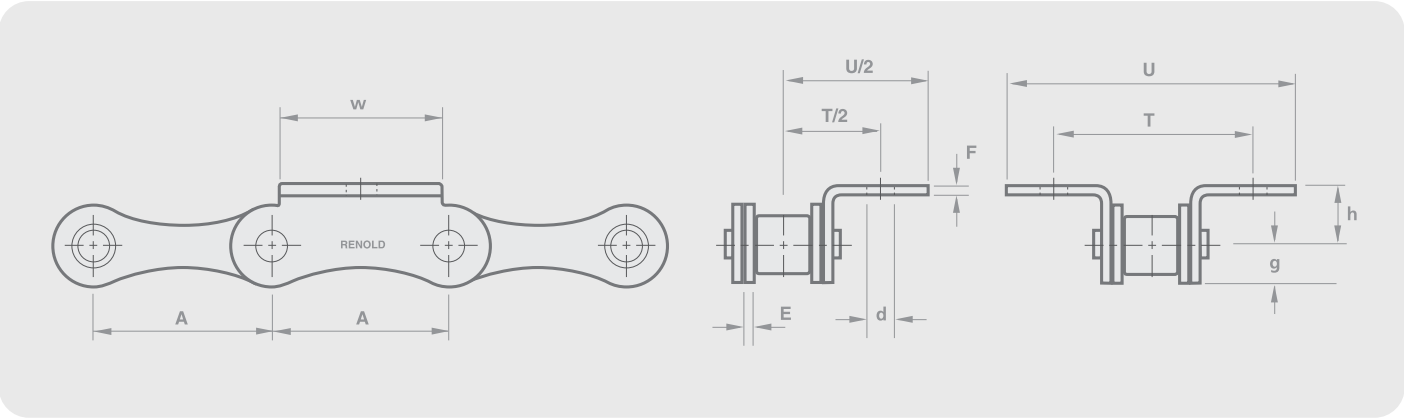
ISO Standard

|       |     | A     | A      | E    | F    | e    | f    | d    | g    | w    | s    |
|-------|-----|-------|--------|------|------|------|------|------|------|------|------|
| 1161  | 04  | -     | 6.000  | 0.57 | 0.57 | 10.0 | 6.8  | 2.3  | 2.5  | 11.1 | 6.0  |
| 05B1  | 05B | -     | 8.000  | 0.73 | 0.73 | 11.9 | 8.6  | 2.3  | 3.4  | 14.8 | 8.0  |
| 06B1* | 06B | 0.375 | 9.525  | 1.25 | 1.00 | 14.5 | 10.1 | 3.3  | 4.1  | 17.6 | 9.5  |
| 08B1  | 08B | 0.500 | 12.700 | 1.51 | 1.51 | 20.8 | 13.0 | 4.3  | 5.9  | 24.4 | 12.7 |
| 10B1  | 10B | 0.625 | 15.875 | 1.51 | 1.51 | 24.9 | 16.5 | 5.3  | 6.8  | 29.9 | 15.9 |
| 12B1  | 12B | 0.750 | 19.050 | 1.76 | 1.76 | 28.2 | 21.0 | 6.6  | 8.1  | 35.4 | 19.0 |
| 16B1  | 16B | 1.000 | 25.400 | 3.70 | 3.00 | 39.7 | 23.0 | 6.6  | 10.5 | 46.2 | 25.4 |
| 20B1  | 20B | 1.250 | 31.750 | 4.40 | 3.50 | 47.5 | 30.5 | 8.4  | 13.2 | 57.0 | 31.7 |
| 24B1  | 24B | 1.500 | 38.100 | 5.40 | 5.00 | 61.5 | 42.7 | 10.5 | 16.7 | 71.5 | 38.1 |

\* Straight plate



# Double Pitch K1/K2 Attachments

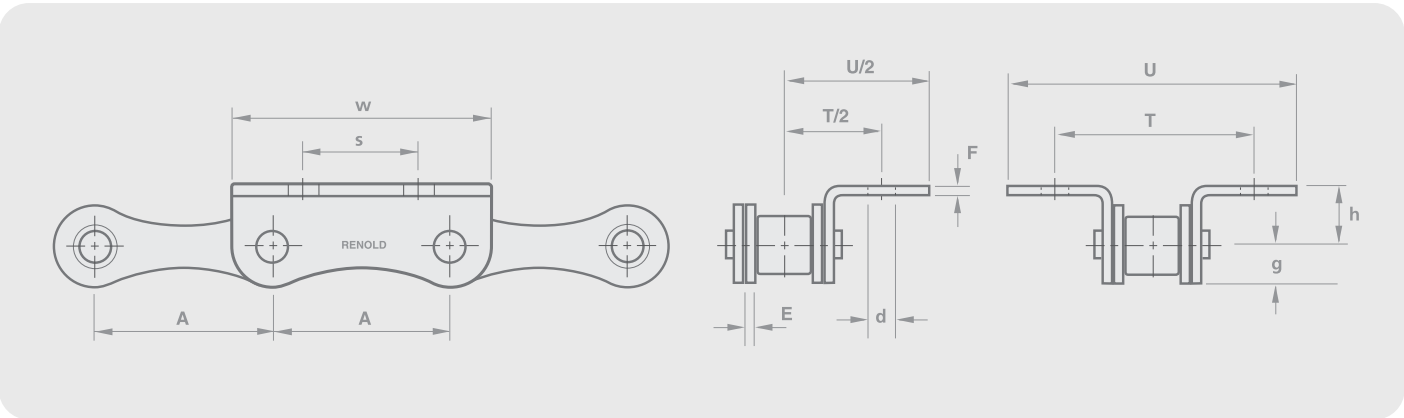


| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

Renold BS K1 Attachments

|         |      | A    | A     | E    | F    | w    | h    | d    | g    | T    | U     |
|---------|------|------|-------|------|------|------|------|------|------|------|-------|
| 113083* | 208B | 1.00 | 25.40 | 1.51 | 1.51 | 23.8 | 8.5  | 4.3  | 5.8  | 27.6 | 42.5  |
| 113103* | 210B | 1.25 | 31.75 | 1.51 | 1.51 | 25.4 | 10.5 | 5.3  | 7.4  | 31.6 | 48.5  |
| 113123* | 212B | 1.50 | 38.10 | 1.76 | 1.76 | 20.0 | 12.2 | 6.4  | 8.2  | 35.2 | 54.8  |
| 113168  | 216B | 2.00 | 50.80 | 3.70 | 3.00 | 40.0 | 17.0 | 8.4  | 10.3 | 58.0 | 83.8  |
| 113203  | 220B | 2.50 | 63.50 | 4.40 | 4.10 | 40.0 | 21.0 | 10.5 | 11.3 | 69.0 | 98.7  |
| 113243  | 224B | 3.00 | 76.20 | 5.40 | 5.00 | 70.0 | 28.0 | 10.5 | 16.7 | 88.0 | 124.7 |

\*Straight plate



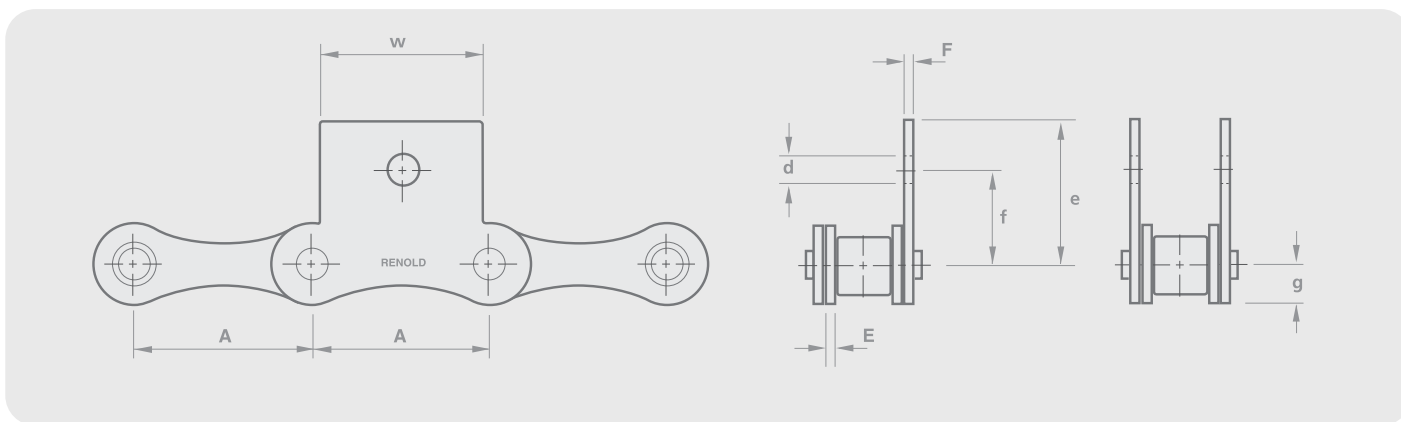
| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

Renold BS K2 Attachments

|         |      | A    | A     | E    | F    | h    | d    | g    | w    | s    | T    | U    |
|---------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 113083* | 208B | 1.00 | 25.40 | 1.51 | 1.51 | 8.5  | 4.3  | 5.8  | 37.1 | 12.7 | 27.6 | 42.5 |
| 113103* | 210B | 1.25 | 31.75 | 1.51 | 1.51 | 10.5 | 5.3  | 7.4  | 46.7 | 15.8 | 31.6 | 48.5 |
| 113123* | 212B | 1.50 | 38.10 | 1.76 | 1.76 | 12.2 | 6.4  | 8.2  | 54.4 | 19.0 | 35.2 | 54.8 |
| 113168  | 216B | 2.00 | 50.80 | 3.70 | 3.00 | 17.0 | 8.4  | 10.3 | 71.3 | 25.4 | 58.0 | 83.8 |
| 113203  | 220B | 2.50 | 63.50 | 4.40 | 4.10 | 21.0 | 10.5 | 11.3 | 86.5 | 31.7 | 69.0 | 98.7 |

\*Straight plate

# Double Pitch M1/M2 Attachments

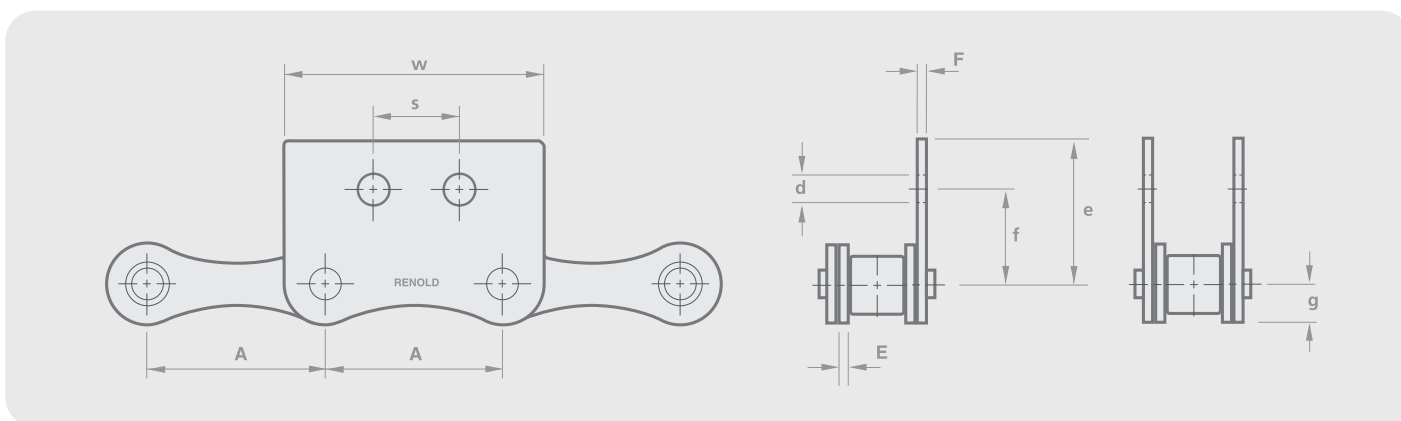


| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |

## Renold BS M1 Attachments

|         |      | A    | A     | E    | F    | w    | e    | f    | d    | g    |
|---------|------|------|-------|------|------|------|------|------|------|------|
| 113083* | 208B | 1.00 | 25.40 | 1.51 | 1.51 | 23.8 | 20.8 | 13.7 | 4.3  | 5.8  |
| 113103* | 210B | 1.25 | 31.85 | 1.51 | 1.51 | 25.4 | 24.9 | 16.5 | 5.3  | 7.4  |
| 113123* | 212B | 1.50 | 38.10 | 1.73 | 1.73 | 20.0 | 28.3 | 18.5 | 6.4  | 8.2  |
| 113168  | 216B | 2.00 | 50.80 | 3.70 | 3.00 | 40.0 | 40.0 | 27.4 | 8.4  | 10.3 |
| 113203  | 220B | 2.50 | 63.50 | 4.40 | 4.10 | 40.0 | 48.7 | 33.0 | 10.5 | 11.3 |
| 113243  | 224B | 3.00 | 76.20 | 5.40 | 5.00 | 70.0 | 61.5 | 42.7 | 10.5 | 16.7 |

\* Straight plate



| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |

## Renold BS M2 Attachments

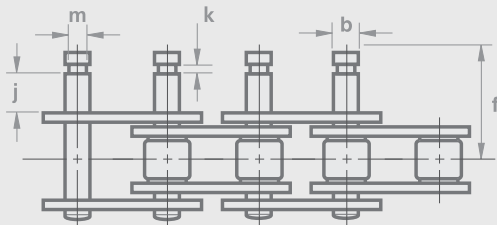
|         |      | A    | A     | E    | F    | e    | f    | d    | g    | w    | s    |
|---------|------|------|-------|------|------|------|------|------|------|------|------|
| 113083* | 208B | 1.00 | 25.40 | 1.51 | 1.51 | 20.8 | 13.7 | 4.3  | 5.8  | 37.1 | 12.7 |
| 113103* | 210B | 1.25 | 31.75 | 1.51 | 1.51 | 24.9 | 16.5 | 5.3  | 7.4  | 46.7 | 15.8 |
| 113123* | 212B | 1.50 | 38.10 | 1.76 | 1.76 | 28.3 | 18.5 | 6.4  | 8.2  | 54.4 | 19.0 |
| 113168  | 216B | 2.00 | 50.80 | 3.70 | 3.00 | 40.0 | 27.4 | 8.4  | 10.3 | 71.3 | 25.4 |
| 113203  | 220B | 2.50 | 63.50 | 4.40 | 4.10 | 48.7 | 33.0 | 10.5 | 11.3 | 86.5 | 31.7 |
| 113243  | 224B | 3.00 | 76.20 | 5.40 | 5.00 | 61.5 | 42.7 | 10.5 | 16.7 | -    | 38.1 |

\* Straight plate

# Extended Bearing Pins

## European (BS) Standard / ISO 606

Extended pin + circlip groove (type C)  
to suit standard external circlips to BS3673 Part 2



Unit assemblies



No 163  
Outer link



No 165  
Connecting link - spring clip



No 164  
Outer link



No 166  
Connecting link - spring clip

| Chain Ref.       |          | Technical Details (mm) |            |           |                                    |                      |                      |                                    |
|------------------|----------|------------------------|------------|-----------|------------------------------------|----------------------|----------------------|------------------------------------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Pin Diam. | Extension Length to Circlip Groove | Circlip Groove Width | Circlip Groove Diam. | Chain track from chain Centre line |
|                  |          |                        |            | MAX       | MAX                                | MIN                  | MIN                  | MAX                                |

Type C

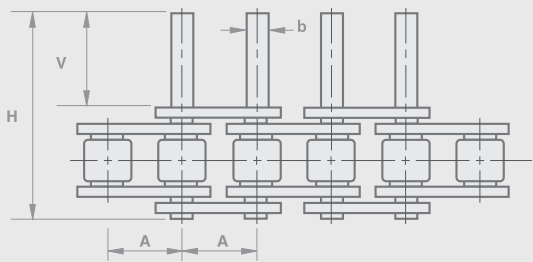
|      |       | A     | A      | b    | j     | k    | m    | f     |
|------|-------|-------|--------|------|-------|------|------|-------|
| 08B1 | 08B-1 | 0.500 | 12.700 | 4.45 | 7.19  | 0.58 | 3.18 | 17.78 |
| 10B1 | 10B-1 | 0.625 | 15.875 | 5.08 | 9.45  | 0.71 | 3.73 | 21.34 |
| 12B1 | 12B-1 | 0.750 | 19.050 | 5.72 | 11.81 | 0.71 | 4.78 | 25.15 |
| 16B1 | 16B-1 | 1.000 | 25.400 | 8.28 | 15.75 | 1.02 | 6.93 | 36.58 |

Extended pins with circlip groove

(clip not supplied unless specifically requested)



Extended pin (type D)



Unit assemblies



No 563  
Outer link



No 565  
Connecting link - spring clip



No 564  
Outer link



No 566  
Connecting link - spring clip

| Chain Ref.       |          | Technical Details (mm) |            |           |                  |            |
|------------------|----------|------------------------|------------|-----------|------------------|------------|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) | Pin Diam. | Extension Length | Pin Length |
|                  |          |                        |            | ±0.01     | ±0.25            | MAX        |

Type D - ISO 606

|       |       | A     | A      | b     | v    | h     |
|-------|-------|-------|--------|-------|------|-------|
| 06B1* | 06B-1 | 0.375 | 9.525  | 3.28  | 11.3 | 23.8  |
| 08B1  | 08B-1 | 0.500 | 12.700 | 4.45  | 14.8 | 31.0  |
| 10B1  | 10B-1 | 0.625 | 15.875 | 5.08  | 17.6 | 36.2  |
| 12B1  | 12B-1 | 0.750 | 19.050 | 5.72  | 20.7 | 42.4  |
| 16B1  | 16B-1 | 1.000 | 25.400 | 8.28  | 33.3 | 68.0  |
| 20B1  | 20B-1 | 1.250 | 31.750 | 10.19 | 38.3 | 79.7  |
| 24B1  | 24B-1 | 1.500 | 38.100 | 14.63 | 50.3 | 101.8 |

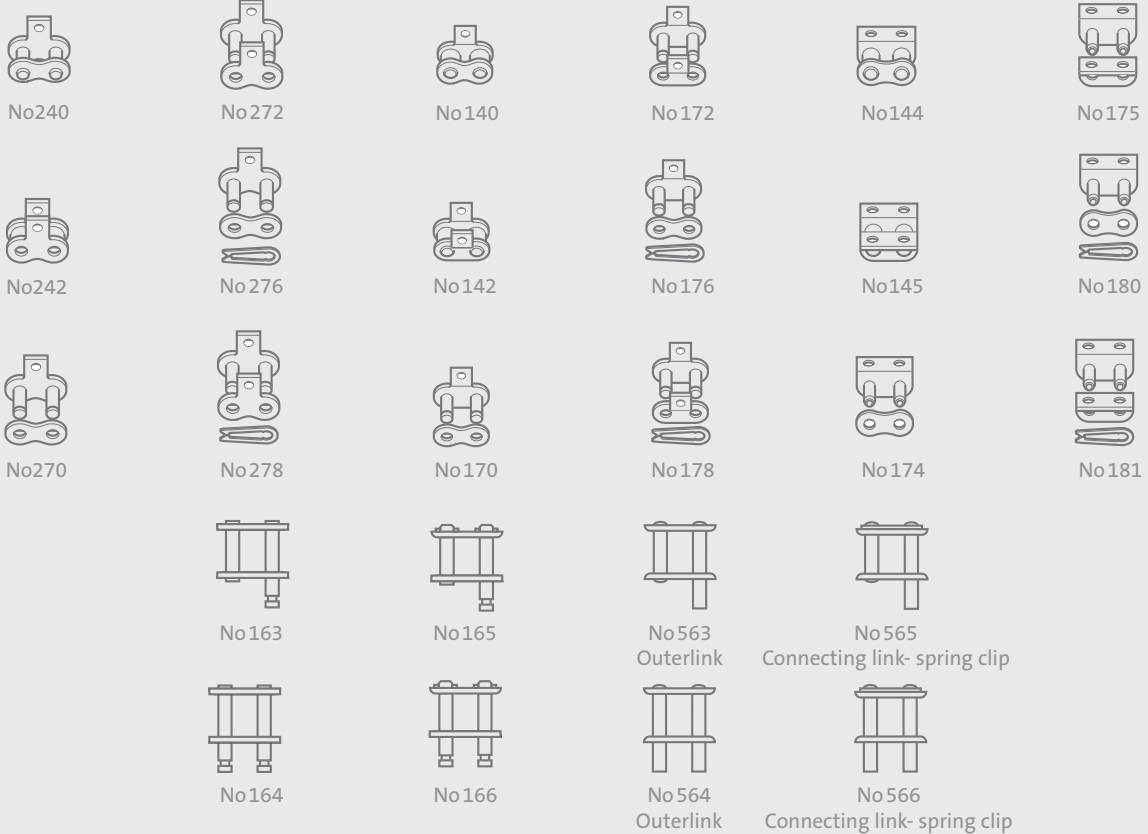
Straight extended pin



\*Straight side plate

# Attachment Chain Connecting Links

## European (BS) Standard / ISO 606



### Special or adapted roller chain

In addition to our ranges of standard series chain we can also offer:

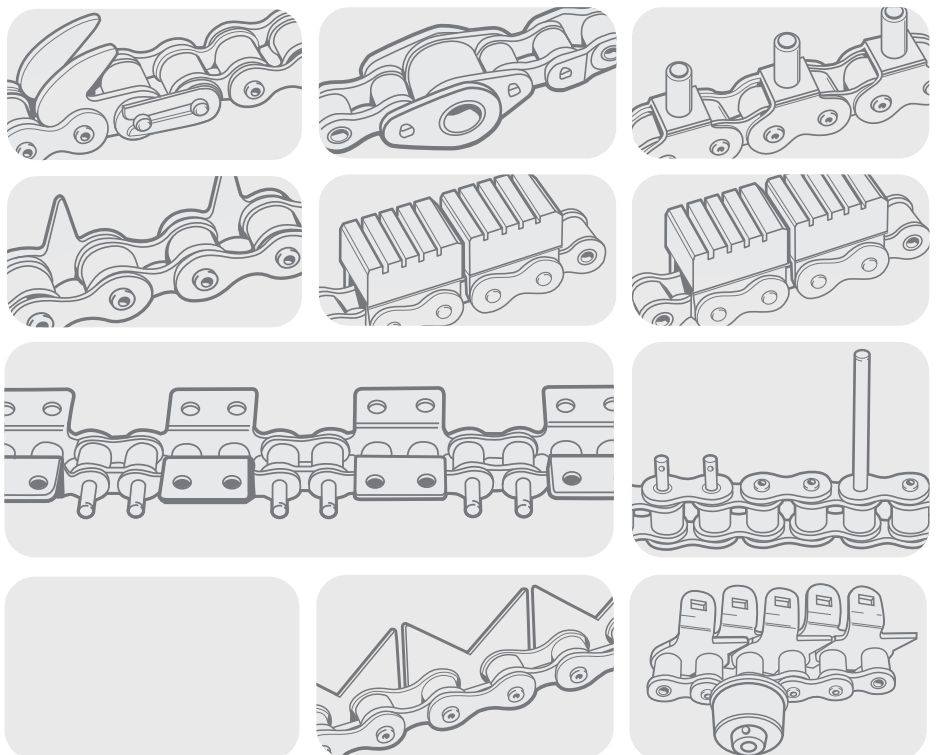
- Roller Chain up to 300mm pitch and 450 tonnes breaking load
- Standard Series Chain adapted to your unique needs with special attachments
- Special Chain designed with integral attachments to meet individual requirements

Renold adapted chain can be in the form of special plates, pin rollers, or blocks which can be designed, manufactured and assembled into chain of all pitch sizes.

Attachments can be made from normal materials, stainless steel or plastics.

We will be pleased to receive details of your requirements and evaluate them for strength, durability, price and despatch. They can be manufactured from your own designs or adapted from existing drawings.

The illustrations show only a small selection of the wide range of variants and these chains have been used successfully in many branches of industry for the feeding, conveying and discharge of a variety of products.



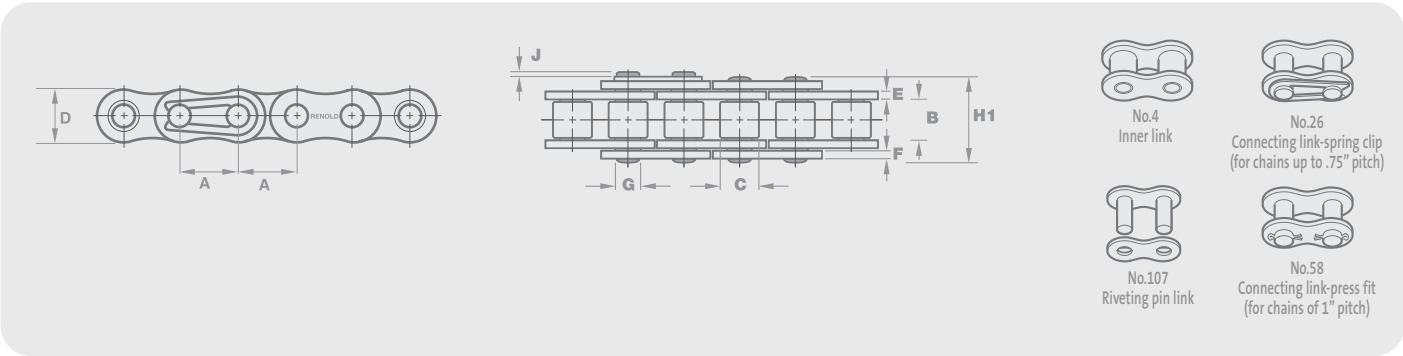
# Standard Attachments

## ANSI standard

Renold standard power transmission chain can be adapted for conveying duties by the fitment of attachments shown on these pages. The attachments can be assembled on one or both sides of the chain at any desired pitch spacing.

- Note:
- 1. K2 attachments cannot be assembled on adjacent inner and outer links on the same side of the chain.
  - 2. M1 attachments cannot be assembled next to a No. 30 (Cranked link double) joint.

Bearing pins with an extension on one side of the chain can be built into chain at any desired pitch spacing and afford a simple means by which attachments or tubular staybars may be secured to chain.



| Chain Ref.       |           | Technical Details (mm) |            |              |              |              |                   |                   |           |            |                      |                                   |             |
|------------------|-----------|------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-----------|------------|----------------------|-----------------------------------|-------------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Inside Width | Roller Diam. | Plate Height | Plate Width Inner | Plate Width Outer | Pin Diam. | Pin Length | Conn. Link Extension | ISO606 Tensile Strength (Newtons) | Weight kg/m |
|                  |           |                        |            | MIN          | MAX          | MAX          | MAX               | MAX               | MAX       | MAX        | MAX                  | MIN                               |             |

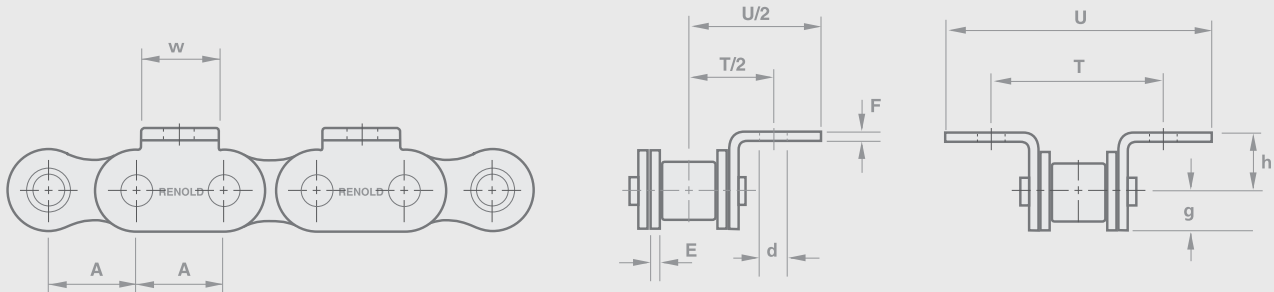
### ANSI Standard - Simplex

|                   |    | A     | A      | B     | C                   | D     | E    | F    | G    | H1   | J   | K     |      |
|-------------------|----|-------|--------|-------|---------------------|-------|------|------|------|------|-----|-------|------|
| 35A1 <sup>◊</sup> | 35 | 0.375 | 9.525  | 4.68  | 5.080 <sup>◊◊</sup> | 8.66  | 1.30 | 1.30 | 3.59 | 15.5 | 3.3 | 7900  | 0.33 |
| 40A1              | 40 | 0.500 | 12.700 | 7.85  | 7.920               | 11.15 | 1.55 | 1.55 | 3.98 | 17.8 | 3.9 | 13900 | 0.63 |
| 50A1              | 50 | 0.625 | 15.875 | 9.40  | 10.160              | 14.55 | 2.03 | 2.03 | 5.07 | 21.8 | 4.1 | 21800 | 1.05 |
| 60A1              | 60 | 0.750 | 19.050 | 12.58 | 11.910              | 17.45 | 2.39 | 2.39 | 5.96 | 26.9 | 4.6 | 31300 | 1.55 |
| 80A1              | 80 | 1.000 | 25.400 | 15.75 | 15.880              | 24.05 | 3.25 | 3.25 | 7.93 | 33.5 | 5.4 | 55600 | 2.80 |

<sup>◊</sup> Bush chain    <sup>◊◊</sup> Bush diameter.

# K1 Attachments

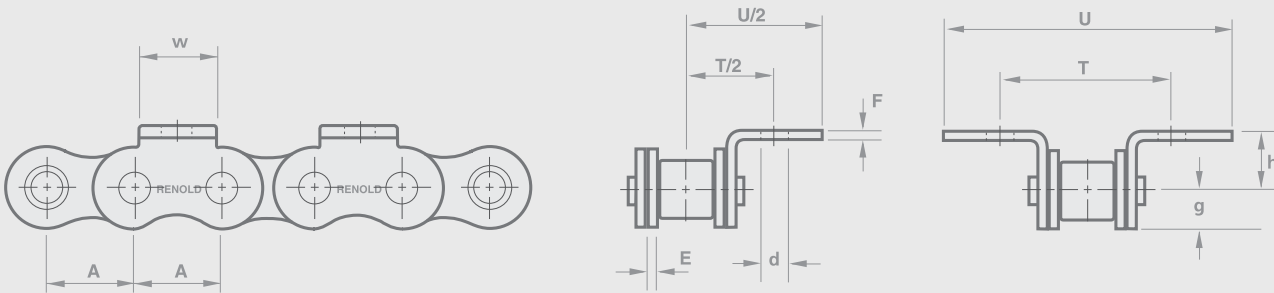
## ANSI B29.100 / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

ANSI Standard

|      |    | A     | A      | E    | F    | w     | h      | d    | g     | T    | U     |
|------|----|-------|--------|------|------|-------|--------|------|-------|------|-------|
| 40A1 | 40 | 0.500 | 12.700 | 1.52 | 1.52 | 9.50  | 7.900  | 3.20 | 6.01  | 25.3 | 35.30 |
| 50A1 | 50 | 0.625 | 15.875 | 2.03 | 2.03 | 12.70 | 10.300 | 5.20 | 7.54  | 31.8 | 46.02 |
| 60A1 | 60 | 0.750 | 19.050 | 2.39 | 2.39 | 15.90 | 12.140 | 5.20 | 9.04  | 38.1 | 54.23 |
| 80A1 | 80 | 1.000 | 25.400 | 3.15 | 3.15 | 19.05 | 15.875 | 6.73 | 11.43 | 50.8 | 70.08 |



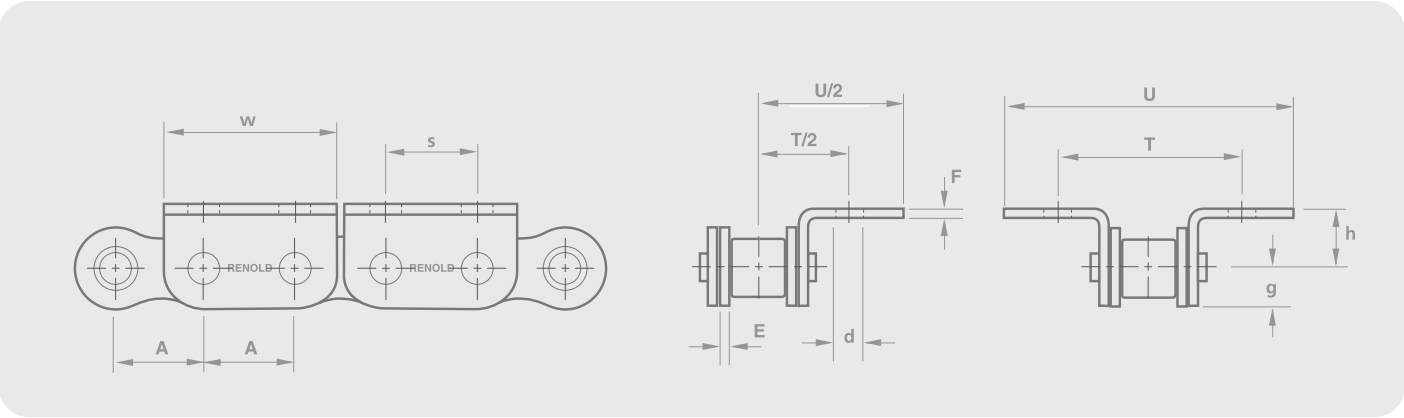
| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

ANSI Standard

|      |    | A     | A      | E    | F    | w    | h    | d   | g    | T    | U    |
|------|----|-------|--------|------|------|------|------|-----|------|------|------|
| 40A1 | 40 | 0.500 | 12.700 | 1.51 | 1.51 | 9.5  | 7.9  | 3.3 | 5.5  | 25.4 | 35.8 |
| 50A1 | 50 | 0.625 | 15.875 | 2.00 | 2.00 | 12.7 | 10.3 | 5.3 | 7.2  | 31.8 | 49.8 |
| 60A1 | 60 | 0.750 | 19.050 | 2.40 | 2.40 | 15.9 | 11.9 | 5.3 | 8.6  | 38.2 | 58.0 |
| 80A1 | 80 | 1.000 | 25.400 | 3.00 | 3.00 | 24.0 | 15.9 | 6.6 | 12.1 | 50.8 | 82.6 |

# K2 Attachments

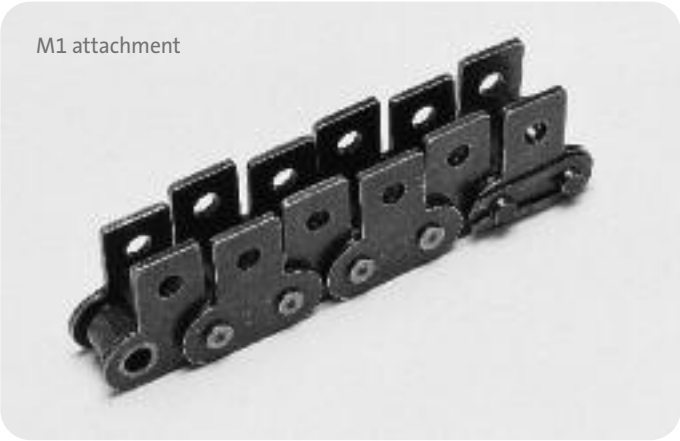
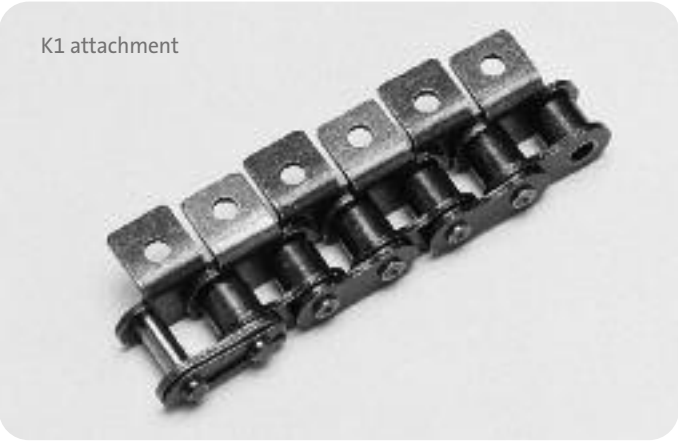
## ANSI B29.100 / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |  |

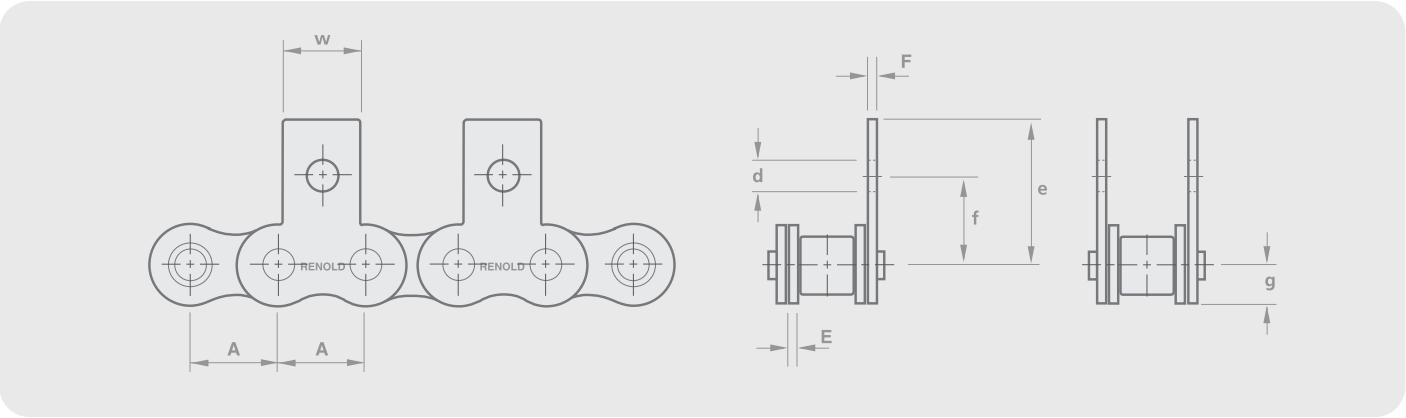
ISO/ANSI Standard

|      |    | A     | A      | E    | F    | h    | d   | g    | w    | s    | T    | U    |
|------|----|-------|--------|------|------|------|-----|------|------|------|------|------|
| 40A1 | 40 | 0.500 | 12.700 | 1.51 | 1.51 | 7.9  | 3.3 | 5.5  | 24.0 | 12.7 | 25.4 | 35.8 |
| 50A1 | 50 | 0.625 | 15.875 | 2.00 | 2.00 | 10.3 | 5.3 | 7.2  | 29.9 | 15.8 | 31.8 | 49.8 |
| 60A1 | 60 | 0.750 | 19.050 | 2.40 | 2.40 | 11.9 | 5.3 | 8.6  | 35.6 | 19.0 | 38.2 | 58.0 |
| 80A1 | 80 | 1.000 | 25.400 | 3.00 | 3.00 | 15.9 | 6.6 | 12.1 | 46.2 | 25.4 | 50.8 | 82.6 |



# M1 Attachments

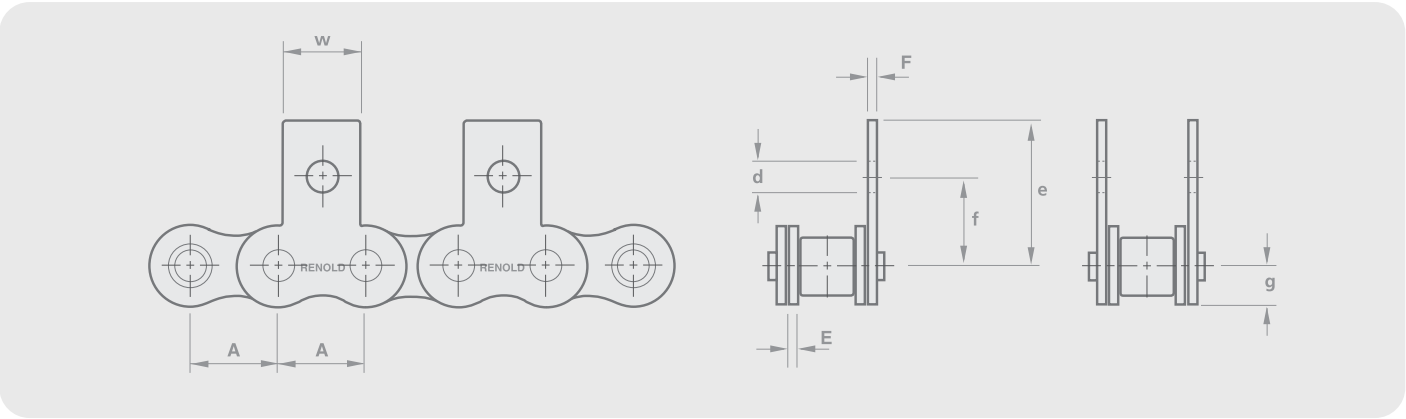
ANSI B29.100 / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |

ANSI Standard

|      |    | A     | A      | E    | F    | w     | e     | f     | d    | g     |
|------|----|-------|--------|------|------|-------|-------|-------|------|-------|
| 40A1 | 40 | 0.500 | 12.700 | 1.52 | 1.52 | 9.50  | 17.40 | 12.42 | 3.20 | 6.01  |
| 50A1 | 50 | 0.625 | 15.875 | 2.03 | 2.03 | 12.70 | 22.73 | 15.70 | 5.20 | 7.54  |
| 60A1 | 60 | 0.750 | 19.050 | 2.39 | 2.39 | 15.90 | 26.36 | 18.19 | 5.20 | 9.04  |
| 80A1 | 80 | 1.000 | 25.400 | 3.15 | 3.15 | 19.05 | 34.29 | 24.59 | 6.73 | 11.43 |



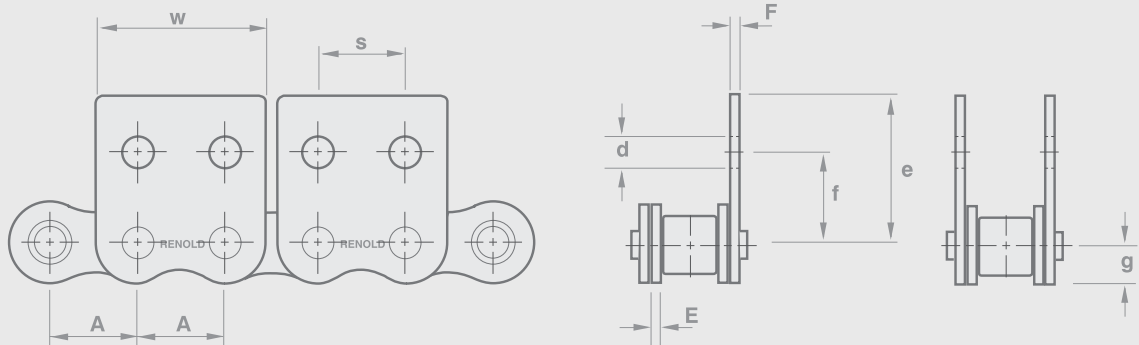
| Chain Ref.       |          | Technical Details (mm) |            |  |  |  |  |  |  |  |
|------------------|----------|------------------------|------------|--|--|--|--|--|--|--|
| Renold Chain No. | ISO Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |

ISO/ANSI Standard

|      |    | A     | A      | E    | F    | w    | e    | f    | d   | g    |
|------|----|-------|--------|------|------|------|------|------|-----|------|
| 40A1 | 40 | 0.500 | 12.700 | 1.51 | 1.51 | 9.5  | 17.5 | 12.7 | 3.3 | 5.5  |
| 50A1 | 50 | 0.625 | 15.875 | 2.00 | 2.00 | 12.7 | 24.6 | 15.9 | 5.3 | 7.2  |
| 60A1 | 60 | 0.750 | 19.050 | 2.40 | 2.40 | 15.9 | 27.4 | 18.3 | 5.3 | 8.6  |
| 80A1 | 80 | 1.000 | 25.400 | 3.00 | 3.00 | 24.0 | 39.7 | 24.6 | 6.6 | 12.1 |

# M2 Attachments

## ANSI B29.100 / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |
|                  |           |                        |            |  |  |  |  |  |  |  |  |

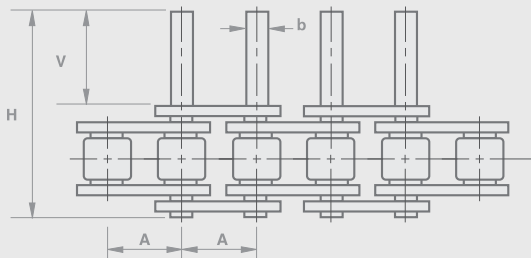
ISO/ANSI Standard

|      |    | A     | A      | E    | F    | e    | f    | d   | g    | w    | s    |
|------|----|-------|--------|------|------|------|------|-----|------|------|------|
| 40A1 | 40 | 0.500 | 12.700 | 1.51 | 1.51 | 17.5 | 12.7 | 3.3 | 5.5  | 24.0 | 12.7 |
| 50A1 | 50 | 0.625 | 15.875 | 2.00 | 2.00 | 24.6 | 15.9 | 5.3 | 7.2  | 29.9 | 15.8 |
| 60A1 | 60 | 0.750 | 19.050 | 2.40 | 2.40 | 27.4 | 18.3 | 5.3 | 8.6  | 35.6 | 19.0 |
| 80A1 | 80 | 1.000 | 25.400 | 3.00 | 3.00 | 39.7 | 24.6 | 6.6 | 12.1 | 46.2 | 25.4 |

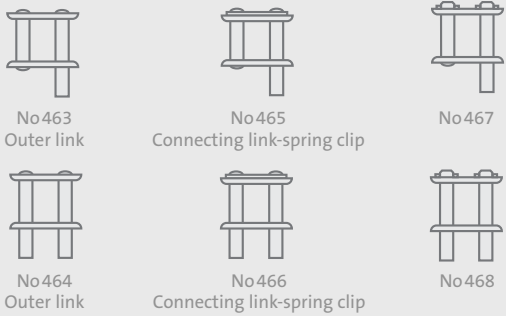
# Extended Bearing Pins

## ANSI B29.100 / ISO 606

Extended pin (type D)



Unit assemblies



| Chain Ref.       |           | Technical Details (mm) |            |           |                  |                                    |
|------------------|-----------|------------------------|------------|-----------|------------------|------------------------------------|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) | Pin Diam. | Extension Length | Chain track from chain Centre line |
|                  |           |                        |            | ±0.01     | ±0.25            | MAX                                |

ANSI Standard

|                   |    | A     | A      | b    | v     | h    |
|-------------------|----|-------|--------|------|-------|------|
| 35A1 <sup>o</sup> | 35 | 0.375 | 9.525  | 3.58 | 9.53  | 15.5 |
| 40A1              | 40 | 0.500 | 12.700 | 3.96 | 9.73  | 18.0 |
| 50A1              | 50 | 0.625 | 15.875 | 5.08 | 11.89 | 22.4 |
| 60A1              | 60 | 0.750 | 19.050 | 5.94 | 14.27 | 27.2 |
| 80A1              | 80 | 1.000 | 25.400 | 7.92 | 19.05 | 35.7 |

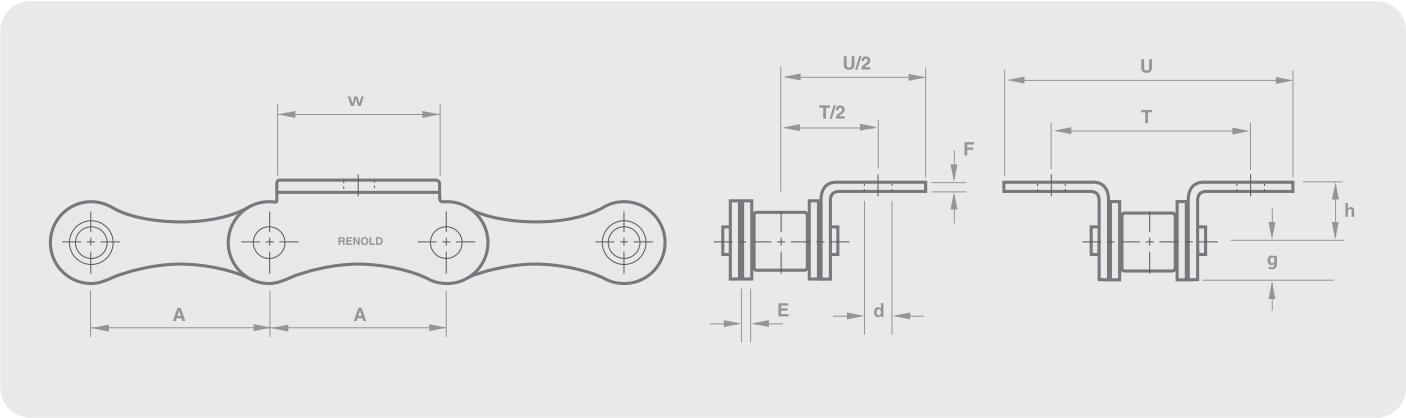
<sup>o</sup> Bush chain

Extended pin



# Double Pitch K1/M2 Attachments

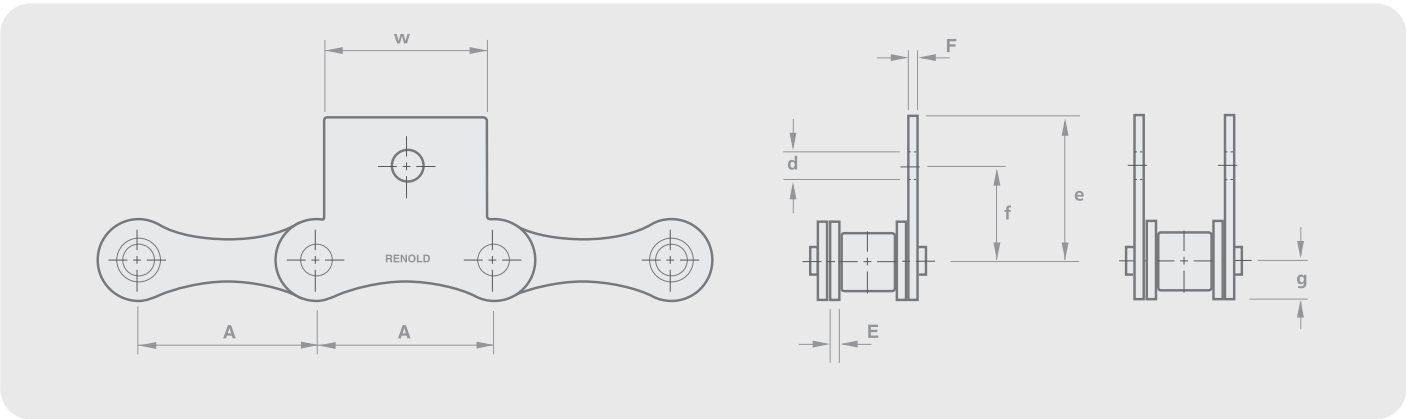
ANSI B29.100 / ISO 606



| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

## ANSI Standard K1

|         |       | A    | A     | E    | F    | w    | h    | d   | g   | T    | U    |
|---------|-------|------|-------|------|------|------|------|-----|-----|------|------|
| 113040  | 2040  | 1.00 | 25.40 | 1.51 | 1.51 | 23.8 | 9.1  | 3.3 | 5.7 | 25.4 | 40.6 |
| 113050  | 2050  | 1.25 | 31.75 | 2.00 | 2.00 | 25.4 | 11.1 | 5.3 | 7.4 | 31.8 | 48.9 |
| 113060  | 2060  | 1.50 | 38.10 | 2.40 | 2.40 | 28.6 | 14.7 | 5.3 | 8.8 | 42.8 | 58.0 |
| 113560* | C2060 | 1.50 | 38.10 | 3.17 | 3.17 | 28.6 | 14.7 | 5.3 | 8.8 | 42.8 | 61.6 |



| Chain Ref.       |           | Technical Details (mm) |            |  |  |  |  |  |  |  |  |
|------------------|-----------|------------------------|------------|--|--|--|--|--|--|--|--|
| Renold Chain No. | ANSI Ref. | Pitch (inch)           | Pitch (mm) |  |  |  |  |  |  |  |  |

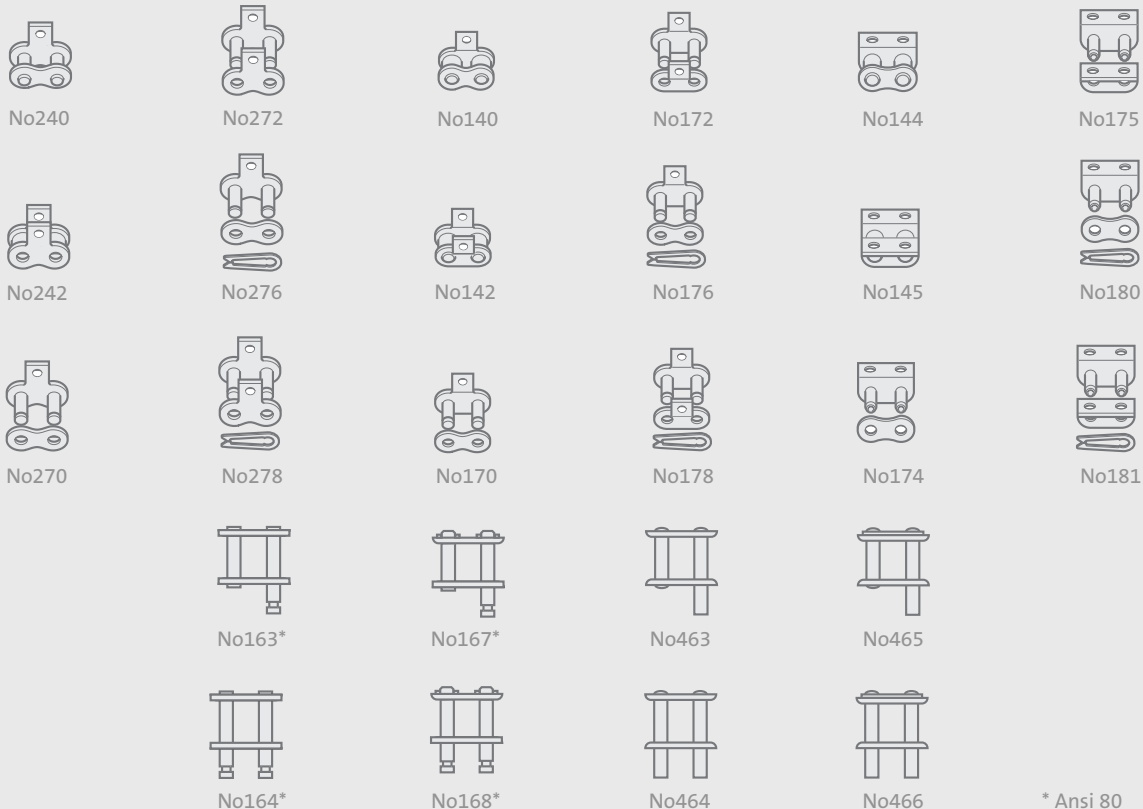
## ANSI Standard M1

|         |       | A    | A     | E    | F    | w    | e    | f    | d   | g   |
|---------|-------|------|-------|------|------|------|------|------|-----|-----|
| 113040  | 2040  | 1.00 | 25.40 | 1.51 | 1.51 | 23.8 | 20.9 | 11.1 | 3.3 | 5.7 |
| 113050  | 2050  | 1.75 | 31.75 | 2.00 | 2.00 | 25.4 | 24.9 | 14.3 | 5.3 | 7.4 |
| 113060  | 2060  | 1.50 | 38.10 | 2.40 | 2.40 | 28.6 | 30.2 | 19.0 | 5.3 | 8.8 |
| 113560* | C2060 | 1.50 | 38.10 | 3.17 | 3.17 | 28.6 | 30.2 | 19.0 | 5.3 | 8.8 |

\* Straight Plate

# Attachment Chain Connecting Links

## ANSI standard



### Special or Adapted Roller Chain

In addition to our ranges of standard series chain we can also offer:

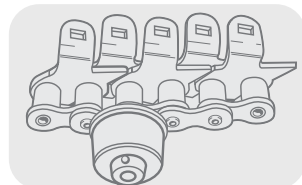
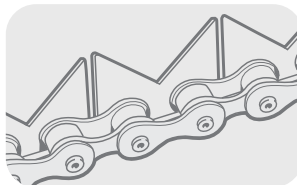
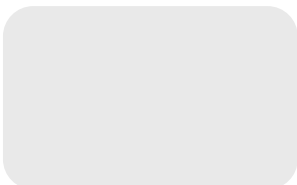
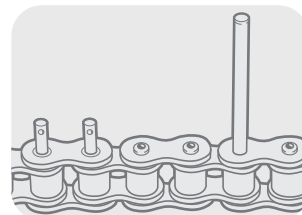
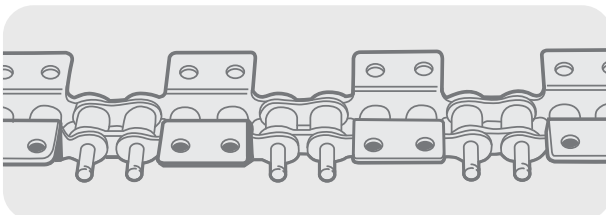
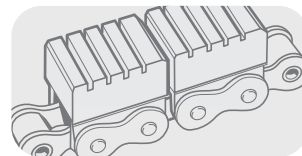
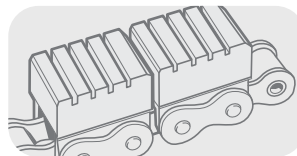
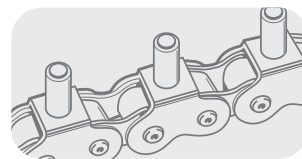
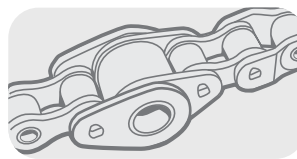
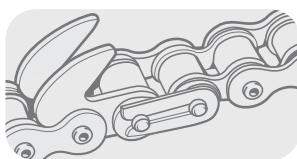
- Roller Chain up to 300mm pitch and 450 tonnes breaking load
- Standard Series Chain adapted to your unique needs with special attachments
- Special Chain designed with integral attachments to meet individual requirements

Renold adapted chain can be in the form of special plates, pin rollers, or blocks which can be designed, manufactured and assembled into chain of all pitch sizes.

Attachments can be made from normal materials, stainless steel or plastics.

We will be pleased to receive details of your requirements and evaluate them for strength, durability, price and despatch. They can be manufactured from your own designs or adapted from existing drawings.

The illustrations show only a small selection of the wide range of variants and these chains have been used successfully in many branches of industry for the feeding, conveying and discharge of a variety of products.



# Renold Klik-Top™

## Polymer Block Chain

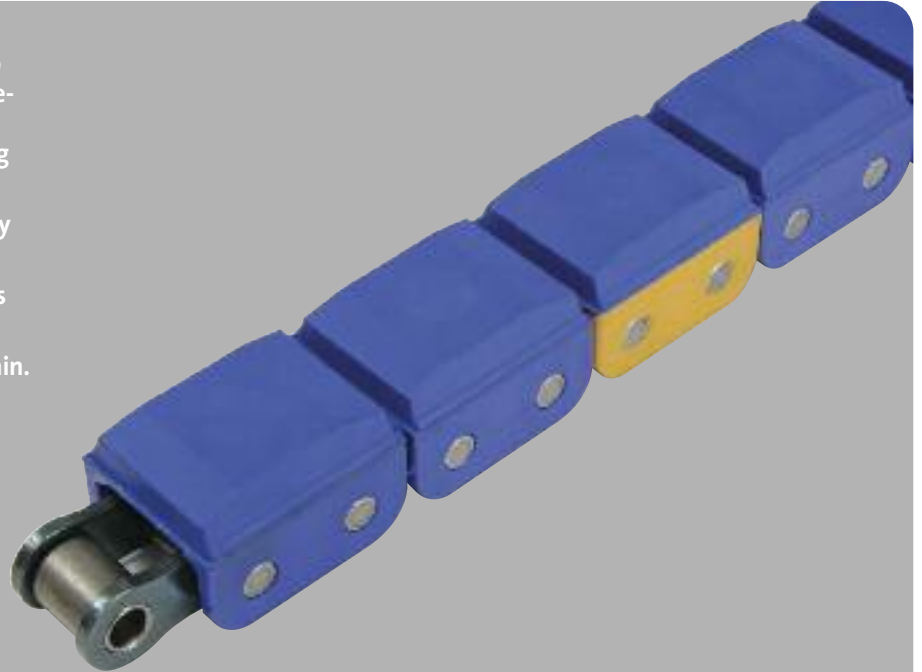
Klik-Top™ polymer block chain is quick to install, strong, suitable for use in hygiene-sensitive areas if required and will cut costly downtime experienced when using conventional polymer block chain.

Klik-Top™ chain ensures reliability, quality and great value for money.

Ideal for conveying delicate items such as glass, wood and packaging.

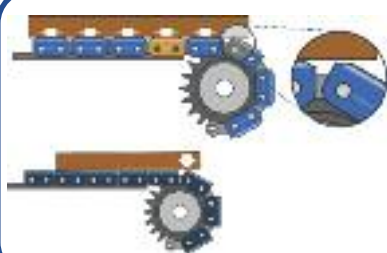
You can have confidence in Klik-Top™ chain.

- Short downtimes - increased productivity
- Durable polymer clip
- Easily replaced in moments
- Food industry approved
- Base chain available in stainless steel



### Conventional repair

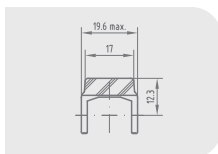
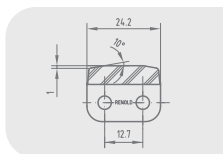
- Remove chain
- Grind heads of bearing pins
- Push out bearing pins
- Dismantle damaged parts
- Assemble new spare parts
- Test flexibility
- Reinstall chain



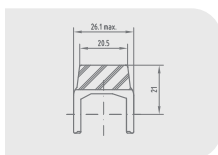
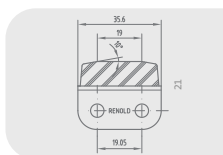
### It's easy with Klik-Top™

- Remove damaged clip
- Install new clip

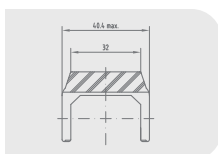
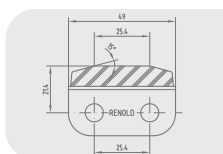




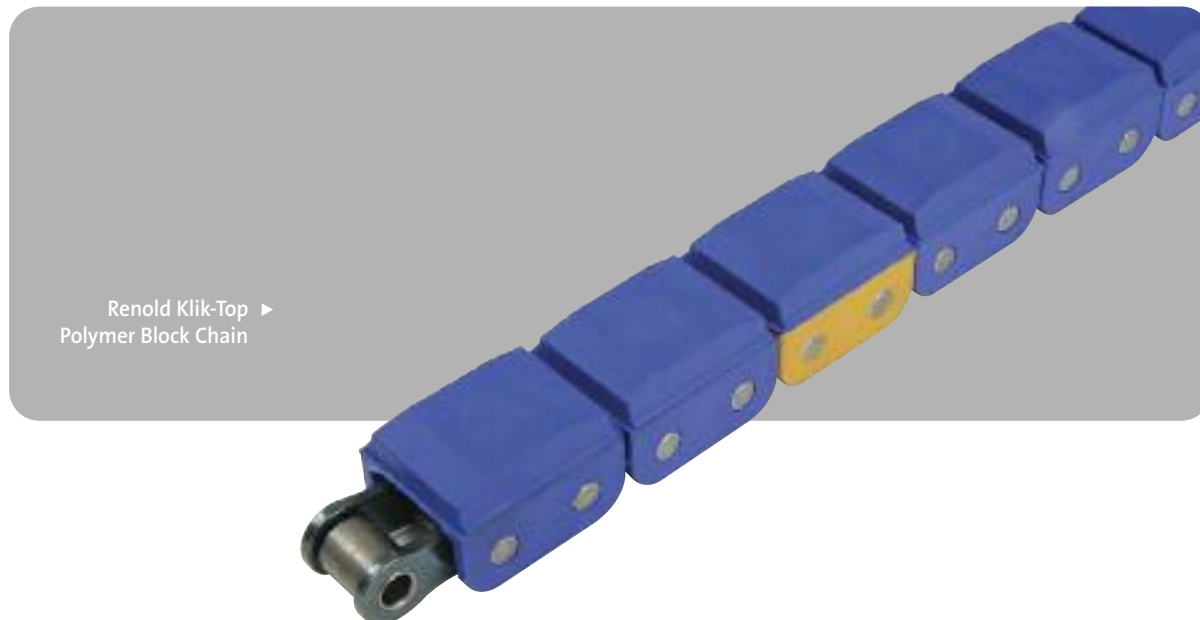
| Similar<br>DIN/ISO | Renold<br>No. | Part No.<br>Chain | Part No.<br>Conn. link | Part No.<br>Clip |
|--------------------|---------------|-------------------|------------------------|------------------|
| 08B-1              | 1603          | 1215255           | 1323961                | 1323959          |
| 08B-1              | 1603 RF**     | 1210314           | 1317973                | 1317979          |



| Similar<br>DIN/ISO | Renold<br>No. | Part No.<br>Chain | Part No.<br>Conn. link | Part No.<br>Clip |
|--------------------|---------------|-------------------|------------------------|------------------|
| 12B-1              | 1642          | 1215541           | 1324233                | 1324100          |
| 12B-1              | 1642 RF**     | 1210318           | 1317977                | 1317981          |



| Similar<br>DIN/ISO | Renold<br>No. | Part No.<br>Chain | Part No.<br>Conn. link | Part No.<br>Clip |
|--------------------|---------------|-------------------|------------------------|------------------|
| 16B-1              | 1666          | 1215390           | 1324123                | 1324068          |
| 16B-1              | 1666 RF**     | 1210319           | 1317978                | 1317164          |

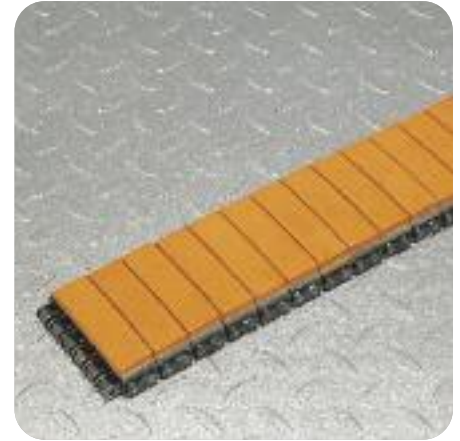


# Polymer Block Chain



◀ Example of  
Renold Rubber  
Block Chain

Renold Sextuplex ▶  
Block Chain



## Polymer block chain

Renold Polymer Block Chain (Rubber Block Chain) has been specifically designed for use in the **feed, conveying** and on **work discharge** types of applications, where an undamaged surface finish is an essential requirement for your finished product.

Renold Chain has been running successfully in all types of machinery and sectors of industry. Examples being:

- Woodworking
- Furniture Industry
- Profile Grinding
- Book Binding
- Conveying Plastic Tubes
- Glass Handling
- Cable Management
- Conveying of Fragile Components

The chain is based on ISO, DIN and ANSI standard, both Simplex and Duplex, the only difference being the overall pin length. Polymer block chain can be used in many different environments by simply changing the block material. The most popular chain in this catalogue being available from stock.

The polymer block vulcanised onto the U-plate is wear resistant and has a shore hardness of 50 to 60. It is suitable for working temperatures up to a maximum of 80°C (176°F).

- Polymer block chain is only supplied in even pitch lengths, including a connecting link
- Chain can be supplied without polymer blocks, with the standard U-plates fitted to the outer links
- For a small extra charge chain can be zinc plated, but this will reduce the minimum breaking load of the chain by 10%
- The gearing dimensions of polymer block chain allows them to run on standard sprockets

Other sizes of chain and block materials can be supplied, apart from the popular and made to order chain detailed in this catalogue. For special applications Renold multiplex chain, up to sextuplex, have been supplied and used successfully where a wider polymer block platform is required.

## Popular range

| Iso No. | ANSI No. | Pitch (inch) | Type    |
|---------|----------|--------------|---------|
| 08B-1   | -        | 0.50         | Simplex |
| 08B-2   | -        | 0.50         | Duplex  |
| 12B-1   | -        | 0.75         | Simplex |
| 12B-2   | -        | 0.75         | Duplex  |
| -       | 80       | 0.50         | Simplex |
| -       | 80-2     | 1.00         | Duplex  |
| 24B-1   | -        | 1.50         | Simplex |

## Made to order sizes

| Iso No. | ANSI No. | Pitch (inch) | Type    |
|---------|----------|--------------|---------|
| 04      | -        | 6mm          | Simplex |
| 06B-1   | -        | 0.375        | Simplex |
| 08B-3   | -        | 0.500        | Triplex |
| 10B-2   | -        | 0.625        | Duplex  |
| 20B-1   | -        | 1.250        | Simplex |

The block material specifications available are shown on page 56.

For assistance with selecting the correct chain size, block type or profile for your application, contact our Technical Sales Department.

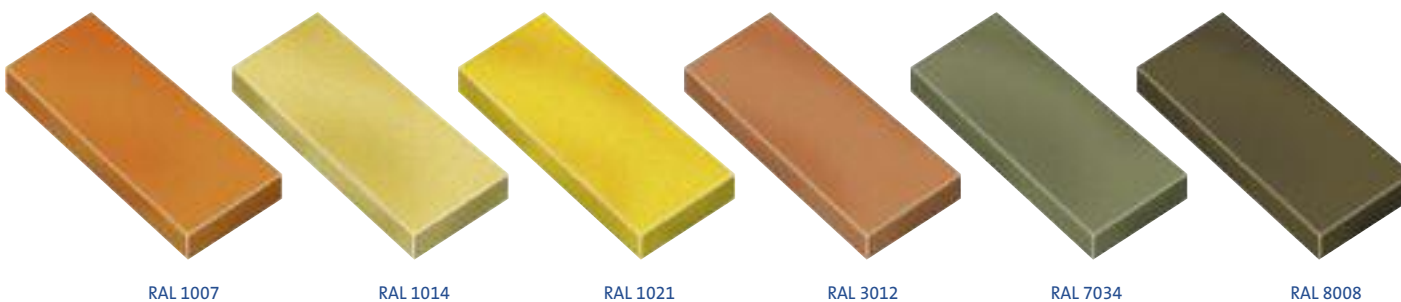
# Polymer Block

## Material code and details

| Code | Material Type                         | Shore Hardness | Wear Value<br>DIN 53516 mm3 | Colour                            |
|------|---------------------------------------|----------------|-----------------------------|-----------------------------------|
| NR   | Natural Rubber                        | 65 + / - 5     | 160                         | RAL1014 Ivory                     |
| IR   | Isoprene Rubber (Synth. polyisoprene) | -              | -                           | -                                 |
| SBR  | Styrene-Butadiene Rubber              | -              | -                           | -                                 |
| BR   | Butadiene Rubber (Polybutadiene)      | -              | -                           | -                                 |
| EPDM | Ethylene-Propylene-Diene Polymer      | -              | -                           | -                                 |
| NBR  | Acronitrille Butadiene Rubber         | 75 + / - 5     | 160                         | RAL7034 Yellow-Grey               |
| CR   | Chloroprene Rubber (Polychloroprene)  | 65 + / - 5     | 160                         | RAL1021 Cadmium-Yellow            |
| AU   | Polyester Urethane Rubber             | -              | -                           | -                                 |
| SI   | Silicone Resins                       | 70 + / - 5     | 160*                        | RAL3012 Beige-Red                 |
| FSI  | Fluoric Silicone Resins               | -              | -                           | -                                 |
| FPM  | Fluoropolymers                        | 75 + / - 5     | 160*                        | RAL8008 Olive-Brown               |
| PUR  | Polyurethane                          | 85 + / - 5     | 80                          | RAL1007 Chrome-Yellow Transparent |
| PTFE | Polytetrafluoroethylene               | -              | -                           | -                                 |

- Details available on request.

\* Renold design.



A customer specific design, hardness and wear specification of block is possible, but may be subject to minimum order quantities.

Polymer Block material colour may vary from the represented colours shown above.

## Material mechanical values/resistance

| Type                           | Material |     |      |      |      |      |      |      |      |      |      |      |     |      |  |
|--------------------------------|----------|-----|------|------|------|------|------|------|------|------|------|------|-----|------|--|
|                                | NR       | IR  | SBR  | BR   | IIR  | EPDM | NBR  | CR   | AU   | SI   | FSI  | FPM  | PUR | PTFE |  |
| Tensile Strength               | 1        | 2   | 5    | 6    | 4    | 5    | 5    | 3    | 2    | 6    | 6    | 5    | 1   | 1    |  |
| Elongation at Fracture         | 1        | 1   | 2    | 3    | 2    | 3    | 2    | 2    | 2    | 4    | 4    | 3    | 2   | 3    |  |
| Rebond Resilience              | 2        | 2   | 3    | 1    | 6    | 3    | 3    | 3    | 3    | 3    | 3    | 5    | 2   | NA   |  |
| Wear Resistance                | 2        | 2   | 2    | 1    | 3    | 3    | 2    | 2    | 1    | 5    | 5    | 4    | 1   | 3    |  |
| Tear Strength                  | 2        | 3   | 3    | 5    | 4    | 4    | 4    | 3    | 4    | 6    | 6    | 3    | 1   | 2    |  |
| Current Flow Resistance        | 1        | 1   | 2    | 2    | 2    | 2    | 4    | 3    | 3    | 1    | 1    | 4    | 2   | 1    |  |
| Temperature Hot -Air Degrees C | +90      | +90 | +100 | +100 | +140 | +150 | +130 | +120 | +120 | +200 | +200 | +220 | +80 | +260 |  |
| Minimum Temperature Degrees C  | -50      | -40 | -40  | -60  | -40  | -40  | -40  | -30  | -20  | -80  | -80  | -25  | -35 | -190 |  |
| Age Resistance                 | 3        | 3   | 3    | 3    | 2    | 1    | 3    | 2    | 2    | 1    | 1    | 1    | 1   | 1    |  |
| Ozone Resistance               | 4        | 4   | 4    | 3    | 2    | 1    | 3    | 2    | 2    | 1    | 1    | 1    | 1   | 1    |  |
| Benzine Resistance             | 6        | 6   | 4    | 5    | 6    | 5    | 1    | 2    | 1    | 5    | 1    | 1    | 2   | 1    |  |
| Oil and Grease Resistance      | 6        | 6   | 5    | 6    | 6    | 4    | 1    | 2    | 1    | 1    | 1    | 1    | 2   | 1    |  |
| Acid Resistance                | 3        | 3   | 3    | 3    | 2    | 1    | 4    | 2    | 5    | 5    | 4    | 1    | 6   | 1    |  |
| Alkali Resistance              | 3        | 3   | 3    | 3    | 2    | 2    | 3    | 2    | 5    | 5    | 4    | 1    | 6   | 1    |  |
| Resistance to Hot Water        | 3        | 3   | 2    | 3    | 1    | 2    | 3    | 3    | 5    | 5    | 4    | 2    | 6   | 1    |  |

1 = Excellent    2 = Very Good    3 = Good    4 = Moderate    5 = Poor    6 = Insufficient

When choosing the material for your application, the table above can be used to select the material with the most appropriate properties.

For example, where an application has oil and grease present, NBR, AU, SI, FSI FPM and PTFE materials are suitable.

Contact our technical staff for more advice on the suitability of the materials shown.

# Polymer Block Chain Types

## Simplex roller chain

| Type Number                      | Profile without Blocks | Chain No. |         | Chain Fitted with Material Type |     |     |
|----------------------------------|------------------------|-----------|---------|---------------------------------|-----|-----|
|                                  |                        | NR        | NBR     | PUR                             | FPM | SI  |
| Based on 08B-1<br>0.500" Pitch   | 1850                   | 1208770   | -       | -                               | -   | -   |
| 1870                             | 0520                   | -         | MIN     | 1208781                         | MIN | ENQ |
| 2720                             | -                      | MIN       | MIN     | MIN                             | ENQ | ENQ |
| 2750                             | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 4740                             | -                      | MIN       | 1208782 | MIN                             | ENQ | ENQ |
| 5800                             | -                      | MIN       | 1208783 | TR                              | ENQ | ENQ |
|                                  |                        |           | 1208784 | TR                              | ENQ | ENQ |
| Based on 12B-1<br>0.750" Pitch   | 5130                   | 1208775   | -       | -                               | -   | -   |
| 5350                             | 4680                   | -         | MIN     | 1208788                         | TR  | ENQ |
|                                  | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| Based on ANSI 80<br>1.000" Pitch | 0641                   | 1208779   | -       | -                               | -   | -   |
| 1120                             | 0570                   | -         | MIN     | 1208792                         | TR  | ENQ |
| 1300                             | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 1310                             | -                      | MIN       | 1208793 | TR                              | ENQ | ENQ |
|                                  |                        | TR        | TR      | MIN                             | TR  | TR  |
| Based on 24B-1<br>1.500" Pitch   | 0839                   | 1208788   | -       | -                               | -   | -   |
|                                  | 0830                   | -         | MIN     | MIN                             | TR  | ENQ |
|                                  |                        |           |         |                                 |     | ENQ |

## Duplex roller chain

| Type Number                        | Profile without Blocks | Chain No. |         | Chain Fitted with Material Type |     |     |
|------------------------------------|------------------------|-----------|---------|---------------------------------|-----|-----|
|                                    |                        | NR        | NBR     | PUR                             | FPM | SI  |
| Based on 08B-2<br>0.500" Pitch     | 0800                   | 1208771   | -       | -                               | -   | -   |
| 0540                               | 0530                   | -         | MIN     | 1208785                         | MIN | MIN |
| 0560                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 0590                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 0610                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 0660                               | -                      | MIN       | 1208786 | MIN                             | ENQ | ENQ |
| 0810                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 0820                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 0910                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 1360                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 1760                               | -                      | MIN       | MIN     | MIN                             | ENQ | ENQ |
| 2020                               | -                      | MIN       | MIN     | TR                              | ENQ | ENQ |
| 2520                               | -                      | MIN       | 1208787 | TR                              | ENQ | ENQ |
| Based on 12B-2<br>0.750" Pitch     | 0639                   | 1208776   | -       | -                               | -   | -   |
| 0760                               | 0630                   | -         | MIN     | 1208789                         | TR  | ENQ |
| 1480                               | -                      | MIN       | 1208790 | MIN                             | ENQ | MIN |
|                                    |                        | MIN       | MIN     | TR                              | ENQ | ENQ |
| Based on ANSI 80-2<br>1.000" Pitch | 0510                   | 1208780   | -       | -                               | -   | -   |
| 1120                               | 0570                   | -         | MIN     | TR                              | TR  | TR  |
| 1300                               | -                      | TR        | TR      | TR                              | TR  | TR  |
| 1310                               | -                      | TR        | TR      | TR                              | TR  | TR  |

MIN = Made to order only. Minimum order quantity of 100M.

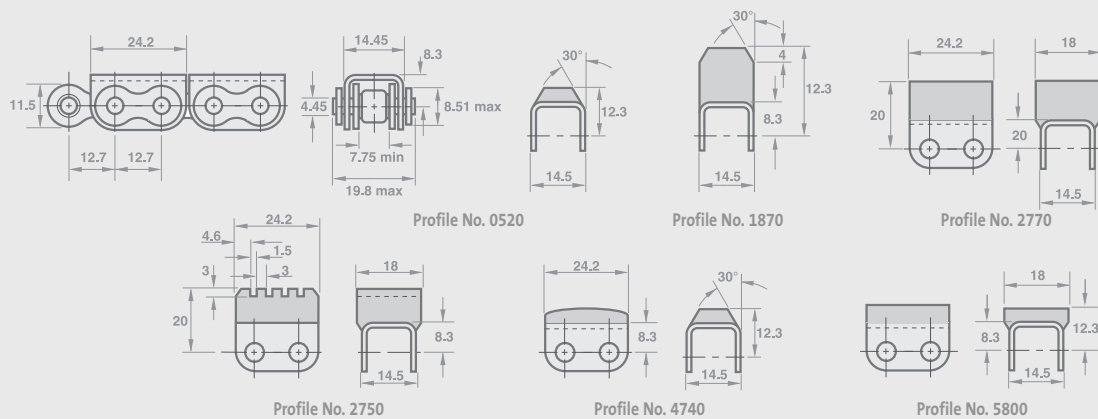
TR = A tooling charge would be applied. Minimum order quantity of 100M.

ENQ = Made to order only. Enquire for minimum order quantity

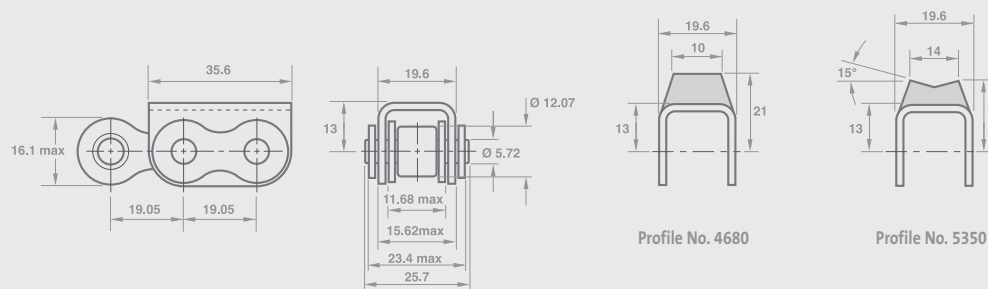
Profile Drawings and dimensions are shown on pages 60 and 61.

# Polymer Block Chain

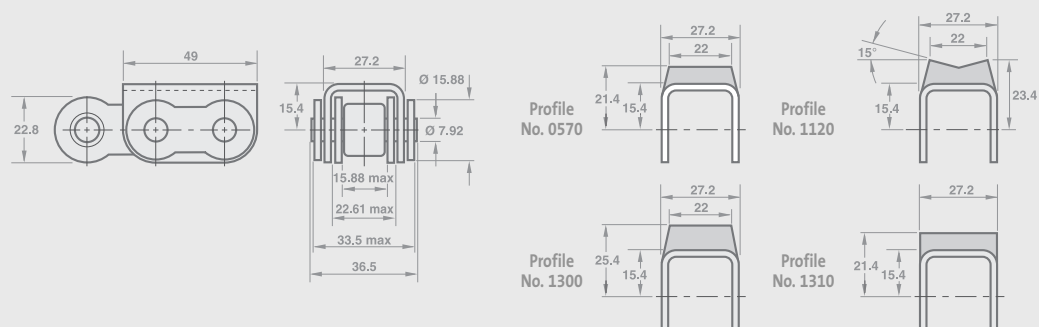
## 0.500" pitch simple chain profiles



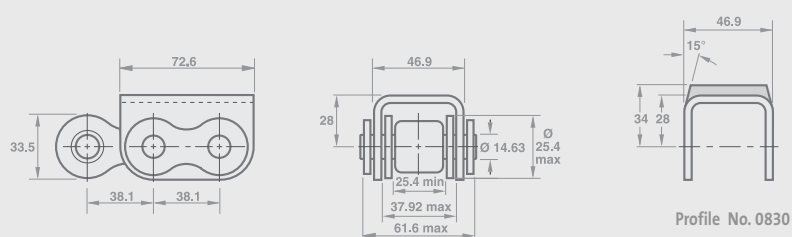
## 0.750" pitch simple chain profiles



## 1.000" pitch simple chain profiles

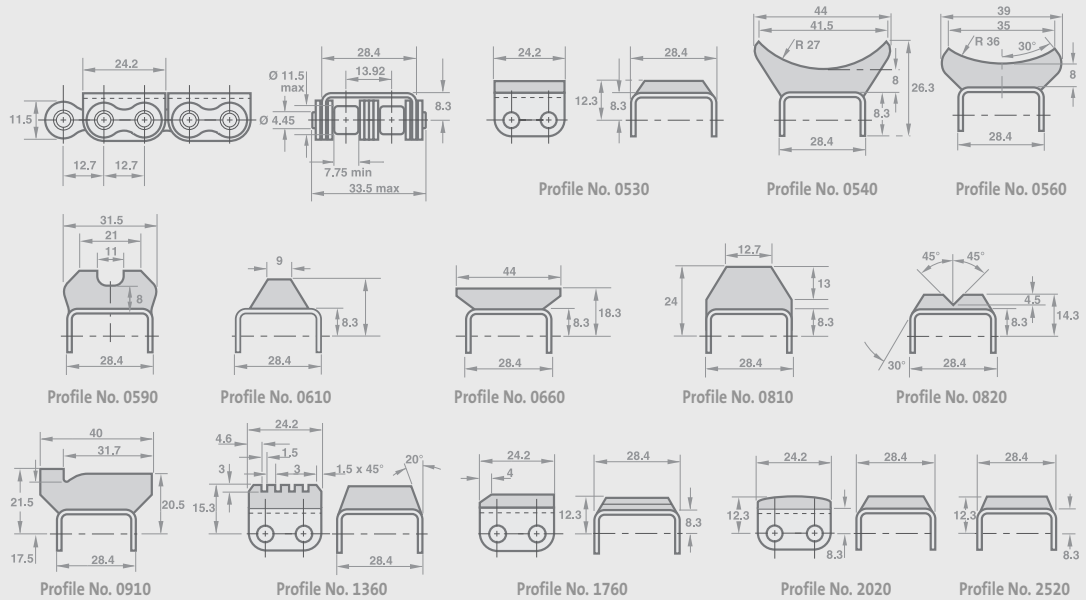


## 1.500" pitch simple chain profiles

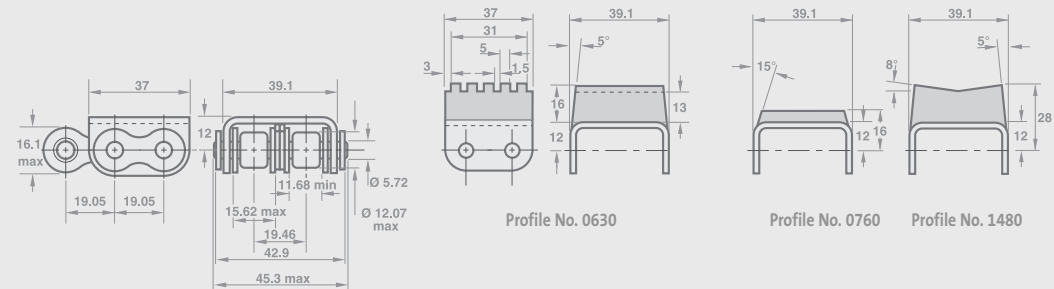


# Polymer Block Chain

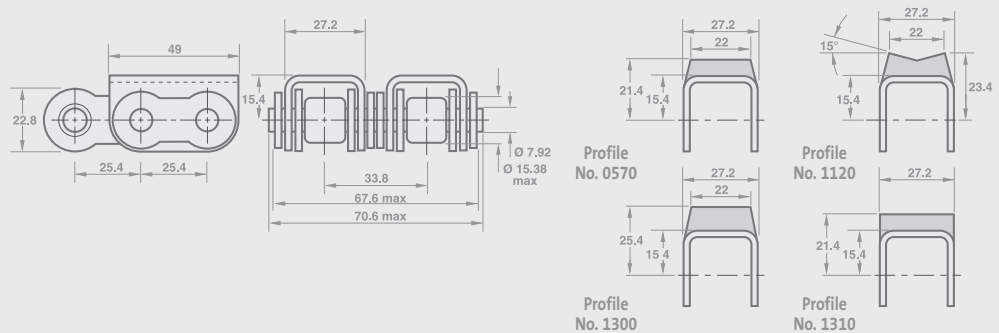
## 0.500" pitch duplex chain profiles



## 0.750" pitch duplex chain profiles



## 1.000" pitch duplex chain profiles



## Renold Smartlink

Take advantage of Renold's unique diagnostics technology to deliver maximum performance.

- Ensure the smooth running of your chain drive
- Understand loadings applied to the chain
- Diagnose problems with alignment
- Pin point potential causes of reduced chain life
- Increase your production efficiency

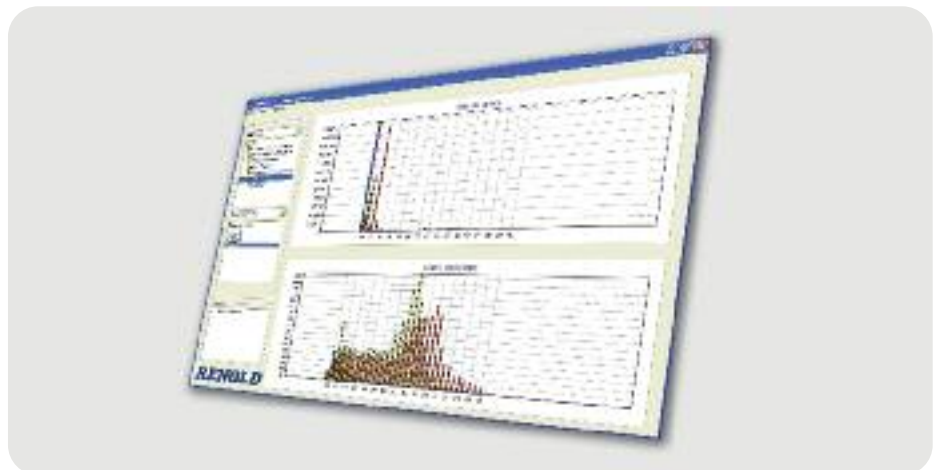
### Is Smartlink™ suitable for my application?

Is your problem caused by load?  
Then yes, Smartlink™ is for you!

Is your problem caused by wear?  
Talk to Renold about our market-leading chain range



Smartlink: The world's smallest data logger, unique to Renold



# Renold Smartlink

### Level 1

Smartlink™ can help you in different ways. With a tiny microprocessor attached to the side plate, the unit can detect the stresses experienced by the chain as it travels through your machine.

Acting as an overload detector and controlled with a small infra-red remote control unit, the system can indicate when your chain exceeds a pre-determined load. This gives you the warning you need to inspect the system and ensure that it is safe to continue running the machine. Smartlink™ gives you the ability to reset the alarm condition using the remote control.

### Level 2

To understand more about the working loads being applied to the chain drive there is a second level of diagnostics that Smartlink™ can provide using the same microprocessor unit on the chain but a higher level of sophistication in the remote handheld receiver. Using this receiver, more detailed information about the actual value of the load can be downloaded and transferred to a Windows-based PC. This data can be analysed to determine the exact location of the load peaks in the drive system.

### Level 3

Renold also has a much more sophisticated microprocessor available but this unit needs expert support, normally requiring the service of a Renold engineer. This solution would be used in situations where there are unresolved issues or in safety critical applications where an exact prediction of fatigue life is important.

Renold can work in partnership with you to resolve these sorts of issues. Having already helped major companies around the world including manufacturers of earth moving equipment, agricultural machinery, materials handling at ports and leisure rides at theme parks, Renold Smartlink™ represents a groundbreaking opportunity to fully understand system loads which may be detrimental to the perfect performance of your product.

|                                                               |                                           |                                                 |                                                                       |
|---------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|
| Chain size                                                    | 1", 1.25", 1.5" ANSI & BS                 |                                                 | From 1" to above                                                      |
| Sampling Rate                                                 | 2Hz                                       |                                                 | 4sec @ 4kHz                                                           |
| Recording Time                                                | N/A                                       | Days                                            | 1hour @ 1.3Hz                                                         |
| Resolution                                                    | 40 points of a third of the breaking load |                                                 | 200 points of a third of the breaking load                            |
| Battery life                                                  | Approximately 1 year*                     |                                                 | 5-10 hours                                                            |
| IP Protection<br>(ability to resist ingress of liquid/debris) | IP66                                      |                                                 | Depends on the installation                                           |
| Type of information                                           | Visual Alarm                              | Visual Alarm<br>Time at Level<br>Level Crossing | Waveform Data<br>Time at Level<br>Level Crossing<br>Rainflow Counting |
| Temperature Range                                             | 0-60°C**                                  |                                                 |                                                                       |

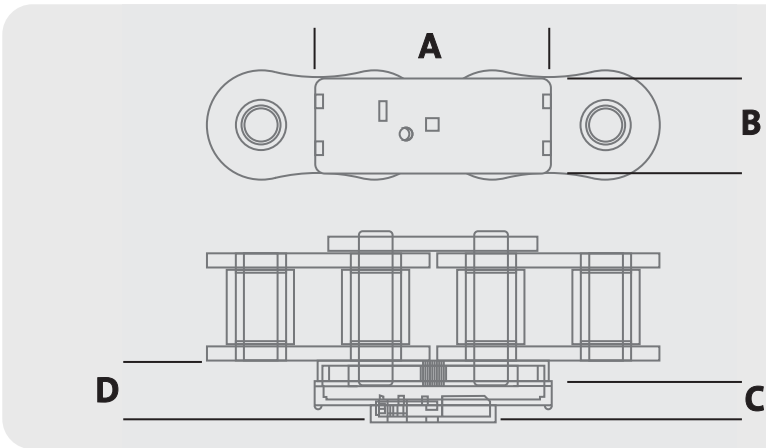
\*Battery life depends on the time the unit remains switch on, amount of transmitted information and environment conditions.

\*\*Please contact Renold if your application doesn't meet the temperature requirements.

By demonstrating actual system loads Smartlink™ technology will help you to optimise your products at an early stage. When your new product is being used for field trials, make sure Smartlink™ is present, detecting performance, giving you the full picture.

Smartlink™ is even small enough to fit on 1" pitch roller chain. Light conveying applications such as those at chocolate manufacturers in the UK have benefited from trials that have given a better understanding of loads in the whole system.

Improvements to drive layout and optimum chain selection have all been made possible by the step change in understanding which has resulted.



Dimensions for the different units.

|               | A     | B     | C     | D     |
|---------------|-------|-------|-------|-------|
| Smartlink 16B | 52.00 | 20.42 | 13.00 | 17.73 |
| Smartlink 80  | 52.00 | 20.42 | 13.00 | 17.73 |
| Smartlink 20B | 63.37 | 25.78 | 13.30 | 18.86 |
| Smartlink 100 | 63.37 | 25.78 | 13.30 | 18.86 |
| Smartlink 24B | 78.79 | 30.89 | 13.30 | 19.88 |
| Smartlink 120 | 78.79 | 30.89 | 13.30 | 19.88 |

# Roll-Ring®

## Self Adjusting Chain Tensioner

Roll-Ring® is a simple yet innovative chain tensioner made from a specially formulated polymer.

The unique design is based upon a simple toothed ring that can be fitted to horizontal, vertical or diagonal drives in a matter of seconds, simply by placing it in-between the two strands of chain. When the drive is in use, the Roll-Ring® deforms to an elliptical shape, due to compression between the strands and completely absorbs any slack in the system. Roll-Ring® performs the job of a tensioner and a damper in one, and is ideally suited to applications where maintenance is difficult or impossible.

### Technical details

Roll-Ring® chain tensioners provide tensioning using:

- Static tensioning force from the elastic ring
- Dynamic tensioning force from the damping of the working material

### Benefits

The Roll-Ring® chain tensioner provides cost effective, time saving installation and maintenance.

The advantages over other types of chain tensioners are:

- Free standing - no sprockets, bolts, plates, drilling or costly installation required
- The Roll-Ring® is easily installed where space limitations prohibit the use of conventional chain tensioners
- The Roll-Ring® is fitted in a matter of seconds
- It is ready for use without any tools, tensioning equipment or any further alignment or adjustment
- It is fully effective in vertical and diagonal drives
- The Roll-Ring® works automatically, is maintenance free and self lubricating

- It can be used in dusty and dirty environments
- The Roll-Ring® is a tensioner and damper in one, thus reducing noise levels
- Roll-Ring® also works in reverse mode

Roll-Ring® chain tensioners reduce chain wear and improve the quality and efficiency of the complete chain drive.

### The innovative tensioner

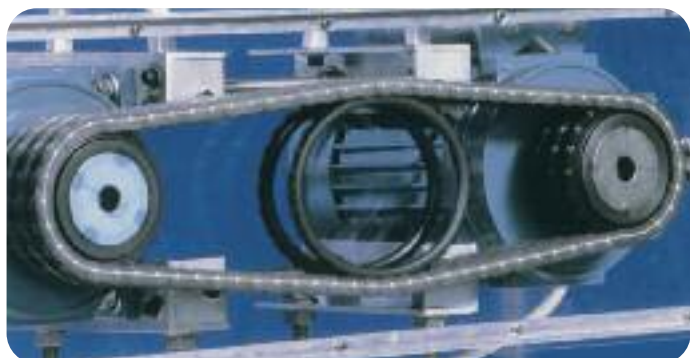
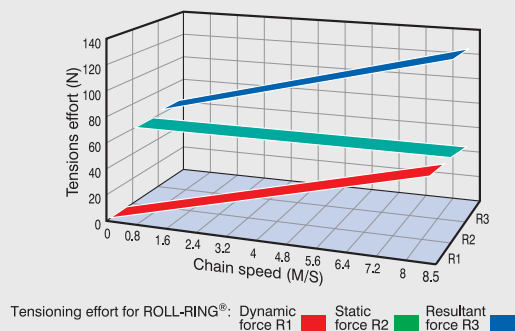
The Roll-Ring® chain tensioner is an elementary mechanism based on new principles and represents a major advance in technology:

- Roll-Ring® requires minimal technical effort
- Its operation is astonishingly simple
- All functions are integrated into a single component
- Roll-Ring® utilises the hollow space of the associated chain drive system giving greater flexibility to designers and specifiers
- Automatic positioning and self lubricating

Bottom:  
Snap-in  
installation  
▼

Top:  
Vibrations in  
an untensioned  
chain drive  
▼

Bottom:  
The Roll-Ring®  
chain tensioner  
tensions and dampens  
▼



# Roll-Ring®

## Self Adjusting Chain Tensioner

### Case study: chocolate production

A major chocolate manufacturer was experiencing serious problems with short chain life on a main production line and also had chain tensioning problems, due to the inaccessibility of the chain drives. Firstly, the short chain life (4-5 weeks) was overcome when the Renold Engineer recommended a change to nickel plated chains, which led to a new chain life of more than twelve months.

Secondly, regular downtime due to the failure of the previous chains was extended through the fitting of chain tensioners and their ongoing adjustments over time. With a time sensitive maintenance policy, the chocolate manufacturer looked for a solution to speed up the tensioning of the replacement chain and Roll-Ring® provided that simple solution.

The new Renold chain had to be adjusted to be near their ideal centres when fitted, and when the maximum compression was reached the Roll-Ring® was fitted by hand within seconds.

No further adjustments had to be carried out due to the flexibility of the Roll-Ring® design and all future chain extension is automatically taken up during the chain's life. With a large reduction in equipment downtime for tensioning adjustment, the chocolate manufacturer now enjoys significant time savings, cost savings and peace of mind.

- Saving of maintenance time for tension adjustments
- Simple installation
- Effective dampening
- Unique solution

### The new principle

The principle of the Roll-Ring® chain tensioner is based on two simple phenomena:

- The elastic ring engages with the chain drive strands and rolls between them in a pre-stressed condition taking up the shape of an ellipse
- The constantly opposing movements of the load and slack strands cancel each other out, thereby holding the Roll-Ring® in position

### Installation and maintenance

Roll-Ring® chain tensioners are maintenance free and can be fitted to a wide variety of chain drives with no installation down time.

The requirement is that:

- There is a working space with a gap between the chain strands which is smaller than the reference diameter of the chain tensioner
- There is a sufficient gap between the chain drive sprockets

We recommend that the chain tensioner is positioned between two chain strands such

that there is at least one chain pitch between the Roll-Ring® and the smallest sprocket. The Roll-Ring® can also be positioned just as effectively outside this recommended area, as long as it is sufficiently prestressed. In this case, practical trial and error are recommended.

Roll-Ring® chain tensioners can be used in line within the same chain strand, or parallel with each other in multi-strand chain drives.

Please note that triplex chain drives only require two Roll-Rings® positioned on the outer strands.



### Roll-Ring® installation and final dimensions

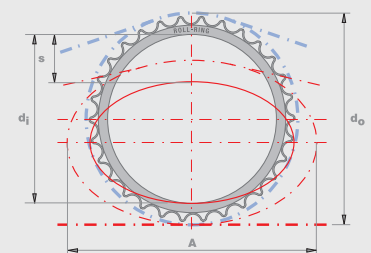
| Part No. | do    | di    | s    | A     |
|----------|-------|-------|------|-------|
| 10503001 | 76.5  | 65.0  | 20.0 | 104.0 |
| 10603001 | 91.1  | 73.0  | 25.0 | 122.0 |
| 10603601 | 109.0 | 89.5  | 25.0 | 143.0 |
| 10802601 | 102.1 | 84.5  | 24.0 | 135.8 |
| 10803001 | 121.5 | 98.0  | 28.0 | 161.6 |
| 10803401 | 137.5 | 115.4 | 30.0 | 165.0 |
| 11002601 | 128.4 | 105.0 | 28.0 | 153.0 |
| 11003001 | 148.0 | 124.6 | 33.0 | 177.0 |
| 11003401 | 170.0 | 141.0 | 38.0 | 217.0 |
| 11202601 | 155.0 | 127.6 | 35.0 | 209.5 |
| 11203001 | 182.2 | 145.0 | 40.0 | 241.7 |
| 11203401 | 207.5 | 169.5 | 45.0 | 265.0 |
| 11602601 | 207.0 | 167.0 | 45.0 | 269.0 |
| 11603001 | 245.8 | 202.0 | 50.0 | 306.0 |
| 12003001 | 303.7 | 244.0 | 60.0 | 390.0 |

Value A includes a safety distance to the sprockets

Roll-Ring® chain tensioners in one of our test rigs



Roll-Ring® chain tensioners are re-cyclable



### Key

A = Deflected PCD      S = Max deflection  
do = PCD                  di Inside Diameter

# Roll-Ring®

## Chain Tensioners Standard Product Range

| Part No. | No. of teeth | ISO reference | Renold chain reference | Maximum static expansive force **<br>(Newtons) | Maximum chain speed<br>(M/S) | Minimum ambient temperature ~<br>(°C) | Maximum ambient temperature ~<br>(°C) | Resistant to ultra violet light |
|----------|--------------|---------------|------------------------|------------------------------------------------|------------------------------|---------------------------------------|---------------------------------------|---------------------------------|
| 10503001 | 30           | 05B           | 110500                 | 2.900                                          | 5.000                        | -20                                   | 70                                    | Normal                          |
| 10603001 | 30           | 06B           | 110038                 | 15.200                                         | 5.200                        | -20                                   | 70                                    | Normal                          |
| 10603601 | 36           | 06B           | 110038                 | 28.500                                         | 5.200                        | -20                                   | 70                                    | Normal                          |
| 10802601 | 26           | 08B           | 110046                 | 15.700                                         | 7.500                        | -20                                   | 70                                    | Normal                          |
| 10803001 | 30           | 08B           | 110046                 | 22.000                                         | 8.600                        | -20                                   | 70                                    | Normal                          |
| 10803401 | 34           | 08B           | 110046                 | 22.000                                         | 8.800                        | -20                                   | 70                                    | Normal                          |
| 10843001 | 30           | 081 \ 083 *   | 111044 \ 6             | 16.800                                         | 7.500                        | -20                                   | 70                                    | Normal                          |
| 11002601 | 26           | 10B           | 110056                 | 28.200                                         | 4.200                        | -20                                   | 70                                    | Normal                          |
| 11003001 | 30           | 10B           | 110056                 | 23.000                                         | 8.800                        | -20                                   | 70                                    | Normal                          |
| 11003401 | 34           | 10B           | 110056                 | 45.100                                         | 8.800                        | -20                                   | 70                                    | Normal                          |
| 11202601 | 26           | 12B           | 110066                 | 39.200                                         | 5.400                        | -20                                   | 70                                    | Normal                          |
| 11203001 | 30           | 12B           | 110066                 | 65.000                                         | 6.200                        | -20                                   | 70                                    | Normal                          |
| 11203401 | 34           | 12B           | 110066                 | 70.500                                         | 6.400                        | -20                                   | 70                                    | Normal                          |
| 11602601 | 26           | 16B           | 110088                 | 95.700                                         | 5.700                        | -20                                   | 70                                    | Normal                          |
| 11603001 | 30           | 16B           | 110088                 | 108.500                                        | 6.200                        | -20                                   | 70                                    | Normal                          |
| 12003001 | 30           | 20B           | 110106                 | 194.000                                        | 7.000                        | -20                                   | 60                                    | Normal                          |
| 10603001 | 30           | 35            | 129033                 | 5.700                                          | 5.200                        | -20                                   | 70                                    | Normal                          |
| 10802601 | 26           | 40            | 119043                 | 15.200                                         | 7.500                        | -20                                   | 70                                    | Normal                          |
| 10803001 | 30           | 40            | 119043                 | 22.000                                         | 8.600                        | -20                                   | 70                                    | Normal                          |
| 10843001 | 30           | 41            | 119040                 | 16.800                                         | 7.500                        | -20                                   | 70                                    | Normal                          |
| 11002601 | 26           | 50            | 119053                 | 28.200                                         | 4.200                        | -20                                   | 70                                    | Normal                          |
| 11003001 | 30           | 50            | 119053                 | 23.000                                         | 8.800                        | -20                                   | 70                                    | Normal                          |
| 11003401 | 34           | 50            | 119053                 | 45.100                                         | 8.800                        | -20                                   | 70                                    | Normal                          |
| 11202601 | 26           | 60            | 119063                 | 39.200                                         | 5.400                        | -20                                   | 70                                    | Normal                          |
| 11203001 | 30           | 60            | 119063                 | 65.000                                         | 6.200                        | -20                                   | 70                                    | Normal                          |
| 11602601 | 26           | 80            | 119083                 | 95.700                                         | 5.700                        | -20                                   | 70                                    | Normal                          |
| 11603001 | 30           | 80            | 119083                 | 103.000                                        | 6.600                        | -20                                   | 70                                    | Normal                          |
| 12003001 | 30           | 100           | 119103                 | 194.000                                        | 7.000                        | -20                                   | 60                                    | Normal                          |
| 20802601 | 26           | 08B           | 110046                 | 13.500                                         | 7.100                        | -20                                   | 70                                    | High #                          |
| 20803001 | 30           | 08B           | 110046                 | 20.400                                         | 7.400                        | -20                                   | 70                                    | High #                          |
| 20843001 | 30           | 081 \ 083 *   | 111044 \ 6             | 15.400                                         | 6.800                        | -20                                   | 70                                    | High #                          |
| 21003001 | 30           | 10B           | 110056                 | 20.000                                         | 7.800                        | -20                                   | 70                                    | High #                          |
| 21202601 | 26           | 12B           | 110066                 | 37.000                                         | 5.000                        | -20                                   | 70                                    | High #                          |
| 21203001 | 30           | 12B           | 110066                 | 52.000                                         | 5.600                        | -20                                   | 70                                    | High #                          |
| 21603001 | 30           | 16B           | 110088                 | 100.600                                        | 5.800                        | -20                                   | 70                                    | High #                          |
| 22003001 | 30           | 20B           | 110106                 | 165.800                                        | 6.300                        | -15                                   | 60                                    | High #                          |

# Ultra Violet resistant Roll-Rings® for use in equipment where the Roll-Ring® is exposed to Ultra Violet Light ie. agricultural machinery, community service equipment, building machines etc.

~ For special operational temperatures lower or higher than those listed please consult Renold.

\* To fit all roller chain widths from 1/8 to 5/16".

\*\* At 20°C maximum adjustment, without dynamic expansive force proportional to chain speed.

NB Ultra Violet resistant Roll-Rings® have different mechanical properties to the standard Roll-Ring® which could result in a lower service life.

The above information is based on current knowledge and experience, we reserve the right to make modifications as part of our technical product improvement programme.

Registered trademark 641 683 from Ebert Kettenspannick GmbH.

The range of ROLL-RING® products continues to increase. Please consult Renold to discuss your particular requirements.

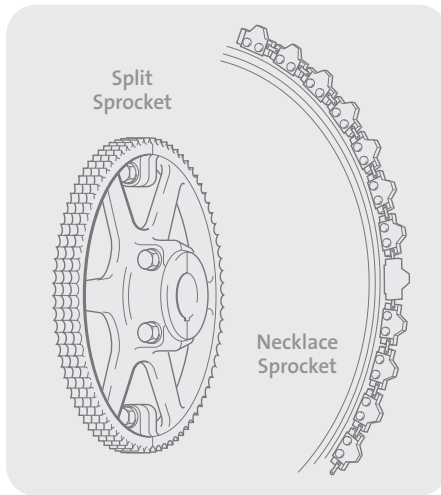
### Industries

#### Typical applications:

- Agricultural machinery
- Baggage handling
- Cardboard manufacture
- Chocolate manufacture
- Ground compression machines
- Kiln conveyors
- Manufacture of drive systems
- Manufacture of pressing plants
- Paper cutting machines
- Printing machines
- Road building machines
- Robotics
- Roller drive systems
- Tile manufacture
- Transport systems
- Wood chip conveying

# Transmission Sprocket Details

## Sprockets for Roller Chain



Renold manufacture a comprehensive range of stock sprockets for British Standard chain up to two inch pitch.

Other sizes of sprocket, including those to American Standard dimensions, are available on request.

Special sprockets are also manufactured on request, in special materials or formats, normally to suit a specific application in harsh or difficult drive situations, examples being:

- Sprockets incorporating shafts
- Welded or detachable hubs
- Shear pin devices fitted
- Necklace sprockets made up of chain plates and individual tooth sections for turning large drums or tables
- Combination sprockets (two or more sprockets combined having different pitch sizes and numbers of teeth)
- Sprockets in two or more sections, i.e. split sprockets or segmental sprockets

| Sprocket     | Smooth Running | Moderate Shocks                                            | Heavy Shocks                                               |
|--------------|----------------|------------------------------------------------------------|------------------------------------------------------------|
| Up to 29T    | EN8 or EN9     | EN8 or EN9 Hardened & Tempered or Case Hardened Mild Steel | EN8 or EN9 Hardened & Tempered or Case Hardened Mild Steel |
| 30T and Over | Cast Iron      | Mild Steel or Meehanite                                    | EN8 or EN9 Hardened & Tempered or Case Hardened Mild Steel |

### Selection of sprocket materials

Choice of material and heat treatment will depend upon shape, diameter and mass of the sprocket. The table above can be used as a simple guide on the correct selection of sprocket material.

### Sprocket and chain compatibility

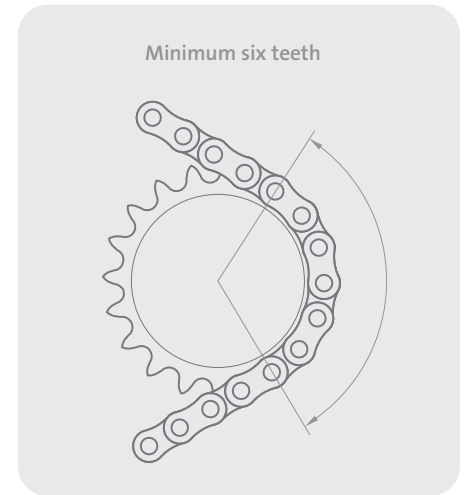
Most drives have an even number of pitches in the chain and by using a driver sprocket with an odd number of teeth, uniform wear distribution over both chain and sprocket teeth is ensured. Even numbers of teeth for both the driver and driven sprockets can be used, but wear distribution on both the sprocket teeth and chain is poor.

### Number of teeth

The maximum number of teeth in any driven sprocket should not exceed 114. This limitation is due to the fact that for a given elongation of chain due to wear, the working pitch diameter of the chain on the sprocket increases in relation to the nominal pitch diameter, i.e. the chain assumes a higher position on the sprocket tooth. The allowable safe chain wear is considered to be in the order of 2% elongation over nominal length.

A simple formula for determining how much chain elongation a sprocket can accommodate is  $\frac{200}{N}$

expressed as a percentage where N is the number of teeth on the largest sprocket in the drive system.



It is good practice to have the sum of teeth not less than 50 where both the driver and driven sprockets are operated by the same chain, e.g. on a 1:1 ratio drive, both sprockets should have 25 teeth each.

### Centre distance

For optimum wear life, centre distance between two sprockets should normally be within the range 30 to 50 times the chain pitch. On drive proposals with centre distances below 30 pitches or greater than 2m, we would recommend that the drive details are discussed with our technical staff.

The minimum centre distance is sometimes governed by the amount of chain lap on the driver sprocket, our normal recommendation in this circumstance being not less than six teeth in engagement with the chain.

The centre distance is also governed by the desirability of using a chain with an even number of pitches to avoid the use of a cranked link, a practice that is not recommended except in special circumstances.

For a drive in the horizontal plane, the shortest centre distance possible should be used consistent with recommended chain lap (minimum six teeth) on the driver sprocket.

# Transmission Sprockets

## ISO 606 [9.525mm/0.375" Pitch]

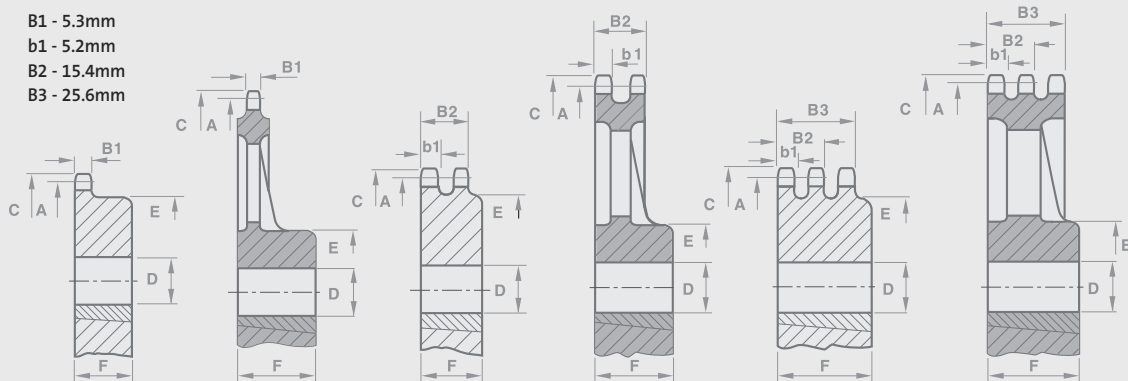
Tooth Width SIMPLEX  
Tooth Width  
Tooth Width DUPLEX  
Tooth Width TRIPLEX

B1 - 5.3mm  
b1 - 5.2mm  
B2 - 15.4mm  
B3 - 25.6mm

Key

Steel

Cast Iron



| Technical Details (mm) |     |           | Simplex  |      |      |      |             | Duplex   |      |      |      |             | Triplex  |      |      |      |             |
|------------------------|-----|-----------|----------|------|------|------|-------------|----------|------|------|------|-------------|----------|------|------|------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |

### Plain Bore - steel

|    | A      | C     |          | D    | D    | E    | F    |          | D    | D    | E    | F    |          | D    | D    | E    | F    |
|----|--------|-------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|
| 11 | 33.80  | 37.5  | 06B1/11T | 8.0  | 14.0 | 22.0 | 25.0 | 06B2/11T | 10.0 | 14.0 | 22.0 | 30.0 | 06B3/11T | 12.0 | 14.0 | 22.0 | 35.0 |
| 12 | 36.80  | 40.5  | 06B1/12T | 8.0  | 16.0 | 25.0 | 25.0 | 06B2/12T | 10.0 | 16.0 | 25.0 | 30.0 | 06B3/12T | 12.0 | 16.0 | 25.0 | 35.0 |
| 13 | 39.80  | 43.5  | 06B1/13T | 10.0 | 16.0 | 28.0 | 25.0 | 06B2/13T | 10.0 | 16.0 | 28.0 | 30.0 | 06B3/13T | 12.0 | 16.0 | 28.0 | 35.0 |
| 14 | 42.80  | 46.5  | 06B1/14T | 10.0 | 20.0 | 31.0 | 25.0 | 06B2/14T | 10.0 | 20.0 | 31.0 | 30.0 | 06B3/14T | 12.0 | 22.0 | 31.0 | 35.0 |
| 15 | 45.81  | 49.5  | 06B1/15T | 10.0 | 22.0 | 34.0 | 25.0 | 06B2/15T | 10.0 | 22.0 | 34.0 | 30.0 | 06B3/15T | 12.0 | 22.0 | 34.0 | 35.0 |
| 16 | 48.82  | 52.5  | 06B1/16T | 10.0 | 22.0 | 37.0 | 28.0 | -        | -    | -    | -    | -    | -        | -    | -    | -    | -    |
| 17 | 51.83  | 55.5  | 06B1/17T | 10.0 | 25.0 | 40.0 | 28.0 | 06B2/17T | 12.0 | 25.0 | 40.0 | 30.0 | 06B3/17T | 12.0 | 25.0 | 40.0 | 35.0 |
| 18 | 54.85  | 58.6  | 06B1/18T | 10.0 | 25.0 | 43.0 | 28.0 | -        | -    | -    | -    | -    | -        | -    | -    | -    | -    |
| 19 | 57.87  | 61.6  | 06B1/19T | 10.0 | 28.0 | 46.0 | 28.0 | 06B2/19T | 12.0 | 28.0 | 46.0 | 30.0 | 06B3/19T | 12.0 | 28.0 | 46.0 | 35.0 |
| 20 | 60.89  | 64.6  | 06B1/20T | 10.0 | 30.0 | 46.0 | 28.0 | 06B2/20T | 12.0 | 30.0 | 49.0 | 30.0 | 06B3/20T | 12.0 | 30.0 | 49.0 | 35.0 |
| 21 | 63.91  | 67.6  | 06B1/21T | 12.0 | 32.0 | 48.0 | 28.0 | 06B2/21T | 16.0 | 35.0 | 52.0 | 30.0 | 06B3/21T | 16.0 | 35.0 | 52.0 | 40.0 |
| 22 | 66.93  | 70.6  | 06B1/22T | 12.0 | 32.0 | 50.0 | 28.0 | -        | -    | -    | -    | -    | -        | -    | -    | -    | -    |
| 23 | 69.95  | 73.7  | 06B1/23T | 12.0 | 38.0 | 52.0 | 28.0 | 06B2/23T | 16.0 | 42.0 | 58.0 | 30.0 | 06B3/23T | 16.0 | 42.0 | 58.0 | 40.0 |
| 24 | 72.97  | 76.7  | 06B1/24T | 12.0 | 38.0 | 54.0 | 28.0 | -        | -    | -    | -    | -    | -        | -    | -    | -    | -    |
| 25 | 76.00  | 79.7  | 06B1/25T | 12.0 | 38.0 | 57.0 | 28.0 | 06B2/25T | 16.0 | 42.0 | 64.0 | 30.0 | 06B3/25T | 16.0 | 42.0 | 64.0 | 40.0 |
| 26 | 79.02  | 82.7  | 06B1/26T | 12.0 | 38.0 | 60.0 | 28.0 | -        | -    | -    | -    | -    | -        | -    | -    | -    | -    |
| 27 | 82.04  | 85.7  | 06B1/27T | 12.0 | 38.0 | 60.0 | 28.0 | 06B2/27T | 16.0 | 42.0 | 70.0 | 30.0 | 06B3/27T | 16.0 | 42.0 | 70.0 | 40.0 |
| 30 | 91.12  | 94.8  | 06B1/30T | 12.0 | 35.0 | 60.0 | 28.0 | 06B2/30T | 16.0 | 40.0 | 79.0 | 30.0 | 06B3/30T | 16.0 | 45.0 | 79.0 | 40.0 |
| 38 | 115.34 | 119.0 | 06B1/38T | 16.0 | 42.0 | 70.0 | 30.0 | 06B2/38T | 16.0 | 50.0 | 90.0 | 30.0 | 06B3/38T | 16.0 | 55.0 | 90.0 | 40.0 |

### Plain bore - heavy duty cast iron

|     | A      | C     |           | D    | D    | E    | F    |           | D    | D    | E     | F    |           | D    | D    | E     | F    |
|-----|--------|-------|-----------|------|------|------|------|-----------|------|------|-------|------|-----------|------|------|-------|------|
| 57  | 172.94 | 177.5 | 06B1/57T  | 19.0 | 45.0 | 80.0 | 25.0 | 06B2/57T  | 24.0 | 50.0 | 90.0  | 25.0 | 06B3/57T  | 28.0 | 55.0 | 95.0  | 38.0 |
| 76  | 230.49 | 235.1 | 06B1/76T  | 19.0 | 45.0 | 80.0 | 25.0 | 06B2/76T  | 24.0 | 50.0 | 90.0  | 25.0 | 06B3/76T  | 28.0 | 65.0 | 110.0 | 45.0 |
| 95  | 288.08 | 292.7 | 06B1/95T  | 24.0 | 50.0 | 90.0 | 25.0 | 06B2/95T  | 28.0 | 55.0 | 95.0  | 38.0 | 06B3/95T  | 28.0 | 65.0 | 110.0 | 45.0 |
| 114 | 345.68 | 350.3 | 06B1/114T | 24.0 | 50.0 | 90.0 | 38.0 | 06B2/114T | 28.0 | 55.0 | 95.0  | 38.0 | 06B3/114T | 28.0 | 65.0 | 110.0 | 52.0 |
| 150 | 454.81 | 461.2 | 06B1/150T | 24.0 | 50.0 | 90.0 | 45.0 | 06B2/150T | 35.0 | 65.0 | 110.0 | 52.0 | -         | -    | -    | -     | -    |

| Technical Details (mm) |     |           | Simplex  |            |            |             |  | Duplex   |            |            |             |  | Triplex  |            |            |             |  |
|------------------------|-----|-----------|----------|------------|------------|-------------|--|----------|------------|------------|-------------|--|----------|------------|------------|-------------|--|
| No. of Teeth           | PCD | Top Diam. | Part No. | Taper Bush | Bore Diam. | Dist. Thro. |  | Part No. | Taper Bush | Bore Diam. | Dist. Thro. |  | Part No. | Taper Bush | Bore Diam. | Dist. Thro. |  |
|                        |     |           |          |            | MIN        | MAX         |  |          |            | MIN        | MAX         |  |          |            | MIN        | MAX         |  |

### Taper bore - steel

|    | A      | C     |           |        | E    | F    |           |        | E    | F    |           |        | E    | F    |
|----|--------|-------|-----------|--------|------|------|-----------|--------|------|------|-----------|--------|------|------|
| 17 | 51.83  | 55.5  | T06B1/17T | TB1008 | 45.0 | 22.0 | T06B2/17T | TB1008 | 41.0 | 22.0 | T06B3/17T | TB1008 | -    | 25.6 |
| 19 | 57.87  | 61.6  | T06B1/19T | TB1008 | 45.0 | 22.0 | T06B2/19T | TB1008 | 46.0 | 22.0 | T06B3/19T | TB1008 | -    | 25.6 |
| 21 | 63.91  | 67.6  | T06B1/21T | TB1008 | 46.0 | 22.0 | T06B2/21T | TB1008 | 49.0 | 22.0 | T06B3/21T | TB1008 | -    | 25.6 |
| 23 | 69.95  | 73.7  | T06B1/23T | TB1210 | 63.0 | 25.0 | T06B2/23T | TB1210 | 59.0 | 25.0 | T06B3/23T | TB1210 | -    | 25.6 |
| 25 | 76.00  | 79.7  | T06B1/25T | TB1210 | 63.0 | 25.0 | T06B2/25T | TB1210 | 64.0 | 25.0 | T06B3/25T | TB1210 | -    | 25.6 |
| 38 | 115.34 | 119.0 | T06B1/38T | TB1210 | 70.0 | 25.0 | T06B2/38T | TB1610 | 80.0 | 25.0 | T06B3/38T | TB1615 | 90.0 | 38.0 |

### Taper bore - heavy duty cast iron

|     | A      | C     |            |        | E    | F    |            |        | E    | F    |           |        | E     | F    |
|-----|--------|-------|------------|--------|------|------|------------|--------|------|------|-----------|--------|-------|------|
| 57  | 172.94 | 177.5 | T06B1/57T  | TB1210 | 80.0 | 25.0 | T06B2/57T  | TB1610 | 90.0 | 25.0 | T06B3/57T | TB1615 | 95.0  | 38.0 |
| 76  | 230.49 | 235.1 | T06B1/76T  | TB1210 | 80.0 | 25.0 | T06B2/76T  | TB1610 | 90.0 | 25.0 | T06B3/76T | TB2017 | 110.0 | 45.0 |
| 95  | 288.08 | 292.7 | T06B1/95T  | TB1210 | 90.0 | 25.0 | T06B2/95T  | TB1615 | 95.0 | 38.0 | -         | -      | -     | -    |
| 114 | 345.68 | 350.3 | T06B1/114T | TB1615 | 90.0 | 38.0 | T06B2/114T | TB1615 | 95.0 | 38.0 | -         | -      | -     | -    |

# Transmission Sprockets

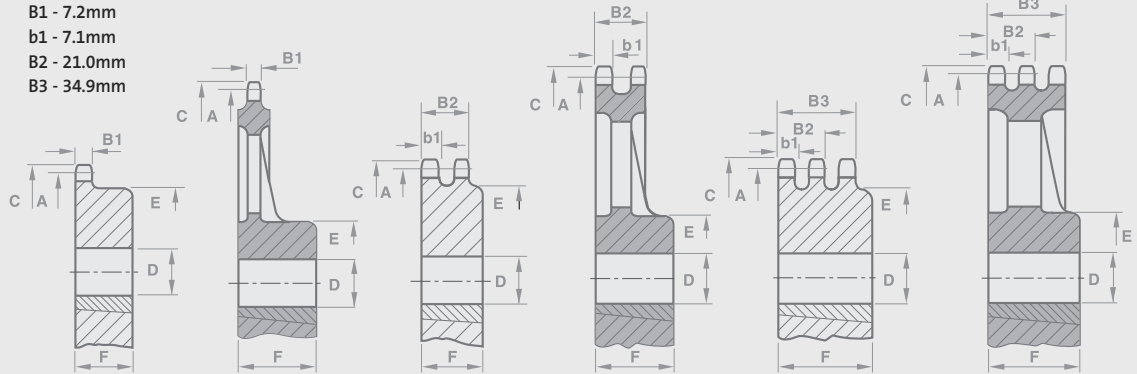
ISO 606 [12.7mm/0.500" Pitch]

Tooth Width SIMPLEX  
Tooth Width  
Tooth Width DUPLEX  
Tooth Width TRIPLEX

B1 - 7.2mm  
b1 - 7.1mm  
B2 - 21.0mm  
B3 - 34.9mm

Key

 Steel  
 Cast Iron



| Technical Details (mm) |     |           | Simplex  |      |      |            | Duplex      |          |      |      |            | Triplex     |          |      |      |            |             |
|------------------------|-----|-----------|----------|------|------|------------|-------------|----------|------|------|------------|-------------|----------|------|------|------------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |            |             |          | MIN  | MAX  |            |             |          | MIN  | MAX  |            |             |

## Plain Bore - steel

|    | A      | C     |          | D    | D    | E    | F    |          | D    | D    | E     | F    |          | D    | D    | E     | F    |
|----|--------|-------|----------|------|------|------|------|----------|------|------|-------|------|----------|------|------|-------|------|
| 11 | 45.07  | 49.9  | 08B1/11T | 10.0 | 19.0 | 29.0 | 25.0 | 08B2/11T | 12.0 | 20.0 | 32.0  | 35.0 | 08B3/11T | 16.0 | 20.0 | 32.0  | 50.0 |
| 12 | 49.07  | 53.9  | 08B1/12T | 10.0 | 22.0 | 33.0 | 28.0 | 08B2/12T | 12.0 | 22.0 | 35.0  | 35.0 | 08B3/12T | 16.0 | 22.0 | 35.0  | 50.0 |
| 13 | 53.07  | 57.9  | 08B1/13T | 10.0 | 25.0 | 37.0 | 28.0 | 08B2/13T | 12.0 | 25.0 | 38.0  | 35.0 | 08B3/13T | 16.0 | 25.0 | 38.0  | 50.0 |
| 14 | 57.07  | 61.9  | 08B1/14T | 10.0 | 25.0 | 41.0 | 28.0 | 08B2/14T | 12.0 | 28.0 | 42.0  | 35.0 | 08B3/14T | 16.0 | 28.0 | 42.0  | 50.0 |
| 15 | 61.09  | 65.9  | 08B1/15T | 10.0 | 32.0 | 45.0 | 28.0 | 08B2/15T | 12.0 | 32.0 | 46.0  | 35.0 | 08B3/15T | 16.0 | 32.0 | 46.0  | 50.0 |
| 16 | 65.10  | 69.9  | 08B1/16T | 12.0 | 33.0 | 50.0 | 28.0 | -        | -    | -    | -     | -    | -        | -    | -    | -     | -    |
| 17 | 69.11  | 74.0  | 08B1/17T | 12.0 | 35.0 | 52.0 | 28.0 | 08B2/17T | 16.0 | 38.0 | 54.0  | 38.0 | 08B3/17T | 16.0 | 38.0 | 54.0  | 50.0 |
| 18 | 73.14  | 78.0  | 08B1/18T | 12.0 | 35.0 | 56.0 | 28.0 | -        | -    | -    | -     | -    | -        | -    | -    | -     | -    |
| 19 | 77.16  | 82.0  | 08B1/19T | 12.0 | 40.0 | 60.0 | 28.0 | 08B2/19T | 16.0 | 42.0 | 62.0  | 38.0 | 08B3/19T | 16.0 | 42.0 | 62.0  | 50.0 |
| 20 | 81.18  | 86.0  | 08B1/20T | 12.0 | 42.0 | 64.0 | 28.0 | 08B2/20T | 16.0 | 42.0 | 66.0  | 38.0 | 08B3/20T | 16.0 | 42.0 | 66.0  | 50.0 |
| 21 | 85.22  | 90.1  | 08B1/21T | 14.0 | 45.0 | 68.0 | 28.0 | 08B2/21T | 16.0 | 45.0 | 70.0  | 40.0 | 08B3/21T | 16.0 | 45.0 | 70.0  | 55.0 |
| 22 | 89.24  | 94.1  | 08B1/22T | 14.0 | 45.0 | 70.0 | 28.0 | -        | -    | -    | -     | -    | -        | -    | -    | -     | -    |
| 23 | 93.27  | 98.1  | 08B1/23T | 14.0 | 45.0 | 70.0 | 28.0 | 08B2/23T | 16.0 | 45.0 | 70.0  | 40.0 | 08B3/23T | 16.0 | 45.0 | 70.0  | 55.0 |
| 24 | 97.29  | 102.1 | 08B1/24T | 14.0 | 45.0 | 70.0 | 28.0 | -        | -    | -    | -     | -    | -        | -    | -    | -     | -    |
| 25 | 101.33 | 106.2 | 08B1/25T | 14.0 | 45.0 | 70.0 | 28.0 | 08B2/25T | 16.0 | 48.0 | 80.0  | 40.0 | 08B3/25T | 16.0 | 48.0 | 80.0  | 55.0 |
| 26 | 105.36 | 110.2 | 08B1/26T | 16.0 | 45.0 | 70.0 | 30.0 | -        | -    | -    | -     | -    | -        | -    | -    | -     | -    |
| 27 | 109.40 | 114.2 | 08B1/27T | 16.0 | 45.0 | 70.0 | 30.0 | 08B2/27T | 16.0 | 58.0 | 85.0  | 40.0 | 08B3/27T | 20.0 | 58.0 | 85.0  | 55.0 |
| 30 | 121.50 | 126.3 | 08B1/30T | 16.0 | 48.0 | 80.0 | 30.0 | 08B2/30T | 16.0 | 60.0 | 100.0 | 40.0 | 08B3/30T | 20.0 | 60.0 | 100.0 | 55.0 |
| 38 | 153.80 | 158.6 | 08B1/38T | 16.0 | 60.0 | 90.0 | 35.0 | 08B2/38T | 20.0 | 60.0 | 100.0 | 40.0 | 08B3/38T | 25.0 | 72.0 | 120.0 | 55.0 |

## Plain bore - heavy duty cast iron

|     | A      | C     |           | D    | D    | E     | F    |           | D    | D    | E     | F    |           | D    | D    | E     | F    |
|-----|--------|-------|-----------|------|------|-------|------|-----------|------|------|-------|------|-----------|------|------|-------|------|
| 57  | 230.54 | 237.1 | 08B1/57T  | 19.0 | 60.0 | 110.0 | 32.0 | 08B2/57T  | 28.0 | 65.0 | 110.0 | 32.0 | 08B3/57T  | 28.0 | 65.0 | 110.0 | 45.0 |
| 76  | 307.33 | 313.9 | 08B1/76T  | 19.0 | 60.0 | 110.0 | 32.0 | 08B2/76T  | 38.0 | 65.0 | 110.0 | 45.0 | 08B3/76T  | 38.0 | 75.0 | 130.0 | 64.0 |
| 95  | 384.11 | 390.7 | 08B1/95T  | 24.0 | 50.0 | 90.0  | 45.0 | 08B2/95T  | 38.0 | 65.0 | 110.0 | 52.0 | 08B3/95T  | 38.0 | 75.0 | 130.0 | 64.0 |
| 114 | 460.90 | 467.4 | 08B1/114T | 34.0 | 50.0 | 90.0  | 45.0 | 08B2/114T | 38.0 | 65.0 | 110.0 | 58.0 | 08B3/114T | 38.0 | 75.0 | 130.0 | 72.0 |

| Technical Details (mm) |     |           | Simplex  |            |            |             | Duplex   |            |            |             | Triplex  |            |            |             |
|------------------------|-----|-----------|----------|------------|------------|-------------|----------|------------|------------|-------------|----------|------------|------------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Taper Bush | Boss Diam. | Dist. Thro. | Part No. | Taper Bush | Boss Diam. | Dist. Thro. | Part No. | Taper Bush | Boss Diam. | Dist. Thro. |
|                        |     |           |          |            | MIN        | MAX         |          |            | MIN        | MAX         |          |            | MIN        | MAX         |

## Taper bore - steel

|    | A      | C     |           |        | E    | F    |           |        | E    | F    |           |        | E    | F    |
|----|--------|-------|-----------|--------|------|------|-----------|--------|------|------|-----------|--------|------|------|
| 15 | 61.08  | 65.9  | T08B1/15T | TB1008 | 45.0 | 22.0 | T08B2/15T | TB1008 | 48.0 | 22.0 | -         | -      | -    | -    |
| 17 | 69.12  | 74.0  | T08B1/17T | TB1210 | 60.0 | 25.0 | T08B2/17T | TB1210 | 56.0 | 25.0 | -         | -      | -    | -    |
| 19 | 77.16  | 82.0  | T08B1/19T | TB1210 | 63.0 | 25.0 | T08B2/19T | TB1210 | 64.0 | 25.0 | T08B3/19T | TB1215 | 62.0 | 38.0 |
| 21 | 85.21  | 90.1  | T08B1/21T | TB1610 | 71.0 | 25.0 | T08B2/21T | TB1610 | 71.0 | 25.0 | T08B3/21T | TB1615 | 70.0 | 38.0 |
| 23 | 93.27  | 98.1  | T08B1/23T | TB1610 | 76.0 | 25.0 | T08B2/23T | TB1610 | 79.0 | 25.0 | T08B3/23T | TB1615 | 70.0 | 38.0 |
| 25 | 101.33 | 106.2 | T08B1/25T | TB1610 | 76.0 | 25.0 | T08B2/25T | TB2012 | 87.0 | 32.0 | T08B3/25T | TB2017 | -    | 34.9 |

## Taper bore - heavy duty cast iron

|     | A      | C     |            |        | E     | F    |            |        | E     | F    |           |        | E     | F    |
|-----|--------|-------|------------|--------|-------|------|------------|--------|-------|------|-----------|--------|-------|------|
| 38  | 153.79 | 158.6 | T08B1/38T  | TB2012 | 90.0  | 32.0 | T08B2/38T  | TB2012 | 100.0 | 32.0 | T08B3/38T | TB2017 | -     | 34.9 |
| 57  | 230.54 | 237.1 | T08B1/57T  | TB2012 | 110.0 | 32.0 | T08B2/57T  | TB2012 | 110.0 | 32.0 | T08B3/57T | TB2017 | 110.0 | 45.0 |
| 76  | 307.33 | 313.9 | T08B1/76T  | TB2012 | 110.0 | 32.0 | T08B2/76T  | TB2012 | 110.0 | 32.0 | T08B3/76T | TB2525 | 130.0 | 64.0 |
| 95  | 384.11 | 390.7 | T08B1/95T  | TB2012 | 110.0 | 32.0 | T08B2/95T  | TB2012 | 110.0 | 32.0 | -         | -      | -     | -    |
| 114 | 460.90 | 467.4 | T08B1/114T | TB2017 | 110.0 | 32.0 | T08B2/114T | TB2517 | 125.0 | 45.0 | -         | -      | -     | -    |

Rebore, keyway and setscrew modification service available - see page 75

# Transmission Sprockets

ISO 606 [15.875mm/0.625" Pitch]

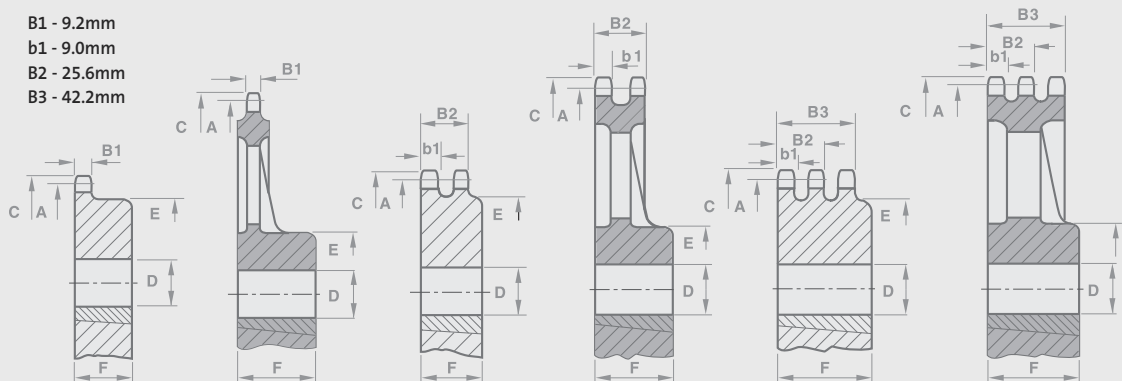
Tooth Width SIMPLEX  
Tooth Width  
Tooth Width DUPLEX  
Tooth Width TRIPLEX

B1 - 9.2mm  
b1 - 9.0mm  
B2 - 25.6mm  
B3 - 42.2mm

Key

Steel

Cast Iron



| Technical Details (mm) |     |           | Simplex  |      |      |      |             | Duplex   |      |      |      |             | Triplex  |      |      |      |             |
|------------------------|-----|-----------|----------|------|------|------|-------------|----------|------|------|------|-------------|----------|------|------|------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |

## Plain Bore - steel

|    | A      | C     |          | D    | D    | E     | F    |          | D    | D    | E     | F    |   | D | D | E | F |
|----|--------|-------|----------|------|------|-------|------|----------|------|------|-------|------|---|---|---|---|---|
| 11 | 56.34  | 63.2  | 10B1/11T | 12.0 | 25.0 | 37.0  | 30.0 | 10B2/11T | 16.0 | 25.0 | 39.0  | 40.0 | - | - | - | - | - |
| 12 | 61.34  | 68.2  | 10B1/12T | 12.0 | 28.0 | 42.0  | 30.0 | 10B2/12T | 16.0 | 28.0 | 44.0  | 40.0 | - | - | - | - | - |
| 13 | 66.32  | 73.2  | 10B1/13T | 12.0 | 30.0 | 47.0  | 30.0 | 10B2/13T | 16.0 | 30.0 | 49.0  | 40.0 | - | - | - | - | - |
| 14 | 71.34  | 78.2  | 10B1/14T | 12.0 | 32.0 | 52.0  | 30.0 | 10B2/14T | 16.0 | 30.0 | 54.0  | 40.0 | - | - | - | - | - |
| 15 | 76.36  | 83.2  | 10B1/15T | 12.0 | 32.0 | 57.0  | 30.0 | 10B2/15T | 16.0 | 36.0 | 59.0  | 40.0 | - | - | - | - | - |
| 16 | 81.37  | 88.3  | 10B1/16T | 12.0 | 36.0 | 60.0  | 30.0 | -        | -    | -    | -     | -    | - | - | - | - | - |
| 17 | 86.39  | 93.3  | 10B1/17T | 12.0 | 36.0 | 60.0  | 30.0 | 10B2/17T | 16.0 | 42.0 | 69.0  | 45.0 | - | - | - | - | - |
| 18 | 91.42  | 98.3  | 10B1/18T | 14.0 | 42.0 | 70.0  | 30.0 | -        | -    | -    | -     | -    | - | - | - | - | - |
| 19 | 96.45  | 103.3 | 10B1/19T | 14.0 | 42.0 | 70.0  | 30.0 | 10B2/19T | 16.0 | 48.0 | 79.0  | 45.0 | - | - | - | - | - |
| 20 | 101.49 | 108.4 | 10B1/20T | 14.0 | 45.0 | 75.0  | 30.0 | 10B2/20T | 16.0 | 50.0 | 84.0  | 45.0 | - | - | - | - | - |
| 21 | 106.52 | 113.4 | 10B1/21T | 16.0 | 45.0 | 75.0  | 30.0 | 10B2/21T | 16.0 | 50.0 | 85.0  | 45.0 | - | - | - | - | - |
| 22 | 111.55 | 118.4 | 10B1/22T | 16.0 | 48.0 | 80.0  | 30.0 | -        | -    | -    | -     | -    | - | - | - | - | - |
| 23 | 116.58 | 123.5 | 10B1/23T | 16.0 | 48.0 | 80.0  | 30.0 | 10B2/23T | 16.0 | 60.0 | 95.0  | 45.0 | - | - | - | - | - |
| 24 | 121.62 | 128.5 | 10B1/24T | 16.0 | 48.0 | 80.0  | 30.0 | -        | -    | -    | -     | -    | - | - | - | - | - |
| 25 | 126.66 | 133.6 | 10B1/25T | 16.0 | 48.0 | 80.0  | 30.0 | 10B2/25T | 16.0 | 65.0 | 105.0 | 45.0 | - | - | - | - | - |
| 26 | 131.70 | 138.6 | 10B1/26T | 20.0 | 50.0 | 85.0  | 35.0 | -        | -    | -    | -     | -    | - | - | - | - | - |
| 27 | 136.75 | 143.6 | 10B1/27T | 20.0 | 50.0 | 85.0  | 35.0 | -        | -    | -    | -     | -    | - | - | - | - | - |
| 30 | 151.87 | 158.8 | 10B1/30T | 20.0 | 55.0 | 90.0  | 35.0 | 10B2/30T | 20.0 | 72.0 | 120.0 | 45.0 | - | - | - | - | - |
| 38 | 192.24 | 199.1 | 10B1/38T | 20.0 | 60.0 | 100.0 | 35.0 | -        | -    | -    | -     | -    | - | - | - | - | - |

## Plain bore - heavy duty cast iron

|     | A      | C     |           | D    | D    | E     | F    |   | D | D | E | F |   | D | D | E | F |
|-----|--------|-------|-----------|------|------|-------|------|---|---|---|---|---|---|---|---|---|---|
| 57  | 288.18 | 296.6 | 10B1/57T  | 24.0 | 50.0 | 90.0  | 45.0 | - | - | - | - | - | - | - | - | - | - |
| 76  | 384.15 | 392.5 | 10B1/76T  | 28.0 | 50.0 | 90.0  | 52.0 | - | - | - | - | - | - | - | - | - | - |
| 95  | 480.14 | 488.5 | 10B1/95T  | 28.0 | 50.0 | 90.0  | 58.0 | - | - | - | - | - | - | - | - | - | - |
| 114 | 576.13 | 584.5 | 10B1/114T | 38.0 | 75.0 | 130.0 | 58.0 | - | - | - | - | - | - | - | - | - | - |

| Technical Details (mm) |     |           | Simplex  |            |      |             | Duplex   |            |      |             | Triplex  |            |      |             |
|------------------------|-----|-----------|----------|------------|------|-------------|----------|------------|------|-------------|----------|------------|------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Taper Bush | Bore | Dist. Thro. | Part No. | Taper Bush | Bore | Dist. Thro. | Part No. | Taper Bush | Bore | Dist. Thro. |
|                        |     |           |          |            | MIN  | MAX         |          |            | MIN  | MAX         |          |            | MIN  | MAX         |

## Taper bore - steel

|    | A      | C     |           |        | E    | F    |   |   | E | F |   |   | E | F |
|----|--------|-------|-----------|--------|------|------|---|---|---|---|---|---|---|---|
| 15 | 76.36  | 83.2  | T10B1/15T | TB1210 | 60.0 | 25.0 | - | - | - | - | - | - | - | - |
| 17 | 86.40  | 93.3  | T10B1/17T | TB1610 | 71.0 | 25.0 | - | - | - | - | - | - | - | - |
| 19 | 96.45  | 103.3 | T10B1/19T | TB1610 | 75.0 | 25.0 | - | - | - | - | - | - | - | - |
| 21 | 106.51 | 113.4 | T10B1/21T | TB1610 | 76.0 | 25.0 | - | - | - | - | - | - | - | - |
| 23 | 116.59 | 123.5 | T10B1/23T | TB1610 | 76.0 | 25.0 | - | - | - | - | - | - | - | - |
| 25 | 126.66 | 133.6 | T10B1/25T | TB2012 | 90.0 | 32.0 | - | - | - | - | - | - | - | - |

## Taper bore - heavy duty cast iron

|    | A      | C     |           |        | E     | F    |   |   | E | F |   |   | E | F |
|----|--------|-------|-----------|--------|-------|------|---|---|---|---|---|---|---|---|
| 38 | 151.87 | 158.8 | T10B1/38T | TB2012 | 90.0  | 32.0 | - | - | - | - | - | - | - | - |
| 57 | 288.18 | 296.6 | T10B1/57T | TB2012 | 110.0 | 32.0 | - | - | - | - | - | - | - | - |
| 76 | 384.15 | 392.5 | T10B1/76T | TB2012 | 115.0 | 32.0 | - | - | - | - | - | - | - | - |
| 95 | 480.14 | 488.5 | T10B1/95T | TB2012 | 115.0 | 45.0 | - | - | - | - | - | - | - | - |

# Transmission Sprockets

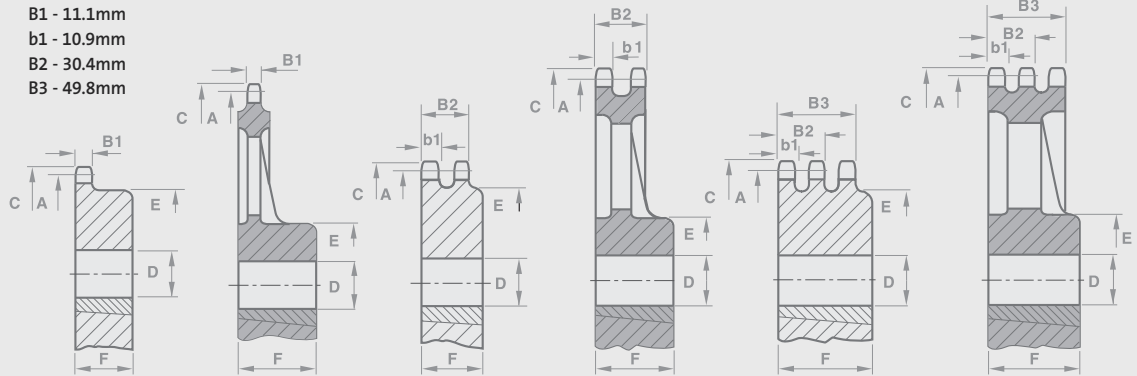
## ISO 606 [19.05mm/0.750" Pitch]

Tooth Width SIMPLEX B1 - 11.1mm  
 Tooth Width b1 - 10.9mm  
 Tooth Width DUPLEX B2 - 30.4mm  
 Tooth Width TRIPLEX B3 - 49.8mm

\* Welded Hub

### Key

 Steel  
 Cast Iron



| Technical Details (mm) |     |           | Simplex  |      |      |            | Duplex      |          |      |      |            | Triplex     |          |      |      |            |             |
|------------------------|-----|-----------|----------|------|------|------------|-------------|----------|------|------|------------|-------------|----------|------|------|------------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |            |             |          | MIN  | MAX  |            |             |          | MIN  | MAX  |            |             |

### Plain Bore - steel

|    | A      | C     |          | D    | D    | E     | F    |           | D    | D    | E     | F    |           | D    | D    | E     | F    |
|----|--------|-------|----------|------|------|-------|------|-----------|------|------|-------|------|-----------|------|------|-------|------|
| 11 | 67.62  | 75.8  | 12B1/11T | 16.0 | 30.0 | 46.0  | 35.0 | 12B2/11T  | 16.0 | 30.0 | 47.0  | 50.0 | 12B3/11T  | 20.0 | 30.0 | 47.0  | 70.0 |
| 12 | 73.60  | 81.8  | 12B1/12T | 16.0 | 32.0 | 52.0  | 35.0 | 12B2/12T  | 16.0 | 32.0 | 53.0  | 50.0 | 12B3/12T  | 20.0 | 32.0 | 53.0  | 70.0 |
| 13 | 79.59  | 87.8  | 12B1/13T | 16.0 | 38.0 | 58.0  | 35.0 | 12B2/13T  | 16.0 | 38.0 | 59.0  | 50.0 | 12B3/13T  | 20.0 | 38.0 | 59.0  | 70.0 |
| 14 | 85.61  | 93.8  | 12B1/14T | 16.0 | 42.0 | 64.0  | 35.0 | 12B2/14T  | 20.0 | 42.0 | 65.0  | 50.0 | 12B3/14T  | 20.0 | 42.0 | 65.0  | 70.0 |
| 15 | 91.63  | 99.8  | 12B1/15T | 16.0 | 48.0 | 70.0  | 35.0 | 12B2/15T  | 20.0 | 48.0 | 71.0  | 50.0 | 12B3/15T  | 20.0 | 48.0 | 71.0  | 70.0 |
| 16 | 97.65  | 105.8 | 12B1/16T | 16.0 | 50.0 | 75.0  | 35.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -    |
| 17 | 103.67 | 111.9 | 12B1/17T | 16.0 | 53.0 | 80.0  | 35.0 | 12B2/17T  | 20.0 | 50.0 | 83.0  | 50.0 | 12B3/17T  | 20.0 | 50.0 | 83.0  | 70.0 |
| 18 | 109.71 | 117.9 | 12B1/18T | 16.0 | 53.0 | 80.0  | 35.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -    |
| 19 | 115.74 | 123.9 | 12B1/19T | 16.0 | 53.0 | 80.0  | 35.0 | 12B2/19T  | 20.0 | 55.0 | 95.0  | 50.0 | 12B3/19T  | 20.0 | 55.0 | 95.0  | 70.0 |
| 20 | 121.78 | 130.0 | 12B1/20T | 16.0 | 53.0 | 80.0  | 35.0 | 12B2/20T  | 20.0 | 60.0 | 100.0 | 50.0 | 12B3/20T  | 20.0 | 60.0 | 100.0 | 70.0 |
| 21 | 127.82 | 136.1 | 12B1/21T | 20.0 | 55.0 | 90.0  | 40.0 | 12B2/21T  | 20.0 | 60.0 | 100.0 | 50.0 | 12B3/21T  | 25.0 | 60.0 | 100.0 | 70.0 |
| 22 | 133.86 | 142.1 | 12B1/22T | 20.0 | 55.0 | 90.0  | 40.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -    |
| 23 | 139.90 | 148.1 | 12B1/23T | 20.0 | 55.0 | 90.0  | 40.0 | 12B2/23T  | 20.0 | 66.0 | 110.0 | 50.0 | 12B3/23T  | 25.0 | 66.0 | 110.0 | 70.0 |
| 24 | 145.94 | 154.1 | 12B1/24T | 20.0 | 55.0 | 90.0  | 40.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -    |
| 25 | 152.00 | 160.2 | 12B1/25T | 20.0 | 55.0 | 90.0  | 40.0 | 12B2/25T  | 20.0 | 72.0 | 120.0 | 50.0 | 12B3/25T  | 25.0 | 72.0 | 120.0 | 70.0 |
| 26 | 158.04 | 166.2 | 12B1/26T | 20.0 | 55.0 | 95.0  | 40.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -    |
| 27 | 164.09 | 172.3 | 12B1/27T | 20.0 | 55.0 | 95.0  | 40.0 | 12B2/27T  | 20.0 | 72.0 | 120.0 | 50.0 | 12B3/27T  | 25.0 | 72.0 | 120.0 | 70.0 |
| 30 | 182.25 | 190.4 | 12B1/30T | 20.0 | 55.0 | 95.0  | 40.0 | 12B2/30T  | 20.0 | 72.0 | 120.0 | 50.0 | 12B3/30T  | 25.0 | 72.0 | 120.0 | 70.0 |
| 38 | 230.69 | 238.9 | 12B1/38T | 25.0 | 60.0 | 100.0 | 40.0 | 12B2/38T* | 25.0 | 72.0 | 120.0 | 50.0 | 12B3/38T* | 25.0 | 78.0 | 130.0 | 70.0 |

### Plain bore - heavy duty cast iron

|    | A      | C     |          | D    | D    | E     | F    |          | D    | D    | E     | F    |          | D    | D     | E     | F    |
|----|--------|-------|----------|------|------|-------|------|----------|------|------|-------|------|----------|------|-------|-------|------|
| 57 | 345.81 | 355.9 | 12B1/57T | 28.0 | 55.0 | 110.0 | 52.0 | 12B2/57T | 38.0 | 65.0 | 115.0 | 64.0 | 12B3/57T | 48.0 | 90.0  | 160.0 | 76.0 |
| 76 | 460.98 | 471.1 | 12B1/76T | 35.0 | 55.0 | 110.0 | 58.0 | 12B2/76T | 48.0 | 90.0 | 155.0 | 76.0 | 12B3/76T | 55.0 | 90.0  | 165.0 | 76.0 |
| 95 | 576.17 | 586.2 | 12B1/95T | 38.0 | 65.0 | 110.0 | 64.0 | 12B2/95T | 55.0 | 90.0 | 155.0 | 76.0 | 12B3/95T | 38.0 | 100.0 | 172.0 | 76.0 |

| Technical Details (mm) |     |           | Simplex  |            |            |             | Duplex   |            |            |             | Triplex  |            |            |             |
|------------------------|-----|-----------|----------|------------|------------|-------------|----------|------------|------------|-------------|----------|------------|------------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Taper Bush | Boss Diam. | Dist. Thro. | Part No. | Taper Bush | Boss Diam. | Dist. Thro. | Part No. | Taper Bush | Boss Diam. | Dist. Thro. |
|                        |     |           |          |            | MIN        | MAX         |          |            | MIN        | MAX         |          |            | MIN        | MAX         |

### Taper bore - steel

|    | A      | C     |          |        | E     | F    |          |        | E     | F    |          |        | E | F    |
|----|--------|-------|----------|--------|-------|------|----------|--------|-------|------|----------|--------|---|------|
| 15 | 91.63  | 99.8  | 12B1/15T | TB1610 | 71.0  | 25.0 | 12B2/15T | TB1615 | 72.0  | 38.0 | 12B3/15T | TB1615 | - | 49.8 |
| 17 | 103.67 | 111.9 | 12B1/17T | TB1610 | 76.0  | 25.0 | 12B2/17T | TB1615 | 80.0  | 38.0 | 12B3/17T | TB2012 | - | 49.8 |
| 19 | 115.74 | 123.9 | 12B1/19T | TB2012 | 90.0  | 32.0 | 12B2/19T | TB2012 | 90.0  | 32.0 | 12B3/19T | TB2012 | - | 49.8 |
| 21 | 127.82 | 136.0 | 12B1/21T | TB2517 | 102.0 | 44.0 | 12B2/21T | TB2517 | 107.0 | 44.0 | 12B3/21T | TB2517 | - | 49.8 |
| 23 | 139.90 | 148.1 | 12B1/23T | TB2517 | 108.0 | 44.0 | 12B2/23T | TB2517 | 108.0 | 44.0 | 12B3/23T | TB2517 | - | 49.8 |
| 25 | 152.00 | 160.2 | 12B1/25T | TB2517 | 108.0 | 44.0 | 12B2/25T | TB2517 | 108.0 | 44.0 | 12B3/25T | TB2517 | - | 49.8 |

### Taper bore - heavy duty cast iron

|    | A      | C     |           |        | E     | F    |           |        | E     | F    |           |        | E     | F    |
|----|--------|-------|-----------|--------|-------|------|-----------|--------|-------|------|-----------|--------|-------|------|
| 38 | 230.69 | 238.9 | T12B1/38T | TB2517 | 108.0 | 44.0 | T12B2/38T | TB3020 | 140.0 | 51.0 | T12B3/38T | TB3020 | 140.0 | 51.0 |
| 76 | 460.98 | 471.1 | T12B1/76T | TB2517 | 125.0 | 45.0 | T12B2/76T | TB3020 | 155.0 | 51.0 | T12B3/76T | TB3020 | 160.0 | 51.0 |
| 95 | 576.17 | 586.2 | T12B1/95T | TB2517 | 130.0 | 45.0 | T12B2/95T | TB3020 | 155.0 | 51.0 | T12B3/95T | TB3030 | 172.0 | 76.0 |

Rebore, keyway and setscrew modification service available - see page 75

# Transmission Sprockets

## ISO 606 [25.4mm/1.000" Pitch]

Tooth Width SIMPLEX  
Tooth Width  
Tooth Width DUPLEX  
Tooth Width TRIPLEX

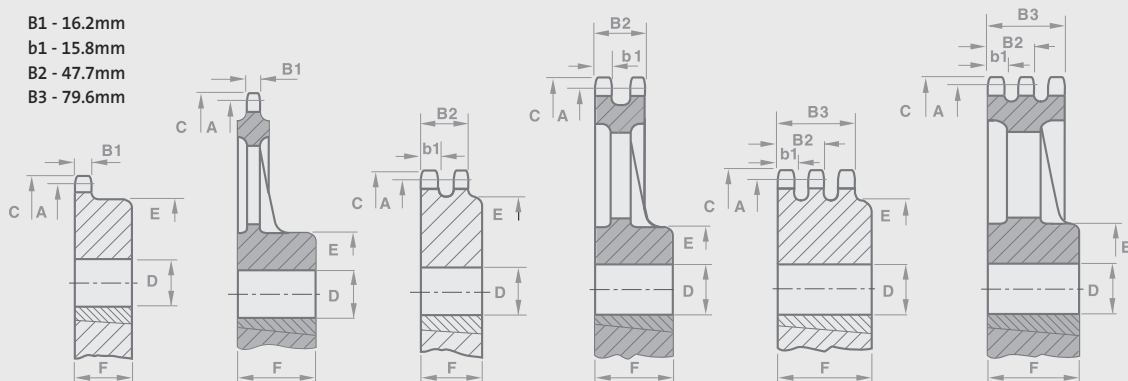
B1 - 16.2mm  
b1 - 15.8mm  
B2 - 47.7mm  
B3 - 79.6mm

\* Welded Hub

Key

Steel

Cast Iron



| Technical Details (mm) |     |           | Simplex  |      |      |      |             | Duplex   |      |      |      |             | Triplex  |      |      |      |             |
|------------------------|-----|-----------|----------|------|------|------|-------------|----------|------|------|------|-------------|----------|------|------|------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |

### Plain Bore - steel

|    | A      | C     |           | D    | D    | E     | F    |           | D    | D    | E     | F    |           | D    | D    | E     | F     |
|----|--------|-------|-----------|------|------|-------|------|-----------|------|------|-------|------|-----------|------|------|-------|-------|
| 11 | 90.14  | 101.7 | 16B1/11T  | 16.0 | 40.0 | 61.0  | 40.0 | 16B2/11T  | 20.0 | 44.0 | 64.0  | 70.0 | 16B3/11T  | 25.0 | 44.0 | 64.0  | 100.0 |
| 12 | 98.14  | 109.7 | 16B1/12T  | 16.0 | 45.0 | 69.0  | 40.0 | 16B2/12T  | 20.0 | 45.0 | 72.0  | 70.0 | 16B3/12T  | 25.0 | 45.0 | 72.0  | 100.0 |
| 13 | 106.12 | 117.7 | 16B1/13T  | 16.0 | 50.0 | 78.0  | 40.0 | 16B2/13T  | 20.0 | 50.0 | 80.0  | 70.0 | 16B3/13T  | 25.0 | 50.0 | 80.0  | 100.0 |
| 14 | 114.15 | 125.7 | 16B1/14T  | 16.0 | 55.0 | 84.0  | 40.0 | 16B2/14T  | 20.0 | 55.0 | 88.0  | 70.0 | 16B3/14T  | 25.0 | 55.0 | 88.0  | 100.0 |
| 15 | 122.17 | 133.7 | 16B1/15T  | 16.0 | 60.0 | 92.0  | 40.0 | 16B2/15T  | 20.0 | 60.0 | 96.0  | 70.0 | 16B3/15T  | 25.0 | 60.0 | 96.0  | 100.0 |
| 16 | 130.20 | 141.8 | 16B1/16T  | 20.0 | 60.0 | 100.0 | 45.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -     |
| 17 | 138.22 | 149.8 | 16B1/17T  | 20.0 | 60.0 | 100.0 | 45.0 | 16B2/17T  | 25.0 | 72.0 | 112.0 | 70.0 | 16B3/17T  | 25.0 | 72.0 | 112.0 | 100.0 |
| 18 | 146.28 | 157.8 | 16B1/18T  | 20.0 | 6000 | 100.0 | 45.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -     |
| 19 | 154.33 | 165.9 | 16B1/19T  | 20.0 | 60.0 | 100.0 | 45.0 | 16B2/19T  | 25.0 | 82.0 | 128.0 | 70.0 | 16B3/19T  | 25.0 | 82.0 | 128.0 | 100.0 |
| 20 | 162.38 | 173.9 | 16B1/20T  | 20.0 | 60.0 | 100.0 | 45.0 | 16B2/20T  | 25.0 | 85.0 | 130.0 | 70.0 | 16B3/20T  | 25.0 | 85.0 | 130.0 | 100.0 |
| 21 | 170.43 | 182.0 | 16B1/21T  | 20.0 | 70.0 | 110.0 | 50.0 | 16B2/21T  | 25.0 | 85.0 | 130.0 | 70.0 | 16B3/21T* | 25.0 | 85.0 | 130.0 | 100.0 |
| 22 | 178.48 | 190.1 | 16B1/22T  | 20.0 | 70.0 | 110.0 | 50.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -     |
| 23 | 186.53 | 198.1 | 16B1/23T  | 20.0 | 70.0 | 110.0 | 50.0 | 16B2/23T* | 25.0 | 85.0 | 130.0 | 70.0 | 16B3/23T* | 25.0 | 85.0 | 130.0 | 100.0 |
| 24 | 194.59 | 206.2 | 16B1/24T  | 20.0 | 70.0 | 110.0 | 50.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -     |
| 25 | 202.66 | 214.2 | 16B1/25T  | 20.0 | 70.0 | 110.0 | 50.0 | 16B2/25T* | 25.0 | 85.0 | 130.0 | 70.0 | 16B3/25T* | 25.0 | 85.0 | 130.0 | 100.0 |
| 26 | 210.72 | 222.3 | 16B1/26T  | 20.0 | 75.0 | 120.0 | 50.0 | -         | -    | -    | -     | -    | -         | -    | -    | -     | -     |
| 27 | 218.79 | 230.4 | 16B1/27T  | 20.0 | 75.0 | 120.0 | 50.0 | 16B2/27T* | 25.0 | 85.0 | 130.0 | 70.0 | 16B3/27T* | 30.0 | 85.0 | 130.0 | 100.0 |
| 30 | 243.00 | 254.6 | 16B1/30T  | 20.0 | 75.0 | 120.0 | 50.0 | 16B2/30T* | 25.0 | 85.0 | 130.0 | 70.0 | 16B3/30T* | 30.0 | 85.0 | 130.0 | 100.0 |
| 38 | 307.59 | 319.2 | 16B1/38T* | 25.0 | 75.0 | 120.0 | 50.0 | 16B2/38T* | 25.0 | 90.0 | 140.0 | 70.0 | 16B3/38T* | 30.0 | 90.0 | 140.0 | 100.0 |

### Plain bore - heavy duty cast iron

|     | A      | C     |           | D    | D     | E     | F    |           | D    | D     | E     | F     |           | D    | D     | E     | F     |
|-----|--------|-------|-----------|------|-------|-------|------|-----------|------|-------|-------|-------|-----------|------|-------|-------|-------|
| 57  | 461.08 | 474.9 | 16B1/57T  | 35.0 | 75.0  | 130.0 | 76.0 | 16B2/57T  | 38.0 | 100.0 | 178.0 | 89.0  | 16B3/57T  | 48.0 | 110.0 | 216.0 | 102.0 |
| 76  | 614.64 | 628.4 | 16B1/76T  | 35.0 | 75.0  | 135.0 | 76.0 | 16B2/76T  | 48.0 | 100.0 | 178.0 | 89.0  | 16B3/76T  | 55.0 | 110.0 | 216.0 | 102.0 |
| 95  | 768.22 | 782.0 | 16B1/95T  | 48.0 | 75.0  | 135.0 | 90.0 | 16B2/95T  | 48.0 | 110.0 | 216.0 | 102.0 | 16B3/95T  | 55.0 | 110.0 | 216.0 | 102.0 |
| 114 | 921.82 | 935.6 | 16B1/114T | 38.0 | 100.0 | 172.0 | 98.0 | 16B2/114T | 48.0 | 110.0 | 203.0 | 114.0 | 16B3/114T | 55.0 | 125.0 | 222.0 | 127.0 |

| Technical Details (mm) |     |           | Simplex  |            |      |      |             | Duplex   |            |      |      |             | Triplex  |            |      |      |             |
|------------------------|-----|-----------|----------|------------|------|------|-------------|----------|------------|------|------|-------------|----------|------------|------|------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Taper Bush | Bore | Bore | Dist. Thro. | Part No. | Taper Bush | Bore | Bore | Dist. Thro. | Part No. | Taper Bush | Bore | Bore | Dist. Thro. |
|                        |     |           |          |            | MIN  | MAX  |             |          |            | MIN  | MAX  |             |          |            | MIN  | MAX  |             |

### Taper bore - steel

|    | A      | C     |           |        | E     | F    |           |        | E     | F    |           |        | E     | F    |
|----|--------|-------|-----------|--------|-------|------|-----------|--------|-------|------|-----------|--------|-------|------|
| 15 | 122.17 | 133.7 | T16B1/15T | TB1615 | 76.0  | 38.0 | T16B2/15T | TB2012 | -     | 47.7 | -         | -      | -     | -    |
| 17 | 138.23 | 149.8 | T16B1/17T | TB2012 | 90.0  | 32.0 | T16B2/17T | TB2517 | -     | 47.7 | T16B3/17T | TB2525 | -     | 79.6 |
| 19 | 154.32 | 165.9 | T16B1/19T | TB2517 | 108.0 | 44.0 | T16B2/19T | TB2517 | -     | 47.7 | T16B3/19T | TB3030 | -     | 79.6 |
| 21 | 170.42 | 182.0 | T16B1/21T | TB2517 | 110.0 | 44.0 | T16B2/21T | TB3020 | 140.0 | 51.0 | T16B3/21T | TB3030 | -     | 79.6 |
| 23 | 186.54 | 198.1 | T16B1/23T | TB2517 | 110.0 | 44.0 | T16B2/23T | TB3020 | 140.0 | 51.0 | T16B3/23T | TB3535 | 159.0 | 89.0 |
| 25 | 202.66 | 214.2 | T16B1/25T | TB2517 | 110.0 | 44.0 | T16B2/25T | TB3020 | 140.0 | 51.0 | T16B3/25T | TB3535 | 175.0 | 89.0 |

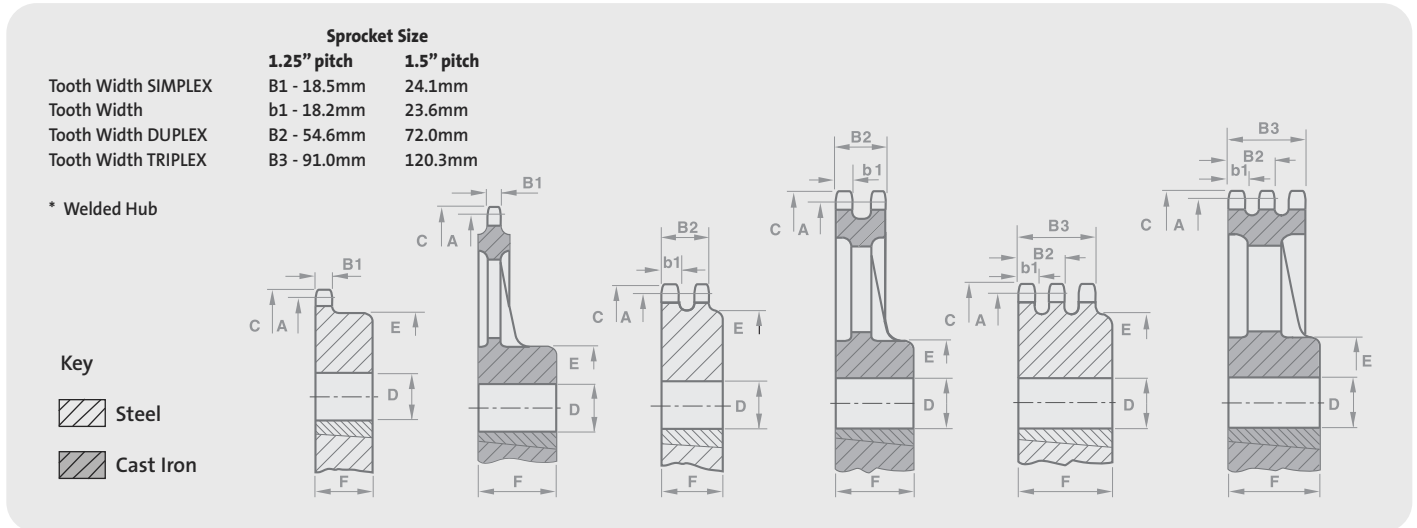
### Taper bore - heavy duty cast iron

|    | A      | C     |           |        | E     | F    |           |        | E     | F     |           |        | E     | F     |
|----|--------|-------|-----------|--------|-------|------|-----------|--------|-------|-------|-----------|--------|-------|-------|
| 38 | 307.58 | 319.2 | T16B1/38T | TB3020 | 155.0 | 51.0 | T16B2/38T | TB3030 | 159.0 | 76.0  | T16B3/38T | TB3535 | 178.0 | 89.0  |
| 57 | 461.08 | 474.9 | T16B1/57T | TB3020 | 155.0 | 51.0 | T16B2/57T | TB3535 | 178.0 | 89.0  | T16B3/57T | TB4040 | 216.0 | 102.0 |
| 76 | 614.64 | 628.4 | T16B1/76T | TB3020 | 160.0 | 51.0 | T16B2/76T | TB3535 | 178.0 | 89.0  | T16B3/76T | TB4040 | 216.0 | 102.0 |
| 95 | 768.22 | 782.0 | T16B1/95T | TB3020 | 160.0 | 51.0 | T16B2/95T | TB4040 | 216.0 | 102.0 | T16B3/95T | TB4040 | 216.0 | 102.0 |

Rebore, keyway and setscrew modification service available - see page 75

# Transmission Sprockets

ISO606 [31.75mm to 38.10mm/1.25" to 1.5" Pitch]



| Technical Details (mm) |     |           | Simplex  |      |      |            | Duplex      |          |      |      |            | Triplex     |          |      |      |            |             |
|------------------------|-----|-----------|----------|------|------|------------|-------------|----------|------|------|------------|-------------|----------|------|------|------------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. | Part No. | Bore | Bore | Boss Diam. | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |            |             |          | MIN  | MAX  |            |             |          | MIN  | MAX  |            |             |

## 1.25" Plain Bore - steel

|    | A      | C      |          | D    | D     | E     | F    |          | D    | D     | E     | F    |          | D    | D     | E     | F     |
|----|--------|--------|----------|------|-------|-------|------|----------|------|-------|-------|------|----------|------|-------|-------|-------|
| 17 | 172.80 | 190.75 | 20B1/17T | 25.0 | 85.0  | 120.0 | 50.0 | 20B2/17T | 30.0 | 85.0  | 120.0 | 80.0 | 20B3/17T | 30.0 | 85.0  | 120.0 | 115.0 |
| 19 | 192.89 | 210.26 | 20B1/19T | 25.0 | 85.0  | 120.0 | 50.0 | 20B2/19T | 30.0 | 85.0  | 120.0 | 80.0 | 20B3/19T | 30.0 | 85.0  | 120.0 | 115.0 |
| 21 | 213.03 | 232.41 | 20B1/21T | 30.0 | 100.0 | 140.0 | 55.0 | 20B2/21T | 30.0 | 100.0 | 140.0 | 80.0 | 20B3/21T | 30.0 | 100.0 | 140.0 | 115.0 |
| 23 | 233.17 | 252.22 | 20B1/23T | 30.0 | 100.0 | 140.0 | 55.0 | 20B2/23T | 30.0 | 100.0 | 140.0 | 80.0 | 20B3/23T | 30.0 | 100.0 | 140.0 | 115.0 |
| 25 | 253.31 | 272.03 | 20B1/25T | 30.0 | 100.0 | 140.0 | 55.0 | 20B2/25T | 30.0 | 100.0 | 140.0 | 80.0 | 20B3/25T | 30.0 | 100.0 | 140.0 | 115.0 |

## 1.25" Plain Bore - heavy duty cast iron

|    | A      | C      |          | D    | D     | E     | F    |          | D    | D     | E     | F     |          | D    | D     | E     | F     |
|----|--------|--------|----------|------|-------|-------|------|----------|------|-------|-------|-------|----------|------|-------|-------|-------|
| 38 | 384.48 | 402.08 | 20B1/38T | 30.0 | 105.0 | 150.0 | 55.0 | 20B2/38T | 30.0 | 105.0 | 150.0 | 80.0  | 20B3/38T | 30.0 | 105.0 | 150.0 | 115.0 |
| 57 | 576.35 | 593.34 | 20B1/57T | 48.0 | 95.0  | 170.0 | 81.0 | 20B2/57T | 65.0 | 110.0 | 206.0 | 127.0 | 20B3/57T | 70.0 | 125.0 | 222.0 | 147.0 |
| 76 | 768.30 | 784.86 | 20B1/76T | 55.0 | 100.0 | 178.0 | 89.0 | 20B2/76T | 70.0 | 125.0 | 224.0 | 140.0 | 20B3/76T | 85.0 | 140.0 | 254.0 | 163.0 |

## 1.5" Plain Bore - steel

|    | A      | C      |          | D    | D     | E     | F    |          | D    | D     | E     | F     |          | D    | D     | E     | F     |
|----|--------|--------|----------|------|-------|-------|------|----------|------|-------|-------|-------|----------|------|-------|-------|-------|
| 17 | 207.34 | 225.55 | 24B1/17T | 25.0 | 95.0  | 136.0 | 55.0 | 24B2/17T | 30.0 | 95.0  | 136.0 | 100.0 | 24B3/17T | 30.0 | 95.0  | 136.0 | 150.0 |
| 19 | 231.47 | 248.67 | 24B1/19T | 25.0 | 95.0  | 136.0 | 55.0 | 24B2/19T | 30.0 | 95.0  | 160.0 | 100.0 | 24B3/19T | 30.0 | 114.0 | 160.0 | 150.0 |
| 21 | 255.63 | 276.61 | 24B1/21T | 30.0 | 105.0 | 150.0 | 60.0 | 24B2/21T | 30.0 | 114.0 | 160.0 | 100.0 | 24B3/21T | 40.0 | 114.0 | 160.0 | 150.0 |
| 23 | 279.81 | 300.23 | 24B1/23T | 30.0 | 105.0 | 150.0 | 60.0 | 24B2/23T | 30.0 | 114.0 | 160.0 | 100.0 | 24B3/23T | 40.0 | 114.0 | 160.0 | 150.0 |
| 25 | 303.99 | 324.10 | 24B1/25T | 30.0 | 105.0 | 150.0 | 60.0 | 24B2/25T | 30.0 | 114.0 | 160.0 | 100.0 | 24B3/25T | 40.0 | 114.0 | 160.0 | 150.0 |

## 1.5" Plain Bore - heavy duty cast iron

|    | A      | C      |          | D    | D     | E     | F     |          | D    | D     | E     | F     |          | D     | D     | E     | F     |
|----|--------|--------|----------|------|-------|-------|-------|----------|------|-------|-------|-------|----------|-------|-------|-------|-------|
| 38 | 461.37 | 479.81 | 24B1/38T | 30.0 | 105.0 | 150.0 | 60.0  | 24B2/38T | 40.0 | 114.0 | 160.0 | 100.0 | 24B3/38T | 40.0  | 114.0 | 160.0 | 150.0 |
| 57 | 691.62 | 708.91 | 24B1/57T | 60.0 | 110.0 | 196.0 | 122.0 | 24B2/57T | 80.0 | 140.0 | 254.0 | 152.0 | 24B3/57T | 90.0  | 150.0 | 267.0 | 175.0 |
| 76 | 921.97 | 938.78 | 24B1/76T | 65.0 | 125.0 | 216.0 | 135.0 | 24B2/76T | 85.0 | 150.0 | 267.0 | 168.0 | 24B3/76T | 100.0 | 170.0 | 297.0 | 193.0 |

Rebore, keyway and setscrew modification service available - see page 75

# Transmission Sprockets

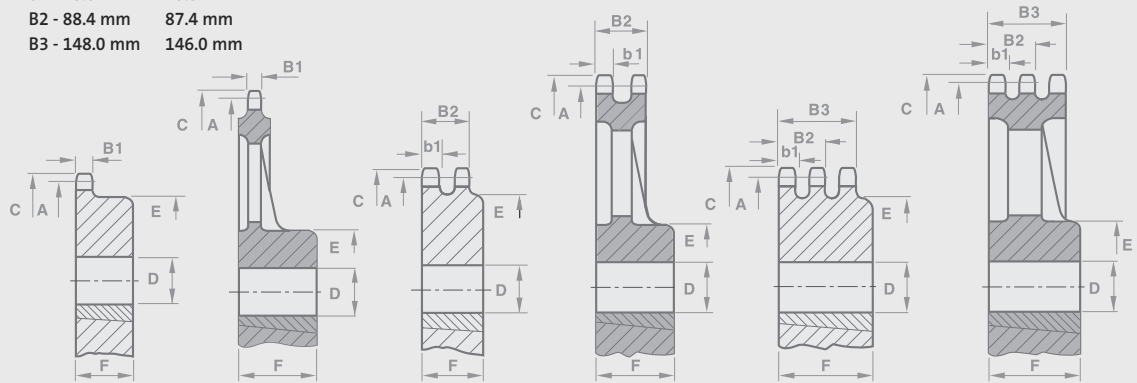
## ISO606 [44.45mm to 50.8mm/1.75" to 2.0" Pitch]

|                     | Sprocket Size |            |
|---------------------|---------------|------------|
|                     | 1.75" pitch   | 2.0" pitch |
| Tooth Width SIMPLEX | B1 - 29.4 mm  | 29.4 mm    |
| Tooth Width         | b1 - 28.8 mm  | 28.8 mm    |
| Tooth Width DUPLEX  | B2 - 88.4 mm  | 87.4 mm    |
| Tooth Width TRIPLEX | B3 - 148.0 mm | 146.0 mm   |

\* Welded Hub

## Key

 Steel

 Cast Iron


| Technical Details (mm) |     |           | Simplex  |      |      |      |             | Duplex   |      |      |      |             | Triplex  |      |      |      |             |
|------------------------|-----|-----------|----------|------|------|------|-------------|----------|------|------|------|-------------|----------|------|------|------|-------------|
| No. of Teeth           | PCD | Top Diam. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. | Part No. | Bore | Bore | Bore | Dist. Thro. |
|                        |     |           |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |          | MIN  | MAX  |      |             |

## 1.75" Plain Bore - steel

|    | A      | C      |          | D    | D     | E     | F    |          | D    | D     | E     | F     |          | D    | D     | E     | F     |
|----|--------|--------|----------|------|-------|-------|------|----------|------|-------|-------|-------|----------|------|-------|-------|-------|
| 19 | 270.05 | 292.61 | 28B1/19T | 30.0 | 114.0 | 160.0 | 75.0 | 28B2/19T | 30.0 | 128.0 | 180.0 | 120.0 | 28B3/19T | 30.0 | 128.0 | 180.0 | 180.0 |
| 21 | 298.25 | 324.36 | 28B1/21T | 30.0 | 114.0 | 160.0 | 75.0 | 28B2/21T | 30.0 | 128.0 | 180.0 | 120.0 | 28B3/21T | 40.0 | 128.0 | 180.0 | 180.0 |
| 23 | 326.44 | 352.04 | 28B1/23T | 30.0 | 114.0 | 160.0 | 75.0 | 28B2/23T | 30.0 | 128.0 | 180.0 | 120.0 | 28B3/23T | 40.0 | 128.0 | 180.0 | 180.0 |
| 25 | 354.66 | 379.98 | 28B1/25T | 30.0 | 114.0 | 160.0 | 75.0 | 28B2/25T | 30.0 | 128.0 | 180.0 | 120.0 | 28B3/25T | 40.0 | 128.0 | 180.0 | 180.0 |

## 1.75" Plain Bore - heavy duty cast iron

|    | A       | C       |          | D    | D     | E     | F     |          | D     | D     | E     | F     |          | D     | D     | E     | F     |
|----|---------|---------|----------|------|-------|-------|-------|----------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| 38 | 538.28  | 538.28  | 28B1/38T | 30.0 | 128.0 | 180.0 | 75.0  | 28B2/38T | 40.0  | 142.0 | 200.0 | 120.0 | 28B3/38T | 40.0  | 142.0 | 200.0 | 180.0 |
| 57 | 806.88  | 829.31  | 28B1/57T | 70.0 | 125.0 | 224.0 | 147.0 | 28B2/57T | 100.0 | 150.0 | 267.0 | 165.0 | 28B3/57T | 105.0 | 188.0 | 264.0 | 165.0 |
| 76 | 1075.61 | 1097.53 | 28B1/76T | 85.0 | 140.0 | 244.0 | 165.0 | 28B2/76T | 100.0 | 150.0 | 267.0 | 165.0 | 28B3/76T | 120.0 | 202.0 | 284.0 | 178.0 |

## 2.0" Plain Bore - steel

|    | A      | C      |          | D    | D     | E     | F    |          | D    | D     | E     | F     |          | D    | D     | E     | F     |
|----|--------|--------|----------|------|-------|-------|------|----------|------|-------|-------|-------|----------|------|-------|-------|-------|
| 19 | 308.64 | 337.82 | 32B1/19T | 30.0 | 114.0 | 160.0 | 90.0 | 32B2/19T | 40.0 | 142.0 | 200.0 | 120.0 | 32B3/19T | 40.0 | 142.0 | 200.0 | 180.0 |
| 21 | 340.84 | 372.66 | 32B1/21T | 40.0 | 128.0 | 180.0 | 90.0 | 32B2/21T | 40.0 | 142.0 | 200.0 | 120.0 | 32B3/21T | 40.0 | 142.0 | 200.0 | 180.0 |
| 23 | 373.08 | 404.37 | 32B1/23T | 40.0 | 128.0 | 180.0 | 90.0 | 32B2/23T | 40.0 | 142.0 | 200.0 | 120.0 | 32B3/23T | 40.0 | 142.0 | 200.0 | 180.0 |
| 25 | 405.31 | 436.12 | 32B1/25T | 40.0 | 128.0 | 180.0 | 90.0 | 32B2/25T | 40.0 | 142.0 | 200.0 | 120.0 | 32B3/25T | 40.0 | 142.0 | 200.0 | 180.0 |

## 2.0" Plain Bore - heavy duty cast iron

|    | A       | C       |          | D     | D     | E     | F     |          | D     | D     | E     | F     |          | D     | D     | E     | F     |
|----|---------|---------|----------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| 38 | 615.16  | 644.40  | 32B1/38T | 40.0  | 142.0 | 200.0 | 90.0  | 32B2/38T | 100.0 | 174.0 | 244.0 | 165.0 | 32B3/38T | 105.0 | 188.0 | 264.0 | 165.0 |
| 57 | 922.17  | 950.47  | 32B1/57T | 85.0  | 174.0 | 244.0 | 165.0 | 32B2/57T | 105.0 | 188.0 | 264.0 | 165.0 | 32B3/57T | 120.0 | 202.0 | 284.0 | 178.0 |
| 76 | 1229.28 | 1275.05 | 32B1/76T | 100.0 | 190.0 | 267.0 | 165.0 | 32B2/76T | 120.0 | 202.0 | 284.0 | 178.0 | 32B3/76T | 130.0 | 232.0 | 325.0 | 191.0 |

Rebore, keyway and setscrew modification service available - see page 75

# Transmission Sprockets

## Modifications and Specials

### Renold large pitch sprockets

Detailed in this catalogue are SIMPLE, DUPLEX and TRIPLEX sprockets for British Standard Roller Chain up to 1.00" pitch. 1.25" to 2.00" pitch sprockets are available to Renold specifications from stock. For more details contact Renold Chain. Renold also manufacture sprockets of intermediate numbers of teeth to suit single or multi-strand chains.

### Special sprockets

In addition to this stock range, special design sprockets in normal or special materials can be manufactured to specific requirements.

### American (ANSI) standard sprockets

Sprockets to suit chain manufactured to ANSI specification B 29.1 are made to order.

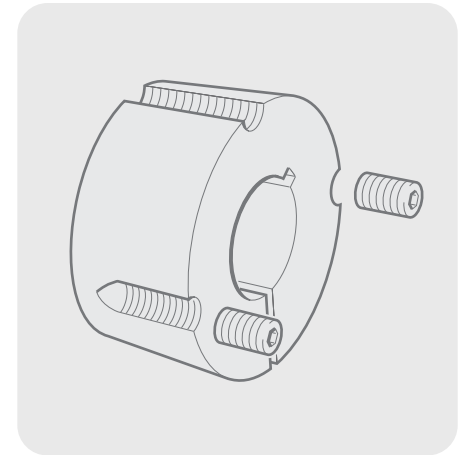
### Rebore, Keyway and Setscrew modification service

Catalogued stock sprockets are supplied either taper bored or pilot bored. This pilot bore allows a larger finished bore to standard H8 tolerances to be machined. A bore to H7 tolerance can also be supplied on request. Keyways to imperial or metric specifications and setscrews can also be machined. A rebore, keyway and setscrew modification service is available and further details can be obtained on request.

### Taper bushes

Taper bushes provide the quickest and simplest means of securing sprockets to a range of both imperial and metric shafts and are designed to give maximum grip.

The taper surface to both the bush and sprocket combine to provide a load bearing connection by the lock action of the hardened high tensile screws.



**Our range of taper bushes are fully interchangeable with most other makes of taper bush.**

| Bush No. | Available Bore Sizes - Metric mm |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |
|----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|
| TB1008   | 9                                | 10 | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 |    |    |    |     |    |
| TB1210   | 11                               | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |    |     |    |
| TB1215   | 11                               | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 |    |     |    |
| TB1610   | 14                               | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42  |    |
| TB1615   | 14                               | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42  |    |
| TB2012   | 14                               | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42  | 44 |
| TB2017   | 18                               | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48  | 50 |
| TB2517   | 16                               | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45  | 48 |
| TB2525   | 19                               | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50  | 55 |
| TB3020   | 25                               | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70  | 75 |
| TB3030   | 35                               | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 |    |    |     |    |
| TB3535   | 35                               | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90  |    |
| TB4040   | 40                               | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |    |

| Bush No. | Available Bore Sizes - Imperial Inch |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TB1008   | 0.375                                | 0.437 | 0.50  | 0.625 | 0.750 | 1.000 |       |       |       |       |       |       |       |       |       |       |
| TB1210   | 0.50                                 | 0.625 | 0.750 | 1.00  | 1.125 | 1.250 |       |       |       |       |       |       |       |       |       |       |
| TB1215   | 0.50                                 | 0.562 | 0.625 | 0.750 | 0.875 | 1.00  | 1.125 | 1.250 |       |       |       |       |       |       |       |       |
| TB1610   | 0.50                                 | 0.625 | 0.750 | 0.875 | 1.00  | 1.125 | 1.250 | 1.50  | 1.625 |       |       |       |       |       |       |       |
| TB1615   | 0.50                                 | 0.625 | 0.750 | 0.875 | 1.00  | 1.125 | 1.250 | 1.375 | 1.437 | 1.50  | 1.625 |       |       |       |       |       |
| TB2012   | 0.50                                 | 0.625 | 0.750 | 0.975 | 1.00  | 1.125 | 1.250 | 1.375 | 1.50  | 1.625 | 1.750 | 1.875 | 2.00  |       |       |       |
| TB2017   | 0.75                                 | 0.812 | 0.875 | 0.937 | 1.00  | 1.125 | 1.250 | 1.375 | 1.437 | 1.50  | 1.625 | 1.750 | 1.875 | 2.00  |       |       |
| TB2517   | 0.75                                 | 0.875 | 1.00  | 1.125 | 1.250 | 1.375 | 1.437 | 1.50  | 1.625 | 1.750 | 1.875 | 2.00  | 2.125 | 2.250 | 2.375 | 2.500 |
| TB2525   | 1.00                                 | 1.125 | 1.250 | 1.375 | 1.50  | 1.625 | 1.750 | 1.875 | 2.00  | 2.125 | 2.250 | 2.375 | 2.500 |       |       |       |
| TB3020   | 1.250                                | 1.375 | 1.50  | 1.625 | 1.750 | 1.875 | 2.00  | 2.125 | 2.250 | 2.375 | 2.50  | 2.625 | 2.750 | 2.875 | 3.00  |       |
| TB3030   | 1.375                                | 1.500 | 1.625 | 1.750 | 1.875 | 2.00  | 2.125 | 2.250 | 2.375 | 2.50  | 2.625 | 2.750 | 2.875 | 3.00  |       |       |
| TB3535   | 1.625                                | 1.750 | 1.875 | 2.00  | 2.125 | 2.250 | 2.375 | 2.50  | 2.625 | 2.750 | 2.875 | 3.00  | 3.125 | 3.250 | 3.375 | 3.50  |
| TB4040   | 2.00                                 | 2.125 | 2.250 | 2.375 | 2.50  | 2.625 | 2.750 | 2.875 | 3.00  | 3.125 | 3.250 | 3.375 | 3.50  | 3.625 | 3.750 | 4.00  |

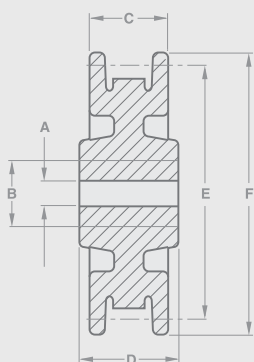
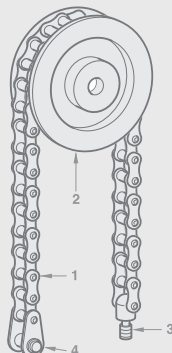
When ordering specify both the bush number and bore size required.

# Transmission Counterweight Sets

## Key

1. Chain
2. Guide pulley
3. Anchor stud
4. End attachment link

Unlike link chains, roller chains are exempt from annual annealing requirements for this type of application.



## Guide pulleys

Dimensions (mm)

| Renold Chain No. | Part No. | Stock Bore | Max Bore | Width Over Flanges | Distance Through Boss | Chain Pitch Diam | Outside Dia |
|------------------|----------|------------|----------|--------------------|-----------------------|------------------|-------------|
|                  |          | A          | B        | C                  | D                     | E                | F           |

### Standard roller chains

|        |         |        |        |        |        |         |         |
|--------|---------|--------|--------|--------|--------|---------|---------|
| 111046 | 661200  | 12.000 | 25.000 | 23.000 | 25.000 | 80.140  | 89.000  |
| 110046 | 661201* | 12.000 | 25.000 | 28.000 | 32.000 | 85.980  | 95.000  |
| 110056 | 661202* | 14.000 | 32.000 | 31.000 | 38.000 | 105.410 | 114.000 |
| 110066 | 661203* | 19.000 | 35.000 | 38.000 | 45.000 | 126.370 | 140.000 |
| 110088 | 661204* | 30.000 | 50.000 | 54.000 | 64.000 | 171.580 | 191.000 |

### Extended pitch roller chains

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| 113083 | 661201 | 12.000 | 25.000 | 28.000 | 32.000 | 85.980  | 95.000  |
| 113103 | 661202 | 14.000 | 32.000 | 31.000 | 38.000 | 105.410 | 114.000 |
| 113123 | 661203 | 19.000 | 35.000 | 38.000 | 45.000 | 126.370 | 140.000 |
| 113168 | 661204 | 30.000 | 50.000 | 54.000 | 64.000 | 171.580 | 191.000 |

\* Sprockets can be supplied for use with these chains.

## Anchor studs

Dimensions (mm)

| Renold Chain No. | Part No. | Overall Length Max | Thread Length Max | Metric Thread Size | Pin to Shoulder Max |
|------------------|----------|--------------------|-------------------|--------------------|---------------------|
|                  |          | G                  | H                 | J                  | K                   |

### Standard roller chains

|        |        |        |        |          |        |
|--------|--------|--------|--------|----------|--------|
| 111046 | 661031 | 27.000 | 16.400 | M8-1.25  | 5.720  |
| 110046 | 661032 | 32.000 | 20.000 | M10-1.50 | 6.860  |
| 110056 | 661033 | 41.000 | 26.000 | M12-1.75 | 7.820  |
| 110066 | 661034 | 44.000 | 26.000 | M16-2.00 | 9.140  |
| 110088 | 661035 | 62.000 | 39.000 | M20-2.50 | 11.810 |

### Extended pitch roller chains

|        |        |        |        |          |        |
|--------|--------|--------|--------|----------|--------|
| 113083 | 661032 | 32.000 | 20.000 | M10-1.50 | 6.860  |
| 113103 | 661033 | 41.000 | 26.000 | M12-1.75 | 7.820  |
| 113123 | 661034 | 44.000 | 26.000 | M16-2.00 | 9.140  |
| 113168 | 661035 | 62.000 | 39.000 | M20-2.50 | 11.810 |

\* Sprockets can be supplied for use with these chains.

## End attachment links

Dimensions (mm)

| Renold Chain No. | Part No. | Inside Width Min | Pitch Nom | Stud Diam Max | Inner Link Head | Plate Head Max | Clearance |
|------------------|----------|------------------|-----------|---------------|-----------------|----------------|-----------|
|                  |          | L                | M         | N             | O               | P              | Q         |

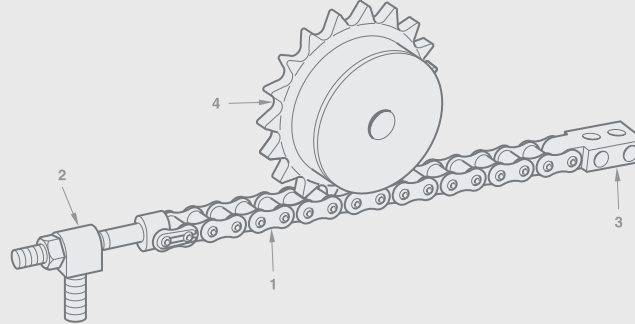
|        |             |        |        |        |        |        |        |
|--------|-------------|--------|--------|--------|--------|--------|--------|
| 111046 | 111046/230  | 7.600  | 19.050 | 8.000  | 5.800  | 17.000 | 19.000 |
| 110046 | 110046/230* | 11.400 | 19.050 | 8.000  | 5.800  | 18.300 | 24.000 |
| 110056 | 111056/230* | 13.400 | 25.400 | 10.000 | 6.700  | 21.000 | 27.000 |
| 110066 | 111066/230* | 15.700 | 31.750 | 11.000 | 7.800  | 26.000 | 30.000 |
| 110088 | 111088/230* | 25.600 | 38.100 | 16.000 | 10.300 | 35.400 | 42.500 |

Part No. 230 comprises end attachment link riveted to an inner link (No.4) and is supplied complete. It is secured to chain by means of an outer link (No. 107).

# Transmission Rack Sets

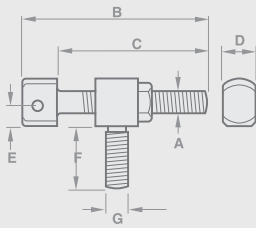
## Key

1. Chain
2. Draw bolt and block
3. Anchor plate
4. Sprocket



## Draw bolt and block

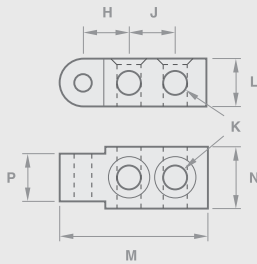
Dimensions (mm)



| Renold Chain No | Part No | Metric Thread Size | Overall Length Max | Length Under Head Max | Head Width Max | Base to Chain Centre | Block Thread Length | Metric Thread Size |
|-----------------|---------|--------------------|--------------------|-----------------------|----------------|----------------------|---------------------|--------------------|
|                 |         | A                  | B                  | C                     | D              | E                    | F                   | G                  |
| 110046          | 661410  | M08-1.25           | 63.000             | 51.000                | 11.200         | 5.080                | 19.600              | M12-1.75           |
| 110056          | 661411  | M10-1.50           | 78.000             | 64.000                | 13.100         | 7.100                | 26.000              | M16-2.00           |
| 110066          | 661412  | M12-1.75           | 90.000             | 73.000                | 15.500         | 8.600                | 26.000              | M16-2.00           |
| 110088          | 661413  | M16-2.00           | 126.000            | 104.000               | 25.200         | 11.170               | 39.000              | M20-2.50           |

## Anchor plate

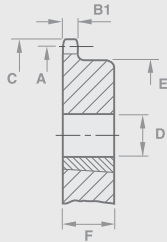
Dimensions (mm)



| Renold Chain No | Part No | Bolt Hole to Chain Pin Nom | Bolt Hole Pitch Nom | Hole Dia Min | Block Depth | Overall Length Max | Block Width | Chain Width Max |
|-----------------|---------|----------------------------|---------------------|--------------|-------------|--------------------|-------------|-----------------|
|                 |         | H                          | J                   | K            | L           | M                  | N           | P               |
| 110046          | 661310  | 12.700                     | 12.700              | 5.300        | 12.700      | 40.000             | 15.900      | 11.200          |
| 110056          | 661311  | 15.900                     | 20.300              | 8.400        | 15.900      | 55.000             | 22.300      | 13.100          |
| 110066          | 661312  | 15.900                     | 20.300              | 8.400        | 17.500      | 58.000             | 22.300      | 15.500          |
| 110088          | 661313  | 25.400                     | 28.000              | 10.500       | 22.200      | 84.000             | 31.800      | 25.200          |

## Sprockets

Dimensions (mm)



| Renold Chain No | Part No | No. of Teeth | PCD     | Top Dia | Bore Min | Bore Max | Boss Dia | Dist' Thro' |
|-----------------|---------|--------------|---------|---------|----------|----------|----------|-------------|
|                 |         |              | A       | C       | D        | D        | E        | F           |
| 110046          | 212461  | 19           | 77.160  | 82.000  | 12       | 40.000   | 60.000   | 28.000      |
| 110056          | 213011  | 19           | 96.450  | 103.300 | 42       | 70.000   | 70.000   | 30.000      |
| 110066          | 213461  | 19           | 115.740 | 123.900 | 16       | 53.000   | 80.000   | 35.000      |
| 110088          | 214011  | 19           | 154.330 | 165.900 | 20       | 60.000   | 100.000  | 45.000      |

See pages 68 - 74 for dimension B1

# Roller Chain Guides

## Plastic guide rails horizontal

Dimensions (mm)

| Chain ISO No. | Part No.   |        |        |        |       |
|---------------|------------|--------|--------|--------|-------|
|               |            | A      | B      | C      | D     |
| 06B-1         | T1 021 510 | 15.000 | 10.000 | 5.500  | 1.500 |
| 08B-1         | T1 052 010 | 20.000 | 10.000 | 7.500  | 2.200 |
| 08B-1         | T1 052 015 | 20.000 | 15.000 | 7.500  | 2.200 |
| 10B-1         | T1 072 010 | 20.000 | 10.000 | 9.300  | 2.600 |
| 10B-1         | T1 072 015 | 20.000 | 15.000 | 9.300  | 2.600 |
| 12B-1         | T1 082 515 | 25.000 | 15.000 | 11.300 | 2.400 |
| 12B-1         | T1 082 520 | 25.000 | 20.000 | 11.300 | 2.400 |
| 16B-1         | T1 094 015 | 40.000 | 15.000 | 16.500 | 3.500 |
| 16B-1         | T1 094 020 | 40.000 | 20.000 | 16.500 | 3.500 |
| 20B-1         | T1 104 515 | 45.000 | 15.000 | 19.000 | 4.200 |
| 24B-1         | T1 116 015 | 60.000 | 15.000 | 24.700 | 5.500 |

## Plastic guide rails steel reinforced horizontal

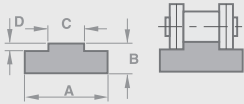
Dimensions (mm)

| Chain ISO No. | Part No. |        |        |        |       |        |
|---------------|----------|--------|--------|--------|-------|--------|
|               |          | A      | B      | C      | D     | E      |
| 08B-1         | CT 4/1   | 20.000 | 9.000  | 7.500  | 2.200 | 11.000 |
| 08B-1         | CT 6/2   | 17.000 | 12.000 | 7.500  | 2.200 | 17.000 |
| 10B-1         | CT 8/2   | 17.000 | 12.000 | 9.300  | 2.600 | 17.000 |
| 12B-1         | CT 9/2   | 20.000 | 12.000 | 11.300 | 2.400 | 17.000 |
| 12B-1         | CT 10/3  | 23.500 | 12.000 | 11.300 | 2.400 | 18.000 |
| 16B-1         | CT 11/3  | 23.500 | 12.000 | 16.500 | 3.500 | 18.000 |
| 20B-1         | CT 12/3  | 28.000 | 12.000 | 19.000 | 4.300 | 18.000 |
| 24B-1         | CT 13/5  | 33.000 | 25.000 | 24.700 | 5.500 | 30.000 |

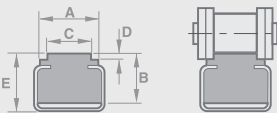
## Plastic guide rails steel reinforced vertical

Dimensions (mm)

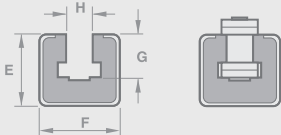
| Chain ISO No. | Part No. |        |        |        |        |
|---------------|----------|--------|--------|--------|--------|
|               |          | E      | F      | G      | H      |
| 06B-1         | CGK 1/6  | 24.000 | 30.000 | 8.700  | 6.600  |
| 08B-1         | CGK 5/6  | 24.000 | 30.000 | 11.500 | 8.700  |
| 10B-1         | CGK 7/6  | 24.000 | 30.000 | 13.500 | 10.400 |
| 12B-1         | CGK 8/6  | 24.000 | 30.000 | 15.900 | 12.300 |
| 16B-1         | CGK 9/9  | 40.000 | 45.000 | 25.000 | 16.100 |
| 20B-1         | CGK 10/9 | 40.000 | 45.000 | 28.000 | 19.300 |



Plastic Guide Rails  
Horizontal - T-Profile



Plastic Guide Rails  
Steel Reinforced Horizontal



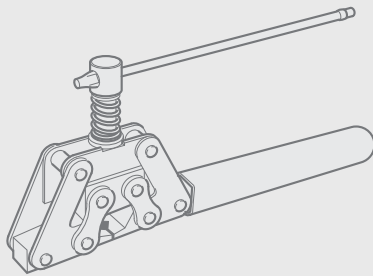
Plastic Guide Rails  
Steel Reinforced Vertical

# Rivet Extractors and Chain Lubricant

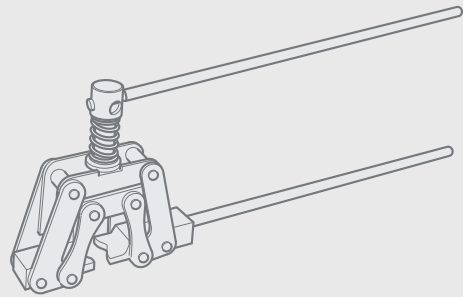
## For chain breaking

Screw operated extractors break chain by forcing the Renold end softened bearing pins out of the outer link plates.

For other brands of chain the rivet swell must first be ground away.



Part No. 10101  
For use with chains:  
9.525 mm/0.375" to 15.875 mm/0.625".  
BS and ANSI Series.



Part No. 10102  
For use with chains:  
19.05 mm/0.75" to 31.75 mm/1.25" BS Series.  
19.05 mm/0.75" to 25.4 mm/1" ANSI Series.

## Chain lubricant

Renold Chain Lubricant has been specially formulated to ensure positive lubrication and protection to all working surfaces of the chain drive. It is fast penetrating, does not drip or fling, and is ideal for quick and easy application, particularly on open chain drives where normal lubrication is not possible.

- Fast positive penetration
- Does not drip or drain away
- Resists centrifugal flinging
- Longer chain life

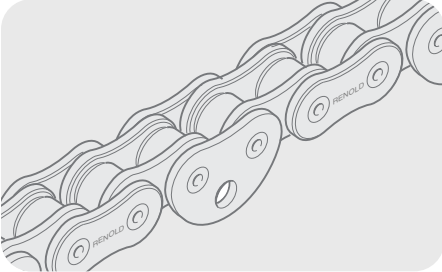
Part No. 611124  
For use on 'open' chain drives.



# Section 2

## Industry Applications

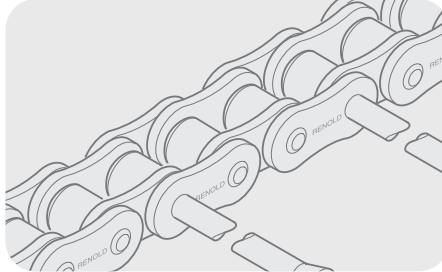
## Special Engineered Chain



### Aircraft chain

- 8mm to 12.7mm pitch
- Conforms to BAe spec.

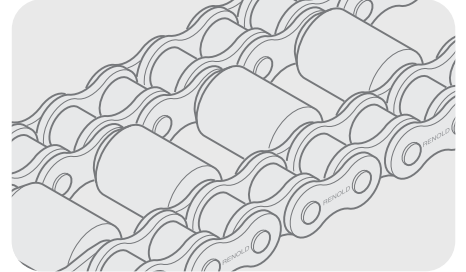
Renold aircraft chain provides a flexible connection for use in control systems and other operating gear, including the transmission of power, where a positive tension is required.



### Can manufacture

- 9.05mm and 25.4mm pitch chain.

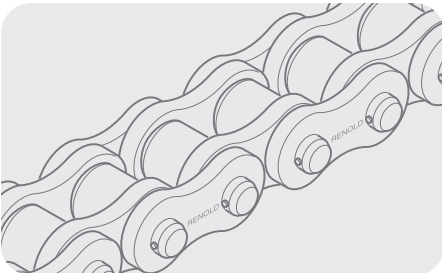
Standard and hollow bearing pin transmission chain fitted with plastic tipped, extended bearing pins used for transporting freshly painted cans through drying ovens. Special high temperature lubricant available on this product.



### Escalator drive chain

- 584107
- 25.4mm pitch
- Breaking load 129.4 kN.

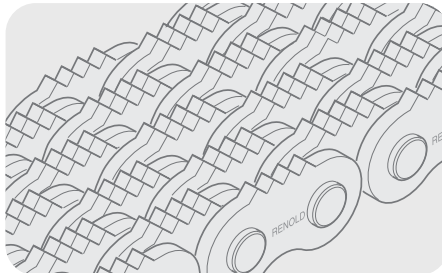
Two strands of matched chain connected by extended bearing pins and fitted with plastic rollers for silent drives in escalators.



### Marine diesel chain

- 110245, 110281, 110325 and 110366.

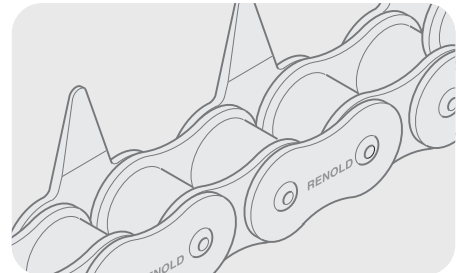
Matched in sets of two or three strands acting as timing chains within large marine diesel engines.



### Pipe wrench chain - oil industry

- 586 927
- 31.75mm pitch.

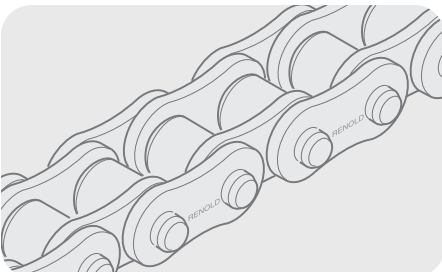
The oil industry use a pipe wrench chain system to assemble 'Down Hole Pipes'.



### Polythene film production

- 6.35mm to 38.1mm pitch.

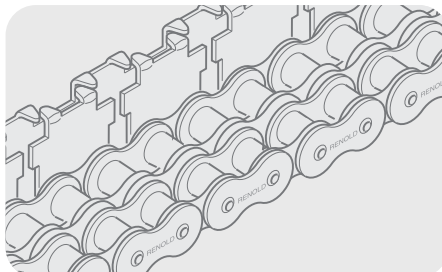
Sharpened spiked shaped attachments pierce the polythene and pulls it through various production processes.



### Quarry chain - for rock drilling

- ANSI HV series 50.8mm pitch.

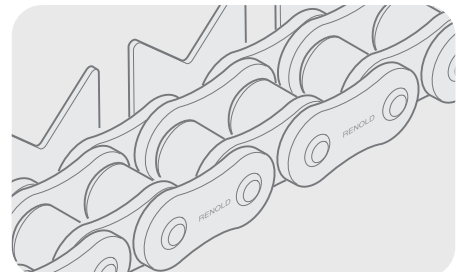
Face rock drilling machines with six chain driven heads are used to drill holes for explosive charges.



### Sheet metal handling

- 19.05mm pitch and 25.4mm pitch chain.

'Bent-claw' attachments hold square rods which support steel sheets through printing and drying processes.



### Small component manufacture

- 8mm, 12.7mm and 15.8mm pitch chain.

A typical V-shaped attachment plate used to locate small electrical components such as resistors and capacitors, through various production processes. The chains generally run in pairs with plates formed to suit specific products.

# Aircraft Chain

## Quality

Renold has manufactured and supplied chain for all types of aircraft for about 100 years and the company has been able to issue inspection certificates since 1927. Renold is an approved supplier to British Aerospace (Approval No. BAe/AG/3049/CHD).

The technical guidance notes detailed in this catalogue should be read in conjunction with the current requirements of the above mentioned and other similar authorities.

## Function

Chain provides a flexible connection for use in control systems or other applications, including the transmission of power, where positive tension is required.

Correct and economical application of chain is, however, largely dependent upon an appreciation of the methods available for effecting connection of the chain to other parts of the system. When standard Renold chain and non-reversible chain are used in conjunction with the appropriate sprockets, guards and connectors, they make incorrect assembly impossible.

With the development of new aircraft, applications for chain are continuously increasing. Our technical staff are at the disposal of design engineers and manufacturers for collaboration in the application of chain for aircraft use.

Typical applications within the industry are:

### Controls

- Ailerons
- Aileron trimming tabs
- Control columns
- Elevators
- Elevator trimming tabs
- Engine
- Propeller pitch
- Rudder
- Rudder trimming tabs

## Operating gear

- Cowl gill
- Cockpit hood
- Door operation
- Fire interrupter
- Fuel valve
- Flight refuelling systems
- Engine nozzle rotation
- Landing flaps
- Loading hoists
- Radiator shutter
- Seat adjustment

## Specification

### Adaptability

The adaptability of chain makes it ideal for control runs. Changes in directions are readily made by the use of guide pulleys or sprockets. By the inclusion of bi-planar blocks, changes in the plane of motion through 90 degrees can be made.

## Durability and strength

Our specification of specially selected steels enhanced by our own heat treatment, apart from providing the highest load/weight ratio, ensures minimum chain wear in service and the ability to withstand the most arduous flying conditions.

Precision manufacturing techniques, coupled with our proven chain specification, provides a positive, smooth and uniform action. The resilience of chain is also a safeguard against shock loading.

## Benefits

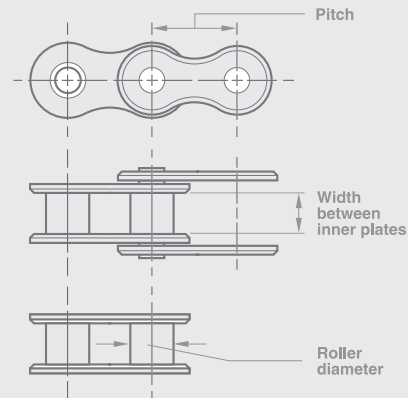
- Quality/certification
- BAe Approved
- Reliability
- Durability
- Safety
- Flexibility
- A Proven Track Record
- Experience



# Aircraft Chain

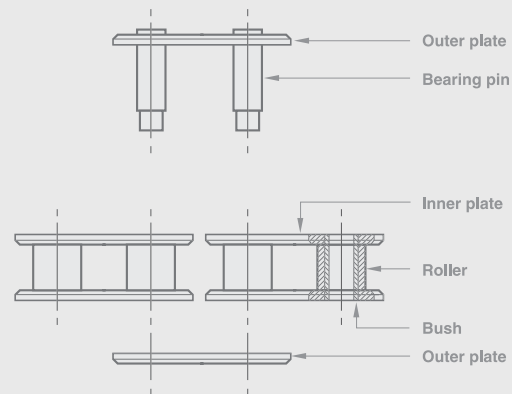
## Gearing dimensions

A simple roller chain has three principal dimensions (detailed in diagram one) by which it can be identified. These dimensions, referred to as the gearing dimensions, since they are related to the sizes of the sprockets on which the chain will run, are the PITCH, the WIDTH BETWEEN THE INNER PLATES and the ROLLER DIAMETER.



## Component parts

The component parts of an outer link and an inner link of a simple roller chain are illustrated in diagram two to demonstrate the method of chain construction.

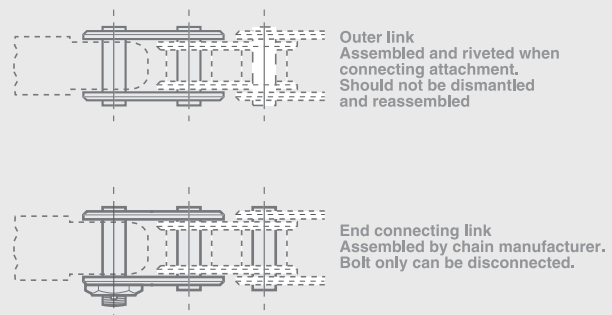


## Attachment links

The various types of attachment link used for attaching components to an aircraft chain are shown in diagram three. Attachments, customer free issue or Renold supplied, should be assembled into the chain by Renold before proof loading takes place.

### Outer link

Assembled and riveted into the chain when connecting an attachment. Never dismantle and re-assemble.

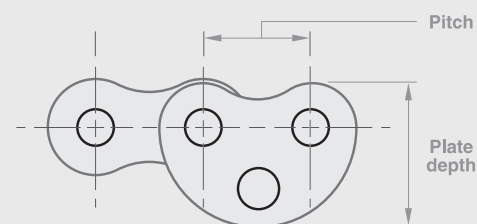


### End connecting link

Assembled into the chain by Renold. Bolt only may be disconnected.

## Non-reversible chain

The component parts of non-reversible chain shown in diagram four are similar to simple chain with the exception of the special outer plates assembled into the chain at four pitch spacing.



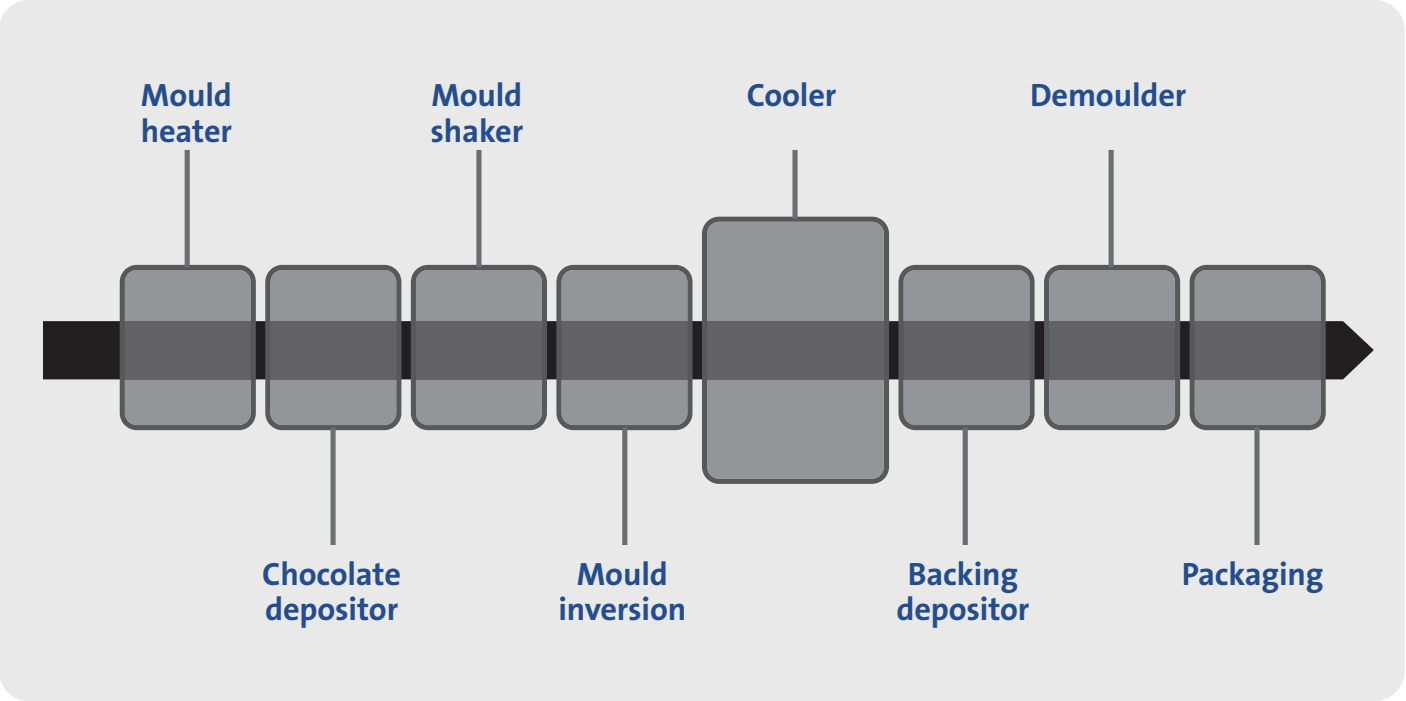
# Chocolate Industry Chain

Renold supplies a comprehensive range of chain to meet the demands of manufacturing confectionary products. Environmental requirements such as hygiene are catered for as well as considerations such as corrosion and wear resistance.

Standard and non-standard attachments are available to suit your needs. Renold has the experience to provide products and support to keep your high volume production lines operational.

We don't just provide products that make a difference; you get the best services from Renold too!

At every stage of the process Renold provides exactly what you need. Precision in our chain ensures accurate indexing of moulds along a production line, minimising waste chocolate.



# Food Industry Chain

One of the largest and most diverse industries imaginable, the processing, manufacturing and packaging of the world's food products delivers challenges to engineers looking to meet tough productivity targets. This requires first class technical support and the right product for the job.

Renold offers the most comprehensive range of chain products designed for the food industry and works with many of the leading international brand names that we encounter every day.

Chain aimed at reducing maintenance, delivering high levels of resistance to wear, fatigue and corrosion and keeping your production levels at their highest; that's our speciality!

Renold has options, whatever your application environment!



| Conditions                                                                                               | The Chain Solution                                                                                  |                                                                                                                  |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Washdown                                                                                                 | Syno PB<br>Stainless steel chain                                                                    | Hydro-Service chain<br>Nickel plated chain<br>Polymer bushed conveyor chain                                      |
| Corrosive conditions - Mild (pH between 5 and 7)                                                         | Syno NP <sup>3 4</sup><br>Stainless Steel <sup>1 3 4 5</sup><br>Steriliser chain <sup>1 3 4 5</sup> | Polymer bushed conveyor chain <sup>3 4</sup><br>Hydro-Service chain <sup>3</sup><br>Nickel Plated <sup>3 4</sup> |
| Corrosive conditions - High<br>(pH below 5 and above 7; temperatures above 60°C)                         | Nickel Plated                                                                                       | Stainless Steel <sup>2</sup>                                                                                     |
| Cannot lubricate                                                                                         | Syno NP                                                                                             | Syno PB                                                                                                          |
| Direct contact with food                                                                                 | Stainless steel                                                                                     |                                                                                                                  |
| High shock loads                                                                                         | Standard roller chain<br>Standard conveyor chain                                                    | Engineering class chain                                                                                          |
| Heavy loads                                                                                              | Standard conveyor chain                                                                             | Renold Synergy                                                                                                   |
| Temperature: Hot or Cold (Between -40°C and 180°C.<br>Above 180°C special lubrication would be required) | Stainless steel<br>Steriliser chain                                                                 | Standard conveyor chain<br>Engineering class chain                                                               |
| High humidity                                                                                            | Stainless steel<br>Hydro-Service                                                                    | Steriliser chain                                                                                                 |
| High speed                                                                                               | Standard roller chain<br>Double Pitch roller chain                                                  | Can feeder chain                                                                                                 |
| Vertical system                                                                                          | Standard roller chain                                                                               | Engineering class chain                                                                                          |
| Indexing / moulding applications                                                                         | Standard roller chain                                                                               | Apron chain                                                                                                      |
| High Abrasion                                                                                            | Sovereign                                                                                           |                                                                                                                  |

1 = Suitable for temperatures over 60°C (stainless steel and steriliser chain)  
 2 = Suitable for highly corrosive conditions of more than 60°C (stainless steel)  
 3 = Suitable for environments associated with general corrosion

4 = Suitable for environments associated with pitting or crevice corrosion such as salt water, moderately high temperatures or a pH of 3 - 5  
 5 = Suitable for environments associated with galvanic corrosion

## Marine Diesel Chain

In one of the toughest and potentially most remote applications there is, chain is required to keep a ship's engine operational with a high resistance to wear and fatigue, which is where the expertise and design specification of a Renold chain comes into play.

Running at high speeds and with safety factors in mind, Renold manufactures chain specifically for marine diesel engines. The large pitch sizes, listed below, are matched prior to despatch to ensure optimum performance.

Renold manufactures chain not only for large vessels but also engines for small and medium sized engines too.

### Renold design experience

- Specification makes safety a priority
- Wear and fatigue resistance is a Renold strength
- Chain manufactured specifically for the application

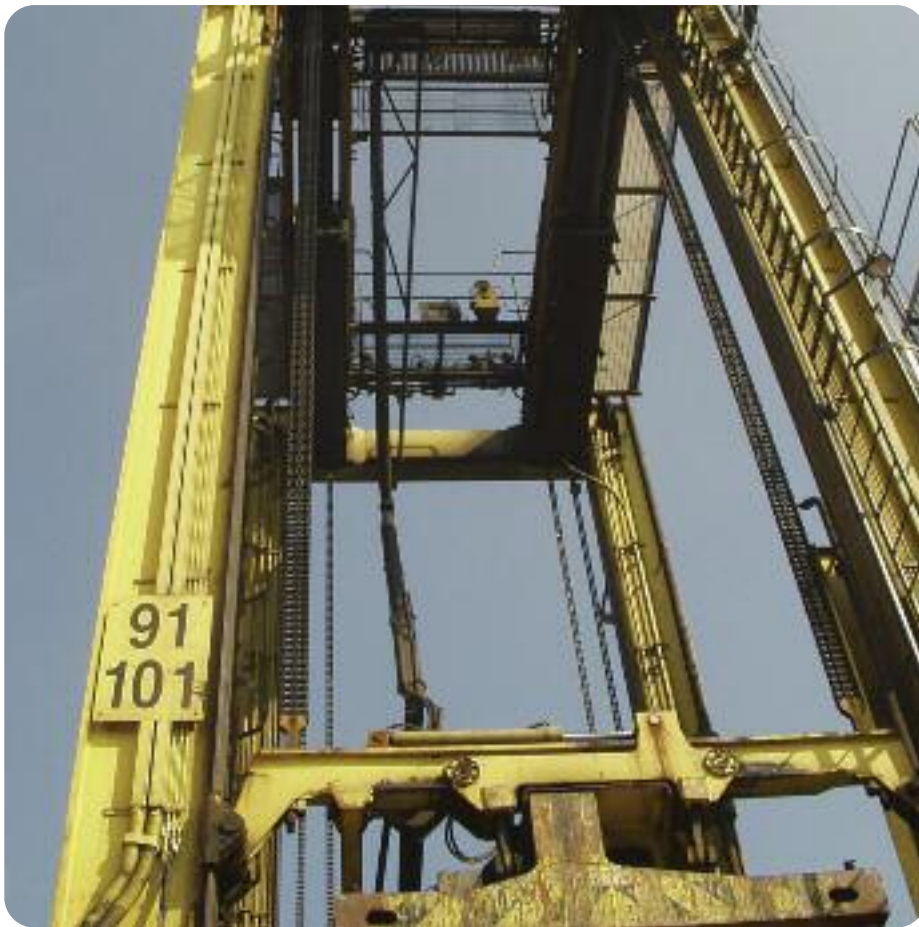


## Ports & Container Handling Chain

Renold supplies a wide range of chain for lifting applications at ports around the world. With a comprehensive range of both roller and leaf chain for lifting machinery running on either wheels or rails, the Renold specification of designing chain to be highly resistant to wear and fatigue delivers lasting performance.

Factors of safety are critical when large payloads are being transported and Renold understands the importance of ensuring long working life based on product integrity.

- ANSI standard large pitch roller chain
- Differing specifications to suit application
- Wide range of leaf chain sizes
- Galle chain also available



# Renold Oilfield chain is best because...

## Renold Oilfield Chain

- Manufactured to API specification 7F-0008
- Proven longer life in offshore environments
- Supreme performance at high speed and shock loads
- Excellent return on investment



## Function

Renold oilfield chains are used on:

- Mud pump drives
- Engine compounds
- Tubular and casing draw works input
- Transmission drives
- Catshafts
- Low and high drum
- Rotary countershafts
- Rotary tables

In fact wherever chains are required in oilfields because reliability is paramount.

## Key Features

- Close control of material specifications to ensure consistent response to heat treatment
- Renold's plate profile ensures optimum stress distribution for greater reliability
- Fatigue life is enhanced by shot peening and other pre-stressing processes on plates, bushes and rollers

- Renold's special holing processes for oilfield chain were specifically developed to give improved fatigue resistance while minimising susceptibility to stress corrosion cracking
- Bearing pins undergo customised heat treatment and surface finish operations to ensure unsurpassed toughness and wear life
- Closely controlled tolerances ensure smooth robust running even at high speeds.
- Specially formulated factory lubrication gives substantially better initial wear performance and enhanced corrosion resistance.
- Detachable chains for ease of fitting and replacement.
- All chains are proof loaded before packing in durable containers.
- Roll pins optional for extra security.

## Product Description

As standard Renold offer chain:

- To API specification 7F-0008
- Fully detachable along its length
- Both Split and roll pin options are available on all sizes, although roll pin recommended on quadruplex and above
- With slip fit intermediate plates

Options available on request include:

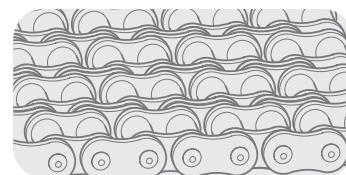
- Split pins/roll pins
- Press fit intermediate plates
- Special lubrication
- Renold ANSI Xtra for particularly arduous conditions
- Pipe wrench chain

Many common oilfield chains are held in stock at our factories and many outlets worldwide.

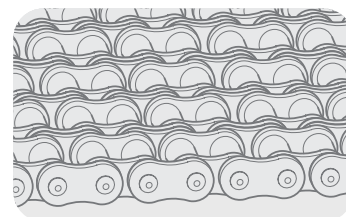
## Chain types



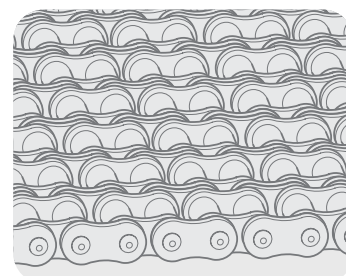
▲ Duplex chain  
Standard  
ANSI B29.1 ISO 606 A



▲ Quadruplex chain  
Standard  
ANSI B29.1 ISO 606 A



▲ Sextuplex chain  
Standard  
ANSI B29.1 ISO 606 A



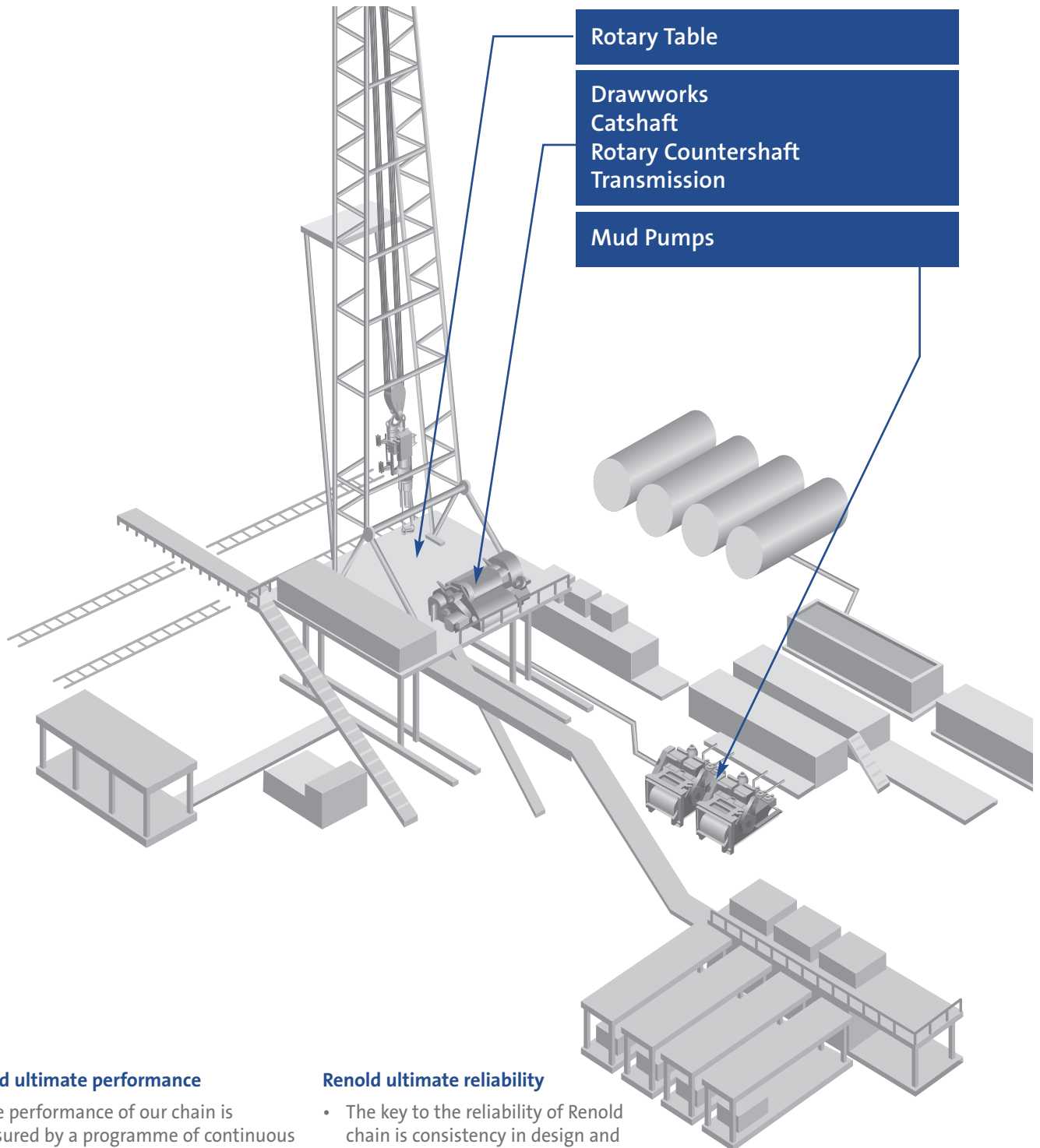
▲ Octuplex chain  
Standard  
ANSI B29.1 ISO 606 A



▲ Pipe wrench chain  
Special



# Oilfield Chain



## Renold ultimate performance

- The performance of our chain is ensured by a programme of continuous testing and quality audits
- Breaking loads exceed the minimum international standards
- Our specially formulated lubricants reduce initial wear, give corrosion protection and ensure long storage life
- Renold chain is highly fatigue resistant giving up to four times the life of other brands
- Fatigue life is enhanced by shot peening and other pre-stressing techniques

## Renold ultimate reliability

- The key to the reliability of Renold chain is consistency in design and manufacture
- Renold's sophisticated quality assurance systems continually monitor and improve our output
- For more than 100 years Renold has had a proven track record in demanding, arduous industries

## Steel Industry Chain

Wherever arduous conditions, corrosion and wear occur . . . steelmakers demand Renold Chain

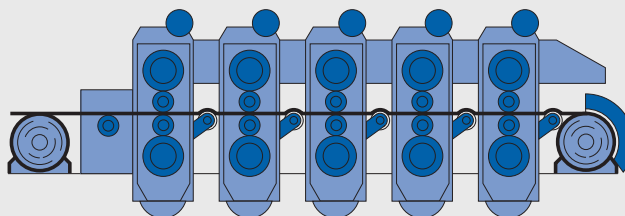


The steel industry covers many varied activities, from raw material processing to finished product handling, each stage having its own particular needs from the power transmission and mechanical handling equipment used.

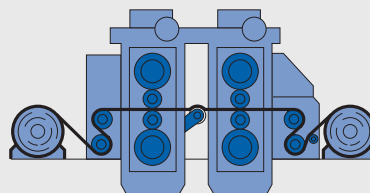
When corrosion, slipping or excessive wear occur on transmission or mechanical handling equipment used on steel processing lines the equipment can quickly take a turn for the worse, resulting in damaged product, expensive maintenance and replacement costs. That's why more and more steelmakers rely on Renold Chain to help their equipment last longer and operate more efficiently.

Renold are helping to improve equipment performance and are reducing maintenance requirements right down the line. Wherever the destructive forces of high speed operation exist, from cold reduction mills to hot dip coating lines, steelmakers around the world insist on Renold Chain.

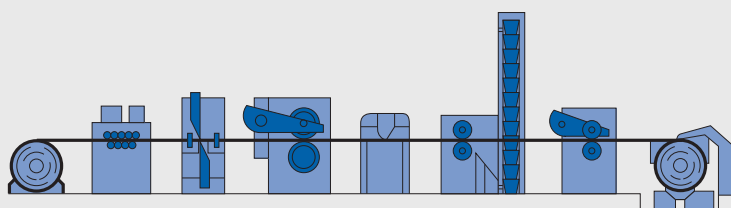
Cold Reduction Mill



Temper Mill



Slitter Lane



# Steel Industry Chain

## Key Application Areas

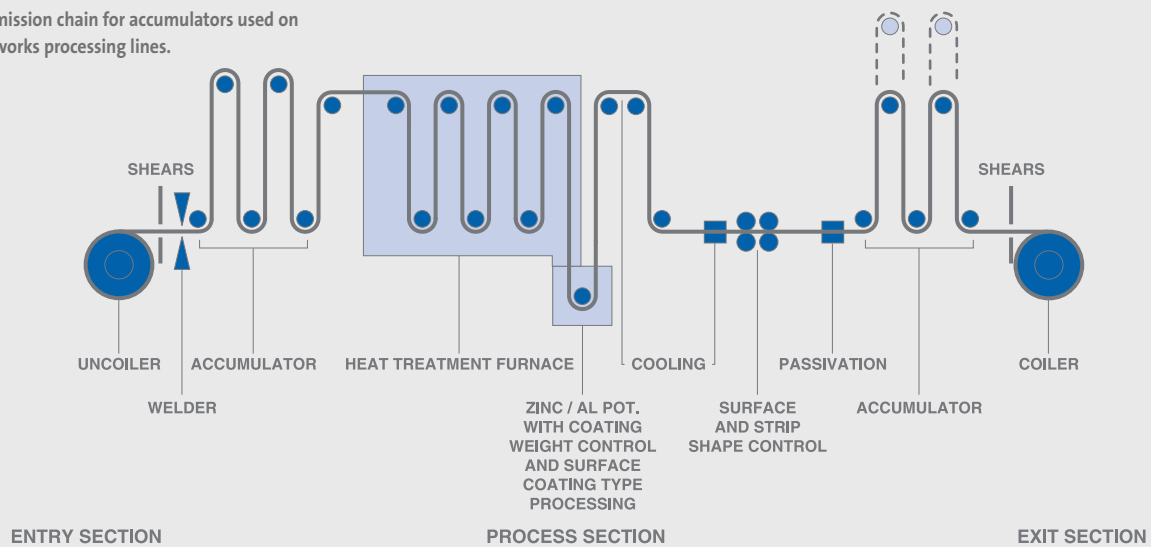
- Casting
- Coil handling
- Coil treatment
- Sheet handling
- Raw material processing
- Slab handling
- Steel section manufacture/handling
- Tube manufacture

## Accumulator Chain



## Hot Dip Coating Line

Transmission chain for accumulators used on steel works processing lines.



When coils of thin steel plate have been produced it is sometimes required to be coated - painted, galvanised or plastic coated.

Obviously, the coating process, whichever type it is, necessitates numerous operations and tight control - especially the speed at which the steel passes through the process area. It is, therefore, necessary that the steel plate being coated passes through the process section at a constant speed and is continuous and uninterrupted.

For this reason it is necessary to accumulate the steel plate before the process area to allow time, say 2 to 3 minutes, so that when the end of the coil is reached a new coil can be positioned and the beginning of the new one welded to the end of the previous one.

## Skid Steer Vehicle Chain

Operating in tough conditions, chain for skid steer vehicles has to be designed to exceed the demands placed upon it. Renold has a wealth of experience supplying chain to manufacturers of these specialist vehicles.

The drive systems deliver high loads and stress which means the chain must be able to withstand wear and fatigue for as long as possible, something that has always been at the very heart of Renold chain design. The

sudden shocks caused by rapid changes of direction will soon expose any chain that isn't up to the job.

Using simplex chain from the Renold ANSI Xtra range, with thicker side plates and a through-hardened pin, vehicle manufacturers can be sure that they are specifying a product that meets their own high standards. The chain can also be supplied as endless loops so that sprocket centre distance can be adjusted to accommodate the chain.

- Demanding application requires Renold fatigue resistance
- Plate and pin specification ideal for shock loadings
- Endless loops available
- Tough chain for a tough job



### **Safety warning**

Outer Link: for high speed drives or drives operating in arduous conditions a properly riveted outer link (No 107) must always be used for optimum security, in preference to any other form of chain joint. The use of other connectors and cranked links (No 12 and No 30) must always be restricted to light duty, non-critical applications, in drives where an odd number of pitches is absolutely unavoidable. Wherever possible, drives should have sufficient overall adjustment to ensure the use of an even number of pitches throughout the useful life of the chain. A cranked link joint should only be used as a last resort.

### **Health and Safety at work**

In the interests of safety, customers are reminded that when purchasing any technical product for use at work (or otherwise), any additional or up-to-date information and guidance, which it has not been possible to include in the publication, should be obtained by you from your local sales office in relation to the suitability and the safe and proper use of the product. All relevant information and guidance must be passed on by you to the person engaged in, or likely to be affected by or responsible for the use of the product.

### **Chain performance**

The performance levels and tolerances of our product stated in this catalogue (including without limitation, serviceability, wear life, resistance to fatigue, corrosion protection) have been verified in a programme of testing and quality control in accordance with Renold, independent and/or international standard recommendations.

No representations or warranties are given that our product shall meet the stated performance levels or tolerances for any given application outside the performance levels and tolerances for the product's own specific application and environment.

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