

Tyreflex Couplings



RENOLD
Superior Coupling Technology

www.renold.com

RENOLD

Strength through Service

Renold Gears has been manufacturing high quality, high specification gear units for over 100 years and has always been at the leading edge of gear technology with innovative products and power transmission solutions.

Interchangeability

Many of the products from Renold Gears are dimensionally interchangeable with other manufacturers gear units, allowing a trouble free replacement of gearboxes, in most cases upgrading the capacity through state of the art technology and materials.

Custom Made

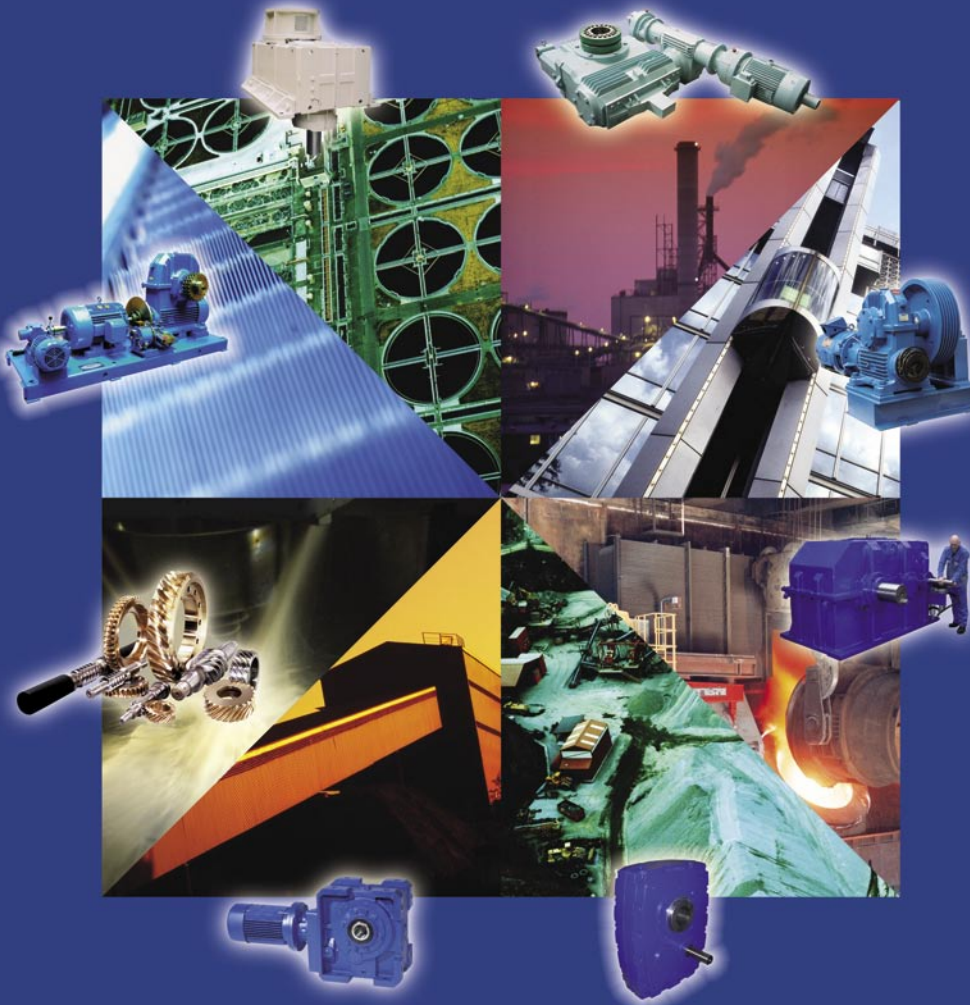
Renold Gears is unique in it's ability to offer custom made products designed to meet customers exacting requirements without compromise on availability and cost. From complete package solutions to individual precision replacement gears, all can be tailor made to meet specific applicational requirements.

Available

The most popular ranges of gearboxes are available from local distribution stock, backed up by extensive stocks from our manufacturing plant in the UK.

RENOLD
Superior Gear Technology

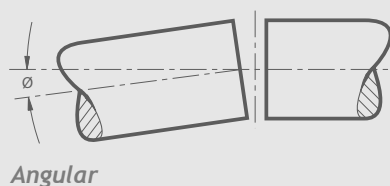
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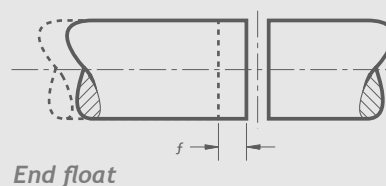
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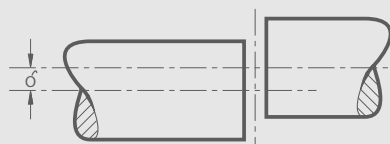
Coupling Selection Guide



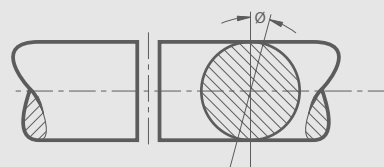
Angular



End float



Parallel offset



Torsional flexibility

Flexible Couplings should be used to accommodate any combination of misalignment conditions described below.

At installation all couplings should be aligned as near to perfect as possible.

1. Angular

Angular misalignment is present when the shaft axes are inclined one to the other. Its magnitude can be measured at the coupling faces.

2. Parallel Offset

Axial misalignment is present when the axes of the driving and driven shafts are parallel but laterally displaced.

3. End float (axial)

End float is the ability to accommodate a relative axial displacement of the connected shafts; achieved by sliding members or flexing of resilient components.

4. Torsional flexibility

Torsional flexibility is a design feature necessary to permit shock and impulsive loadings to be suitably dampened. It is achieved by the provision of a flexible medium such as rubber, springs, etc., between the two halves of the coupling.

Selection

In order to select the correct type and size of coupling, the following basic information should be known:

Power to be transmitted

- Normal.
- Maximum.
- Whether continuous or intermittent.

Characteristics of the drive

- Type of prime mover and associated equipment.
- Degree of impulsiveness of driven load.

Speed in revolutions per minute

- At which normal power is transmitted.
- At which maximum power is transmitted.
- Maximum speed.

Dimensions of shafts to be connected

- Actual diameter.
- Length of shaft extension.
- Full keyway particulars.

Selection

When the input drive is not steady (i.e. not from an electric motor), and/or the driven load is impulsive, the actual power is multiplied by a Service Factor from the Table 2 (page 13).

Selection Procedure

- Nominal power in kW to be transmitted = K .
- Select appropriate load classification from Table 1, denoted as either S, M or H.
- From Table 2, establish Service Factor(s) to be applied, taking into account hours of operation/day and prime mover = fD .
- From Table 3 select factor for the required frequency of starts/hr = fS .
- Selection Power $K_s = K \times fD \times fS$
- Equivalent power at 100 RPM = $\frac{K_s \times 100}{\text{RPM}}$
- Check that coupling selected will accept the required shaft diameters. Should shaft diameter exceed maximum permissible, then re-select using next larger size of coupling.

Load Classification by Application

Table 1

		Dry dock cranes					
Agitators		Main hoist	(2)	Planer feed chains	M	Presses	M
Pure liquids	S	Auxiliary hoist	(2)	Planer floor chains	M	Pulp machine reel	M
Liquids and solids	M	Boom, luffing	(2)	Planer tilting hoist	M	Stock chest	M
Liquids - variable density	M	Rotating, swing or slew	(3)	Re-saw merry-go-round conveyor	M	Suction roll	M
Blowers		Tracking, drive wheels	(4)	Roll cases	H	Washers and thickeners	M
Centrifugal	S	Elevators		Slab conveyor	H	Winders	M
Lobe	M	Bucket - uniform load	S	Small waste conveyor-belt	S	Printing presses	*
Vane	S	Bucket - heavy load	M	Small waste conveyor-chain	M	Pullers	
Brewing and distilling		Bucket - continuous	S	Sorting table	M	Barge haul	H
Bottling machinery	S	Centrifugal discharge	S	Tipple hoist conveyor	M	Pumps	
Brew kettles - continuous duty	S	Escalators	S	Tipple hoist drive	M	Centrifugal	S
Cookers - continuous duty	S	Freight	M	Transfer conveyors	M	Proportioning	M
Mash tubs - continuous duty	S	Gravity discharge	S	Transfer rolls	M	Reciprocating	
Scale hopper - frequent starts	M	Man lifts	*	Tray drive	M	single acting: 3 or more cylinders	M
Can filling machines		Passenger	*	Trimmer feed	M	double acting: 2 or more cylinders	M
Cane knives (1)	M	Extruders (plastic)		Waste conveyor	M	single acting: 1 or 2 cylinders	*
Car dumpers	H	Film	S	Machine tools		double acting: single cylinder	*
Car pullers	M	Sheet	S	Bending roll	M	Rotary - gear type	S
Clarifiers	S	Coating	S	Punch press - gear driven	H	Rotary - lobe, vane	S
Classifiers	M	Rods	S	Notching press - belt drive	*	Rubber and plastics industries	
Clay working machinery		Tubing	S	Plate planners	H	Crackers (1)	H
Brick press	H	Blow moulders	M	Tapping machine	H	Laboratory equipment	M
Briquette machine	H	Pre-plasticisers	M	Other machine tools		Mixed mills (1)	H
Clay working machinery	M	Fans		Main drives	M	Refiners (1)	M
Pug mill	M	Centrifugal	S	Auxiliary drives	S	Rubber calenders (1)	M
Compressors		Cooling towers		Metal mills		Rubber mill, 2 on line (1)	M
Centrifugal	S	Induced draft	*	Drawn bench carriage and main drive	M	Rubber mill, 3 on line (1)	S
Lobe	M	Forced draft	*	Pinch, dryer and scrubber rolls, reversing	*	Sheeter (1)	M
Reciprocating - multi-cylinder	M	Large, mine etc.	M	Slitters	M	Tyre building machines	*
Reciprocating - single cylinder	H	Large, industrial	M	Table conveyors nonreversing group drives	M	Tyre and tube press openers	*
Conveyors - uniformly loaded or fed		Light, small diameter	S	Individual drives	H	Tubers and strainers (1)	M
Apron	S	Feeders		Reversing	*	Warming mills (1)	M
Assembly	S	Apron	M	Wire drawing and flattening machine	M	Sand muller	M
Belt	S	Belt	M	Wire winding machine	M	Screens	
Bucket	S	Disc	S	Mills, rotary type		Air washing	S
Chain	S	Reciprocating	H	Ball (1)	M	Rotary, stone or gravel	M
Flight	S	Screw	M	Cement kilns (1)	M	Travelling water intake	S
Oven	S	Food industry		Dryers and coolers (1)	M	Sewage disposal equipment	
Screw	S	Beef slicer	M	Kilns other than cement	M	Bar screens	S
Conveyors - heavy duty not uniformly fed		Dough mixer	M	Pebble (1)	M	Chemical feeders	S
Apron	M	Meat grinder	M	Rod, plain & wedge bar (1)	M	Collectors	S
Assembly	M	Generators - not welding		Tumbling barrels	H	Dewatering screws	M
Belt	M	Hammer mills		Mixers		Scum breakers	M
Bucket	M	Hoists		Concrete mixers continuous	M	Slow or rapid mixers	M
Chain	M	Heavy duty	H	Concrete mixers intermittent	M	Thickeners	M
Flight	M	Medium duty	M	Constant density	S	Vacuum filters	M
Live roll	*	Skip hoist	M	Variable density	M	Slab pushers	M
Oven	M	Laundry		Oil industry		Steering gear	*
Reciprocating	H	Washers - reversing	M	Chillers	M	Stokers	S
Screw	M	Tumblers	M	Oil well pumping	*	Sugar industry	
Shaker	H	Line shafts		Paraffin filter press	M	Cane knives (1)	M
Crane Drives - not dry dock		Driving processing equipment	M	Rotary kilns	M	Crushers (1)	M
Main hoists	S	Light	S	Paper mills		Mills (1)	M
Bridge travel	*	Other line shafts	S	Agitators (mixers)	M	Textile industry	
Trolley travel	*	Lumber industry		Barker - auxiliaries hydraulic	M	Batchers	M
Crushers		Barkers, hydraulic, mechanical	M	Barker - mechanical	H	Calenders	M
Ore	H	Burner conveyor	M	Barking drum	H	Cards	M
Stone	H	Chain saw and drag saw	H	Beater and pulper	M	Dry cans	M
Sugar (1)	M	Chain transfer	H	Bleacher	S	Dryers	M
Dredges		Craneway transfer	H	Calenders	M	Dyeing machinery	M
Cable reels	M	De-barking drum	H	Calenders - super	H	Looms	M
Conveyors	M	Edger feed	M	Converting machine except cutters, platers	M	Mangles	M
Cutter head drives	H	Gang feed	M	Conveyors	S	Nappers	M
Jig drives	H	Green chain	M	Couch	M	Pads	M
Manoeuvring winches	M	Live rolls	H	Cutters, platers	H	Range drives	*
Pumps	M	Log deck	H	Cylinders	M	Slashers	M
Screen drive	H	Log haul - incline	H	Dryers	M	Soapers	M
Stackers	M	Log haul - well type	H	Fell stretcher	M	Spinners	M
Utility winches	M	Log turning device	H	Fell whipper	H	Tenter frames	M
		Main log conveyor	H	Jordans	M	Washers	M
		Off bearing rolls	M	Log haul	H	Winders	M
						Windlass	*

Key

S = Steady
M = Medium Impulsive
H = Highly Impulsive
* = Refer to Renold

(1) = Select on 24 hours per day service factor only.
(2) = Use service factor of 1.00 for any duration of service.
(3) = Use service factor of 1.25 for any duration of service.
(4) = Use service factor of 1.50 for any duration of service.

Note

Machinery characteristics and service factors listed in this catalogue are a guide only. Some applications (e.g. constant power) may require special considerations. Please consult Renold.

Service Factors and Selection

Table 2 Service Factor (f_D)

Prime mover (Drive input)	Driven machinery characteristics			
	Duration service hours/day	Steady load	Medium impulsive	Highly impulsive
Electric, air & hydraulic Motors or steam turbine (Steady input)	Intermittent - 3hrs/day max	0.90	1.00	1.50
	3 - 10	1.00	1.25	1.75
	over 10	1.25	1.50	2.00
Multi-cylinder I.C. engine (Medium impulsive input)	Intermittent - 3hrs/day max	1.00	1.25	1.75
	3 - 10	1.25	1.50	2.00
	over 10	1.50	1.75	2.25
Single-cylinder I.C. engine (Highly impulsive input)	Intermittent - 3hrs/day max	1.25	1.50	2.00
	3 - 10	1.50	1.75	2.25
	over 10	1.75	2.00	2.50

Table 3 Factor for Starts/Hour(f_S)

No of starts per hour	0-1	1-30	30-60	60-
Factor	1,0	1,2	1,3	1,5

Example of Selection

Coupling is required to transmit 7.5kW at 1440 RPM to connect an electric motor to a gear box driving a chain conveyor running for 18 hours/day and starting 15 times/hour. Shaft diameters /55mm respectively.

$$K = 7.5\text{kW}$$

From Table 1 Load Classification = M (medium impulsive)

From Table 2 Service Factor $f_D = 1.5$

From Table 3 $f_S = 1.2$

Therefore selection kW is:-

$$\begin{aligned} K_s &= K \times f_D \times f_S \\ &= 7.5 \times 1.5 \times 1.2 \\ &= 13.5 \text{ kW} \end{aligned}$$

$$\begin{aligned} \text{Equivalent power at 100 RPM} &= \frac{K_s \times 100}{\text{RPM}} \\ &= \frac{13.5 \times 100}{1440} \\ &= 0.9375\text{kW @ 100RPM} \end{aligned}$$

From page 17 selection is RSC110 (644911)
(maximum bore 55 mm).

Key Stress

1. Permissible key stress = 70N/mm²
2. Nominal torque $T_{KM} = K \times 9550 / \text{RPM Nm}$
3. Force at key $F = T_{KM} / r$
4. Shaft Rad r. metres
5. Key area $A = J \times \text{HUB length mm}$
(Obtain from relevant catalogue page).
6. Key stress $f_k = F/A \text{ N/mm}^2$
7. If resultant stress is less than 70 N/mm² key stress is acceptable.
If resultant f_k is greater than 70, consider either two keyways or extending hub length.
8. Example:

$$\begin{aligned} T_{KM} &= 7.5 \times 9550 / 1440 = 49.7\text{Nm} \\ r &= 55/2 = 27.5\text{mm} \div 1000 = 0.0275\text{m} \\ F &= 49.7 / 0.0275 = 1741\text{N} \\ A &= 16 \times 45 = 720\text{mm}^2 \\ f_k &= 1741 / 720 = 2.4\text{N/mm}^2 \end{aligned}$$

Selection is therefore good.

For operation above 80% of the declared maximum coupling speed it is recommended that the coupling is dynamically balanced.



WARNING

It is the responsibility of the system designer to ensure that the application of the coupling does not endanger the other constituent components in the system. Service factors given are an initial selection guide.

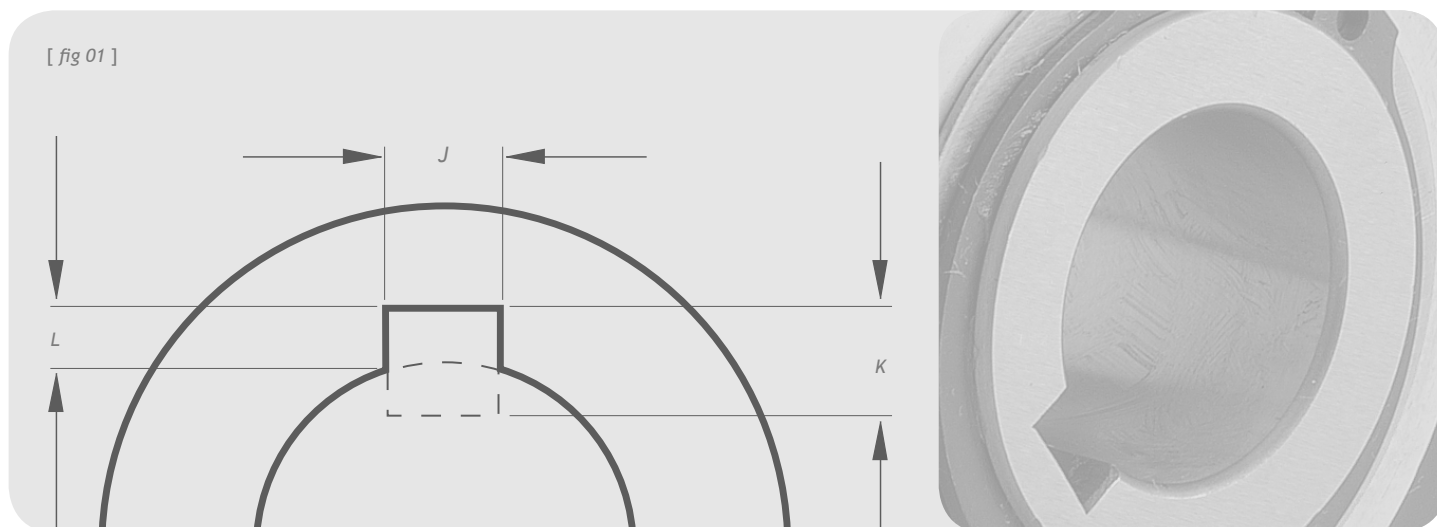


WARNING

Rotating equipment must be provided with a suitable guard before operating or injury may result.

Key and Keyway Dimensions

[fig 01]



Metric (mm)

Keyways comply with BS4235: Part 1: 1972

Shaft dia.		Key & keyway		
Over	Incl.	J	K	L
6	8	2	2	1.0
8	10	3	3	1.4
10	12	4	4	1.8
12	17	5	5	2.3
17	22	6	6	2.8
22	30	8	7	3.3
30	38	10	8	3.3
38	44	12	8	3.3
44	50	14	9	3.8
50	58	16	10	4.3
58	65	18	11	4.4
65	75	20	12	4.9
75	85	22	14	5.4
85	95	25	14	5.4
95	110	28	16	6.4
110	130	32	18	7.4
130	150	36	20	8.4
150	170	40	22	9.4
170	200	45	25	10.4
200	230	50	28	11.4

Imperial (inches)

Keyways comply with BS46: Part 1: 1958

Shaft dia.		Key & keyway		
Over	Incl.	J	K	L
0.25	0.05	0.125	0.125	0.060
0.50	0.75	0.187	0.187	0.088
0.75	1.00	0.250	0.250	0.115
1.00	1.25	0.312	0.250	0.090
1.25	1.50	0.375	0.250	0.085
1.50	1.75	0.437	0.312	0.112
1.75	2.00	0.500	0.312	0.108
2.00	2.50	0.625	0.437	0.162
2.50	3.00	0.750	0.500	0.185
3.00	3.50	0.875	0.625	0.245
3.50	4.00	1.000	0.750	0.293
4.00	5.00	1.250	0.875	0.340
5.00	6.00	1.500	1.000	0.384

Keyway dimensions [fig 01]

Parallel keyways are supplied unless customer states otherwise.

Tyreflex



A range of highly flexible couplings offering excellent misalignment capacity and suitable to absorb both shock loads and vibrations.

Coupling capacity

- Maximum power @ 100RPM: 65.8 kW
- Maximum torque: 6270 Nm

Features and benefits

- High misalignment capabilities - high flexibility.
- Shock absorbing - extending machine life.
- Maintenance free - minimum number of wearing parts.
- Fire retardant, anti-static elements available for use in a flameproof environment.
- Interchangeability means no re-engineering.

- Pump spacer option for easy pump maintenance.
- Taper bush bores available for ease of replacement.
- Easy replacement of tyre element without any need to move hubs axially on driven or driving shafts.

Standard range comprises

- Shaft to Shaft
- Pump Spacer Type

Applications

- Compressors
- Generator Sets
- Pumps

- Roller Table Drives
- General Industrial Applications

Construction details

Steel or S.G. Iron Half Bodies

Rubber Tyres:

Temp Range -50°C to +50°C

Chloroprene Tyres:

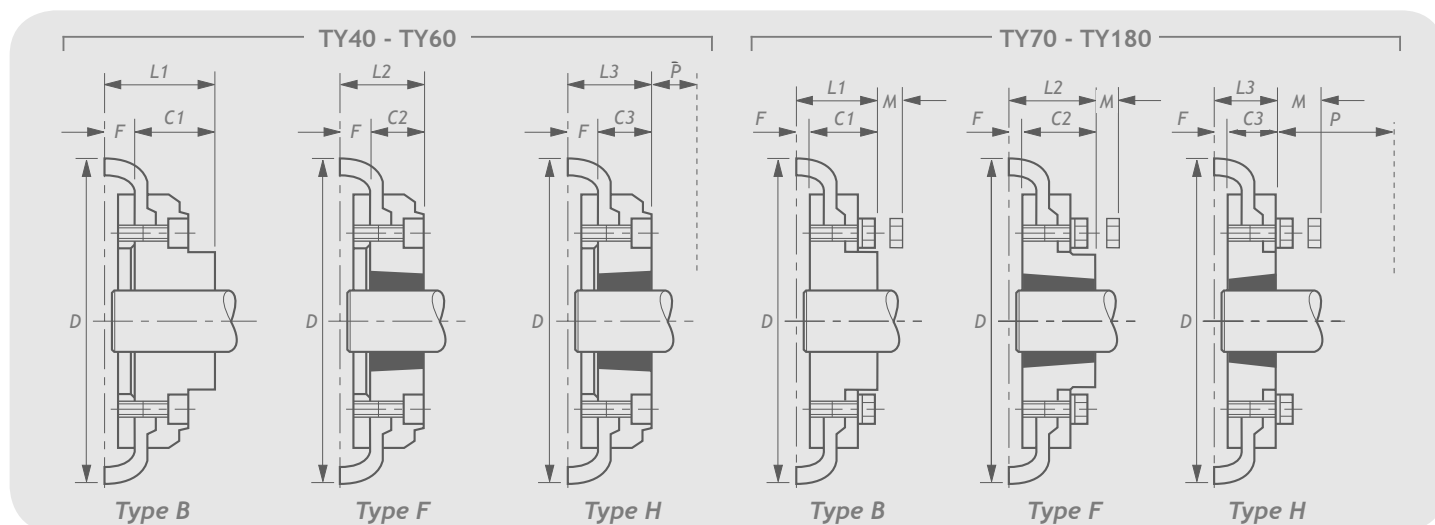
Temp Range -15°C to +70°C



Can be certified for use in potentially explosive atmospheres containing gas or dust, according to ATEX directive 94/9/EC.

The couplings are classified for equipment group II, categories 2 and 3.

Contact Renold for further details.



Coupling size	Power /100rpm kW	Torque nominal Nm	Speed max rpm	Type B		Type F			Type H			Max misalignment		End float mm	Torsional stiffness Nm° at 20°C
				Bore		Bush size	Bore		Bush size	Bore		Offset mm	Angular deg		
				Max	Min		Max	Min		Max	Min				
TY40 # #	0.26	25	4500	30	12	TB1008	25	9	TB1008	25	9	1.1	4	±1.3	6
TY50 # #	0.69	66	4500	38	15	TB1210	32	11	TB1210	32	11	1.3	4	±1.7	12.5
TY60 # #	1.33	127	4000	45	18	TB1610	42	14	TB1610	42	14	1.6	4	±2.0	32
TY70 # #	2.62	250	3600	50	22	TB2012	50	14	TB1610	42	14	1.9	4	±2.3	60
TY80 # #	3.93	375	3100	60	25	TB2517	60	16	TB2012	50	14	2.1	4	±2.6	63
TY90 # #	5.24	500	3000	70	28	TB2517	60	16	TB2517	60	16	2.4	4	±3.0	91
TY100 # #	7.07	675	2600	80	32	TB3020	75	25	TB2517	60	16	2.6	4	±3.3	126
TY110 # #	9.2	875	2300	95	30	TB3020	75	25	TB3020	75	25	2.9	4	±3.7	178
TY120 # #	13.9	1300	2050	110	38	TB3525	100	35	TB3020	75	25	3.2	4	±4.0	296
TY140 # #	24.3	2320	1800	130	75	TB3525	100	35	TB3525	100	35	3.7	4	±4.6	470
TY160 # #	39.4	3770	1600	140	85	TB4030	100	40	TB4030	100	40	4.2	4	±5.3	776
TY180 # #	65.8	6270	1500	150	85	TB4535	125	55	TB4535	125	55	4.8	4	±6.0	1370

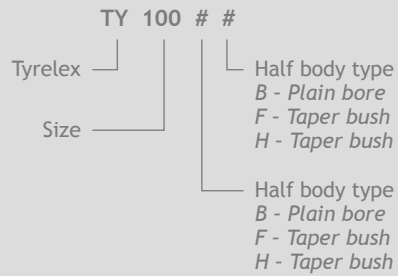
Coupling size	Dimensions										Type B mass* kg	Type F mass* kg	Type H mass* kg
	C1 mm	C2 mm	C3 mm	D mm	F mm	L1 mm	L2 mm	L3 mm	M mm	P mm			
TY40 # #	22	22	22	104	11	33.5	33.5	33.5	N/A	29	1.05	1.05	1.05
TY50 # #	32	25	25	133	12.5	45	38	38	N/A	38	1.5	1.5	1.5
TY60 # #	38	25	25	165	16.5	55	42	42	N/A	38	2.35	2.35	2.35
TY70 # #	35	32	25	187	11.5	47	44	42	13	38	3.45	3.45	3.45
TY80 # #	42	45	32	211	12.5	55	58	45	16	42	5	5	5
TY90 # #	49	45	45	235	13.5	63	59	59	16	48	7.25	7.25	7.25
TY100 # #	56	51	45	254	13.5	70	65	59	16	48	10	10	10
TY110 # #	63	51	51	279	12.5	76	63.5	63.5	16	55	12.5	11.7	11.7
TY120 # #	70	65	51	314	14.5	84.5	78.5	65.5	16	67	16.9	16.5	15.9
TY140 # #	94	65	65	359	16	110.5	81	81	17	67	22.2	22.3	22.3
TY160 # #	102	77	77	402	15	117	92	92	19	80	35.8	33.5	32.5
TY180 # #	114	89	89	470	23	137	112	112	19	89	49.1	42.2	42.2

NOTE: M is distance by which clamping screws need to be withdrawn to release tyres.

P is wrench clearance for taper bush screws when large end is outboard Type H.

*Mass is for single hub assembly and half tyre.

Ordering code



Component Spares

Coupling size	Tyre flexible element		Half body unbored Type B		Half body taper bored Type F		Half body taper bored Type H	
	Catalogue no	Product no	Catalogue no	Product no	Catalogue no	Product no	Catalogue no	Product no
TY40 # #	TY40	7131104/1	TY40 B	7131104/HB02	TY40 F	7131104/HB77	TY40 H	7131104/HB88
TY50 # #	TY50	7131105/1	TY50 B	7131105/HB02	TY50 F	7131105/HB77	TY50 H	7131105/HB88
TY60 # #	TY60	7131106/1	TY60 B	7131106/HB02	TY60 F	7131106/HB77	TY60 H	7131106/HB88
TY70 # #	TY70	7132107/1	TY70 B	7132107/HB02	TY70 F	7131107/HB77	TY70 H	7132107/HB88
TY80 # #	TY80	7132108/1	TY80 B	7132108/HB02	TY80 F	7132108/HB77	TY80 H	7132108/HB88
TY90 # #	TY90	7132109/1	TY90 B	7132109/HB02	TY90 F	7132109/HB77	TY90 H	7132109/HB88
TY100 # #	TY100	7132110/1	TY100 B	7132110/HB02	TY100 F	7132110/HB77	TY100 H	7132110/HB88
TY110 # #	TY110	7132111/1	TY110 B	7132111/HB02	TY110 F	7132111/HB77	TY110 H	7132111/HB88
TY120 # #	TY120	7132112/1	TY120 B	7132112/HB02	TY120 F	7132112/HB77	TY120 H	7132112/HB88
TY140 # #	TY140	7132114/1	TY140 B	7132114/HB02	TY140 F	7132114/HB77	TY140 H	7132114/HB88
TY160 # #	TY160	7132116/1	TY160 B	7132116/HB02	TY160 F	7132116/HB77	TY160 H	7132116/HB88
TY180 # #	TY180	7132118/1	TY180 B	7132118/HB02	TY180 F	7132118/HB77	TY180 H	7132118/HB88

The best range of solution chain products available anywhere



RENOLD **Synergy**[™]

- High performance
- Superior wear life
- Outstanding fatigue resistance



RENOLD **Syno**[™]

- Maintenance free
- Self-lubricating chain
- Food industry-approved lubricant



RENOLD

- Best premium chain
- Leading performance
- Solid bush / solid roller / end softened pin



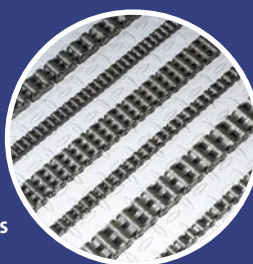
Hydro-Service[™]

- Superior corrosion resistant coating
- Alternative choice to stainless steel chain
- Will not chip or peel
- Hexavalent chrome-free



Steel Pin Bush Roller Chain

- Manufactured to international stds
- Full range of pitch alternatives
- Breaking loads 13 to 900 kN as std
- Attachments to suit varied applications



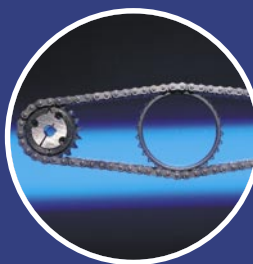
Leaf Chain

- Comprehensive ranges used worldwide for safety critical lifting applications
- 100 years experience in developing and maintaining lifting chain



Steel Knuckle Chain

- Heavy duty, detachable elevator chains
- Integral K type attachments
- Breaking loads from 642kN to 1724kN
- Sealed joint to extend chain life



Roll-Ring[™]

- Revolutionary chain tensioner
- Installed in seconds and self adjusting
- Maintenance free
- Also acts as noise damper



Customised Engineering Chain

- Wide range to suit specialised applications using high specification materials and treatment processes
- Designed in close collaboration with customer



Smartlink[™]

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