

**RENOLD**

timber

chain



**RENOLD**

rugged, robust, reliable

# Timber industry

## RENOLD TIMBER CHAIN

- Supreme shock resistance
- Designed for longer life
- Over 110 years experience in timber chain design and manufacture
- All chain produced in ISO 9001 approved factories

## FUNCTION

Renold's wide range of timber chains are used in:

- Frame and circular saw mills
- Transfer from log pool to sorter tables, unscrambler and log decks
- Debarkers to kicker units
- Trough conveyors
- Cross transfer conveyors
- Transfer to reception tables
- Infeed and outfeed
- Accurate positioning of cants and boards before cutting and edging
- Conveying to drying kilns
- Conveying of surface - sensitive boards

## KEY FEATURES

Conveyor chains

- Special selection of material specifications
- Most accurate holing and pin/plate fit to ensure optimal resistance to shock loading
- Independently verified deeper case hardening of pins and bushes for guaranteed longer life
- Precision heat treatment of plates for long life and impact resistance
- Full round riveting on larger sizes for optimal side impact resistance

Roller chains

- Wide range of 'cat' and sticker chains for economic transfer of boards
- ANSI heavy range for maximum fatigue performance
- Precision holing on plates for accurate positioning
- Renowned optimal chain life
- Widest range of surface-sensitive conveying chains for high quality boards
- Extremely low consistent wear rates
- Full round riveting for optional security

## PRODUCT DESCRIPTION

ISO Conveyor chains

- ISO M20 to M900 in standard pitch
- Bush chain with small - large or flanged rollers available
- Straight and deep link side plates

Roller Chains

- Full ANSI heavy chains 3/4" to 2.5" H and HV single, 2,3 and 4 strand options
- Straight sideplate 3/8" to 2", ISO and ANSI standard

Tooth/ Pusher and Conveyor Chains

- 2 to 5 tooth, 3.4" to 2" pitches, up to 4 strand, ISO and ANSI standard
- Extended pitch, ANSI and ISO standard up to 3" pitch
- Polymer block and Klik Top, in ANSI and BS 1/2, 3/4 and 1" pitch

Options available

- Special lubrication
- Stainless steel
- Low maintenance version
- Induction hardened teeth

## CHAIN TYPES



ISO conveyor chain designed for longer life and severe impact loading.



ANSI heavy drive roller chain for long life in arduous conditions.



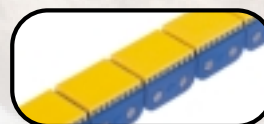
ISO and ANSI straight side plate for accurate conveying of products.



Pusher and Sticker type for conveying. This is a pusher chain. Either standard or with induction hardened teeth.



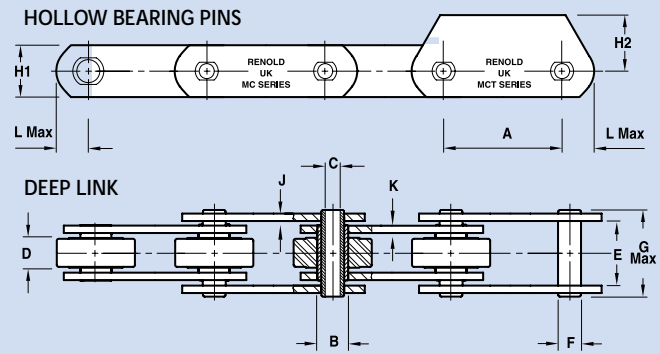
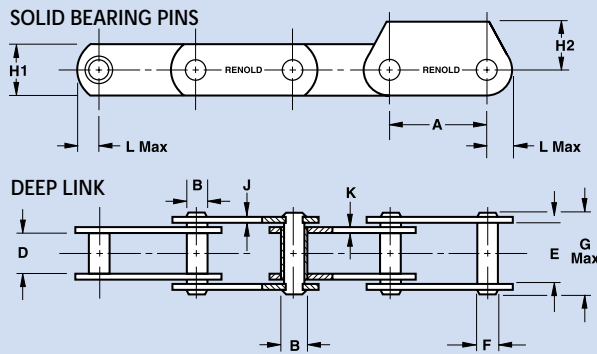
ANSI and ISO extended pitch for conveying of boards and cants.



Klik Top chain for quick repair of chain used to convey surface sensitive boards.

# Standard Conveyor Chain

## ISO-1977, DIN8167, BS4116



### ISO STANDARD CHAIN

Chain Technical Details

Chain No	Breaking Load	Pitch Min	Max	Bush Dia	Hollow Bearing Pin	INSIDE Width Inner	Width Outer	PIN Dia	Len	Plate Height	Height	Width Outer	Width Inner	Head
	N	A	Max A	Min B	Min C	Min D	Max E	Max F	G	H1	H2	J	Max K	L

#### SOLID BEARING PIN

M20	20000	40	160	9.0	-	16.0	22.2	6.0	30.5	18.0	16.0	2.5	2.5	10.5
M28	28000	50	200	10.0	-	18.0	25.2	7.0	35.0	20.0	20.0	3.0	3.0	11.5
M40	40000	63	250	12.5	-	20.0	28.3	8.5	41.0	25.0	22.5	3.5	3.5	15.0
M56	56000	63	250	15.0	-	24.0	33.3	10.0	46.5	30.0	30.0	4.0	4.0	17.5
M80	80000	80	315	18.0	-	28.0	39.4	12.0	55.0	35.0	32.5	5.0	5.0	20.2
M112	112000	80	400	21.0	-	32.0	45.5	15.0	63.5	40.0	40.0	6.0	6.0	23.0
M160	160000	100	500	25.0	-	37.0	52.5	18.0	73.5	50.0	45.0	7.0	7.0	29.0
M224	224000	125	630	30.0	-	43.0	60.6	21.0	84.0	60.0	60.0	8.0	8.0	35.0
M315	315000	160	630	36.0	-	48.0	70.7	25.0	97.0	70.0	65.0	10.0	10.0	38.1
M450	450000	200	800	42.0	-	56.0	82.8	30.0	114.0	80.0	80.0	12.0	12.0	43.4
M630	630000	250	1000	50.0	-	66.0	97.0	36.0	133.0	100.0	90.0	14.0	14.0	54.1
M900	900000	250	1000	60.0	-	78.0	113.0	44.0	153.0	120.0	120.0	16.0	16.0	64.7

#### HOLLOW BEARING PIN

MC28	28000	63	160	17.5	8.2	20.0	28.6	13.0	40.5	25.0	22.5	3.5	3.5	14.0
MC56	56000	80	250	21.0	10.2	24.0	33.7	15.5	46.5	35.0	32.5	4.0	4.0	19.4
MC112	112000	100	315	29.0	14.3	32.0	45.7	22.0	63.0	50.0	45.0	6.0	6.0	27.3
MC224	224000	160	500	41.0	20.3	43.0	60.8	31.0	83.0	70.0	65.0	8.0	8.0	37.8

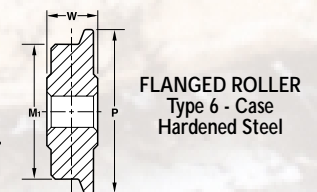
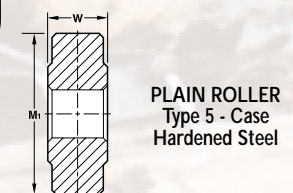
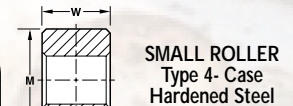
DIMENSIONS LISTED ABOVE WILL NOT VARY WITH PITCH SIZE IN EACH GIVEN BREAKING LOAD.  
STAINLESS AND ZINC PLATED CHAINS ARE AVAILABLE TO ORDER.

### ROLLER DIMENSIONS

Chain Technical Details

Chain No	Breaking Load	SMALL ROLLER TYPE 4		PLAIN ROLLER TYPE 2 & 5		FLANGED ROLLER TYPE 3 & 6		
		Tread Dia M	Roller Width W	Tread Dia M1	Roller Width W	Tread Dia M1	Dia P	Flanged Roller Width W
N								
M20	20000	12.5	15.0	25.0	15.0	25.0	30.0	15.0
M28	28000	15.0	17.0	30.0	17.0	30.0	36.0	17.0
M40	40000	18.0	19.0	36.0	19.0	36.0	42.0	19.0
M56	56000	21.0	23.0	42.0	23.0	42.0	50.0	23.0
M80	80000	25.0	27.0	50.0	27.0	50.0	60.0	27.0
M112	112000	30.0	31.0	60.0	31.0	60.0	70.0	31.0
M160	160000	36.0	36.0	70.0	36.0	70.0	85.0	36.0
M224	224000	42.0	42.0	85.0	42.0	85.0	100.0	42.0
M315	315000	50.0	47.0	100.0	47.0	100.0	120.0	47.0
M450	450000	60.0	55.0	120.0	55.0	120.0	140.0	55.0
M630	630000	70.0	65.0	140.0	65.0	140.0	170.0	65.0
M900	900000	85.0	76.0	170.0	76.0	170.0	210.0	76.0

#### CONVEYOR CHAIN - ISO ROLLERS



DIMENSIONS LISTED ABOVE WILL NOT VARY WITH PITCH SIZE IN EACH GIVEN BREAKING LOAD.  
STAINLESS AND ZINC PLATED CHAINS ARE AVAILABLE TO ORDER.

# Conveyor Chain - ISO Attachments Holes in Link Plates

## HOLLOW BEARING PIN CHAIN - CONNECTING LINKS

Chain Technical Details

Chain No	Breaking Load N	No 107 Chain Plain Side		No 58A# Chain Fastener Side	
		A	B	A	B

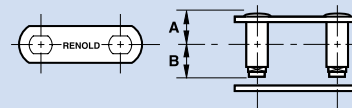
MC28	28000	20.0	20.0	20.0	23.9
MC56	56000	22.9	22.9	22.9	29.1
MC112	112000	31.2	31.2	31.2	38.7
MC224	224000	41.2	41.2	41.2	50.9

## SOLID BEARING PIN CHAIN - CONNECTING LINKS

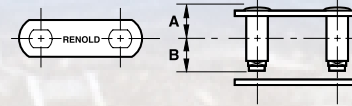
Chain No	Breaking Load N	No 107 Chain Plain Side		No 58A# Chain Fastener Side	
		A	B	A	B

M20	20000	15.1	15.1	15.1	18.0
M28	28000	17.3	17.3	17.3	20.2
M40	40000	20.2	20.2	20.2	24.2
M56	56000	23.1	23.1	23.1	29.2
M80	80000	27.3	27.3	27.3	33.4
M112	112000	31.4	31.4	31.4	38.9
M160	160000	36.6	36.6	36.6	44.6
M224	224000	41.7	41.7	41.7	51.4
M315	315000	48.4	48.4	48.4	58.6
M450	450000	56.6	56.6	56.6	70.0
M630	630000	65.9	65.9	65.9	79.1
M900	900000	76.1	76.1	76.1	93.5

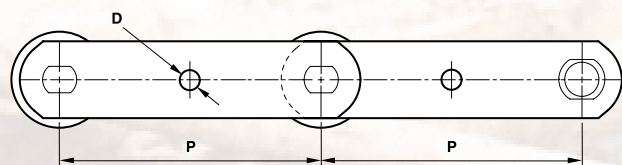
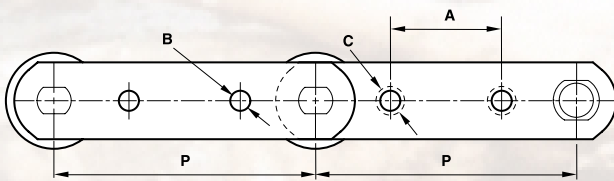
### CONNECTING LINKS



No 107 RIVETING LINK



No 58A SPLIT PIN LINK



## ISO ATTACHMENTS HOLES IN LINK PLATES

Chain Technical Details

Technical Details Two holes

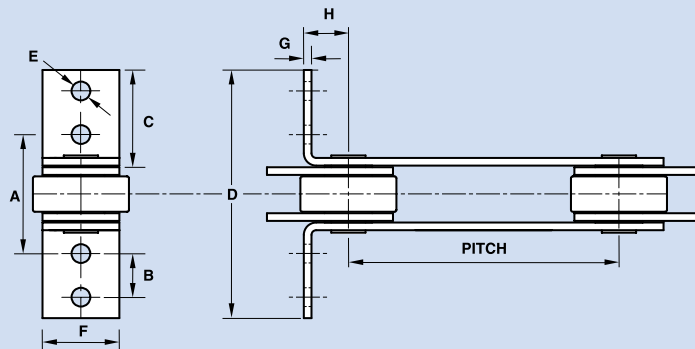
Chain No	Breaking Load N	Minimum Pitch Bush Chain P (min)	Minimum Pitch Small Roller P (min)	Minimum Pitch Large Roller P (min)	Hole Diameter D	Minimum Pitch* P (min)	Attachment Hole		
							Hole Pitch A	Hole Diameter B	Hole Diameter C

M20	20000	50.0	-	-	9.0	-	-	-	-
M28	28000	100.0	-	-	9.0	125.0	50.0	9.0	-
MC28	28000	100.0	-	-	9.0	125.0	63.0	9.0	-
M40	40000	100.0	-	-	11.0	160.0	63.0	9.0	-
M56	56000	100.0	-	-	11.0	160.0	63.0	11.0	-
MC56	56000	100.0	-	-	11.0	160.0	80.0	11.0	-
M80	80000	100.0	-	-	15.0	200.0	80.0	11.0	-
M112	112000	125.0	-	-	15.0	200.0	80.0	14.0	-
MC112	112000	125.0	-	-	15.0	200.0	100.0	14.0	-
M160	160000	160.0	-	-	21.0	250.0	100.0	14.0	-
M224	224000	160.0	-	-	21.0	250.0	100.0	18.0	-
MC224	224000	160.0	-	-	21.0	315.0	125.0	18.0	-
M315	315000	200.0	-	-	25.0	315.0	125.0	18.0	-
M450	450000	200.0	-	-	30.0	315.0	125.0	18.0	-
M630	630000	250.0	-	-	36.0	400.0	160.0	24.0	-
M900	900000	315.0	-	-	45.0	500.0	200.0	30.0	-

BASED ON SMALL PLAIN ROLLER - WILL BE INCREASED PRO RATA FOR OTHER TYPES

# Conveyor Chain ISO Attachments

# RENOLD

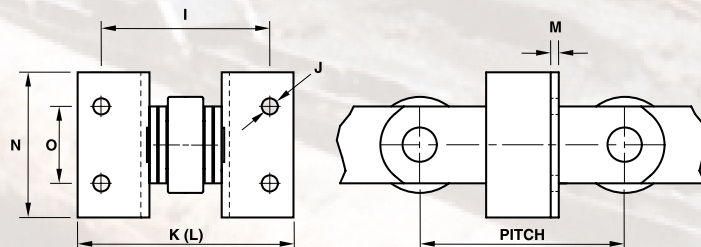


## ISO L ATTACHMENTS

Chain      Technical Details      L Attachments - Welded

Chain No	Breaking Load	Type	Transverse Pitch	Pitch of Attachment Holes	Attachment Face Length	Width Over Attachment Outer	Attachment Hole Diameter	Total Height of Attachment	Attachment Thickness	Distance of Pitch point to Attachment Face	Box Width*	Mass (kg)
N	A	B	C	D	E	F	G	H				
M20	20000	LO	-	-	53.90	130.0	-	18.0	2.5	15.0	150.0	0.018
M20	20000	LO	-	-	52.40	130.0	-	20.0	30.0	15.0	150.0	0.023
M40	40000	LO	-	-	75.85	180.0	-	25.0	3.5	30.0	200.0	0.054
M56	56000	LO	-	-	98.35	230.0	-	30.0	4.0	30.0	250.0	0.089
M80	80000	LO	-	-	95.30	230.0	-	35.0	5.0	30.0	250.0	0.124
M112	112000	LO	-	-	104.75	255.0	-	40.0	6.0	30.0	275.0	0.157
M164	164000	LO	-	-	113.75	280.0	-	50.0	7.0	35.0	300.0	0.254
M224	224000	LO	-	-	134.70	330.0	-	60.0	8.0	40.0	350.0	0.364
M315	315000	LO	-	-	154.65	380.0	-	70.0	10.0	50.0	400.0	0.645
M450	450000	LO	-	-	173.60	430.0	-	80.0	12.0	60.0	450.0	1.027
M630	630000	LO	-	-	166.50	430.0	-	100.0	14.0	70.0	450.0	1.676

\* ALTERNATIVE WIDTH AVAILABLE. PLEASE ENQUIRE.

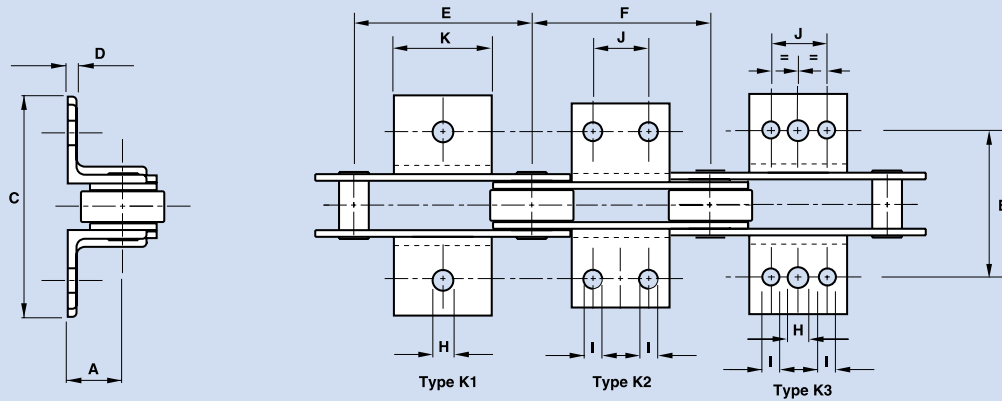


## ISO F ATTACHMENTS (WELDED)

Chain      Technical Details      F2 Attachments

Chain No	Breaking Load	Minimum Pitch Inner Plate	Minimum Pitch Outer Plate	Transverse Pitch	Attachment Hole Size	Width Over Att Outer Plate	Width Over Att Inner Plate	Attachment Thickness	Attachment Face Height	Pitch of Attachment Holes	Mass (kg)
N	I	J	K	L	M	N	O				
M20	20000	63.0	63.0	54.0	6.6	84.0	78.0	3.0	35.0	20.0	0.047
M28	28000	80.0	80.0	64.0	9.0	100.0	91.0	3.0	45.0	25.0	0.070
MC28	28000	80.0	80.0	70.0	9.0	112.0	104.0	3.5	40.0	20.0	0.085
M40	40000	80.0	80.0	70.0	9.0	112.0	104.0	3.5	40.0	20.0	0.085
M56	56000	100.0	100.0	88.0	11.0	129.0	119.0	5.0	50.0	25.0	0.204
MC56	56000	100.0	100.0	88.0	11.0	140.0	129.0	5.0	75.0	50.0	0.283
M80	80000	100.0	100.0	96.0	11.0	147.0	135.0	5.0	75.0	50.0	0.283
M112	112000	125.0	125.0	110.0	14.0	165.0	151.0	6.0	65.0	35.0	0.324
MC112	112000	125.0	125.0	110.0	14.0	186.0	171.0	7.0	80.0	50.0	0.629
M160	160000	125.0	125.0	124.0	14.0	195.0	178.0	6.0	80.0	50.0	8.629
M224	224000	160.0	160.0	140.0	18.0	224.0	206.0	8.0	105.0	65.0	1.078
MC224	224000	200.0	200.0	140.0	18.0	220.0	206.0	10.0	85.0	50.0	0.873
M315	315000	200.0	200.0	160.0	18.0	240.0	216.0	10.0	85.0	50.0	0.873
M450	450000	200.0	200.0	180.0	18.0	255.0	228.0	10.0	125.0	85.0	1.283
M630	630000	250.0	250.0	230.0	24.0	333.0	302.0	12.0	150.0	100.0	2.906
M900	900000	315.0	315.0	280.0	30.0	393.0	358.0	15.0	125.0	65.0	3.617

# Conveyor Chain (Solid Pin Type) ISO Attachments

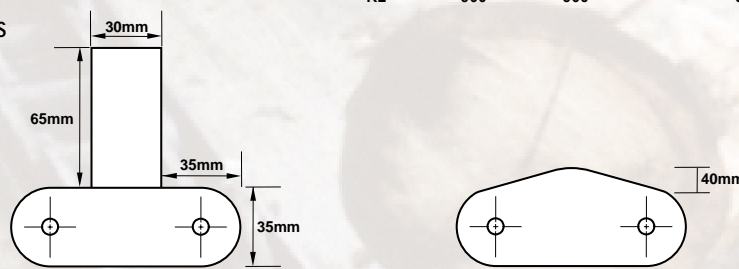


## ISO K ATTACHMENTS (WELDED) - SOLID PIN TYPE CHAIN

Chain Technical Details

Chain Platform No	Breaking Mass Load N	Platform Height A	Transverse Width Over Pitch B	Attachment Thickness Inner/Outer C	Attachment Type D	Attachment				Pitch Dia J	Outer Dia K	Hole (kg/Att)	
						Minimum E	Minimum Outer F	Hole Inner H	Holes Inner I				
M20	20000	16	54	78 / 84	3.0	K1	40	40	6.6	-	-	14	0.010
						K2	63	63	-	6.6	20	35	0.022
M28	28000	20	64	91 / 100	3.0	K1	50	50	9.0	-	-	20	0.018
						K2	80	80	-	9.0	25	45	0.040
M40	40000	25	70	104 / 112	3.5	K1	63	63	9.0	-	-	20	0.040
						K2	80	80	-	9.0	20	40	0.078
M56	56000	30	88	119 / 129	5.0	K1	100	100	9.0	9.0	40	60	0.110
						K2	125	125	-	9.0	65	85	0.150
M80	80000	35	96	135 / 147	5.0	K1	63	63	11.0	-	-	25	0.040
						K2	100	100	-	11.0	25	50	0.070
M112	112000	40	110	151 / 165	6.0	K1	125	125	11.0	11.0	50	75	0.110
						K2	160	160	-	11.0	85	110	0.150
M160	160000	45	124	178 / 195	6.0	K1	80	80	11.0	-	-	25	0.100
						K2	125	125	-	11.0	50	75	0.250
M224	224000	55	140	206 / 224	8.0	K1	160	160	11.0	11.0	85	110	0.370
						K2	200	200	-	11.0	125	150	0.500
M315	315000	65	160	216 / 240	10.0	K1	80	80	14.0	-	-	30	0.200
						K2	125	125	-	14.0	35	65	0.350
M450	450000	75	180	228 / 255	10.0	K1	160	160	14.0	14.0	65	95	0.500
						K2	200	200	-	14.0	100	130	0.750
M630	630000	90	230	302 / 333	12.0	K1	100	100	14.0	-	-	30	0.200
						K2	160	160	-	14.0	50	80	0.450
M900	900000	110	280	358 / 393	15.0	K1	200	200	14.0	14.0	85	115	0.650
						K2	250	250	-	14.0	145	175	0.950
M80 PITCH 100 BUSH CHIAN						K1	125	125	18.0	-	-	40	0.300
						K2	200	200	-	18.0	65	105	0.800
M224 PITCH 160 BUSH CHAIN						K1	250	250	18.0	18.0	125	165	1.200
						K2	315	315	-	18.0	190	230	1.650
						K1	160	160	18.0	-	-	35	0.500
						K2	200	200	-	18.0	50	85	0.850
						K1	250	250	-	18.0	100	135	1.400
						K2	315	315	-	18.0	155	190	1.850
						K1	200	200	18.0	-	-	40	0.600
						K2	250	250	-	18.0	85	125	1.400
						K1	315	315	-	18.0	155	195	2.400
						K2	400	400	-	18.0	240	280	3.500
						K1	250	250	24.0	-	-	50	1.300
						K2	315	315	-	24.0	100	150	3.700
						K1	400	400	-	24.0	190	240	5.600
						K2	500	500	-	24.0	300	350	7.500
						K1	250	250	30.0	-	-	60	1.700
						K2	315	315	-	30.0	65	125	4.800
						K1	400	400	-	30.0	155	215	7.500
						K2	500	500	-	30.0	240	300	9.800

### CUSTOMISED ATTACHMENTS



M80 PITCH 100 BUSH CHIAN

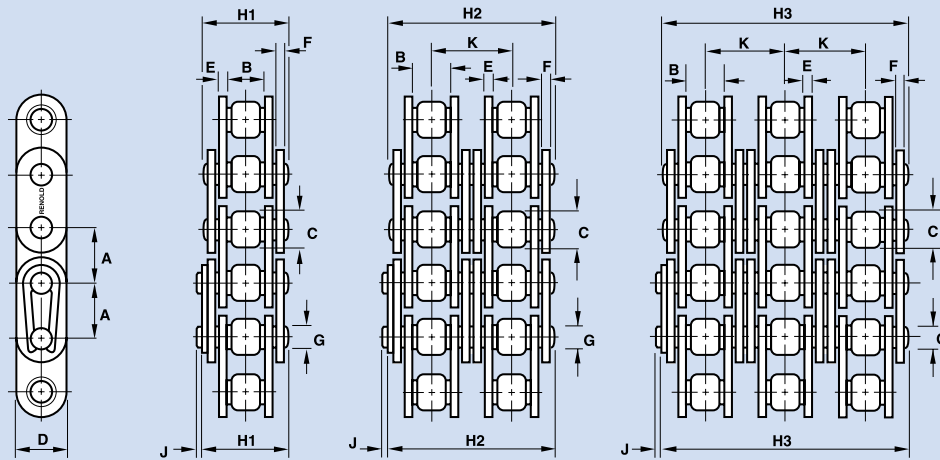
M224 PITCH 160 BUSH CHAIN

If you do not see your request please ask

# Transmission straight side plate

## British Standard BS228/ISO606/DIN8187

# RENOLD



### STRAIGHT SIDE PLATE - SIMPLE

Chain

Technical Details

Connecting Links

ISO No	Renold Chain No	Pitch Inch	Pitch mm	Inside Width	Roller Dia	Plate Height	Plate Width Inner	Plate Width Outer	Pin Dia	Pin Len	Con Link Extra	Trans Pitch	F <sub>B</sub> Newtons Min	Weight kg/m	No 4	No 107	No 26	No 30	No 11
		A	A	B	C	D	E	F	G	H1	J	K							
06B-1	110038	0.375	9.525	5.72	6.35	8.26	1.30	1.04	3.28	13.5	3.3	-	11100	0.39	✓	✓	-	✓	-
08B-1	110047	0.50	12.70	7.75	8.51	11.81	1.55	1.55	4.45	17.0	3.9	-	19000	0.70	✓	✓	-	✓	-
10B-1	110057	0.625	15.875	9.65	10.16	14.70	1.55	1.55	5.08	18.8	4.1	-	23000	0.92	✓	✓	-	✓	-
12B-1	110067	0.75	19.05	11.68	12.07	15.93	1.80	1.80	5.72	22.7	4.6	-	30500	1.20	✓	✓	-	✓	-
16B-1	110080	1.0	25.40	17.02	15.88	24.00*	4.12	3.10	8.28	36.1	5.4	-	67000	2.80	✓	✓	-	-	-
24B-1	110120	1.5	38.10	25.40	25.40	35.75*	6.10	5.08	14.63	53.4	6.6	-	166700	7.45	✓	✓	-	-	✓
28B-1	110140	1.75	44.45	30.99	27.94	41.68*	7.62	6.35	15.90	65.1	7.4	-	200000	9.35	✓	✓	-	-	✓
32B-1	110160	2.0	50.80	30.99	29.21	47.6*	7.11	6.35	17.81	67.4	7.9	-	255000	10.10	✓	✓	-	-	✓

### STRAIGHT SIDE PLATE - DUPLEX

06B-2	114038	0.375	9.525	5.72	6.35	8.26	1.30	1.04	3.28	23.8	3.3	10.24	18500	0.74	✓	✓	-	✓	-
08B-2	114047	0.50	12.70	7.75	8.51	11.81	1.55	1.55	4.45	31.0	3.9	13.92	36500	1.38	✓	✓	-	✓	-
10B-2	114057	0.625	15.875	9.65	10.16	14.70	1.55	1.55	5.08	35.4	4.1	16.59	44500	1.80	✓	✓	-	✓	-
12B-2	114067	0.75	19.05	11.68	12.07	15.93	1.80	1.80	5.72	42.2	4.6	19.46	61000	2.40	✓	✓	-	✓	-
16B-2	114080	1.0	25.40	17.02	15.88	24.00*	4.12	3.10	8.28	68.0	5.4	31.88	127500	5.50	✓	✓	✓	-	-
24B-2	114120	1.5	38.10	25.40	25.40	35.75*	6.10	5.08	14.63	101.8	6.6	48.36	333400	14.80	✓	✓	-	-	✓
28B-2	114140	1.75	44.45	30.99	27.94	41.68*	7.62	6.35	15.90	124.7	7.4	59.56	373700	18.60	✓	✓	-	-	✓
32B-2	114160	2.0	50.80	30.99	29.21	47.6*	7.11	6.35	17.81	126.0	7.9	58.55	485450	20.10	✓	✓	-	-	✓

### STRAIGHT SIDE PLATE - TRIPLEX

06B-3	116038	0.375	9.525	5.72	6.35	8.26	1.30	1.04	3.28	34.0	3.3	10.24	27500	1.10	✓	✓	-	✓	-
08B-3	116048	0.50	12.70	7.75	8.51	11.81	1.55	1.55	4.45	44.9	3.9	13.92	56000	2.06	✓	✓	✓	✓	-
12B-3	116067	0.75	19.05	11.68	12.07	15.93	1.80	1.80	5.72	61.7	4.6	19.46	92000	3.60	✓	✓	✓	✓	-
16B-3	116080	1.0	25.40	17.02	15.88	24.00*	4.12	3.10	8.28	99.9	5.4	31.88	191250	5.50	✓	✓	✓	-	-
24B-3	116120	1.5	38.10	25.40	25.40	35.75*	6.10	5.08	14.63	101.8	6.6	48.36	333400	14.80	✓	✓	-	-	✓
28B-3	116140	1.75	44.45	30.99	27.94	41.68*	7.62	6.35	15.90	184.3	7.4	59.56	560000	28.00	✓	✓	-	-	✓
32B-3	116160	2.0	50.8	30.99	29.21	47.6*	7.11	6.35	17.81	184.5	7.9	58.55	728700	30.00	✓	✓	-	-	✓

F<sub>B</sub> = AXIAL BREAKING FORCE

\* EXCEEDS ISO SPECIFICATIONS (ALLOWS FOR WEAR BEFORE THE BREAKING LOAD STARTS TO BE AFFECTED)



No.4



No.107



No.26

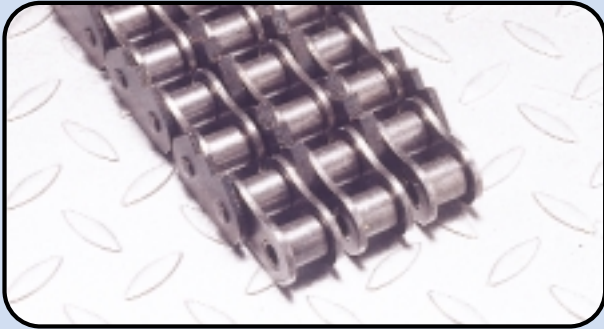


No.30



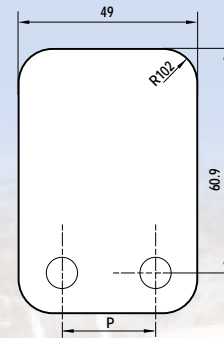
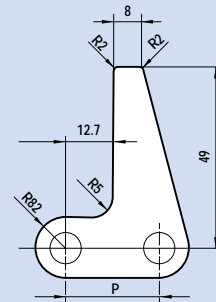
No.11

# Sticker Chain



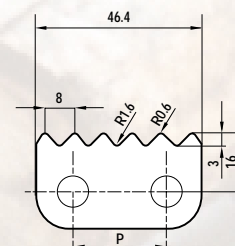
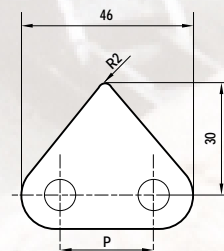
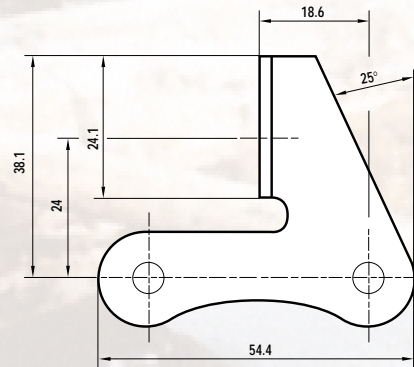
## RENOLD STICKER CHAIN

Sticker chain can be used for the conveying of timber. Depending on the weight and size, the shape of the spiked attachment will change. Almost any design of sticker attachment can be made available. Renold manufacture a wide range of specials made to order. Our technical staff can help with identification or advise on the interchangeability of a Renold chain.



## RENOLD PUSHER CHAIN

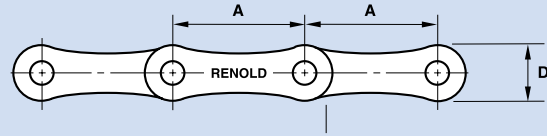
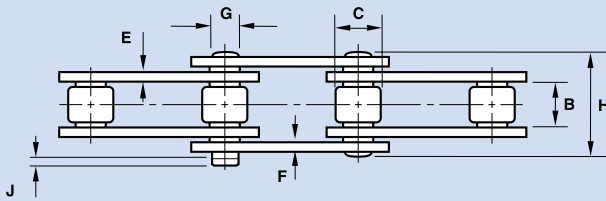
Renold has a wide range of pusher attachments designed to customers' requirements for the efficient and cost effective transport of all timber products from logs to trimmed board.





# Extended Pitch Simple ANSI B29.3/ISO1275/DIN8181

# RENOLD



## BRITISH STANDARD

Chain

Technical Details

Connecting Links

ISO No	Renold Chain No	Pitch Inch	Pitch mm	Inside Width	Roller Dia	Plate Height	Plate Width Inner	Plate Width Outer	Pin Dia	Pin Len	Con Link Extra	Trans Pitch	F <sub>B</sub> Newtons Min	Weight kg/m	No 4	No 107	No 11	No 58	No 12	No 30
		A	A	B	C	D	E	F	G	H	J	K								
208B	113083*	1.0	25.4	7.75	8.51	11.43	1.55	1.55	4.45	16.6	3.9	-	19000	0.53	✓	✓	✓	-	-	✓
210B	113103*	1.25	31.75	9.65	10.16	13.72	1.55	1.55	5.08	19.6	4.1	-	23000	0.66	✓	✓	✓	-	-	✓
212B	113123*	1.50	38.1	11.68	12.07	15.88	1.8	1.8	5.72	22.7	4.6	-	30500	0.90	✓	✓	✓	-	-	✓
216B	113168	2.0	50.8	17.02	15.88	20.83	4.12	3.1	8.28	36.1	5.4	-	67000	1.80	✓	✓	✓	-	-	✓
220B	113203	2.50	63.5	19.56	19.05	24.64	4.12	3.61	10.19	43.2	6.1	-	98070	2.45	✓	✓	✓	-	✓	-
224B	113243	3.0	76.2	25.4	25.4	33.53	6.1	5.08	14.63	53.4	6.6	-	166700	4.80	✓	✓	✓	-	✓	-
232B	113323	4.0	101.6	30.99	29.21	40.13	7.11	6.35	17.81	67.4	7.9	-	255000	5.95	✓	✓	✓	-	-	-

F<sub>B</sub> = AXIAL BREAKING FORCE \* STRAIGHT SIDEPLATE

## ANSI STANDARD

Chain

Technical Details

Connecting Links

ANSI No	Renold Chain No	Pitch Inch	Pitch mm	Inside Width	Roller Dia	Plate Height	Plate Width Inner	Plate Width Outer	Pin Dia	Pin Len	Con Link Extra	Trans Pitch	F <sub>B</sub> Newtons Min	Weight kg/m	No 4	No 107	No 11/58	No 12	
		A	A	B	C	D	E	F	G	H	J	K							
<b>RIVETED TYPE</b>																			
2040	113040	1.00	25.4	7.85	7.95	12.0	1.51	1.51	3.96	17.8	3.9	-	14100	0.40	✓	✓	✓	✓	
2050	113050	1.25	31.75	9.4	10.16	15.0	2.0	2.0	5.08	21.8	4.1	-	22200	0.70	✓	✓	✓	✓	
2060	113060	1.50	38.10	12.57	11.91	18.0	2.4	2.4	5.94	26.9	4.6	-	38000	1.05	✓	✓	✓	✓	
C2060H	1000304	1.50	38.10	12.57	11.91	18.0	3.17	3.17	5.94	28.60	4.60	-	38000	1.44	✓	✓	✓	✓	
2080	1000284	2.00	50.80	15.75	15.88	24.10	3.00	3.00	7.92	33.50	5.40	-	56700	1.76	✓	✓	✓	✓	
C2080H	1000956	2.00	50.80	15.75	15.88	24.10	4.00	4.00	7.92	35.80	5.40	-	65000	2.42	✓	✓	✓	-	
C2100H	113206	2.50	63.50	19.0	19.05	28.57	4.80	4.80	9.54	42.60	4.50	-	104500	3.47	✓	✓	✓	✓	
C2102H	113208	2.50	63.50	19.0	39.67	28.57	4.80	4.80	9.54	42.60	4.50	-	104500	5.65	✓	✓	✓	✓	
C2120H	113246	3.00	76.20	25.40	22.23	34.93	5.61	5.61	11.11	52.60	5.60	-	142300	4.93	✓	✓	✓	✓	
C2122H	113248	3.00	76.20	25.40	44.45	34.93	5.61	5.61	11.11	52.60	5.60	-	142300	7.89	✓	✓	✓	✓	
C2160H	113326	4.00	101.60	31.55	28.58	47.63	7.11	7.11	14.25	65.80	7.00	-	244600	8.04	✓	✓	✓	✓	
C2162H	113328	4.00	101.60	31.55	57.15	47.63	7.11	7.11	14.25	65.80	7.00	-	244600	12.80	✓	✓	✓	✓	
<b>DETACHABLE</b>																			
C2100H	113207	2.50	63.50	19.0	19.05	28.57	4.80	4.80	9.54	42.60	4.50	-	104500	3.53	✓	-	✓	✓	
C2102H	113209	2.50	63.50	19.0	39.67	28.57	4.80	4.80	9.54	42.60	4.50	-	104500	5.71	✓	-	✓	✓	
C2120H	113247	3.00	76.20	25.40	22.23	34.93	5.61	5.61	11.11	52.60	5.60	-	142300	5.04	✓	-	✓	✓	
C2122H	113248	3.00	76.20	25.40	44.45	34.93	5.61	5.61	11.11	52.60	5.60	-	142300	8.00	✓	-	✓	✓	
C2160H	113327	4.00	101.60	31.55	28.58	47.63	7.11	7.11	14.25	65.80	7.00	-	244600	8.12	✓	-	✓	✓	
C2162H	113329	4.00	101.60	31.55	57.15	47.63	7.11	7.11	14.25	65.80	7.00	-	244600	12.88	✓	-	✓	✓	

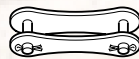
F<sub>B</sub> = AXIAL BREAKING FORCE



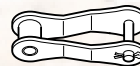
No.4



No.107



No.11/58



No.12

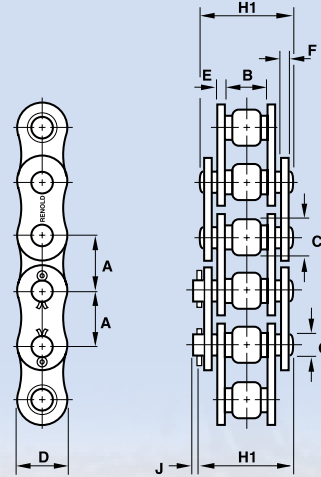


No.30

# ANSI Extra Chain

## 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.



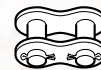
Chain		Technical Details											Connecting Links			
ANSI No	Renold Chain No	Pitch Inch	Pitch mm	Inside Width	Roller Dia	Plate Height	Plate Width Inner	Plate Width Outer	Pin Dia	Pin Len	Con Link Extra	F <sub>B</sub> Newtons Min	Weight kg/m	No 4	No 107	No 58
		A	A	B	C	D	E	F	G	H1	J					
60H	187661	0.75	19.05	12.57	11.91	17.50	3.17	3.17	5.94	28.6	4.6	40000	1.8	✓	✓	✓
60HV	187666	0.75	19.05	12.57	11.91	17.50	3.17	3.17	5.94	28.6	4.6	55000	1.8	✓	✓	✓
80H	189531	1.0	25.4	15.75	15.88	24.05	4.06	4.06	7.93	37.0	5.4	70000	3.3	✓	✓	✓
80V	189546	1.0	25.4	15.75	15.88	24.05	3.25	3.25	7.93	35.5	5.4	75000	2.8	✓	✓	✓
80HV	189541	1.0	25.4	15.75	15.88	24.05	4.06	4.06	7.93	37.0	5.4	87000	3.3	✓	✓	✓
100H	188556	1.25	31.75	18.90	19.05	29.97	4.8	4.8	9.54	44.1	6.1	104500	4.8	✓	✓	✓
100V	188576	1.25	31.75	18.90	19.05	29.97	4.06	4.06	9.54	41.1	6.1	122000	4.2	✓	✓	✓
100HV	188566	1.25	31.75	18.90	19.05	29.97	4.8	4.8	9.54	44.1	6.1	133450	4.8	✓	✓	✓
120H	188661	1.50	38.1	25.23	22.23	35.89	5.61	5.61	11.11	54.1	6.6	142000	6.3	✓	✓	✓
120V	188676	1.50	38.1	25.23	22.23	35.89	4.8	4.8	11.11	50.8	6.6	169000	5.7	✓	✓	✓
120HV	188671	1.50	38.1	25.23	22.23	35.89	5.61	5.61	11.11	54.1	6.6	182400	6.3	✓	✓	✓
140H	188716	1.75	44.45	25.23	25.4	41.81	6.35	6.35	12.71	57.9	7.4	191000	8.6	✓	✓	✓
140V	188736	1.75	44.45	25.23	25.4	41.81	5.61	5.61	12.71	54.9	7.4	235000	7.8	✓	✓	✓
140HV	188726	1.75	44.45	25.23	25.4	41.81	6.35	6.35	12.71	57.9	7.4	258000	8.6	✓	✓	✓
160H	188731	2.0	50.8	31.55	28.58	47.73	7.11	7.11	14.29	68.5	7.9	244500	11.2	✓	✓	✓
160V	188746	2.0	50.8	31.55	28.58	47.73	6.35	6.35	14.29	65.5	7.9	289000	10.4	✓	✓	✓
160HV	188741	2.0	50.8	31.55	28.58	47.73	7.11	7.11	14.29	68.5	7.9	311400	11.2	✓	✓	✓



No.4



No.107



No.58

# Polymer Block Chain -Klik Top

**RENOLD**

## KLIK TOP CHAIN

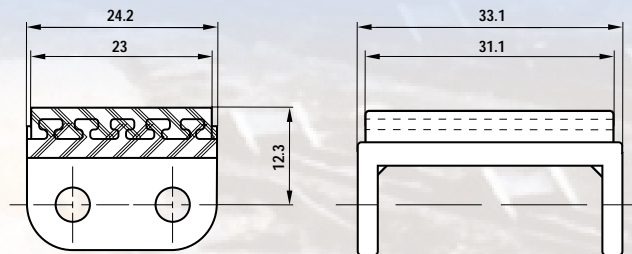
This revolutionary chain clip design has moved technology in a completely new direction. Klik Top is a highly wear-resistant base chain and clip which can be attached separately.

The clip is attached externally and can be replaced many times during the chain's lifetime.

The clip surface consists of wear-resistant yellow polyurethane with a blue base of reinforced polyamide.

Benefits:

- Exchangeable polymer blocks
- Short down times
- Large contact surface
- Durable bond between the base of reinforced polyamide & polyurethane on top
- 15% weight reduction
- Alkali, grease and oil resistant
- High tensile strength



## ISO STANDARD

Chain

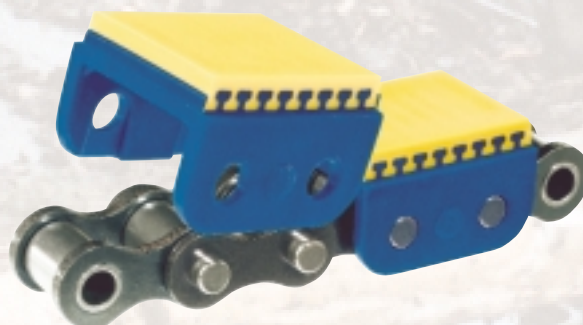
Technical Details

Connecting Links

Similar DIN/ISO	A&S No.	Order - No. Chain	p x b <sub>1</sub>	Order - No. Connecting link	Order - No. Clip
08B-1	1603	1210313	1/2" X 5/16"	1317972	1317979
08B-1	1803 RF**	1210314	1/2" X 5/16"	1317973	1317979
12B-1	1642	1210317	3/4" X 7/16"	1317976	1317981
12B-1	1642 RF**	1210318	3/4" X 7/16"	1317977	1317981
16B-1	1666	1209754	1" X 0,67"	1317165	1317164
16B-1	1666 RF**	1210319	1" X 0,67"	1317978	1317164

\* THERMOPLASTIC POLYURETHANE

\*\* RF = THE CHAIN IS MADE OF RUSTPROOF AND ACID-RESISTANT MATERIALS  
THE DIMENSIONS OF THE CHAIN ARE SIMILAR TO THOSE MENTIONED OF THE DIN STANDARD



## ALSO AVAILABLE FROM RENOLD

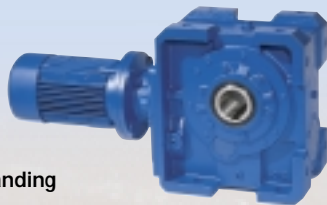
The need for reproducible standards of excellence requires finer and ever more stringent process control. Renold's proficiency, total capability and flexibility offers designers, specifiers and end users the reassurance required for precision and accuracy.

This distinguishes Renold as the **Hallmark of Quality**.

### e.PM SERIES PH TYPE

Helical wormgear unit offering 6 sizes with ratios up to 300:1

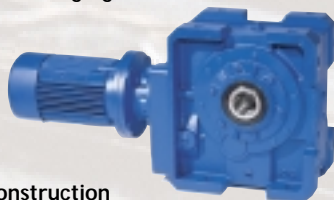
- Available as speed reducer or motorised versions.
- Heavy duty unit for demanding applications.
- Unique Holroyd tooth form profile for high efficiency and long life.
- Variable mounting allows total design flexibility.



### e.PM SERIES PB TYPE

Helical/Bevel/Helical unit with high gear ratio and large torque range up to 12000 Nm.

- Available as speed reducer or motorised versions.
- Ratios from 16:1 to 160:1
- Robust case and gear construction allowing use in heavy duty applications.



### e.TW SERIES

Heavy duty worm units with centres from 10" to 28" in single and double reduction types. Ratios available from 5:1 to 4900:1 with input powers from 16 to 506kW.

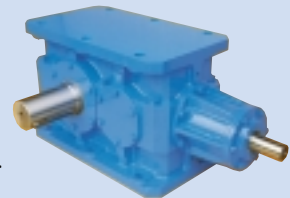
- Heavy duty design for high torque applications.
- Unique Holroyd tooth form for high efficiency and product life.
- Optional protection for use in hostile and arduous environments.



### HC SERIES

Helical and bevel/helical units available in 14 sizes up to 1000kW.

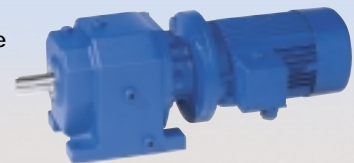
- Heavy duty design for high torque applications.
- Gear case hardened and ground for high efficiency and quiet running.
- Hollow and solid shaft variants allow design options.



### e.RP SERIES

In-line helical speed reducers and geared motor units available in single, double and triple reduction types from 0.25kW to 45kW with ratios from 5:1 to 100:1.

- Designed to European standard therefore interchangeable without re-engineering.
- Foot and flange mounting for flexibility in applications.
- Standard heavy-duty version for higher load characteristics.



### SM SERIES

Shaft mounted speed reducers available as single reduction units with 5:1 ratios and double units with ratios of 13:1, 20:1, 25:1 metric and 15:1 North American.

- Interchangeable to allow fast and easy replacement.
- Robust construction ideal for heavy-duty applications.
- Wide ratio range gives competitive size selections.
- Parallel and taper bore options allow easy removal for repair.
- Sprag clutch backstop available to prevent drive reversal.



### GEARFLEX

Heavy duty all metal couplings giving maximum power capacity within minimum space envelope and excellent mis-alignment capability.

- Single and double arrangement, standard and heavy-duty series types up to 60,000kW capacity.
- AGMA standard, therefore interchangeable and cost effective.
- Crowned and barrelled teeth for optimum contact and long life.
- Mill motor, sheer pin and telescopic designs to give design suitability for demanding applications.



# Unique quality and safety

# RENOLD

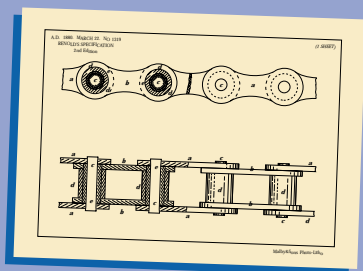
## 'IN A CLASS OF ITS OWN'

Renold, the inventor of Bush Roller Chain has led the world in chain technology for more than a century.



Only products designed and supplied to our specification carry the MARK OF EXCELLENCE, 'RENOLD'. You can be sure that when you choose such a product, Renold Service, Quality, Value for Money and LONG LIFE PERFORMANCE are guaranteed.

Original patent drawing 1880



## A UNIQUE SERVICE



Renold, the premier chain company is dedicated to providing national and global customers with products to the ultimate of specification and design, manufactured to exceed the highest international standards.

Investment in manufacturing and process technology, combined with an international sales and distribution network, places Renold's commitment to the development of chain products and customer service at the forefront of the industry. Renold's 16 national sales companies and over 70 country distributors around the world have direct access to extensive Renold design, test and manufacturing facilities, enabling the chain required to be promptly specified and produced. Renold, the power transmission specialists, provide a worldwide customer orientated product service.

## CONSISTENCY

Only materials that meet the Renold exacting specifications are used for the manufacture of our chain components.

*Continual investment in new technology demonstrates Renold's commitment to innovation. State of the art automatic assembly, ensures consistent quality of all Renold components.*



*Stringent process controls are in place at every stage of production. Every chain is proof loaded, resulting in minimum initial wear, greater fatigue resistance and improved wear performance.*



*Corrosion protection and long life are achieved by automatically pre-lubricating every chain with a specially formulated grease. Chain lubrication is one of the most important factors in achieving a long and trouble free service life. Renold can advise the correct method to suit your needs.*



## QUALITY

Our commitment to quality ensures that Renold Transmission and Conveyor Chain conforms to and surpasses the highest international standards of manufacture and design, including approval by the American Petroleum Institute.

All of our manufacturing systems conform to ISO9001.

Renold employees are fully trained to ensure all products meet the unique Renold specification.



*We also manufacture to the specifications required by API, BAe, CAA, LONDON UNDERGROUND, ROLLS-ROYCE and JAGUAR.*



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