

Useful information

Contents



"Why compete against your supplier
when you can be our partner"

USEFUL INFORMATION

Chain Quick Reference Chart.....	242
Couplings Comparison Chart.....	248
Equivalents Table	249
Conversion Constants	249
Approximate Belt Length Formula.....	249
Information Checklist for Drive Selection.....	249

Chain Quick Reference Chart

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
25-1	0.25	6.35	3.302	3.175	0.76
25-2	0.25	6.35	3.302	3.175	0.76
25-1SS	0.25	6.35	3.302	3.175	0.76
05B-1	0.312	8	5	3	1.3
05B-2	0.312	8	5	3	1.3
05B-1SS	0.312	8	5	3	1.3
05B-1N	0.312	8	5	3	1.3
35-1	0.375	9.525	5.08	4.763	1.27
35-2	0.375	9.525	5.08	4.763	1.27
35-3	0.375	9.525	5.08	4.763	1.27
35-1N	0.375	9.525	5.08	4.763	1.27
35-1SS	0.375	9.525	5.08	4.763	1.27
06B-1	0.375	9.525	6.35	5.72	1.4
06B-2	0.375	9.525	6.35	5.72	1.4
06B-3	0.375	9.525	6.35	5.72	1.4
06B-1N	0.375	9.525	6.35	5.72	1.4
06B-1SS	0.375	9.525	6.35	5.72	1.4
40-1	0.5	12.7	7.925	7.938	1.52
40-2	0.5	12.7	7.925	7.938	1.52
40-3	0.5	12.7	7.925	7.938	1.52
40HP	0.5	12.7	7.925	7.938	1.52
40SB	0.5	12.7	7.925	7.938	1.52
40SL	0.5	12.7	7.925	7.938	1.52
40N	0.5	12.7	7.925	7.938	1.52
40-1SS	0.5	12.7	7.925	7.938	1.52
40-2SS	0.5	12.7	7.925	7.938	1.52
40H	0.5	12.7	7.925	7.938	2
40AQUA	0.5	12.7	7.925	7.938	1.52
40NEO	0.5	12.7	7.925	7.938	1.52
08B-1	0.5	12.7	8.51	7.75	1.5
08B-2	0.5	12.7	8.51	7.75	1.5
08B-3	0.5	12.7	8.51	7.75	1.5
08B-1N	0.5	12.7	8.51	7.75	1.5
08B-1SS	0.5	12.7	8.51	7.75	1.5
08B-2SS	0.5	12.7	8.51	7.75	1.5
08B-1AQUA	0.5	12.7	8.51	7.75	1.5
08B-2AQUA	0.5	12.7	8.51	7.75	1.5
08B-1NEO	0.5	12.7	8.51	7.75	1.5
08B-2NEO	0.5	12.7	8.51	7.75	1.5
41-1	0.5	12.7	7.75	6.35	1.27
410	0.5	12.7	7.75	3.17	1
415	0.5	12.7	7.75	4.75	1.1
415S	0.5	12.7	7.75	4.75	1.5
420	0.5	12.7	7.75	6.35	1.5
428	0.5	12.7	8.51	7.92	1.5

Chain Quick Reference Chart



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Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
428H	0.5	12.7	8.51	7.92	2
BL434	0.5	12.7	-	-	2
BL466	0.5	12.7	-	-	2
50-1	0.625	15.88	10.16	9.53	2.03
50-2	0.625	15.88	10.16	9.53	2.03
50-3	0.625	15.88	10.16	9.53	2.03
50F	0.625	15.88	10.16	9.53	2.03
50HE	0.625	15.88	10.16	9.53	2.4
50HP	0.625	15.88	10.16	9.53	2.03
50SB	0.625	15.88	10.16	9.53	2.03
50SL	0.625	15.88	10.16	9.53	2.03
50-1SS	0.625	15.88	10.16	9.53	2.03
50-2SS	0.625	15.88	10.16	9.53	2.03
50H	0.625	15.88	10.16	9.53	2.4
50N	0.625	15.88	10.16	9.53	2.03
50-1AQUA	0.625	15.88	10.16	9.53	2.03
50-2AQUA	0.625	15.88	10.16	9.53	2.03
50-1NEO	0.625	15.88	10.16	9.53	2.03
50-2NEO	0.625	15.88	10.16	9.53	2.03
520	0.625	15.88	10.16	6.35	2
520H	0.625	15.88	10.16	6.35	2.4
530	0.625	15.88	10.16	9.53	2.03
530H	0.625	15.88	10.16	9.53	2.4
10B-1	0.625	15.88	10.16	9.65	1.6
10B-2	0.625	15.88	10.16	9.65	1.6
10B-3	0.625	15.88	10.16	9.65	1.6
10B-1N	0.625	15.88	10.16	9.65	1.6
10B-1SS	0.625	15.88	10.16	9.65	1.6
10B-1AQUA	0.625	15.88	10.16	9.65	1.6
10B-2AQUA	0.625	15.88	10.16	9.65	1.6
10B-1NEO	0.625	15.88	10.16	9.65	1.6
10B-2NEO	0.625	15.88	10.16	9.65	1.6
BL523	0.625	15.88	-	-	2.4
BL532	0.625	15.88	-	-	2.4
BL534	0.625	15.88	-	-	2.4
AL544	0.625	15.88	-	-	2
BL546	0.625	15.88	-	-	2.4
AL566	0.625	15.88	-	-	2
BL566	0.625	15.88	-	-	2.4
630H	0.75	19.05	11.91	9.53	3.2
60-1	0.75	19.05	11.91	12.7	2.4
60-2	0.75	19.05	11.91	12.7	2.4
60-3	0.75	19.05	11.91	12.7	2.4
60-4	0.75	19.05	11.91	12.7	2.4
60F	0.75	19.05	11.91	12.7	2.4

Chain Quick Reference Chart

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
60HE	0.75	19.05	11.91	12.7	3.2
60HP	0.75	19.05	11.91	12.7	2.4
60SL	0.75	19.05	11.91	12.7	2.4
60H	0.75	19.05	11.91	12.7	3.2
60-1SS	0.75	19.05	11.91	12.7	2.4
60-2SS	0.75	19.05	11.91	12.7	2.4
60N	0.75	19.05	11.91	12.7	2.4
60-1AQUA	0.75	19.05	11.91	12.7	2.4
60-2AQUA	0.75	19.05	11.91	12.7	2.4
60-1NEO	0.75	19.05	11.91	12.7	2.4
60-2NEO	0.75	19.05	11.91	12.7	2.4
12B-1	0.75	19.05	12.07	11.68	2
12B-2	0.75	19.05	12.07	11.68	2
12B-3	0.75	19.05	12.07	11.68	2
12B-1N	0.75	19.05	12.07	11.68	2
12B-1SS	0.75	19.05	12.07	11.68	2
12B-2SS	0.75	19.05	12.07	11.68	2
12B-1AQUA	0.75	19.05	12.07	11.68	2
12B-2AQUA	0.75	19.05	12.07	11.68	2
12B-1NEO	0.75	19.05	12.07	11.68	2
12B-2NEO	0.75	19.05	12.07	11.68	2
12B-3NEO	0.75	19.05	12.07	11.68	2
BL623	0.75	19.05	-	-	3.2
BL634	0.75	19.05	-	-	3.2
AL644	0.75	19.05	-	-	2.4
BL644	0.75	19.05	-	-	3.2
BL646	0.75	19.05	-	-	3.2
AL666	0.75	19.05	-	-	2.4
AL688	0.75	19.05	-	-	2.4
S25 DET	0.9	22.96	-	-	-
A2040	1	25.4	7.92	7.92	1.52
C2040	1	25.4	7.92	7.92	1.52
C2040HP	1	25.4	7.92	7.92	1.52
C2040SS	1	25.4	7.92	7.92	1.52
C2040NEO	1	25.4	7.92	7.92	1.52
208B	1	25.4	8.51	7.75	-
80F	1	25.4	15.88	15.88	3.2
80HE	1	25.4	15.88	15.88	4
80H	1	25.4	15.88	15.88	4
80H-SUPER	1	25.4	15.88	15.88	4
80-1	1	25.4	15.88	15.88	3.2
80-2	1	25.4	15.88	15.88	3.2
80-3	1	25.4	15.88	15.88	3.2
80-4	1	25.4	15.88	15.88	3.2
80N	1	25.4	15.88	15.88	3.2

Chain Quick Reference Chart



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Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
80-1SS	1	25.4	15.88	15.88	3.2
80HP	1	25.4	15.88	15.88	3.2
80-1AQUA	1	25.4	15.88	15.88	3.2
80-1NEO	1	25.4	15.88	15.88	3.2
16B-1	1	25.4	15.88	17.02	3.2/4
16B-2	1	25.4	15.88	17.02	3.2/4
16B-3	1	25.4	15.88	17.02	3.2/4
16B-1SS	1	25.4	15.88	17.02	3.2/4
16B-1N	1	25.4	15.88	17.02	3.2/4
16B-1AQUA	1	25.4	15.88	17.02	3.2/4
16B-2AQUA	1	25.4	15.88	17.02	3.2/4
16B-1NEO	1	25.4	15.88	17.02	3.2/4
16B-2NEO	1	25.4	15.88	17.02	3.2/4
C2042	1	25.4	15.88	7.92	1.52
C2042HP	1	25.4	15.88	7.92	1.52
C2042N	1	25.4	15.88	7.92	1.52
C2042SS	1	25.4	15.88	7.92	1.52
BL823	1	25.4	-	-	4
BL834	1	25.4	-	-	4
AL844	1	25.4	-	-	3.2
BL844	1	25.4	-	-	4
BL846	1	25.4	-	-	4
AL866	1	25.4	-	-	3.2
BL866	1	25.4	-	-	4
S32	1.15	29.21	11.43	15.88	-
S32 DET	1.16	29.39	-	-	-
S51 DET	1.13	28.78	-	-	-
A2050	1.25	31.75	10.16	9.53	2.03
C2050	1.25	31.75	10.16	9.53	2.03
C2050HP	1.25	31.75	10.16	9.53	2.03
C2050N	1.25	31.75	10.16	9.53	2.03
C2050SS	1.25	31.75	10.16	9.53	2.03
C2050NEO	1.25	31.75	10.16	9.53	2.03
100-1	1.25	31.75	19.05	19.05	3.96
100-2	1.25	31.75	19.05	19.05	3.96
100-3	1.25	31.75	19.05	19.05	3.96
100HE	1.25	31.75	19.05	19.05	4.75
100H	1.25	31.75	19.05	19.05	4.75
100H-SUPER	1.25	31.75	19.05	19.05	4.75
100-1AQUA	1.25	31.75	19.05	19.05	3.96
100-1NEO	1.25	31.75	19.05	19.05	3.96
20B-1	1.25	31.75	19.56	19.05	4.7
20B-2	1.25	31.75	19.56	19.05	4.7
20B-3	1.25	31.75	19.56	19.05	4.7
20B-1AQUA	1.25	31.75	19.56	19.05	4.7

Chain Quick Reference Chart

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
20B-1NEO	1.25	31.75	19.56	19.05	4.7
C2052	1.25	31.75	19.05	9.53	2.03
C2052HP	1.25	31.75	19.05	9.53	2.03
C2052SS	1.25	31.75	19.05	9.53	2.03
BL1034	1.25	31.75	-	-	4.8
BL1046	1.25	31.75	-	-	4.8
BL1066	1.25	31.75	-	-	4.8
A2060	1.5	38.1	11.91	12.7	2.39
C2060H	1.5	38.1	11.91	12.7	3.18
C2060HP	1.5	38.1	11.91	12.7	3.18
C2060HN	1.5	38.1	11.91	12.7	3.18
G2060HSS	1.5	38.1	11.91	12.7	3.18
C2060HNEO	1.5	38.1	11.91	12.7	3.18
C2060HAQUA	1.5	38.1	11.91	12.7	3.18
120-1	1.5	38.1	22.23	25.4	4.75
120-2	1.5	38.1	22.23	25.4	4.75
120-3	1.5	38.1	22.23	25.4	4.75
120HE	1.5	38.1	22.23	25.4	5.56
120H	1.5	38.1	22.23	25.4	5.56
120-1N	1.5	38.1	22.23	25.4	4.75
24B-1	1.5	38.1	25.4	25.4	6.3
24B-2	1.5	38.1	25.4	25.4	6.3
24B-3	1.5	38.1	25.4	25.4	6.3
C2062HP	1.5	38.1	22.23	12.7	3.18
C2062H	1.5	38.1	22.23	12.7	3.18
C2062HSS	1.5	38.1	22.23	12.7	3.18
C2062HN	1.5	38.1	22.23	12.7	3.18
C2062HNEO	1.5	38.1	22.23	12.7	3.18
C2062HAQUA	1.5	38.1	22.23	12.7	3.18
212B	1.5	38.1	12.07	11.68	-
BL1234	1.5	38.1	-	-	5.6
BL1246	1.5	38.1	-	-	5.6
S52	1.5	38.1	15.24	22.23	-
S52 DET	1.5	38.1	-	-	-
CA550	1.6	41.4	16.66	20.4	2.6
CA557	1.6	41.4	17.78	20.4	3.1
C55	1.6	41.43	18.24	17.45	4.75
S55	1.6	41.43	17.78	22.23	-
S62	1.65	41.91	19.05	25.4	-
662	1.66	42.27	-	-	3.2
S62 DET	1.65	42.01	-	-	-
140-1	1.75	44.45	25.4	25.4	5.56
140-2	1.75	44.45	25.4	25.4	5.56
140-3	1.75	44.45	25.4	25.4	5.56
140H-1	1.75	44.45	25.4	25.4	6.35

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Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
140H-2	1.75	44.45	25.4	25.4	6.35
140HE	1.75	44.45	25.4	25.4	6.35
140DC	1.75	44.45	25.4	25.4	6.35
28B-1	1.75	44.45	30.99	27.94	7.8
28B-2	1.75	44.45	30.99	27.94	7.8
28B-3	1.75	44.45	30.99	27.94	7.8
C2080H	2	50.8	15.88	15.88	3.96
C2080HSS	2	50.8	15.88	15.88	3.96
C2080N	2	50.8	15.88	15.88	3.96
C2080HP	2	50.8	15.88	15.88	3.96
C2080HNEO	2	50.8	15.88	15.88	3.96
160-1	2	50.8	28.58	31.75	6.35
160-2	2	50.8	28.58	31.75	6.35
160-3	2	50.8	28.58	31.75	6.35
160H	2	50.8	28.58	31.75	7.14
160HE	2	50.8	28.58	31.75	7.14
32B-1	2	50.8	30.99	29.21	7.3
32B-2	2	50.8	30.99	29.21	7.3
32B-3	2	50.8	30.99	29.21	7.3
C2082H	2	50.8	28.58	15.88	3.96
C2082HN	2	50.8	28.58	15.88	3.96
C2082HSS	2	50.8	28.58	15.88	3.96
C2082HP	2	50.8	28.58	15.88	3.96
180-1	2.25	57.15	35.71	35.71	7.13
180H	2.25	57.15	35.71	35.71	7.9
180DC	2.25	57.15	35.71	35.71	7.13
667K	2.25	57.15	-	-	5.1
C2100H	2.5	63.5	19.05	19.05	4.75
200-1	2.5	63.5	39.97	38.1	7.93
81X	2.6	66.27	23.01	17.46	3.97
81X Rooftop	2.6	66.27	23.01	17.46	3.97
81XH	2.6	66.27	23.01	17.46	7.93
H78	2.6	66.27	22.22	-	-
H78A	2.6	66.27	-	-	-
H78B	2.6	66.27	-	-	-
WH78	2.6	66.27	31.75	25.4	6.35
C188	2.6	66.27	22.23	23.8	6.35
SS188	2.6	66.27	22.23	25.6	6.35
88K	2.6	66.27	-	-	5.1
C2120H	3	76.2	22.23	25.4	5.56
C2122H	3	76.2	44.5	25.4	5.56
SS131	3.01	78.1	32.5	31.7	9.7
C102B	4	101.6	24.59	50.8	9.53
WD110	6	152.4	-	-	9.52
WH132	6	152.4	-	-	12.75

Couplings Comparison Chart

Selection Criterion	Rigid	Chain	Gear	Taper Grid	HRC	Jaw	Curved Jaw (Rotex)	Cone Ring	Tyre	Max Dynamic (Omega Equivalent)
Torque Range (Nm)	Up to 11300	217-8786	1138-135242	47-25980	31-3150	3.5-280	10-3600	50-15140	24-3770	21-19230
Speed Capability	Fair	Good	Excellent	Excellent	Good	Good	Excellent	Fair	Good	Excellent
Shaft Size Range - mm	11mm-125mm	14mm-110mm	13mm-255mm	12mm-184mm	25mm-90mm	14mm-60mm	6mm-100mm	12mm-150mm	10mm-75mm	35mm-124mm
Bore Types	Taperlock	Pilotbore	Pilotbore	Pilotbore	Taperlock & Pilotbore	Pilotbore + Bore & Keyed Range	Taperlock & Pilotbore	Taperlock & Pilotbore	Taperlock	Pilotbore & Taperlock
Misalignment Capability (Maximum Angular - Deg.)	0	1	1.5	0.25	0.2-1.7	1	0.8-1.2	0.2-1.7	4	4
Temperature Range Standard Element		-10C to +60C	-40C to +100C	-18C to +70C	-40C to +100C	-40C to +100C	-4C to +120C	Up to +70C	-50C to +50C	Up to +120C
Ease of Installation	Easy	Easy	Fair	Fair	Easy	Easy	Easy	Easy	Fair	Fair
Damping Capacity	Poor	Fair	Poor	Fair	Good	Good	Good	Good	Excellent	Excellent

For technical details on all couplings listed above, please see "Couplings" section page 177.

Useful Information



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EQUIVALENTS		
FRACTION	DECIMAL	MILLIMETRES
1/16	0.0625	1.588
1/8	0.1250	3.175
3/16	0.1875	4.763
1/4	0.2500	6.350
5/16	0.3125	7.938
3/8	0.3750	9.525
7/16	0.4375	11.113
1/2	0.5000	12.700
9/16	0.5625	14.288
5/8	0.6250	15.875
11/16	0.6875	17.463
3/4	0.7500	19.050
13/16	0.8125	20.638
7/8	0.8750	22.225
15/16	0.9375	23.813
1	1.0000	25.400

CONVERSION CONSTANTS
Length
Millimetres x 0.039370 = inches
Metres x 39.370 = inches
Metres x 3.2808 = Feet
Kilometres x 0.6213 = Miles
Inches x 25.4001 = Millimetres
Inches x 0.0254 = Metres
Feet x 0.30480 = Metres
Miles x 1.61 = Killometres
Power
Kilowatt (kw) x 1.340 = horse power (hp)
Horse Power (hp) x 0.746 = kilowatt (kw)
Torque
Newton metre (Nm) x 0.735 = Pounds feeet (lbf ft)
Newton metre (Nm) x 8.85 = Pounds inches (lbf in)
Kilogram force metre (kgf m) x 9.81 = Newton metre (Nm)
Weight
Kilogram (kg) x 2.20462 = Pound (lb)
Metric Ton (1000kg) x 0.98421 = Ton (2240lb)

APPROXIMATE BELT LENGTH FORMULA
$(A+B) \times 1.57 + CD \times 2 = \text{Approximate Belt Length}$
Where:
A = Large Pulley Diameter
B = Small Pulley Diameter
CD = Centre Distance

BARE ESSENTIALS CHECKLIST FOR DRIVE SELECTION:
BELT & PULLEY DRIVE SELECTION
Motor Speed (RPM)
Desired Speed (RPM)
Power (kw or Hp)
Shaft Sizes
Centre Distance
CHAIN & SPROCKET DRIVE SELECTION
Motor Speed (RPM)
Desired Speed (RPM)
Power (kw or Hp)
Shaft Sizes
Centre Distance
COUPLING SELECTION
Power (kw or Hp)
Speed (RPM)
Shaft Sizes
Once you have this information you can contact the team at Finer Power Transmission to help you select the appropriate drive.