

# Couplings Comparison Chart

Selection Criterion	Rigid	Chain	Gear	Taper Grid	Curved Tooth Gear	HRC	Jaw	Flexible Jaw	Flexible Pin Couplings	Curved Jaw (Rotex)	Cone Ring	Tyre	Max Dynamic
Torque Range (Nm)	Up to 11300	217-8786	1138-135242	47-25980	18-160	31-3150	3.5-280	12.74-470	19000-360000	10-3600	50-15140	24-3770	21-19230
Speed Capability	Fair	Good	Excellent	Excellent	Fair	Good	Good	EXCELLENT	GOOD	Excellent	Fair	Good	Excellent
Shaft Size Range - mm	11mm-125mm	14mm-110mm	13mm-255mm	12mm-184mm	8mm-41mm	25mm-90mm	14mm-60mm	7MM-55MM	19-60	6mm-100mm	12mm-150mm	10mm-75mm	35mm-124mm
Bore Types	Taperlock	Pilotbore	Pilotbore	Pilotbore	Pilotbore	Taperlock & Pilotbore	Pilotbore + Bore & Keyed Range	PILOT BORE	PILOT BORE	Taperlock & Pilotbore	Taperlock & Pilotbore	Taperlock	Pilotbore & Taperlock
Misalignment Capability (Maximum Angular - Deg.)	0	1	1.5	0.25	3-5	0.2-1.7	1	1	.15-.10	0.8-1.2	0.2-1.7	4	4
Temperature Range Standard Element	-10C to +60C	-10C to +60C	-40C to +100C	-18C to +70C	-25C to +66C	-40C to +100C	-40C to +100C	"-40C TO +100C"	"-40C TO +80C"	-4C to +120C	Up to +70C	-50C to +50C	Up to +120C
Ease of Installation	Easy	Easy	Fair	Fair	Easy	Easy	Easy	EASY	FAIR	Easy	Easy	Fair	Fair
Damping Capacity	Poor	Fair	Poor	Fair	Poor	Good	Good	EXCELLENT	GOOD	Good	Good	Excellent	Excellent

## BARE ESSENTIALS CHECKLIST FOR DRIVE SELECTION:

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.

## 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 = Kilometres
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 feet (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)