

Selection

The TransDrive Jaw Coupling is recognised across a large range of industries. The Jaw Coupling is highly resilient, it does not require any lubrication and can work in environments contaminated with oil, dirt, sand, moisture and grease.

The rubber insert is designed to absorb shock loading and does not allow for any metal contact. TransDrive stocks both the Spider Elements (rubber and polyurethane) as well as the Wrap Element Kits.

TransDrive stocks a range of Jaw Couplings in a variety of pre-bored and keyed sizes.

Wrap Element Kit Features

- ▶ The Wrap Element Kit allows inspection and replacement within minutes.
- ▶ Modular hub design allow the same hubs to be used for different models.
- ▶ Hubs are fully machined which guarantees a smooth contact surface, ease of alignment and excellent balance.
- ▶ Hubs come pre-bored and keyed to standard IEC motor shaft sizes.
- ▶ Taper Fit hubs are also available to accommodate to non-standard shaft sizes.
- ▶ Spacer couplings are available for pump applications.
- ▶ Water, dust, oil and greases do not affect performance.

- ▶ **Service Factor** Determine appropriate service factor from the Table below
- ▶ **Design Power** Multiply running power of driven machinery by the Service Factor. This gives Design Power which is used as a basis for coupling selection
- ▶ **Coupling Size** Refer to respective table for your required coupling type and read from the appropriate speed column until a power equal to or greater than the design power is found, page 11
- ▶ **Bore Size** Refer respective coupling dimensional table to check that the required bores can be accommodated, page 11 & 12.

Service Factors

Special Class ₁	Type of Driving Unit					
	Electric Motors / Steam Turbines			Internal Combustion Engines / Steam Engines / Water Turbines		
	Hours Per Day Duty			Hours Per Day Duty		
Driven Machine Class ₂	8 and under	Over 8 to 16 inclusive	Over 16	8 and under	Over 8 to 16 inclusive	Over 16
Uniform	1.00	1.12	1.25	1.25	1.40	1.60
Moderate Shock ₃ *	1.60	1.80	2.00	2.00	2.24	2.50
Heavy Shock ₄ **	2.50	2.80	3.12	3.12	3.55	4.00

* It is recommended that top clearance keys are fitted for applications where load fluctuation is expected.

** For Centrifugal Compressor multiply Service Factor by an additional 1.15.

¹ For applications where substantial shock, vibration and torque fluctuation occur, and for reciprocating machines, e.g. internal combustion engines, piston type pumps and compressors, refer to Power Transmission with full machine details for torsional analysis.

² Agitators, Brewing Machinery, Centrifugal Compressors**, Conveyors, Centrifugal Fans and pumps, Generators, Sewage Disposal Equipment.

³ Clay working machinery, Crane Hoists, Laundry machinery, Wood working machinery, Machine Tools, Rotary Mills, Paper Mill machinery, Textile machinery.

⁴ Reciprocating conveyors, Crushers, Shakers, Metal Mills, Rubber machinery. (Banbury Mixers and Mills, Reciprocating Compressors.)