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COUPLING GUIDE



TECHNICAL EXCELLENCE & INDUSTRY EXPERIENCE

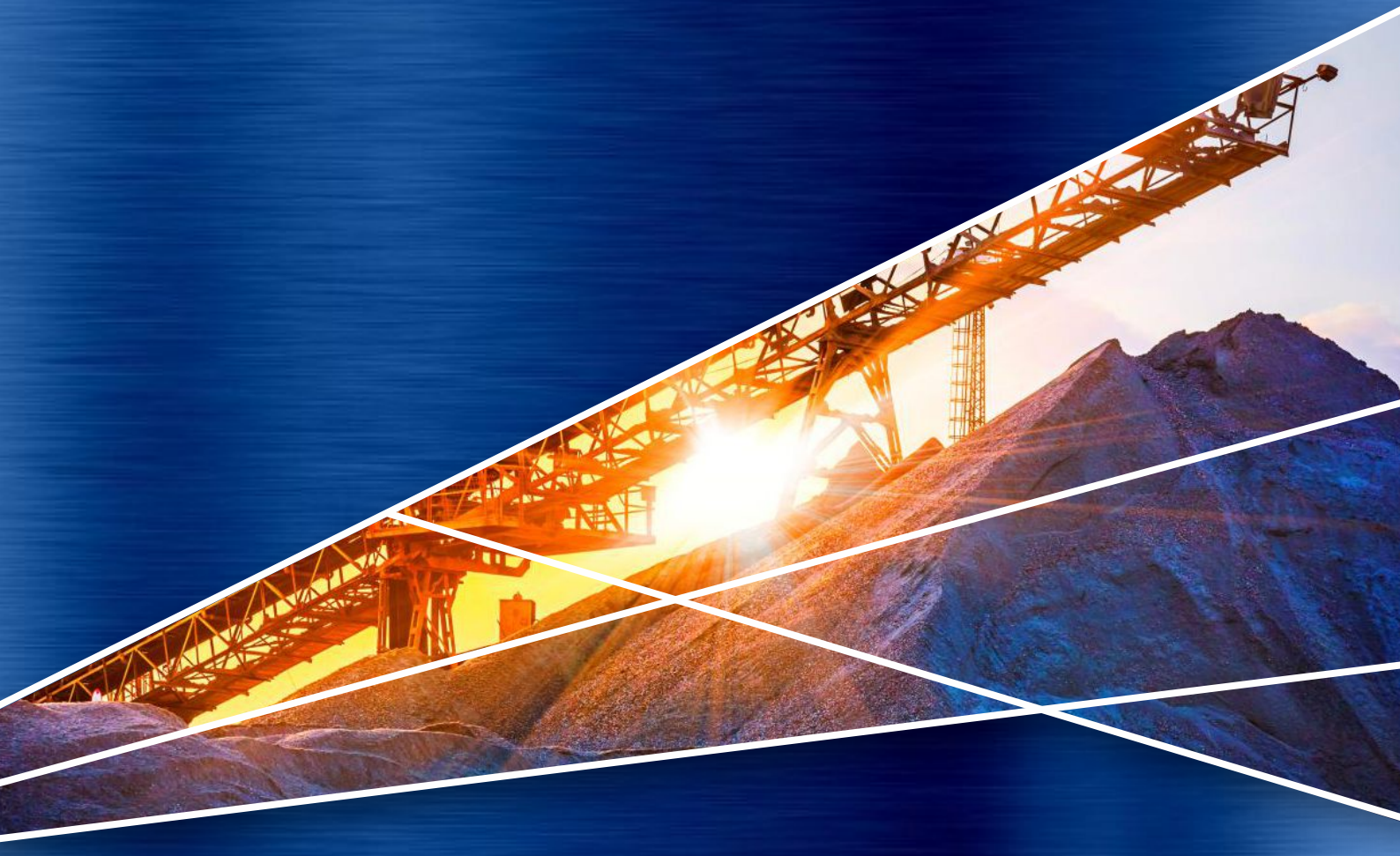
DRIVE
SYSTEMS

DRIVE SYSTEMS

Drive Systems - Combining 180 years of local product knowledge and application experience with some of the world's best manufacturers and global industry expertise.

Our reputation for excellence in customer service ensures Drive Systems continues to be a leading supplier to Mining & Quarry, Pulp & Paper, Food & Beverage, Agriculture, Power Generation, Water, Waste & Recycling, Oil, Gas and Petrochemical sectors.

Our founder, Dean Hansen has assembled a team well respected within the Australian and international power transmission industry. We are focussed on applying our extensive product knowledge, unique problem solving skills and attention to detail to your requirements.



POONA COUPLINGS

POONA COUPLINGS

POONA | RB

- Intrinsically fail safe
- High torque capacity
- SAE flange options 7.5 / 10 / 11.5 / 14 / 18 / 21 / 24
- Excellent for diesel driven applications
- Cost effective
- Elements loaded 'in compression'
- Available with extended inner member for increased shaft engagement



POONA | PM

- SG iron up to size 40, cast steel for larger sizes
- Extremely high torque capacity
- Intrinsically fail safe
- Severe shock load protection
- Zero backlash
- Vibration control
- Available in mill motor and brake drum configurations
- SM60, SM70 and SM80 grade elements available



POONA | HTB

- Blind assembly for use in bell housings
- High temperature, up to 205° C
- Continued operation in event of element failure
- SG iron construction
- Easy element removal



POONA | UJ

- All features listed for RB and PM
- Drivetrain Ready



ESCO GEAR COUPLINGS



ESCO FST Gear | Double Engagement Gear

- Capacity to 5,000,000Nm and 1,130mm bore
- Unique Multicrown Tooth Form Design to maintain torque rating at maximum misalignment
- Up to 1.5° Angular Misalignment
- Reduced backlash
- Zinc coated body fitted flange bolts reduce fretting corrosion
- Vertical mounting options



ESCO FFS Gear | Floating Shaft Gear Coupling

- All of the above PLUS
- Floating shaft arrangement
- Used when DBSE is too great for spacer couplings
- Inboard or outboard flex halves
- Can reduce the need for additional bearing supports



ESCO FSE Gear | Spacer Gear Coupling

- Allows for fast change out without removal of connected equipment
- Standard spacer lengths for fast delivery
- Custom spacers available on request
- Horizontal (standard) or vertical arrangements
- Limited end float option



ESCO Gear | Other Types

- Mill motor arrangements (FDMM)
- Double sliding hub
- Insulated
- Brake disc
- Rigid
- Single sleeve (pictured)
- Bespoke designs



ESCO DPU | Disc Couplings

- Torque capacity to 23,100Nm
- API 610 off the shelf, API 671 available
- Standard and custom DBSE
- Standard and non-sparking units stocked
- Factory assembled transmission units
- Modular design for fast change out



ESCOdisc DMU | Disc Coupling

- Torque capacity to 260,000Nm
- General purpose
- Unitised disc pack
- Factory assembled
- Inherent balance to AGMA class 9



ESCOdisc DMUCC | Close Coupled Disc

- Torque capacity to 19,600Nm
- For close coupled applications
- Reversed hubs
- Split spacer for easy inspection / change out of elements
- Uses same flexible disc as DPU and DMU for reduced inventory
- Non-sparking flexible membrane is standard on all Esco Disc couplings



ESCOdisc DMUFIL | Cooling Tower Disc

- Extended shaft lengths
- Composite carbon spacer for increased strength at 25% of the weight
- 316 marine grade stainless hubs and fasteners
- Unitized flexible disc element, no washers or hardware
- Flexible disc element is fully encapsulated in polyurethane
- Perfect for corrosive or aggressive environments
- 75kW to 675kW drive capacity



WINFLEX GRID COUPLINGS

winflex®

Not surprisingly, the most important feature of a grid coupling is the GRID! Chrome vanadium as standard. Heat treated AND shot peened for added strength & flexibility. All CMD Grid Couplings use this market leading flexible grid technology as standard.

WINFLEX | DG Grid Coupling

- Chrome vanadium, heat treated taper grid
- High torque capacity
- Bore capacity to 360mm
- Torque capacity to 186,000Nm
- Forged steel hubs
- Durable synthetic seals



WINFLEX | T Grid Coupling

- Chrome vanadium, heat treated grid
- Compact design
- Bore capacity to 270mm
- Torque capacity to 160,000Nm
- Vertical steel cover
- Forged steel hubs
- Long / Short hub options
- Durable synthetic seals



WINFLEX | S Grid Coupling

- Chrome vanadium, heat treated double grid
- Bore capacity to 390mm
- Torque capacity to 800,000Nm
- Vertical steel cover
- Forged steel hubs



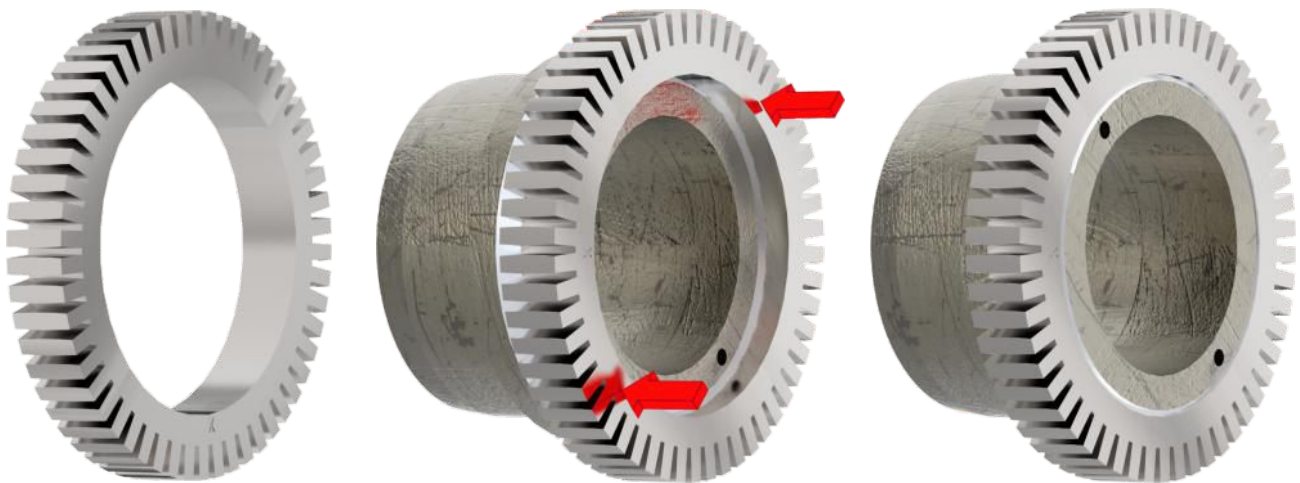
WINFLEX | TAC

- Chrome vanadium, heat treated double grid
- T Series Corrosive Environment
- DELTA PROTEKT KI101 Protection
- Hub & Cover protection
- Stainless Steel Fasteners
- Torque capacity to 800,000Nm
- Vertical steel cover



WINFLEX | Replaceable Hub Tooth Rings

- Unique to the Winflex range - Replaceable Tooth Ring Set
- Available in size ranges DG15 - DG20, T28 - T95 and S150 - S480
- Enables removal of hub teeth & grids (not whole coupling)
- Eliminates expensive & time consuming labour
- Cost analysis shows average 38% reduction in change out costs
- Kits comprise two rings
- Replacement rings 85-89% lighter than standard hubs & rings
- Massive savings in transport costs
- Reduced operational health & safety risk



WINFLEX | Special Couplings

CMD France have a dedicated research and development department creating solutions for special applications:

- Telescopic couplings
- Water-tight couplings
- Electrically Insulated couplings
- Sheer pin couplings
- Torque measuring couplings
- Steel mill drives



winflex[®]



MAYR COUPLINGS & TORQUE LIMITERS



MAYR | ROBA DS

- Made in Germany
- Multi-plate disc coupling
- Suitable for heavy duty applications
- Axial, radial and angular misalignment compensation
- Flexible modular system
- Maintenance free
- Low mass moment of inertia



MAYR | EAS High Torque HT with Torque Limiter

- High Torque, Heavy Duty Applications
- Positive locking
- Large mass moments of inertia
- Load separating
- Auto or manual re-engagement
- Free run out
- Stepless torque adjustment
- Catalogued torque range to 440,000Nm. Higher on request.



MAYR | DS + EAS Ball Detent Torque Limiter

- Combined features of Roba DS coupling and EAS torque limiter
- Coupling and torque limiter in one
- Load separating
- Heavy duty applications
- Maintenance free
- Driveline connection and protection



MAYR | ROBA ES+EAS Ball Detent Torque Limiter

- Combines Roba ES coupling with Roba EAS Torque Limiter
- Coupling and torque limiter in one
- Sample coupling features as Roba ES above
- Adjustable torque overload protection
- Torsionally soft



MAYR COUPLINGS & TORQUE LIMITERS

MAYR | ROBA Lastic + Slip Hub

- Combined features of Roba Lastic coupling and Roba Slip hub
- Coupling and torque limiter in one
- Torque capacity up to 50,000Nm
- Misalignment and load holding
- Variety of standard torques available
- Fully enclosed for harsh environments
- High dampening



MAYR | ROBA ES

- 80mm max Bore & 2500Nm Torque
- Vibration Dampening
- Backlash free
- Standard and spacer units available
- Pilot bore, bored and keyed or clamping hubs ex stock
- 80, 92, 98 Shore A, 64 Shore D ex stock



MAYR | Smartflex

- Suitable for servo drives
- Compensation of shaft misalignment
- Torsionally stiff
- Flexible modular system
- Backlash free



MAYR | Roba DS Servo

- Single or double jointed
- Good misalignment compensation
- Backlash free
- Maintenance free
- FEM Optimized Lamella Shape
- All steel construction
- Torsionally stiff



REXNORD COUPLINGS



OUR INNOVATION MOVES

REXNORD | Omega Close Coupled

- Split Element for easy installation
- Reversible hubs for flexible shaft distances
- Torsionally soft flex element
- Up to 38,000Nm capacity
- Max Bore 229mm
- Up to 4° Angular and 4.8 mm parallel misalignment
- Machined steel hubs
- Polyurethane element resists chemicals
- Available in heavy duty and HSU elements



REXNORD | Omega ES Spacer Coupling

- All of the above features PLUS
- Multiple bolt hole positions for maximum set up flexibility
- DBSE from 8mm to 530mm
- Up to 10 different DBSE from a single element
- Pilot bore and taper bush off the shelf in Hallam



FALK | Wrapflex

- 9 sizes available
- Standard and heavy duty elements
- Up to 15,000Nm Capacity
- Pilot bore hubs to 190mm bore capacity
- Taper bush and QD bush hubs available
- Available in close coupled, spacer and half spacer
- Excellent wear and chemical resistant



REXNORD | Orange Peel Guards

- Easy installation
- Low cost
- Saves time and money
- Hinged guard allows for quick coupling maintenance
- High impact polyethylene material
- Stainless steel hardware
- 3 year heavy duty warranty



TORQUE CALCULATOR

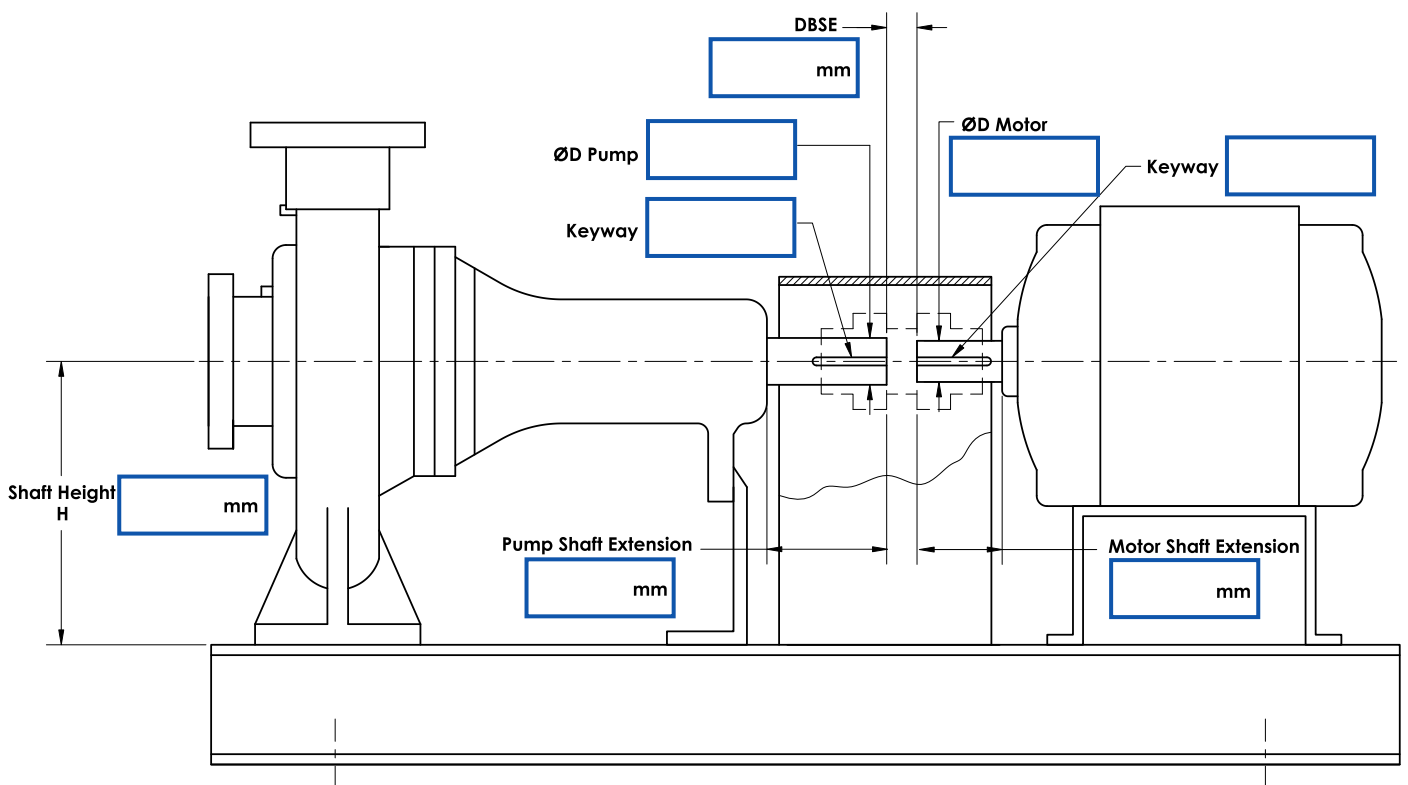
Company: _____

Contact: _____

Phone: _____

Email: _____

| SF | Service condition | Pump example | Motor Pwr (kW) |
|-----|--|---------------------------|-------------------------------------|
| 1.0 | Consistent torque, no stop/starts | Centrifugal-light liquids | <input type="text"/> |
| 1.5 | Minor load variations, some stop/starts | Compression pumps | Motor RPM <input type="text"/> |
| 2.0 | Variable loads, multiple stop/starts | Dredge pumps | Service Factor <input type="text"/> |
| 2.5 | Increased shock loads and or stop/starts | Recipricating pumps | |



Drive Systems - Here to help

With so many couplings to choose from, there isn't always just one solution. Drive Systems works with a variety of manufacturers using the latest selection software to give you the right coupling for your application.

If you can add as much information as you have available to the form above and send it to: info@drivesystems.com.au one of our specialists will be in contact.



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PREMIUM BRANDS FROM LEADING GLOBAL MANUFACTURERS

