S steel industry

E extruders

W wind energy

H^2O water treatment

R recycling

ComInTec®
Technology for Safety

SOLUTIONS FOR SYSTEMS WITH HIGH TRANSMISSION TORQUES

UP TO 120,000 NM, 240 MM SHAFTS... AND MORE

TORQUE LIMITERS AND COUPLINGS DESIGNED FOR EXTREME CONDITIONS AND HEAVY LOADS


DSM


DF


PR-V


GAS


GEC


GTR

COMINTEC TORQUE LIMITER: INDISPENSABLE FOR PROTECTING SYSTEMS AGAINST OVERLOADS AND AVOIDING COSTLY BREAKAGES AND MACHINE STOPS

DSM
modular torque limiter

Robust, modular safety coupling. After disconnection there is free rotation with no residual torque. Suitable for high speeds, inertias and torques and large shaft diameters.
Torque can be adjusted to suit the modules assembled. Re-engagement is simple, fast and manual.

- Made of fully turned steel
- Torques of up to 120,000 Nm and more
- Robust and compact
- Free rotation after disengagement
- Suitable for high speeds and inertias
- Protected from external agents
- Option of connecting to elastic and rigid couplings for in-line transmissions
- Standard anti-corrosion phosphating treatment

DF
friction torque limiter

Easy-to-install sliding safety coupling where the transmission component is interposed between two friction rings.
When the torque is reached the sliding mechanism guarantees continuity in the transmission without damaging the components.

- Slides in event of an overload
- Compact solution
- Silent, vibration-free operation
- Simple calibration
- Asbestos-free friction discs
- Available with the transmission component machined and assembled
- Different kinds of friction rings available for specific performances
- Standard anti-corrosion phosphating treatment

DSS/F/SG/PR-V
torque limiter for reducer

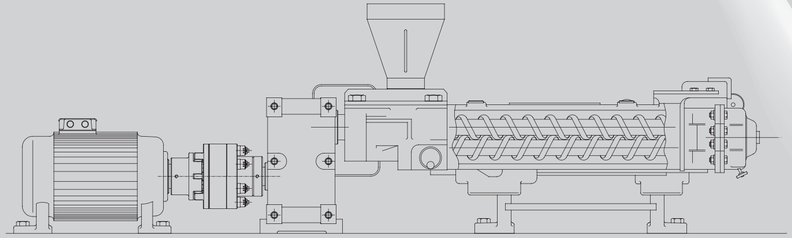
High precision, advanced technology ball safety coupling.
Provides backlash free transmission of motion with high reaction sensitivity and immediate release. The torque can be adjusted by changing the pressure of the springs.

- Solution with no torsional play
- Instant transmission release in event of an overload
- Compact solution for B5 flanges and integrated sensor
- High precision calibration
- Protection from external agents comparable with IP67
- Automatic re-engage after 360°
- Maintenance free
- Standard anti-corrosion phosphating treatment and galvanized spacer

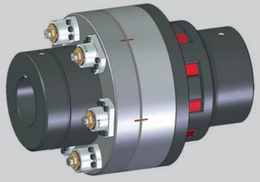
S E W R

DSM			
Size	De Max	Max. Torque	Max. Bore
	mm	Nm	mm
0	237	2.400	90
1	270	4.200	110
2	350	9.000	140
▲	650	120.000	240

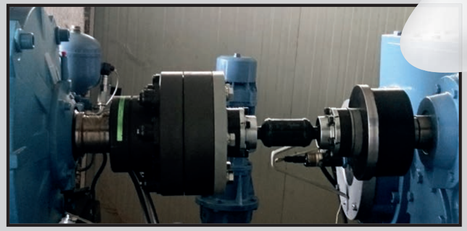
▲ on request



Can be mounted between the motor and reducer in EXTRUSION systems



Example of application with elastic coupling

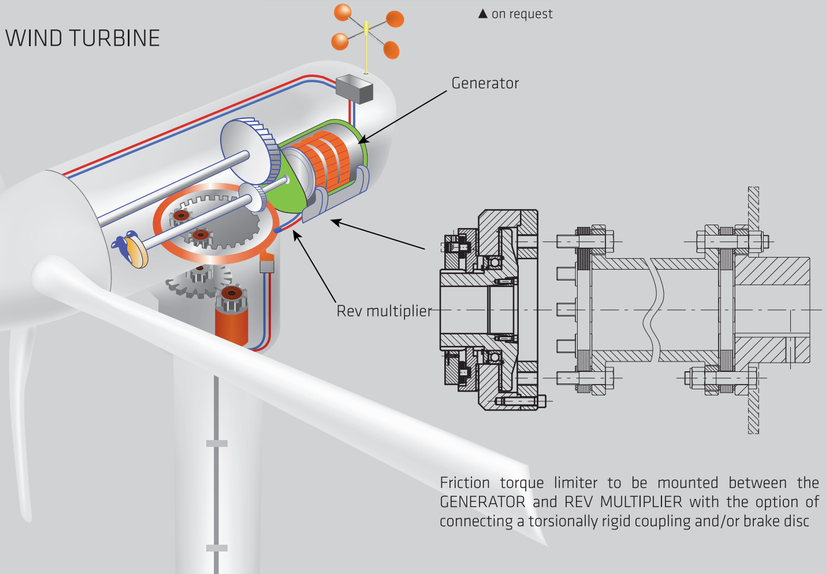


Can be mounted between the reducer and generator on wind turbines

W R

DF			
Size	De Max	Max. Torque	Max. Bore
	mm	Nm	mm
6	205	4.800	80
7	240	8.000	100
8	300	14.000	120
9	340	18.000	130
10	400	23.000	140
▲	500	45.000	150

▲ on request



Friction torque limiter to be mounted between the GENERATOR and REV MULTIPLIER with the option of connecting a torsionally rigid coupling and/or brake disc

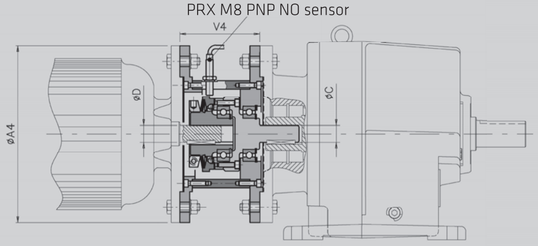
W H'O S

Size DSS/F/SG/PR-V	Torque (Nm)	IEC Flange motor B5					Speed Max (Rpm)
		Motor	DH7/Ch7	A4	V4	Weight (Kg)	
00.47	3-23	63a	11	140	52.5	3.5	4000
		71a	14	160	54.5	4.2	
0.63	5-50	80a	19	200	78	8	4000
1.80	9-100	90s	24	200	90	9	3000
2.96	20-200	100La	28	250	110	17	2500
		112M					
3.116	35-415	▲ 132M	38	300	110	24	2000
4.138	75-345	▲ 160L	42	350	126	33.5	1500 1850
	245-720	▲ 180L	48			36	
5.172	140-630 550-1200	▲ 200	55	400	160	103	800 1450
		▲ 225	55	450	160	103	
			60	450	190	107	
		▲ 250	60/65	550	190	107	

▲ solutions for NEMA motors on request

Assembly in a WASTE WATER treatment system

DESIGNED TO HANDLE HIGH TORQUES AT REDUCER OUTFEED, BUT SHOULD BE ASSEMBLED BETWEEN MOTOR AND REDUCER OR BETWEEN DIFFERENT REDUCTION STAGES



GAS
elastic jaw coupling

An elastic coupling consisting of two steel hubs and a high precision, quick-coupling mounted elastomeric element.
The hub's tooth profile ensures the coupling has a long life even in the event of transmission load variations or reverse movements.

- Made of fully turned steel
  Suitable for medium power levels
- Ideal for absorbing vibrations
- High level of misalignment
- compensation
  Complies with ATEX standards
- Statically balanced
- Various clamping systems
- available
  Standard anti-corrosion
- phosphating treatment

GAS			
Size	De Max	Max. Torque	Max. Bore
	mm	Nm	mm
6	135	2.350	80
7	160	4.280	95
8	200	9.000	110
9	225	9.800	120
10	255	14.000	130
▲	420	55.000	200

▲ on request

ATEX 2014/34/UE

GEC
compact elastic coupling

Compact elastic coupling, protected from environmental conditions. Fast maintenance possible without the need to move the shafts.
Consists of two steel hubs connected together by radial pins and with elastomeric elements mounted in the middle.

- Made of fully turned steel
- Suitable for medium-high power levels
- Statically balanced
- Maintenance without removing the coupling
- Various clamping systems available
- Highest level of protection
- Excellent value torque/dimensions
- Standard anti-corrosion phosphating treatment

GEC			
Size	De Max	Max. Torque	Max. Bore
	mm	Nm	mm
4	206	3.600	70
5	239	5.800	80
6	315	20.000	110
7	364	35.000	140
▲	610	105.000	220

▲ on request

Exploded diagram of compact elastic coupling

GTR
torsionally rigid coupling

Torsionally rigid disc coupling with angular backlash free transfer of motion. Transmission and maximum flexibility in operation. Available with personalized spacer for a specific DBSE.
Consists of steel hubs and stainless steel discs.

- Made of fully turned steel
- Suitable for high power levels
- Stainless steel disc pack
- High torsional rigidity
- Maintenance and wear free
- Suitable for high temperatures
- Solutions with intermediate spacers
- Standard anti-corrosion phosphating treatment

GTR			
Size	De Max	Max. Torque	Max. Bore
	mm	Nm	mm
6	182	3.400	80
7	206	5.200	90
8	226	8.000	95
9	252	14.000	110
10	296	20.000	120
▲	456	130.000	205

▲ on request

Torsionally rigid version of coupling with a GTR/DBSE spacer and standard anti-corrosion galvanization treatment

steel industry

extruders

wind energy

water treatment

recycling

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ATTIVITÀ COFINANZIATA DALLE CAMERE DI COMMERCIO DELL'EMILIA ROMAGNA
RegioneEmilia-Romagna