

GIGANT

FLEXIBLE DISMOUNTABLE COUPLINGS

GIGANT type flexible couplings are basically used to join the electric driving motor with the transmission shaft in belt and scraper conveyors, compressors, pumps, fans and other devices. The couplings are characterised by their compact construction. The couplings can always be used when it is difficult to dismount the engine. An F-type flexible segment can be replaced without dismounting the coupling from the power transmission system.

The couplings feature good attenuation of the dynamic torque variables. However, more accurate centring of the power transmission system will be required. The couplings can be used in machines intended for operation in underground mines in a, b or c hazard zones with the danger of methane explosion and at level A and B of coal dust explosion risk.

Application:

- Belt conveyors, scraper conveyors, roller conveyors, compressors, fans, pumps, mixers, centrifuges, cranes.

■ TECHNICAL PARAMETERS:

GIGANT type of coupling (mechanical size)	Unit	4	8	16	32	50	75
Power transmitted (1500 rpm)	kW	55	100÷132	200	315	500	750
Maximum rotational speed	min ⁻¹	3000	3000	3000	3000	3000	1500
Nominal torque	Nm	560	760	1610	3220	3000	4000
Dynamic torque	Nm	1680	2280	4830	9660	8000	10000
Angle distortion of the coupling with a nominal torque for hardness of the elastomer 90°Sh	φN (°)	ca.5,0	ca.6,0	ca.6,5	ca.7,0	ca.5,0	ca.5,0
Post-axial mounting misalignment (for the housing location)	ΔP mm	1÷1,5	1÷1,3	1÷1,3	1÷1,3	1÷1,5	1÷1,5
Radial mounting misalignment	ΔP _r mm	1,5	1,5	1,5	1,5	1,5	1,5
Acceptable axial misalignment of the coupling semicircles during continuous work	ΔK _w (°)	1,5	1,5	1,5	1	1	0,8

