

SET

HIGHLY FLEXIBLE COUPLINGS

Highly flexible couplings type SET are characterized by possibility of significant compensation during sudden, momentary overloads, over and above the nominal value of the transferred rotational moment and the same time it guarantees the integrity of the driving and driven machine. This is so since during driven machine is blocked and motor is still working, in that case flexible elements will breaks and drive will be disconnected.

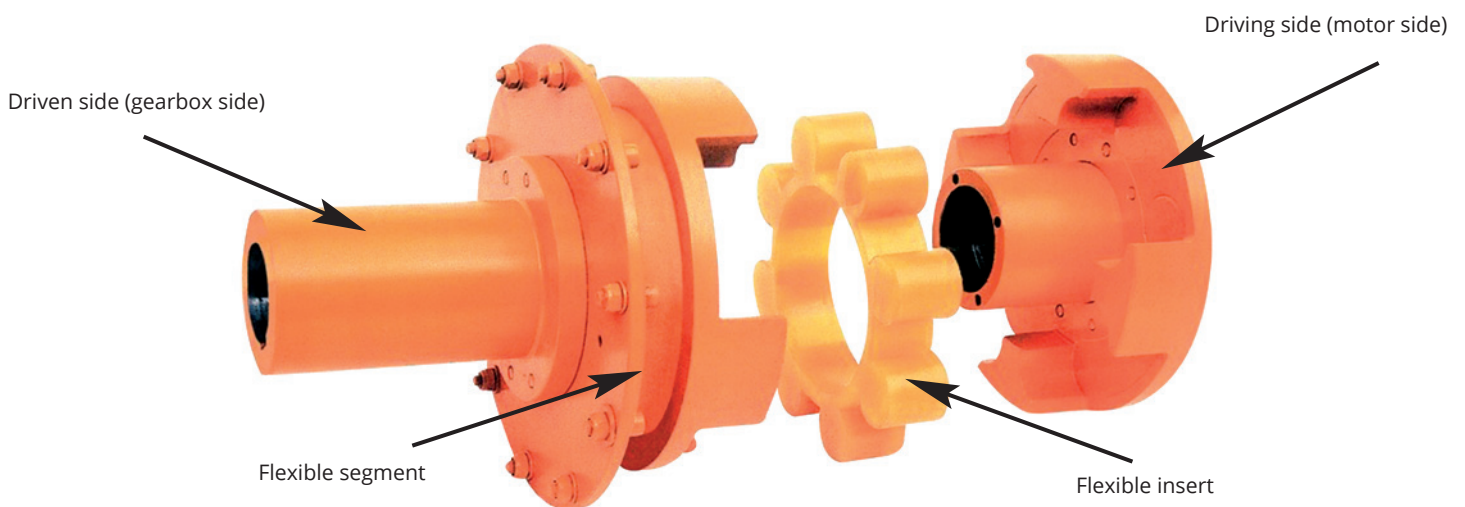
We obtained an enhanced flexibility for type SET couplings through the application of two resilient elements: a resilient insert and a resilient segment. The hub mounted on the transmission shaft is bolted to the “flexible segment” and to the circular disk which, via the “flexible insert”, transfers the rotational momentum from the hub mounted on the motor shaft. The flexible insert is not bolted to the rest of the machine thus, the coupling is unconnected in this place. This is very important during the housing installation in the drive, there is no need to unscrew the bolt joints carried out during factory assembly.

FLEXIBLE INSERT WORKING CONDITIONS:

They can work in a pH 5÷12 environment, with in temperatures ranging from -40°C to +100°C. They are chemically resistant inclusive of: common solvents, petrol, oils or lubricants, sulphur or hydrochloric acids, soda lye, salt water.

Application:

- The basic application of the SET - flexible couplings is to join the electric motor with the transmission shaft in the drives of belt and drag conveyors, pump compressors, fans and other systems.



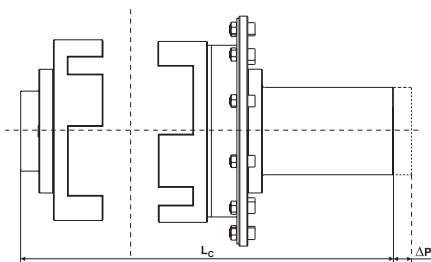
SET

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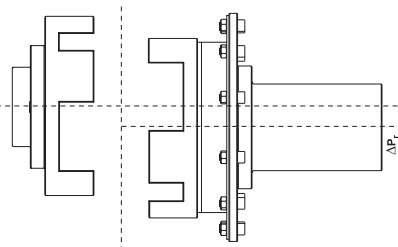
TECHNICAL PARAMETERS:

SET type of coupling (mechanical size)	Unit	SET 100... SET 132...	SET 200...	SET 250...	SET 315...	SET 500...	SET 750...	SET 1000...
Nominal torque	Nm	1080	2300	3200	4600	6400	10 000	15 000
Dynamic torque	Nm	3240	6900	9600	13 800	19 000	30 000	45 000
Angle distortion of the coupling with a nominal torque for hardness of the elastomer 70°Sh	φ_N (°)	ca.8	ca.8	ca.8	ca.8	ca.8	ca.5	ca.5
Post-axial mounting misalignment (for the housing location)	ΔP mm	1÷3	1÷3	1÷4	1÷4	1÷4	1÷4	1÷4
Radial mounting misalignment	ΔP_r mm	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Accepttable axial misalignment of the coupling semicircles during continous work	ΔK_w (°)	1,5	1,5	1	1	1	1	1

Axial misalignment
 ΔP



Radial misalignment
 ΔP_r



Angular misalignment
 ΔK_w

