

ST4

WITH SIMPLE KEYWAY MOUNTING

200 - 25,000 Nm



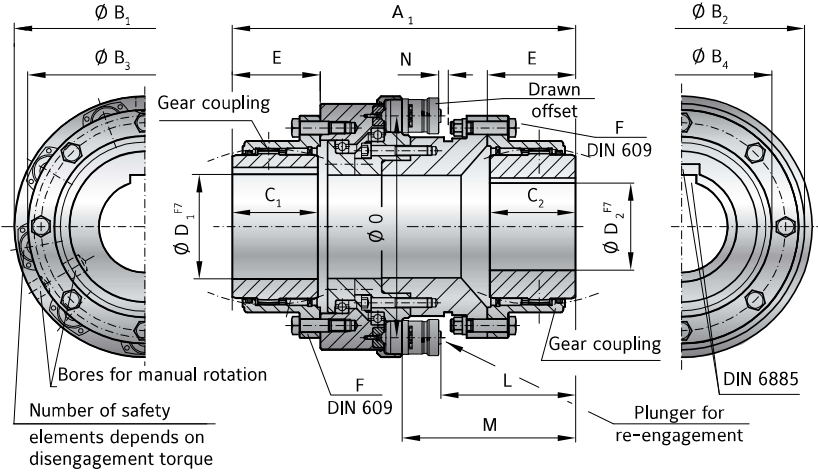
PROPERTIES

MATERIAL

- ▶ **Safety coupling portion:** hardened steel (nitrocarburized surface)
- ▶ **Gear coupling portion:** wear resistant high strength alloy steel (nitrocarburized surface)

DESIGN

With keyway connection (spline profile on request). Gear coupling for misalignment compensation. Safety elements evenly spaced around the circumference. Field adjustable within the specified range.



MODEL ST4 | SIZE 2 - 25

SIZE		2			5			10			25			
Adjustment range available from - to	(kNm)		0.2-0.5	0.5-1.0	1.0-1.5	0.7-2	1.2-4	3.2-6	2-5	4-10	6-14	6-12	9-18	15-25
			3×ST10	6×ST10	6×ST10	3×ST15	6×ST15	6 ST15	3×ST15	6×ST15	9×ST15	6×ST15	9× ST15	12×ST15
Overall length	(mm)	A ₁	280			350			390			460		
Flange outside diameter (ST portion)	(mm)	B ₁	198			220			270			318		
Mounting flange outside diameter (ST portion)	(mm)	B ₂	192			209			259			300		
Flange outside diameter (gear coupling)	(mm)	B ₃	168			200			225			265		
Hub diameter (gear coupling)	(mm)	B ₄	130.5			158.4			183.4			211.5		
Fit length/keyway length	(mm)	C _{1/2}	62			76			90			105		
Bore diameter Ø to Ø F7	(mm)	D _{1/2}	30-78			32-98			42-112			46-132		
Length	(mm)	E	63.5			78.5			92.5			108		
Screw	(mm)	F	6×M8			10×M12			12×M12			12×M16		
Tightening torque	(mm)	F	18			65			65			150		
Distance	(mm)	L	110			138			159.5			202		
Distance	(mm)	M	148			188			209.5			252		
Actuation path	(mm)	N	3.5			4.5			4.5			4.5		
Mounting diameter - elements	(mm)	O	154			171			220			270		
Moment of inertia (approx.) D max. + max. sgmnt	(10 ⁻³ kgm ²)		108			244			529			1117		
Speed max.	(rpm)		4000			3900			3700			3550		
Approx. weight at D max. + max. sgmnt	(kg)		25			45			65			100		
Axial	(mm)		1.5			2.5			2.5			3		
Angular	(Degrees)		2×0.35°			2×0.35°			2×0.35°			2×0.35°		

* Larger bore diameters upon request. | For technical information about the gear coupling segments see page 19.

ST4

WITH SIMPLE KEYWAY MOUNTING

12,000 - 250,000 Nm



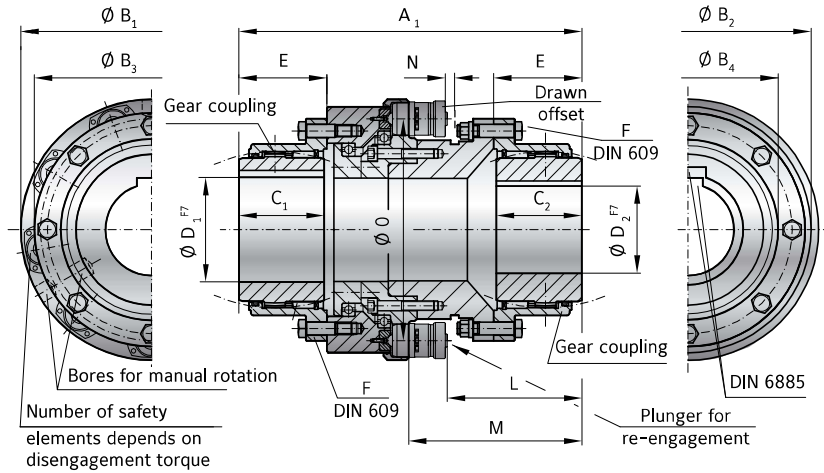
PROPERTIES

MATERIAL

- **Safety coupling portion:** hardened steel (nitrocarburized surface)
- **Gear coupling portion:** wear resistant high strength alloy steel (nitrocarburized surface)

DESIGN

With keyway connection (spline profile on request). Gear coupling for misalignment compensation. Safety elements evenly spaced around the circumference. Field adjustable within the specified range.



SAFETY COUPLINGS
ST

MODEL ST4 | SIZE 40-250

SIZE		40			60			100			160			250	
Adjustment range available from - to (kNm)		12-21	22-32	32-45	11-18	22-36	30-55	24-50	45-90	80-110	25-55	50-110	80-165	100-170	160-250
		6×ST30	6×ST30	9×ST30	3×ST30	6×ST30	9×ST30	3×ST70	6×ST70	9×ST70	3×ST70	6×ST70	9×ST70	8×ST71	12×ST71
Overall length (mm)	A_1	580			650			780			860			1060	
Flange outside diameter (ST portion) (mm)	B_1	428			459			592			648			740	
Mounting flange outside diameter (ST portion) (mm)	B_2	399			418			560			618			724	
Flange outside diameter (gear coupling) (mm)	B_3	330			370			438			525			639	
Hub diameter (gear coupling) (mm)	B_4	275.5			307			367			423			553	
Fit length/keyway length (mm)	$C_{1/2}$	135			150			190			220			290	
Bore diameter \varnothing to $\varnothing F7$ (mm)	$D_{1/2}$	60-174			70-190			110-233			120-280			200-340	
Length (mm)	E	139			154			194			225			296	
Screw (mm)	F	14×M16			14×M18			14×M22			16×M24			22×M24	
Tightening torque (mm)		150			220			400			520			670	
Distance (mm)	L	238			275			318			360			458	
Distance (mm)	M	306			343			408			450			534	
Actuation path (mm)	N	8			8			10			10			10	
Mounting diameter - elements (mm)	O	350			376			490			532			630	
Moment of inertia (approx.) D max. + max. sgmnt (10^{-3} kgm ²)		4363			6650			20611			33820			84926	
Speed max. (rpm)		2750			2420			1950			1730			950	
Approx. weight at D max. + max. sgmnt (kg)		225			293			570			718			1280	
Axial (mm)		4			4			4			5			6	
Angular (Degrees)		2×0.35°			2×0.35°			2×0.35°			2×0.35°			2×0.35°	

* larger bore diameters upon request. | For technical information about the gear coupling segments see page 19.