

ST1

WITH SIMPLE KEYWAY MOUNTING

2 - 165 KNm



ABOUT

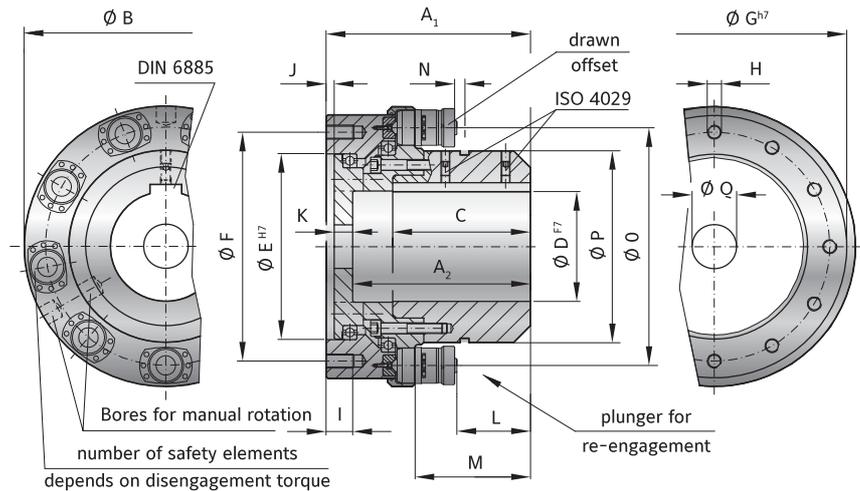
MATERIAL
Hardened steel (nitrocarburized surface)

► Driven side: output flange with 12x fastening threads and integral bearings

DESIGN

► Drive side: coupling hub with keyway connection (spline profile on request)

► Safety elements: evenly spaced around the circumference; externally adjustable



MODEL ST1

SIZE	10			25			60			160		
	2-6	4-12	6-18	3-8	5-16	10-25	11-20	22-40	35-60	25-55	50-110	80-165
Adjustment range available from - to (KNm)	3 x ST 15	6 x ST 15	9 x ST 15	3 x ST 15	6 x ST 15	9 x ST 15	3 x ST 30	6 x ST 30	9 x ST 30	3 x ST 70	6 x ST 70	9 x ST 70
Overall length (mm)	A ₁	183			230			320			410	
Bore depth (mm)	A ₂	158			200			275			360	
Flange outside diameter (mm)	B	270			318			459			648	
Fit length (mm)	C	120			155			220			290	
Bore diameter possible Ø to Ø F7 (mm)	D	40-110			60-140			80-200			100-290	
Flange centering diameter H7 (mm)	E	170			210			300			450	
Bolt circle diameter ±0.3 (mm)	F	220			260			360			570	
Outside diameter h7 (mm)	G	259			298			418			618	
Fastening threads	H	12 x M16			12 x M16			12 x M20			12 x M24	
Thread depth (mm)	I	25			30			35			40	
Fit length (mm)	J	6			8			8			10	
Wall thickness (mm)	K	17			20			30			38	
Distance (mm)	L	45			83			96			136	
Distance (mm)	M	95			130			165			225	
Actuation path (mm)	N	4			4			7,5			10	
Mounting diameter - elements (mm)	O	220			270			376			532	
Hub outside diameter (mm)	P	170			218			295			418	
Bore for fastening screw (mm)	Q	max. Ø 110			max. Ø 140			max. Ø 200			max. Ø 290	
Moment of inertia (approx.) D max. (10 ⁻³ kgm ²)		370			780			4600			24600	
Speed max. (rpm)		4200			3800			2500			2000	
Allowable max. radial force standard* (KN)		40			60			100			200	
Approx. weight at D max. (kg)		40			63			179			463	

* larger radial loads possible with special bearings

ORDERING EXAMPLE	ST1	025	5-16	12	117.48	25.4	XX
Model	●						
Size		●					
Adjustment range (KNm)			●				
Disengagement torque (KNm)				●			
Bore diameter D F7					●		
Bore for fastening screw in shaft end (Q)						●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. ST1 / 025 / 5-16 / 12 / 117.48 / 25.4 / XX)							