

**BZ1**

# WITH KEYWAY MOUNTING

1,300 - 348,000 Nm



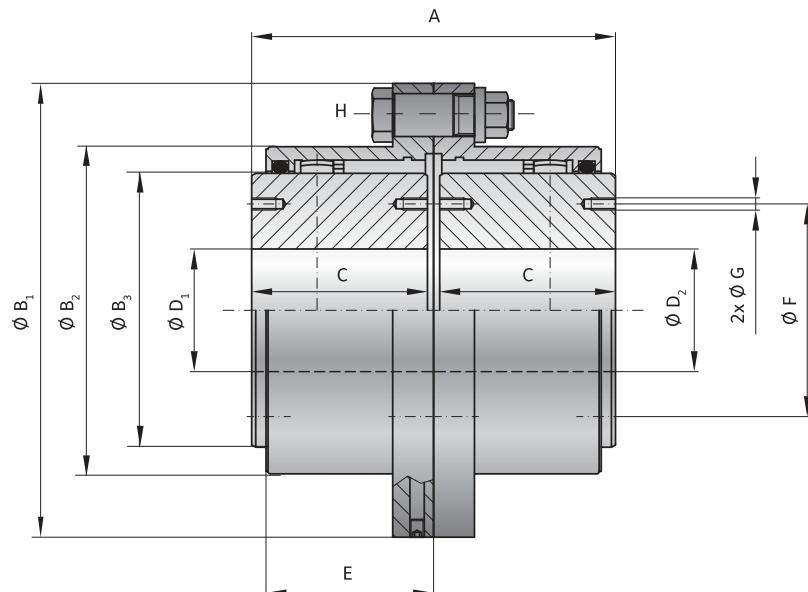
## ABOUT

### MATERIAL

Coupling made of burnished high strength steel

### DESIGN

Hubs with keyway mounting or high precision cylindrical bore for interference fitting. Optional DIN 916 set screw for locking down onto shaft key.



## MODEL BZ1

SIZE	10	25	50	100	150	200	300	450	600	800	1100	1700
Rated torque (Nm)	T <sub>KN</sub>	1,300	2,800	5,000	10,000	16,000	22,000	32,000	45,000	62,000	84,000	115,000
Maximum torque (Nm)	T <sub>Kmax</sub>	2,600	5,600	10,000	20,000	32,000	44,000	64,000	90,000	124,000	168,000	230,000
Overall length (mm)	A	89	103	127	157	185	216	246	278	308	358	450
Flange outside diameter (mm)	B <sub>1</sub>	111	141	171	210	234	274	312	337	380	405	444
Flange hub outside diameter	B <sub>2</sub>	80	103.5	129.5	156	181	209	247	273	307	338	426
Shaft hub outside diameter	B <sub>3</sub>	67	87	106	130	151	178	213	235	263	286	372
Shaft fit length	C	43	50	62	76	90	105	120	135	150	175	220
Available bore diameters (from-to) H7 (mm)	D <sub>1</sub> /D <sub>2</sub>	10 - 45	15 - 60	25 - 75	30 - 95	35 - 110	50 - 130	60 - 155	75 - 175	85 - 195	95 - 215	115 - 240
Hub length	E	41	47	58.5	68.5	82	98	108.5	121	132	151.5	165
Diameter for handling screws	F	-	-	-	-	130	155	185	205	226	250	330
Handling screw size	G	-	-	-	-	2 x M8	2 x M8	2 x M10	2 x M12	2 x M16	2 x M16	2 x M20
Hex head screw (10.9)	H	6 x M8	8 x M10	6 x M12	6 x M16	8 x M16	8 x M20	8 x M20	10 x M20	10 x M20	14 x M20	14 x M24
Tightening torque (Nm)		33.5	66	112	277	277	537	537	537	537	537	795
Moment of inertia (kgm <sup>2</sup> )		0.005	0.015	0.04	0.105	0.191	0.43	0.842	1.32	2.448	3.716	5.384
Approximate weight (kg)		4	7	14	25	37	60	90	118	169	224	414
Grease volume (dm <sup>3</sup> )		0.05	0.07	0.13	0.21	0.36	0.52	0.8	0.98	1.51	2.02	3.29
Hub material		Steel										
Axial misalignment (mm)		3	3	3	5	5	6	6	8	8	8	10
Angular misalignment (degrees)		2 x 0.75										
Max. speed (rpm)		7000	6200	5650	5100	4700	4350	4000	3800	3600	3450	3300

ORDERING EXAMPLE	BZ1	50	60.33	50	XX
Model	●				
Size		●			
Bore Ø D1 F7			●		
Bore Ø D2 F7				●	
Special designation only (e.g. special bore tolerance).					
For custom features place an XX at the end of the part number and describe the special requirements (e.g. BZ1 / 50 / 60.33 / 50 / XX)					