

# BZ1

## WITH KEYWAY MOUNTING

290,000 – 2,080,000 Nm

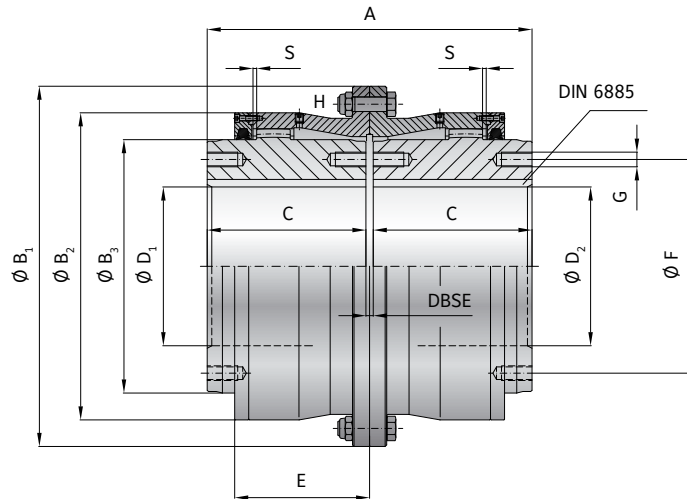


NEW

### PROPERTIES

**MATERIAL**  
 Coupling from 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 3000 - 10000

SIZE			3000	4000	5000	7000	8000	10000
Rated torque	(kNm)	$T_{KN}$	290	402	518	693	882	1040
Max. torque	(kNm)	$T_{Kmax}$	580	804	1036	1386	1764	2080
Installed length	(mm)	A	532	592	652	712	772	820
Outside diameter	(mm)	$B_1$	590	639	702	769	834	894
Flange diameter	(mm)	$B_2$	503	553	597	657	722	763
Hub diameter	(mm)	$B_3$	415	464	490	545	620	660
Hub fit length	(mm)	C	260	290	320	350	380	400
Bore diameters from $\phi$ to $\phi$ H7 with keyways	(mm)	$D_{1/2}$	160-325	180-370	200-400	200-430	230-475	250-510
Bore diameters from $\phi$ to $\phi$ H7 with interference fit	(mm)	$D_{1/2}$	160-325	180-370	200-400	200-430	230-475	250-510
Distance between shaft ends	(mm)	DBSE	12	12	12	12	12	20
Hub length	(mm)	E	221	245.5	262	280	292	315
Hole circle diameter	(mm)	$\phi F$	350	400	430	490	560	580
Thread size		G	M24	M24	M30	M30	M24	M36
Bolt		H	M24	M24	M30	M30	M30	M36
Tightening torque	(Nm)		670	670	1250	1250	1250	2170
Moment of inertia at Dmax	( $10^{-3} \text{kgm}^2$ )		18781	28323	44986	71329	113616	150801
Weight at Dmax	(kg)		406	503	670	904	1201	1403
Max speed	(1/min)		1100	990	890	785	700	645
Axial misalignment	(mm)	S	6	6	6	6	6	10
Angular misalignment	(Degree)		2×0.35	2×0.35	2×0.35	2×0.35	2×0.35	2×0.35

CROWNED GEAR  
 COUPLINGS BZ

ORDERING EXAMPLE	BZ1	5000	210	390	XX
Model	●				
Size		●			
Bore $\phi$ D1 H7			●		
Bore $\phi$ D2 H7				●	
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 / 5000 / 210 / 390 / XX)					