Other Standard Ball Slewing Rings

Overview

10 – 12 0120 / 0 – 03659

Drawing reference number

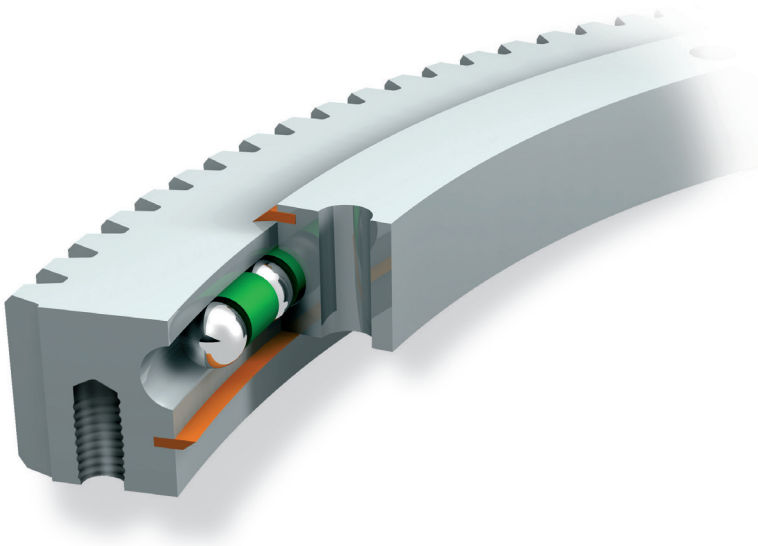
Gearing heat treatment
0: Untoothed
1: Normalized
2: Quenched and tempered

Raceway diameter [D_L in mm]

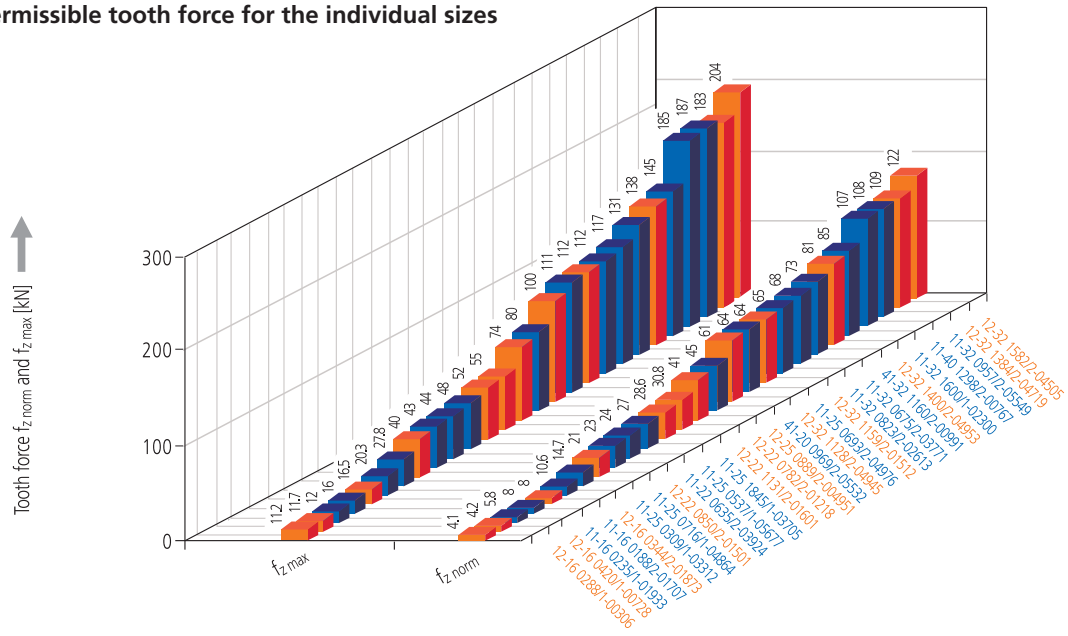
Rolling element diameter [D_w in mm]

Gear type:
0: Untoothed
1: External toothed
2: Internal toothed

Bearing design
1: Single Row Ball Slewing Ring
2: Cross Roller Slewing Ring
3: Triple Row Roller Slewing Ring
4: Double Row Ball Slewing Ring
5: Ball / Roller Combination Slewing Ring
6: Gear rim / pinion / ring
7: Wire race bearing / fitting element
8: Double Axial Slewing Ring
9: Ball Slewing Ring with flange rings
0: Special Slewing Ring



Permissible tooth force for the individual sizes



Operating conditions

Permissible temperature range -25°C to +70°C
Maximum permissible rotational speed $n_{perm} = 40000 / D_L$
(D_L = raceway diameter)
"Compressive" load
Bolt grade 10.9

Characteristics

- Robust design
- For high levels of vibration
- Cost-optimized design
- Medium precision
- Wide range of diameters

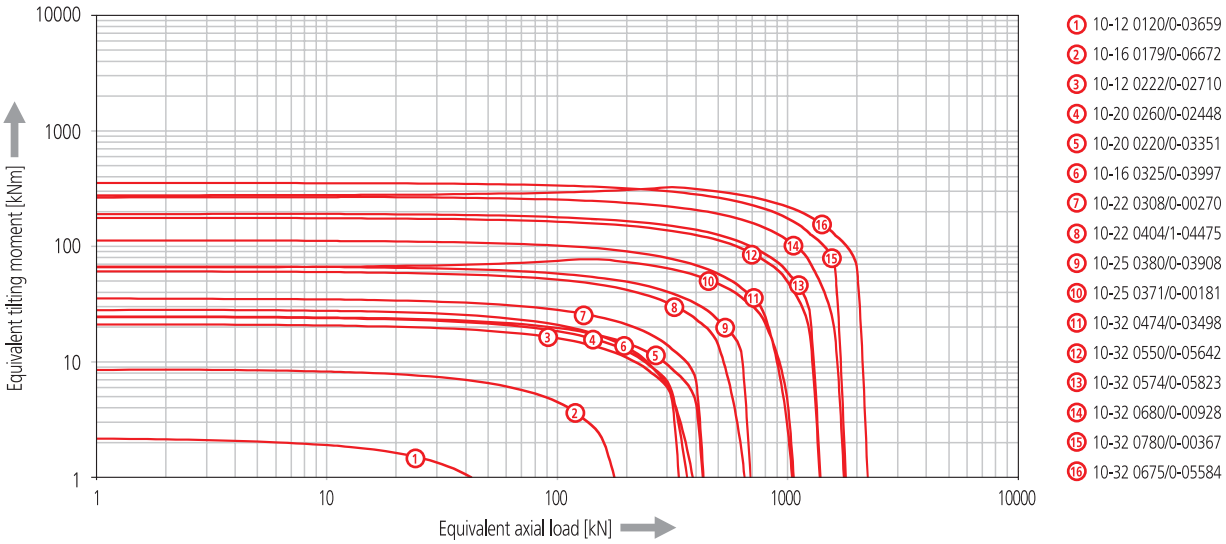
Typical applications

Turntables, slewing mechanisms, bogies, light to medium-sized cranes, construction machinery, wind energy turbines and winders (applications such as double axial Slewing Rings with increased radial load).

Limiting load diagrams for other standard types

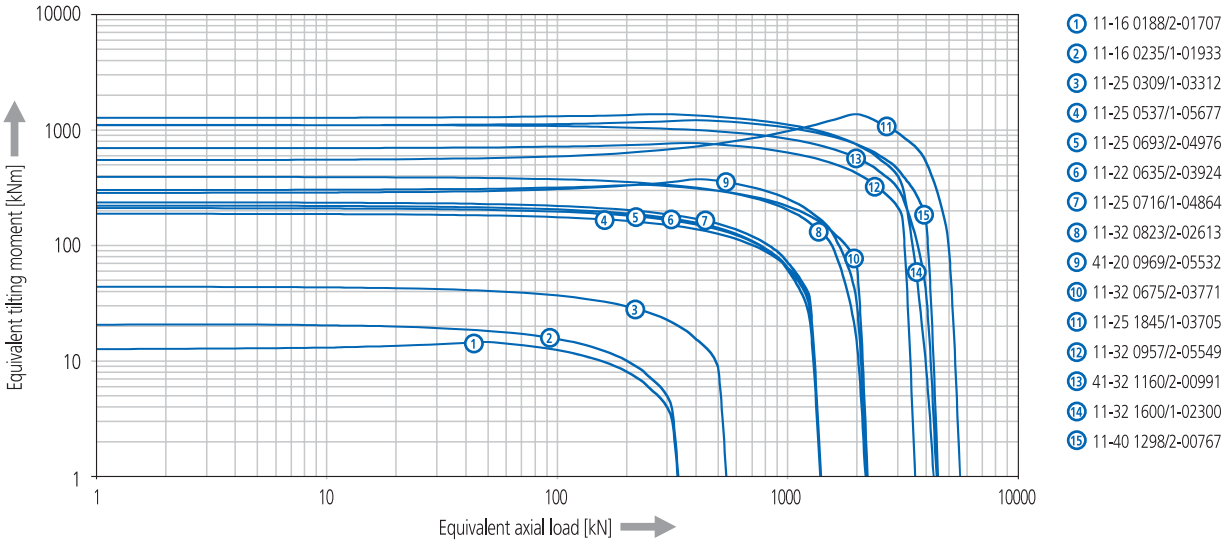
Please refer to the explanations in the Technical Information section of the catalog.

Limiting load diagrams for standard types, untoothed



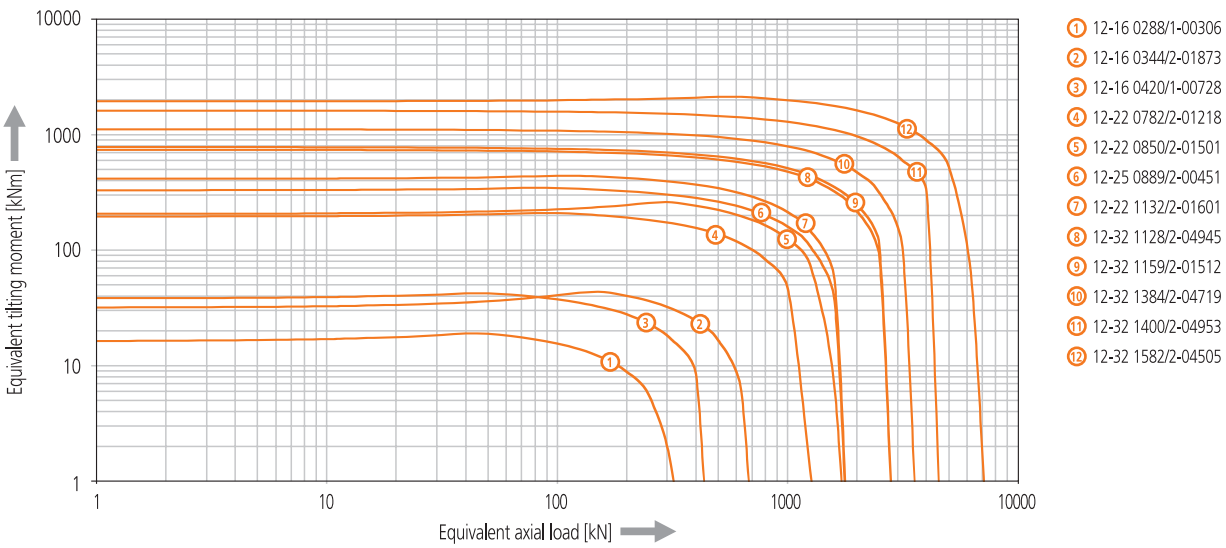
1. 10-12 0120/0-03659
2. 10-16 0179/0-06672
3. 10-12 0222/0-02710
4. 10-20 0260/0-02448
5. 10-20 0220/0-03351
6. 10-16 0325/0-03997
7. 10-22 0308/0-00270
8. 10-22 0404/1-04475
9. 10-25 0380/0-03908
10. 10-25 0371/0-00181
11. 10-32 0474/0-03498
12. 10-32 0550/0-05642
13. 10-32 0574/0-05823
14. 10-32 0680/0-00928
15. 10-32 0780/0-00367
16. 10-32 0675/0-05584

Limiting load diagrams for standard types, external toothed



1. 11-16 0188/2-01707
2. 11-16 0235/1-01933
3. 11-25 0309/1-03312
4. 11-25 0537/1-05677
5. 11-25 0693/2-04976
6. 11-22 0635/2-03924
7. 11-25 0716/1-04864
8. 11-32 0823/2-02613
9. 41-20 0969/2-05532
10. 11-32 0675/2-03771
11. 11-25 1845/1-03705
12. 11-32 0957/2-05549
13. 41-32 1160/2-00991
14. 11-32 1600/1-02300
15. 11-40 1298/2-00767

Limiting load diagrams for standard types, internal toothed



1. 12-16 0288/1-00306
2. 12-16 0344/2-01873
3. 12-16 0420/1-00728
4. 12-22 0782/2-01218
5. 12-22 0850/2-01501
6. 12-25 0889/2-00451
7. 12-22 1132/2-01601
8. 12-32 1128/2-04945
9. 12-32 1159/2-01512
10. 12-32 1384/2-04719
11. 12-32 1400/2-04953
12. 12-32 1582/2-04505

Other **Standard Ball Slewing Rings** - untoothed

Size 10-12 0120/0-03659

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
4	6	6	29	78	43	50	C45N	-	2 x AM8x1	0 - 0.03	0 - 0.03

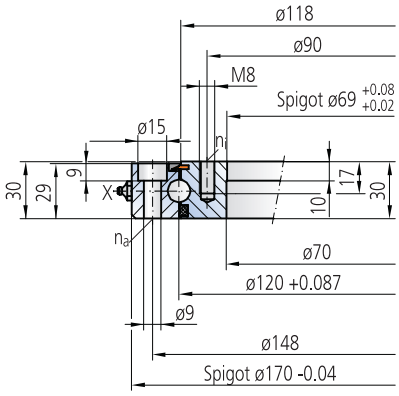
Size 10-16 0179/0-06672

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
7	12	12	78	209	89	103	C45N	-	2 x AM8x1	0.04 - 0.14	0.07 - 0.23

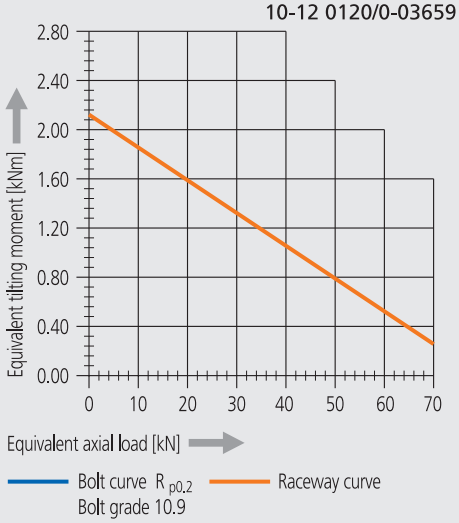
Size 10-20 0220/0-03351

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
16	10	10	181	485	177	205	C45N	-	2 x AM6	0.05 - 0.20	0.10 - 0.40

Limiting load diagram for "compressive" loads



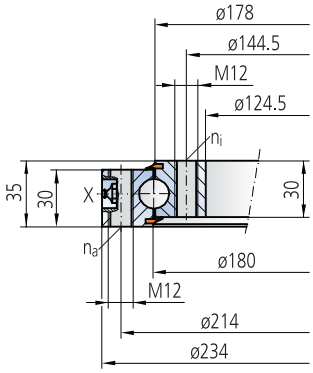
10-12 0120/0-03659



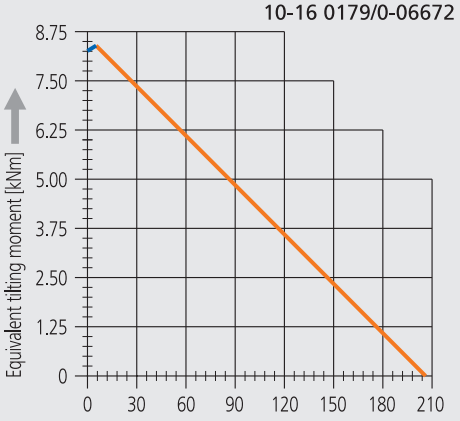
Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



10-16 0179/0-06672



Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

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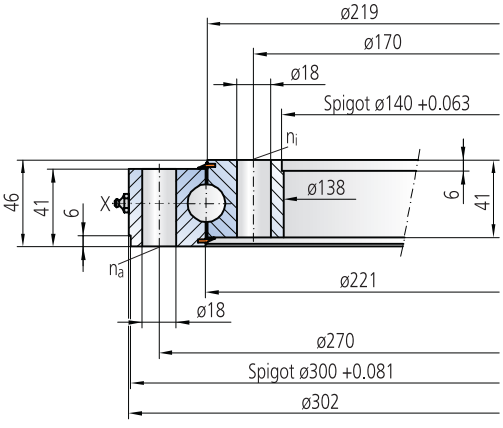
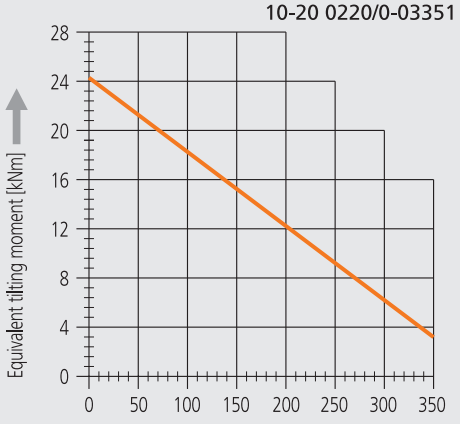
Limiting load diagram for "compressive" loads



10-20 0220/0-03351



Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - untoothed

Size 10-12 0222/0-02710

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
11	12	12	143	253	70	82	C45N	-	2 x AM6	0 - 0.05	0 - 0.10

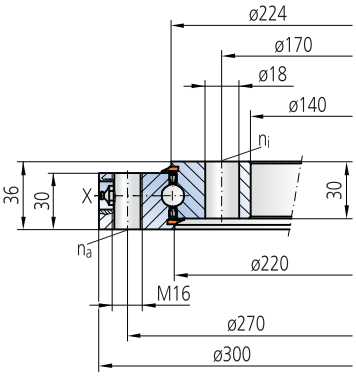
Size 10-20 0260/0-02448

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
15	16	16	151	403	143	166	C45N	-	2 x AM6	0.05 - 0.20	0.08 - 0.33

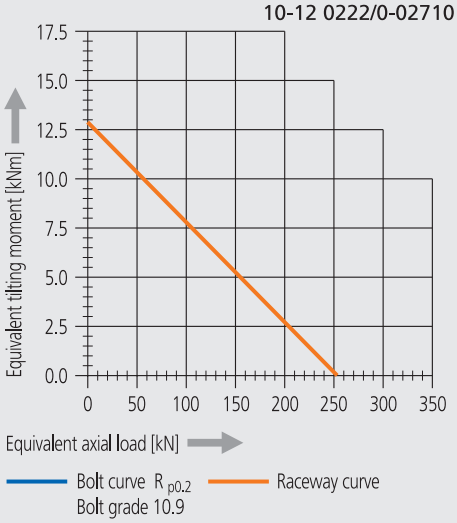
Size 10-22 0308/0-00270

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
28	24	28	185	494	172	200	C45N	-	4 x AM8x1	0 - 0.10	0 - 0.15

Limiting load diagram for "compressive" loads



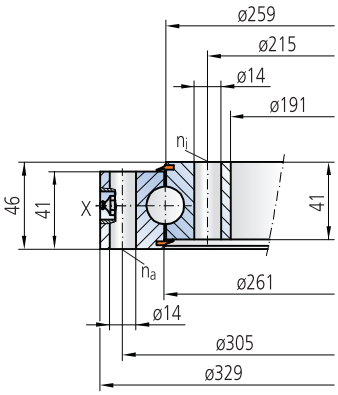
10-12 0222/0-02710



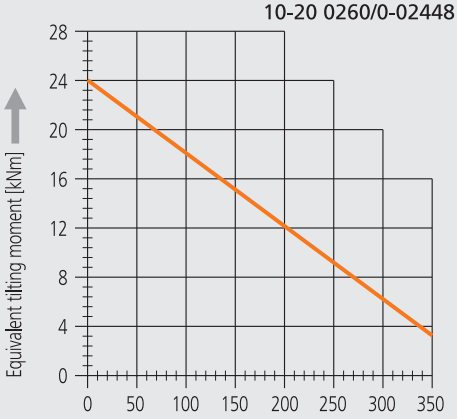
Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



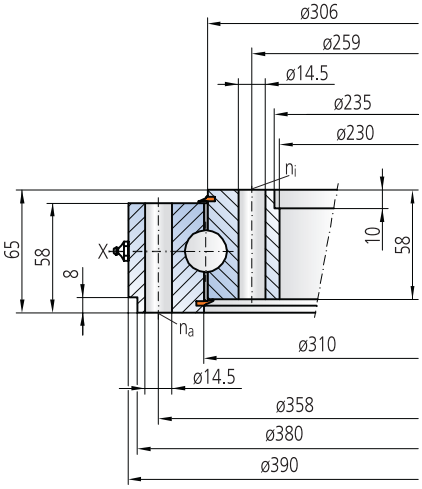
10-20 0260/0-02448



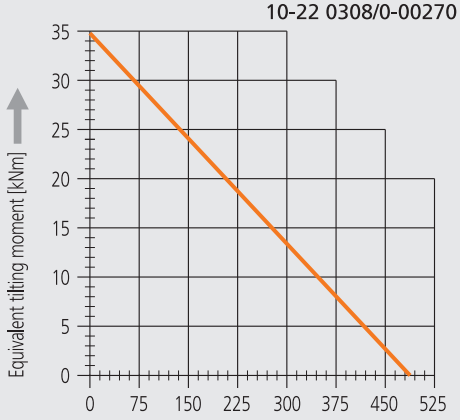
Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



10-22 0308/0-00270



Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - untoothed

Size 10-16 0325/0-03997

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
12	24	24	142	380	114	132	C45N	-	2 x AM6	0.04 - 0.14	0.07 - 0.23

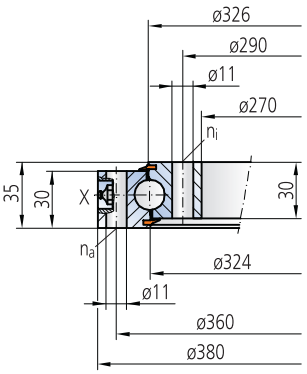
Size 10-25 0371/0-00181

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
41	16	16	392	1050	298	346	C45N	-	2x AM10x1	0.06 - 0.25	0.10 - 0.41

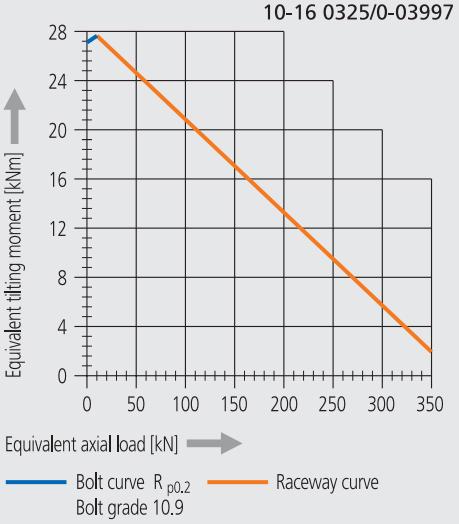
Size 10-25 0380/0-03908

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
43	16	16	282	755	226	263	C45N	-	2x AM10x1	0.06 - 0.25	0.11 - 0.41

Limiting load diagram for "compressive" loads



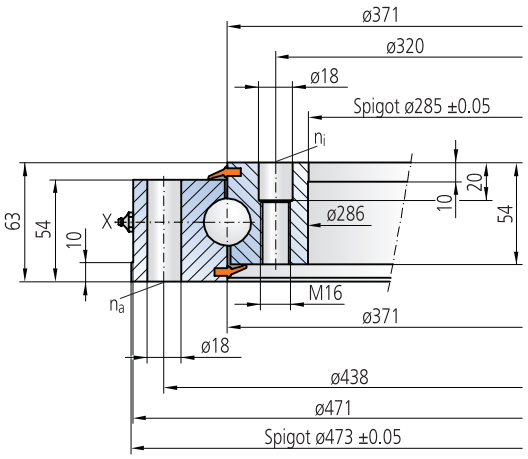
10-16 0325/0-03997



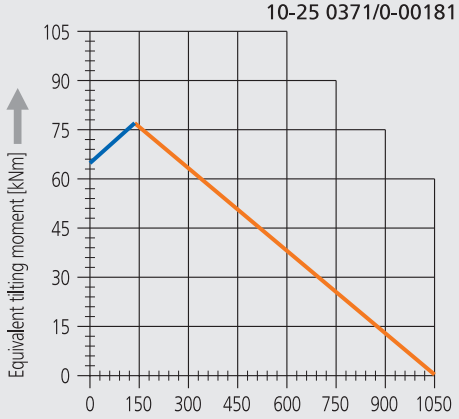
Bolt curve $R_{p0.2}$ — Raceway curve
Bolt grade 10.9

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



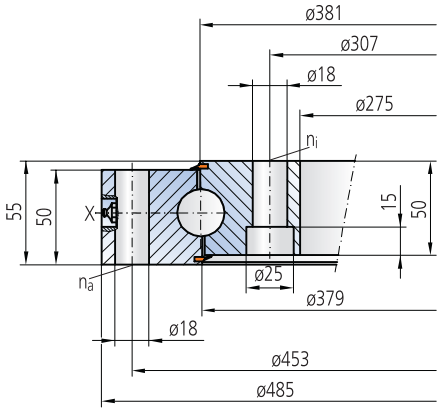
10-25 0371/0-00181



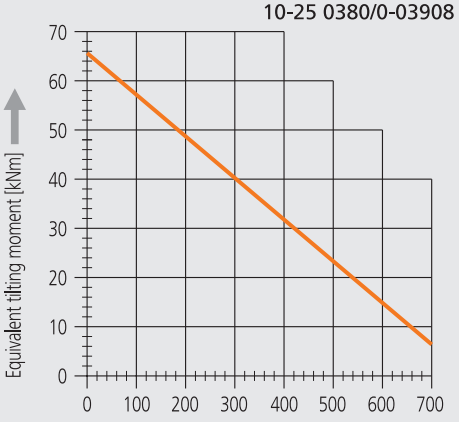
Bolt curve $R_{p0.2}$ — Raceway curve
Bolt grade 10.9

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



10-25 0380/0-03908



Bolt curve $R_{p0.2}$ — Raceway curve
Bolt grade 10.9

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - untoothed

Size 10-22 0404/0-04475

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
22	29*	30	242	649	193	225	C45N	-	2 x AM8x1	0.05 - 0.15	0.05 - 0.15

* Spaced for 30

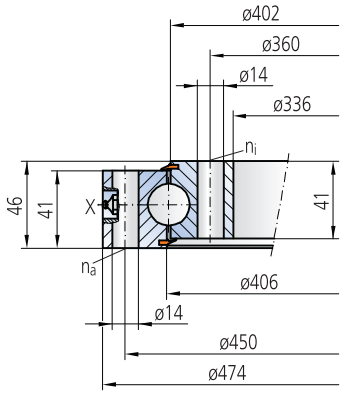
Size 10-32 0474/0-03498

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
68	24	24	381	1019	319	371	C45N	-	6 x AM8x1	0.07 - 0.30	0.12 - 0.48

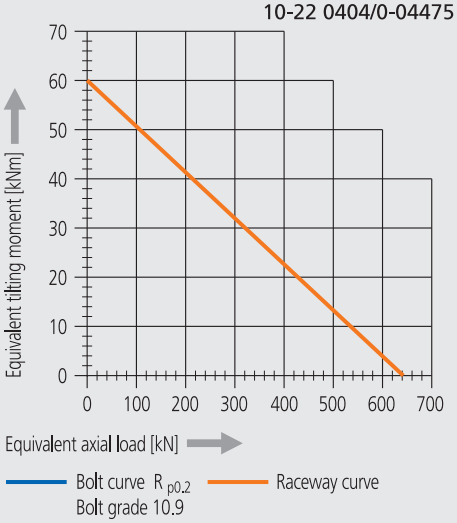
Size 10-32 0550/0-05642

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
75	24	24	514	1377	339	394	42CoMo4V	-	4x AM10x1	0.08 - 0.32	0.13 - 0.52

Limiting load diagram for "compressive" loads

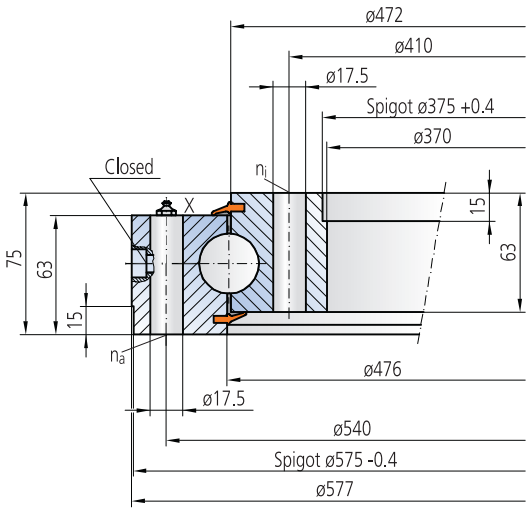


10-22 0404/0-04475

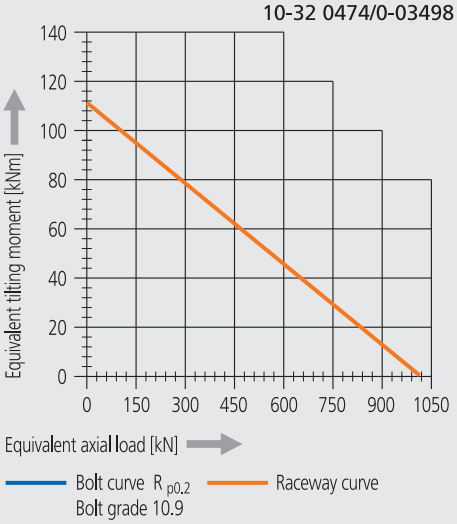


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

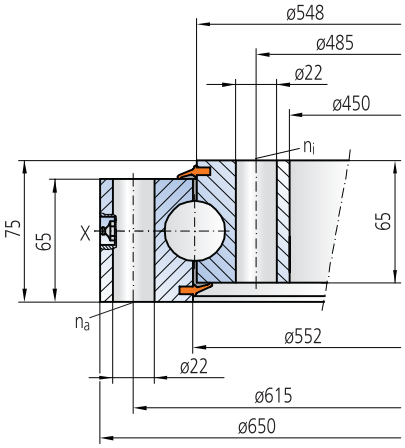


10-32 0474/0-03498

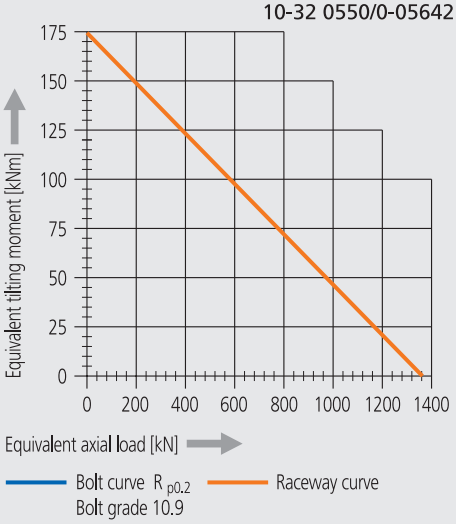


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



10-32 0550/0-05642



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Size 10-32 0574/0-05823

Weight	Mounting holes		Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
77	36	35*	537	1437	344	400	C45N	-	2 x AM10x1	0 - 0.10	0 - 0.15

* Spaced for 36

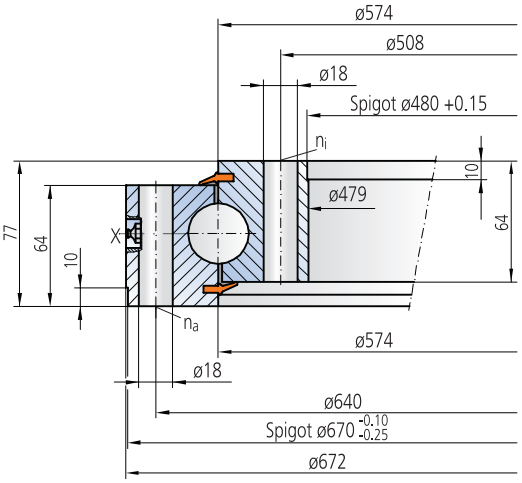
Size 10-32 0675/0-05584

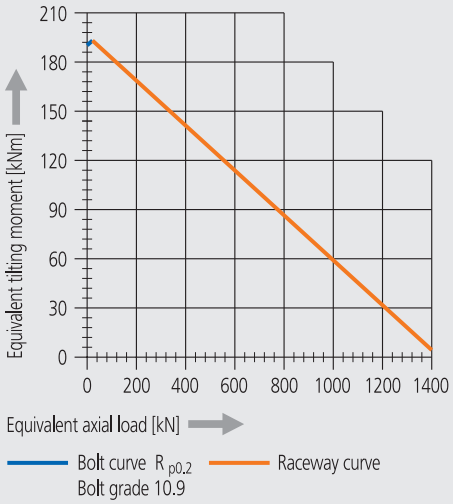
Weight	Mounting holes		Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
131	36	35*	899	2406	486	565	42CoMo4V	-	je 4x AM8x1	0 - 0.10	0 - 0.20

* Spaced for 36

Limiting load diagram for "compressive" loads

10-32 0574/0-05823

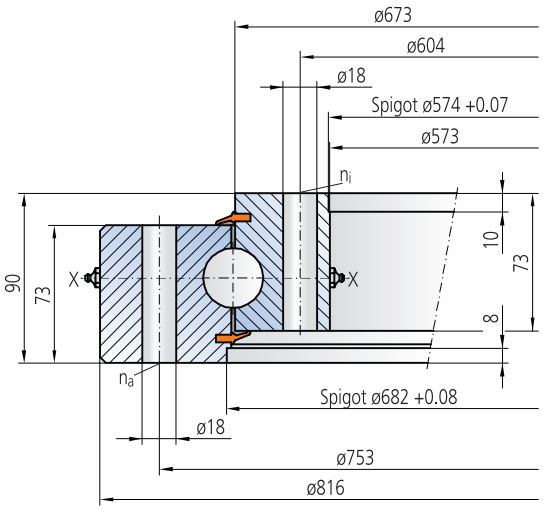


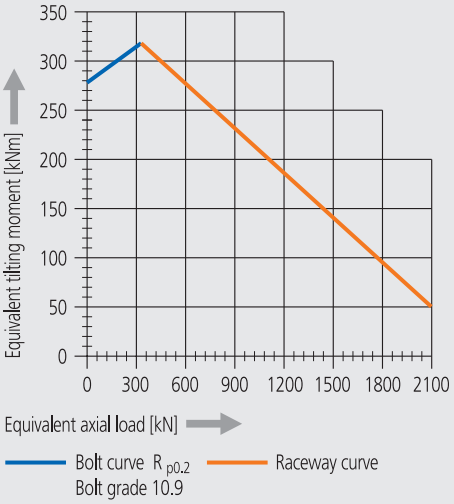


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

10-32 0675/0-05584





Please adhere strictly to the rules given in the Technical Information section when using above graph!

Size 10-32 0680/0-00928

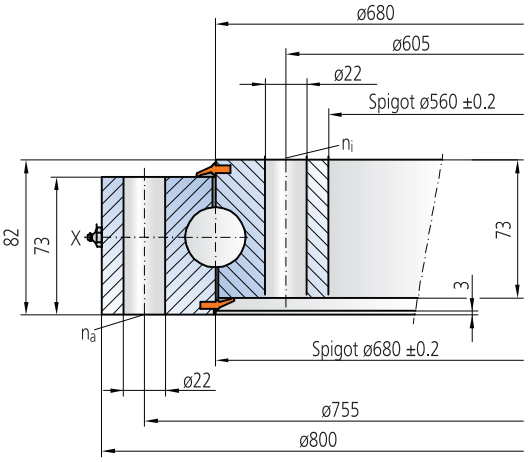
Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
120	24	24	636	1702	365	425	C45N	-	8 x AM10x1	0.08 - 0.32	0.13 - 0.52

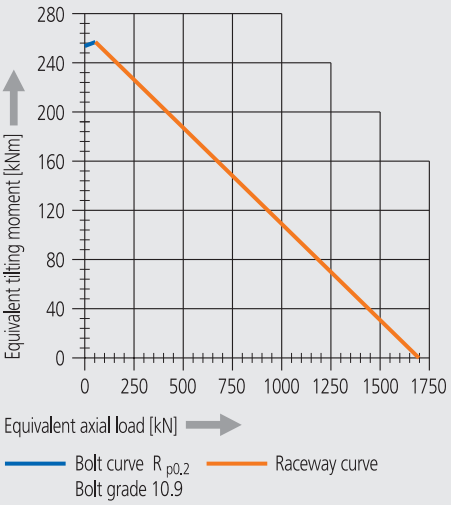
Size 10-32 0780/0-00367

Weight	Mounting holes		Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
125	32	32	730	1952	385	448	C45N	-	4 x AM10x1	0.10 - 0.30	0.10 - 0.50

Limiting load diagram for "compressive" loads

10-32 0680/0-00928

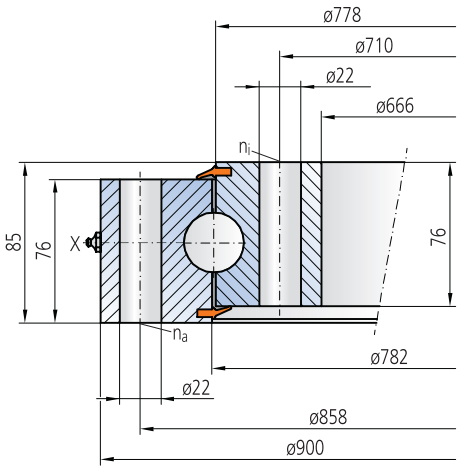


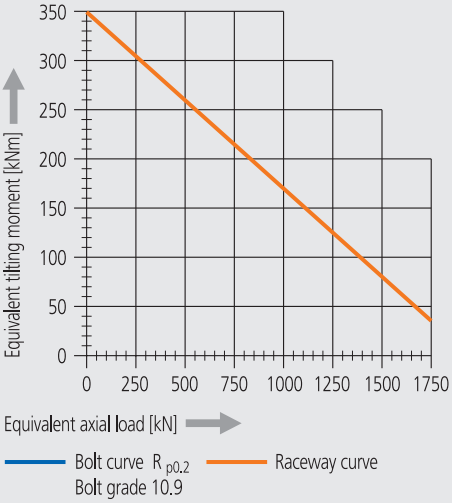


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

10-32 0780/0-00367





Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - external toothed

Size 11-16 0188/2-01707

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
7,5	16	15*	4	62	0.50	8	16	143	384	121	141	C45N 42CrMo4V	-	2 x ø10	0.03 - 0.10	0.05 - 0.20

* Spaced for 16

Size 11-16 0235/1-01933

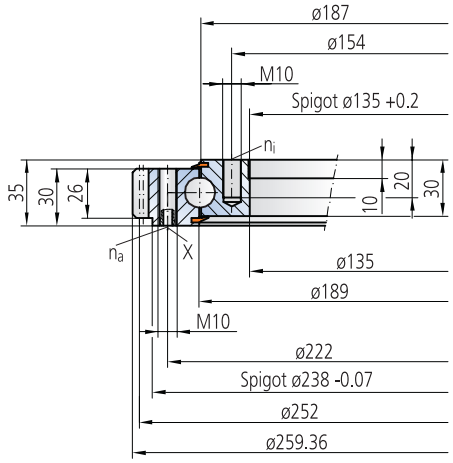
Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
13	12	12	4	78	-	5.8	12	143	384	132	153	C45N	-	2 x AM8x1	0.04 - 0.16	0.07 - 0.26

Size 11-25 0309/1-03312

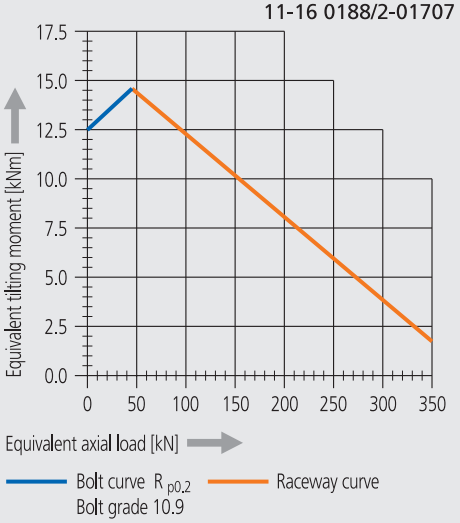
Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
30	24	23*	5	80	-	10.6	20.3	229	614	209	242	C45N	-	4 x AM8x1	0.06 - 0.25	0.10 - 0.41

* Spaced for 24

Limiting load diagram for "compressive" loads

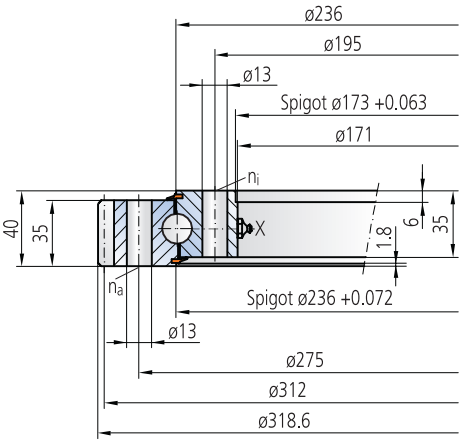


11-16 0188/2-01707

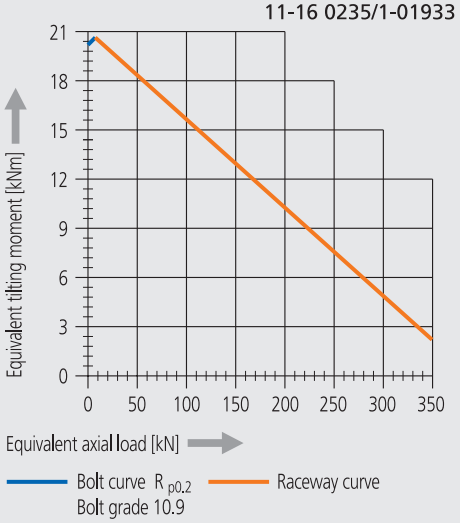


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

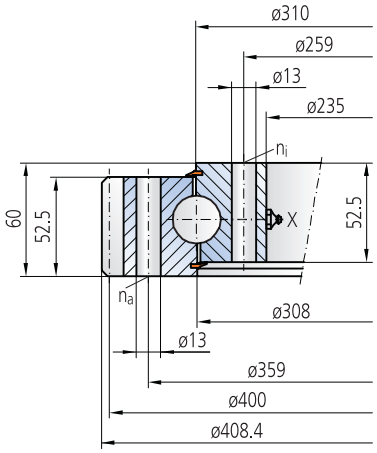


11-16 0235/1-01933

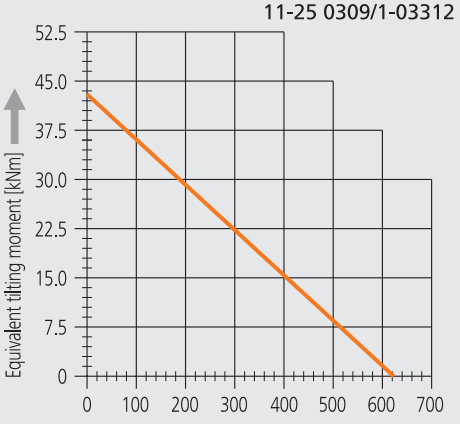


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



11-25 0309/1-03312



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - external toothed

Size 11-25 0537/1-05677

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
91	30	29*	6	112	0.50	24	44	568	1519	344	400	42CrMo4N	3 x M16	2 x ø8	0.06 - 0.25	0.11 - 0.41

* Spaced for 30

Size 11-22 0635/2-03924

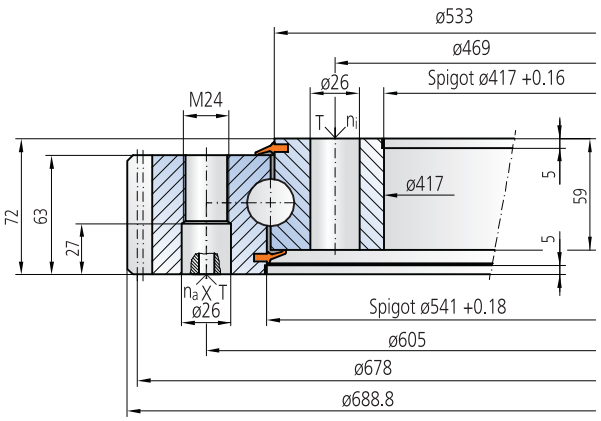
Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
79	40	40	6	122	-	23	43	536	1434	305	355	42CrMo4V	-	4 x AM10x1	0 - 0.10	0 - 0.30

Size 11-32 0675/2-03771

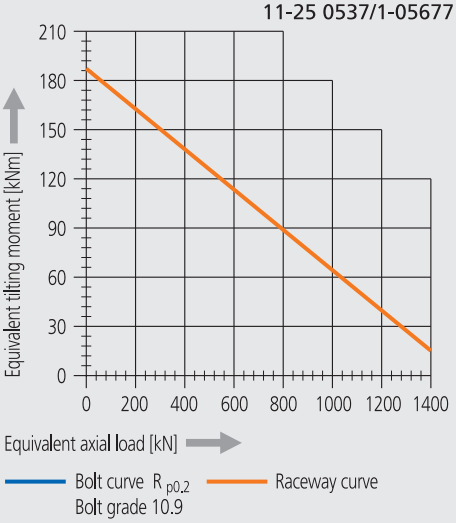
Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
137	36	35*	10	81	0.50	68	117	899	2406	486	565	42CrMo4C 42CrMo4V	-	je 3x AM10x1	0 - 0.10	0 - 0.21

* Spaced for 36

Limiting load diagram for "compressive" loads

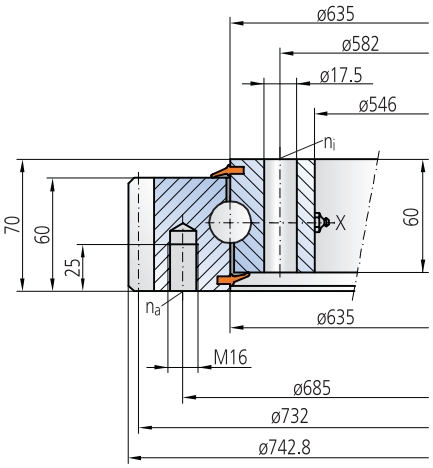


11-25 0537/1-05677

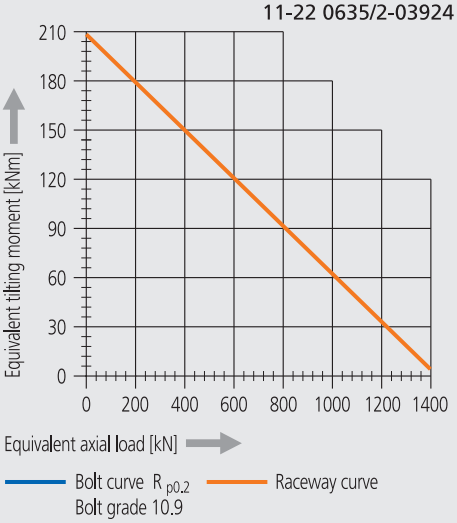


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

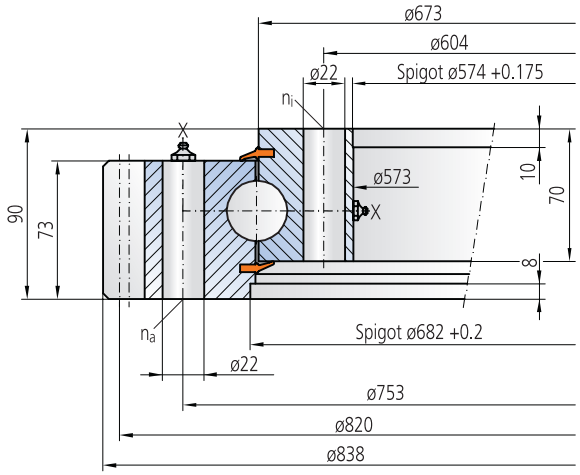


11-22 0635/2-03924

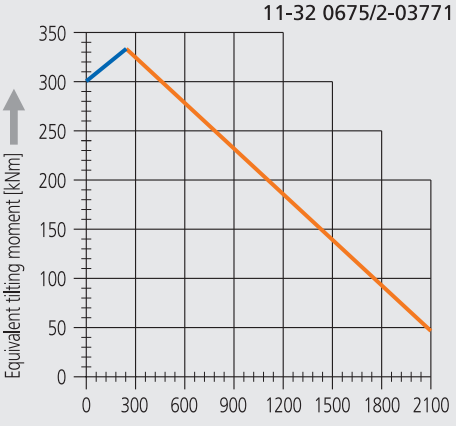


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



11-32 0675/2-03771



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - external toothed

Size 11-25 0693/2-04976

Weight	Mounting holes		Gearing and tooth forces					Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
132	42	42	10	81	0.50	64	111	514	1376	285	332	42CrMo4V	3 x M16	4 x R1/4"	0.06 - 0.25	0.11 - 0.41

Size 11-25 0716/1-04864

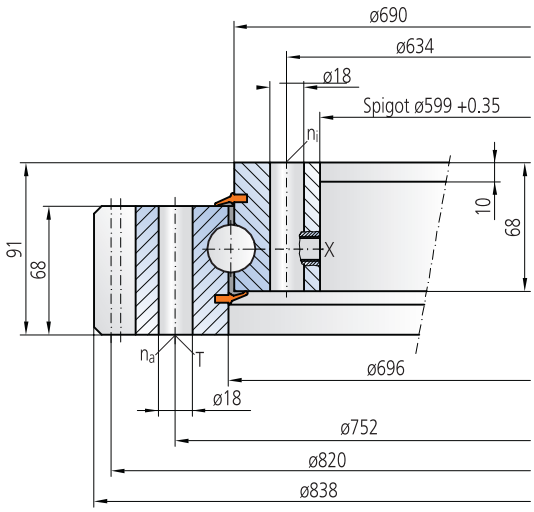
Weight	Mounting holes		Gearing and tooth forces					Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
96	40	40	6	138	0.50	14.7	27.8	531	1422	287	334	C45N	3 x M16	4 x AM10x1	0 - 0.10	0 - 0.30

Size 11-32 0823/2-02613

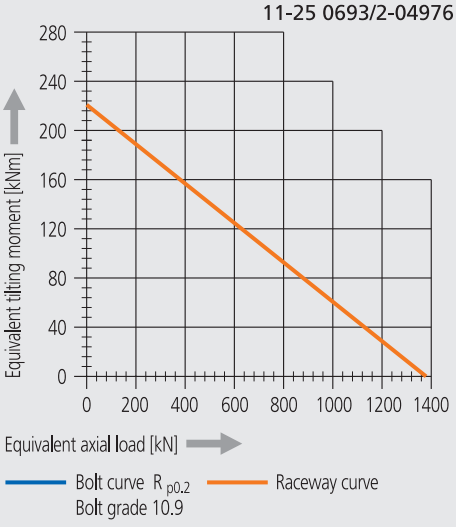
Weight	Mounting holes		Gearing and tooth forces					Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
177	36	35*	10	94	1.10	65	112	770	2060	393	458	42CrMo4V	-	4 x AM10x1	0.08 - 0.32	0.13 - 0.52

* Spaced for 36

Limiting load diagram for "compressive" loads

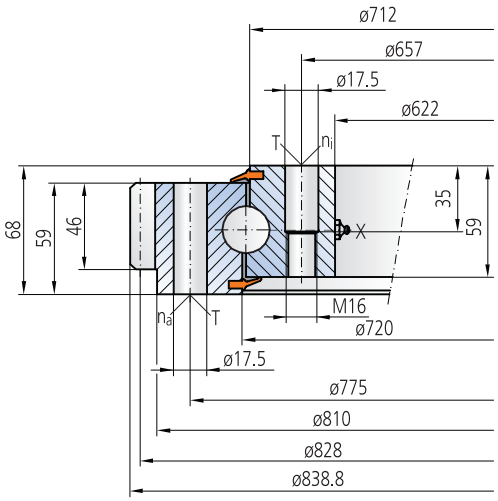


11-25 0693/2-04976

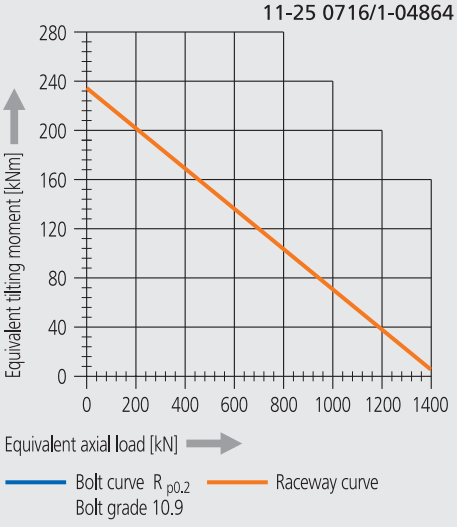


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

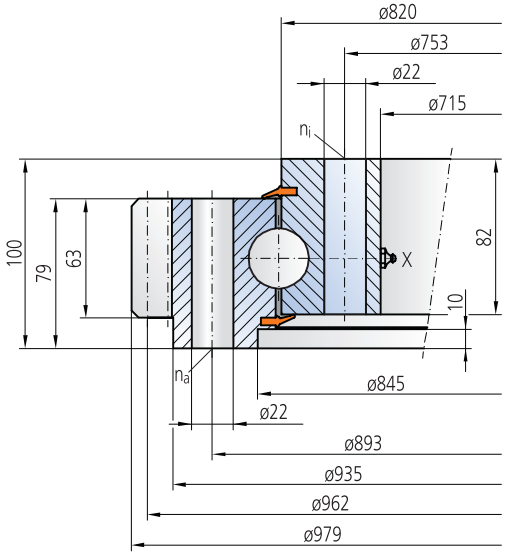


11-25 0716/1-04864

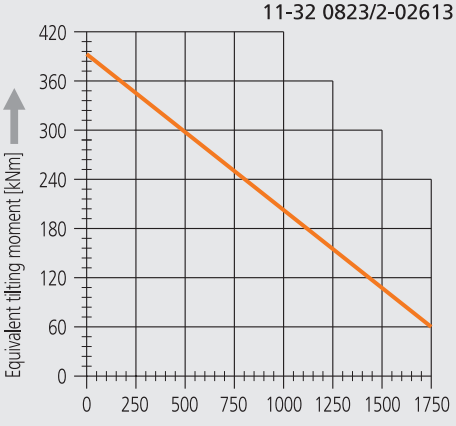


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



11-32 0823/2-02613



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - external toothed

Size 11-32 0957/2-05549

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
324	42	41*	12	91	1.07	108	187	1459	3906	553	644	42CrMo4V	3 x M16	3 x R1/4"	0.08 - 0.32	0.13 - 0.52

* Spaced for 42

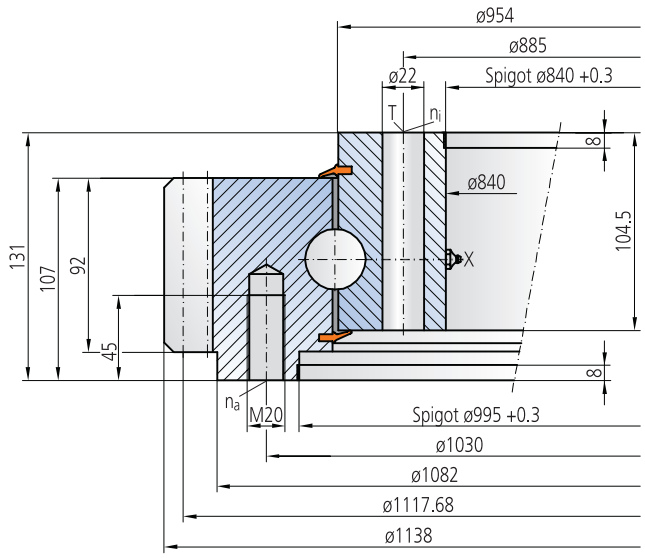
Size 41-20 0969/2-05532

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
213	30	30	8	131	1.07	45	80	798	2135	231	363	42CrMo4V	-	je 2 x AM10x1	0 - 0.10	0 - 0.20

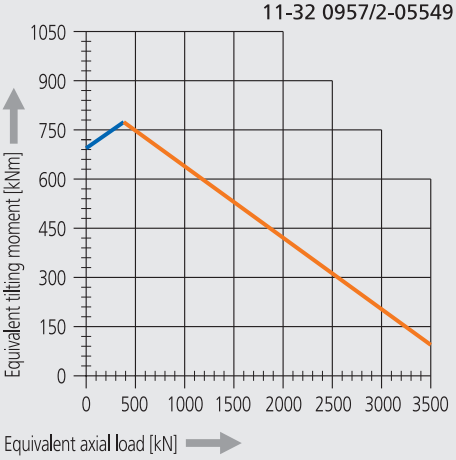
Size 41-32 1160/2-00991

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
429	40	40	10	132	0.50	73	131	1545	4134	594	692	42CrMo4C 42CrMo4V	-	je 4x AM10x1	0 - 0.10	0 - 0.25

Limiting load diagram for "compressive" loads



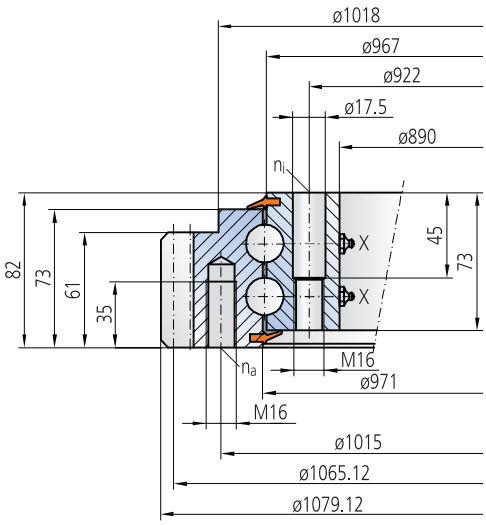
11-32 0957/2-05549



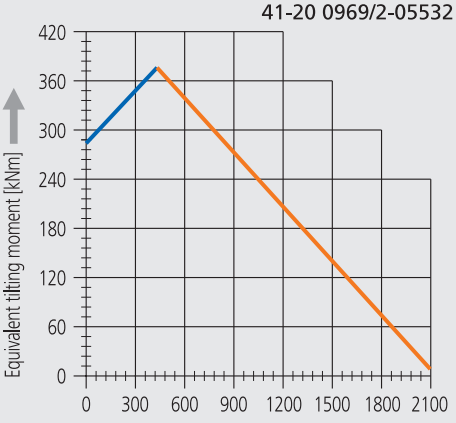
Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



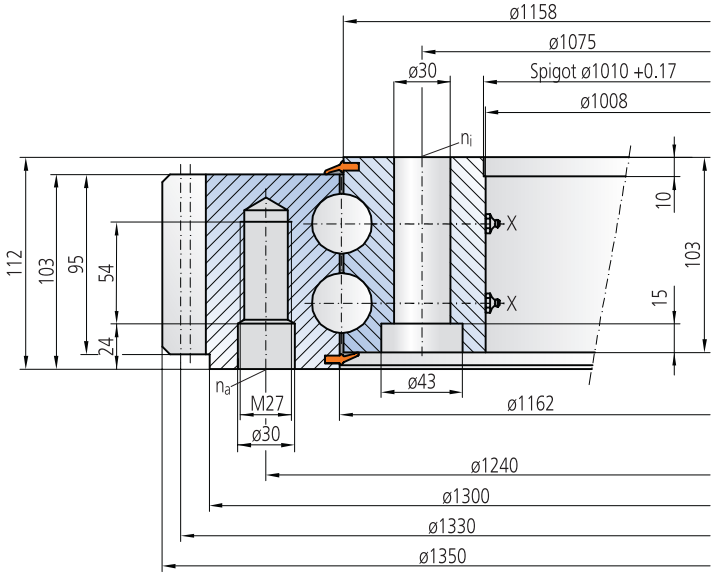
41-20 0969/2-05532



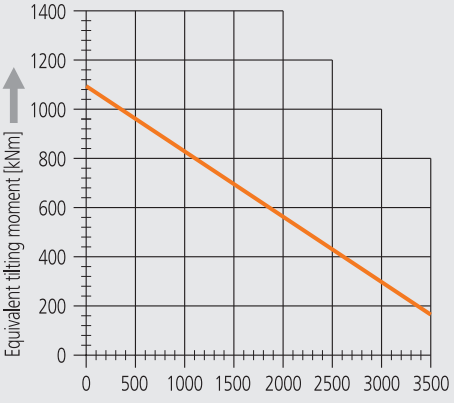
Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



41-32 1160/2-00991



Bolt curve $R_{p0.2}$ Bolt grade 10.9 — Raceway curve

Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - external toothed

Size 11-40 1298/2-00767

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
362	60	59*	12	120	0.90	107	185	1676	4485	586	682	42CrMo4V	-	4 x AM10x1	0.10 - 0.30	0.17 - 0.54

* Spaced for 60

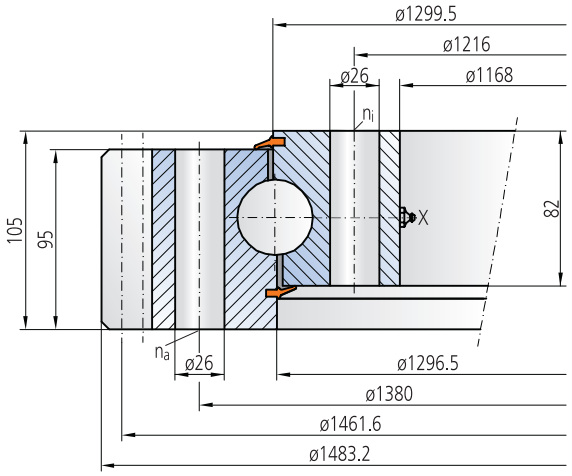
Size 11-32 1600/1-02300

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
479	40	40	14	126	0.50	85	145	1497	4005	503	586	C45N	-	8 x AM10x1	0.08 - 0.32	0.13 - 0.52

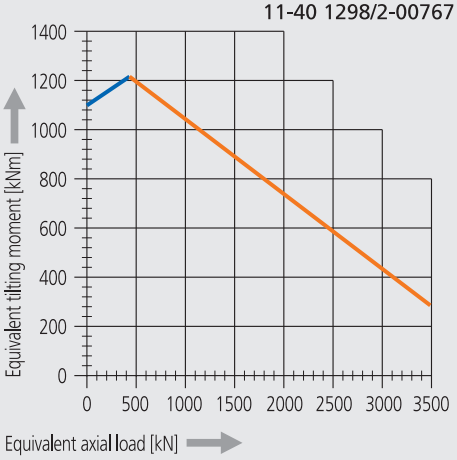
Size 11-25 1845/1-03705

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
261	36	36	8	244	0.00	27	48	1951	5220	543	633	C45N	-	6 x AM10x1	0 - 0.10	0.10 - 0.20

Limiting load diagram for "compressive" loads

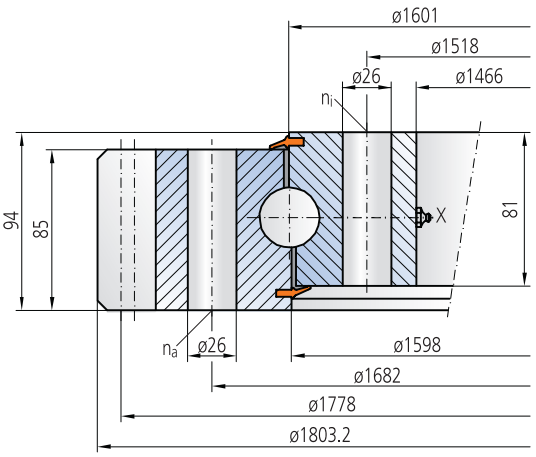


11-40 1298/2-00767

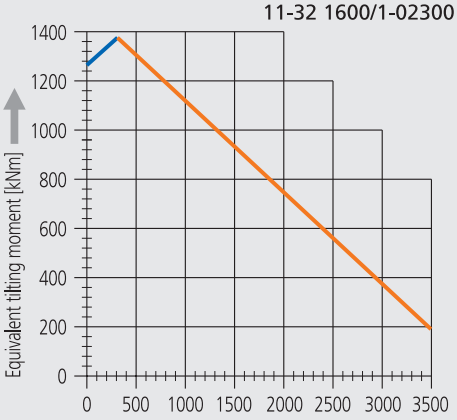


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

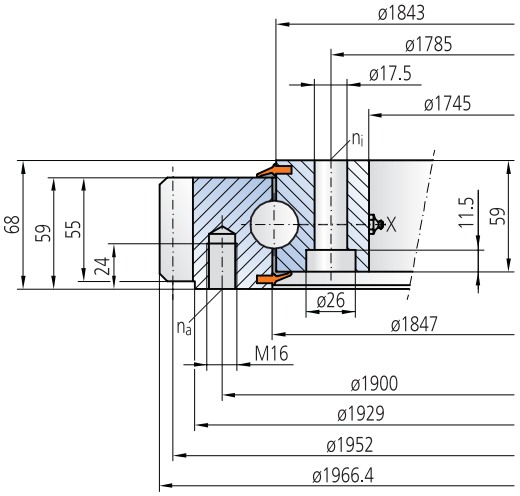


11-32 1600/1-02300

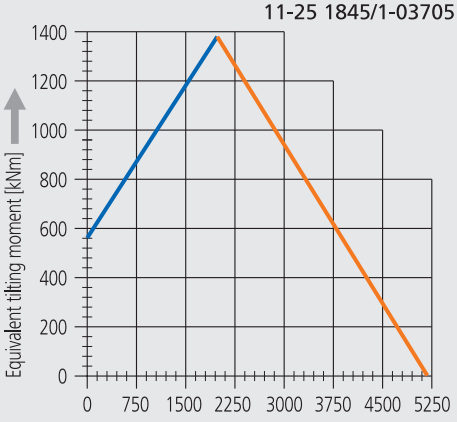


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



11-25 1845/1-03705



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - internal toothed

Size 12-16 0288/1-00306

Weight	Mounting holes		Gearing and tooth forces					Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
12	20	20	4	56	-	4.1	11.2	126	337	108	126	C45N	-	2 x AM8x1	0 - 0.10	0 - 0.20

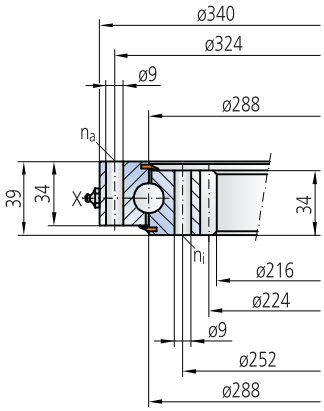
Size 12-16 0344/2-01873

Weight	Mounting holes		Gearing and tooth forces					Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
24	16	16	4	66	-	8	16.5	262	702	154	179	42CrMo4V C45N	-	2 x AM8x1	0 - leichte Vorspannung	0 - leichte Vorspannung

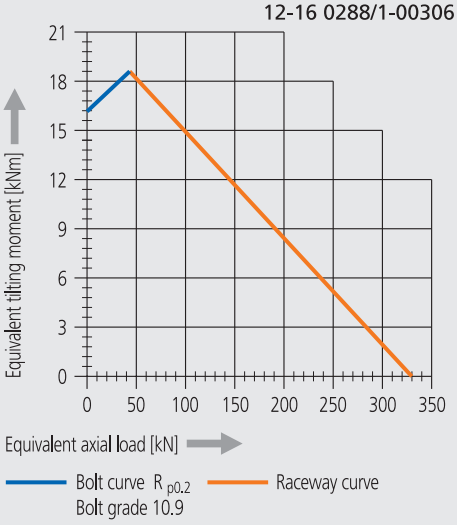
Size 12-16 0420/1-00728

Weight	Mounting holes		Gearing and tooth forces					Load ratings							Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch		Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
24	16	16	4	85	-	4.2	11.7	184	491	124	145	C45N	-	2 x AM8x1	0.04 - 0.16	0.07 - 0.26

Limiting load diagram for "compressive" loads

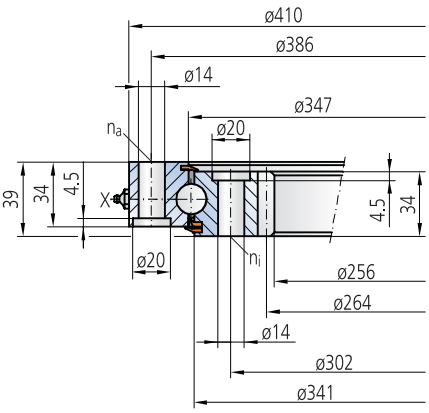


12-16 0288/1-00306

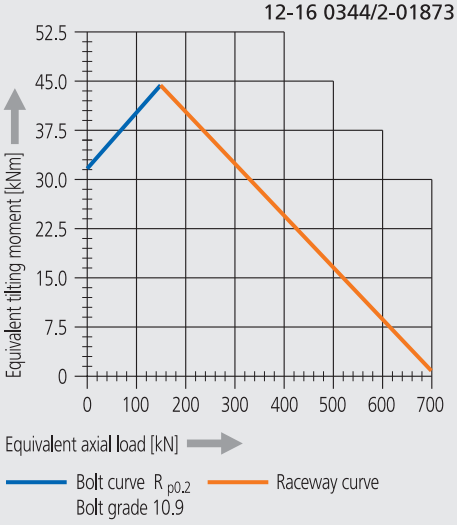


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

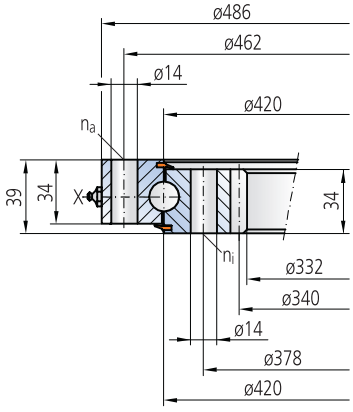


12-16 0344/2-01873

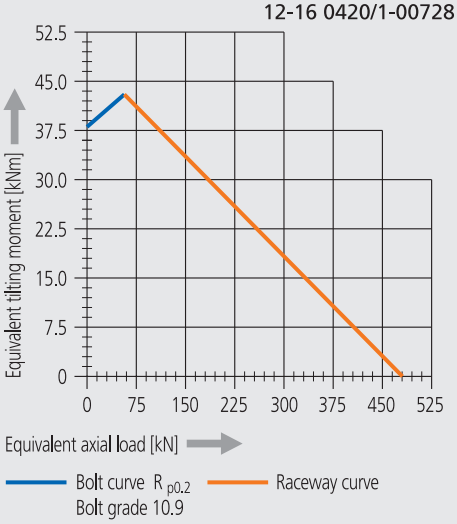


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



12-16 0420/1-00728



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - internal toothed

Size 12-22 0782/2-01218

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
103	24	24	8	82	-1.00	30.8	55	469	1255	248	289	42CrMo4V C45N	-	4 x AM10x1	0 - 0.10	0 - 0.25

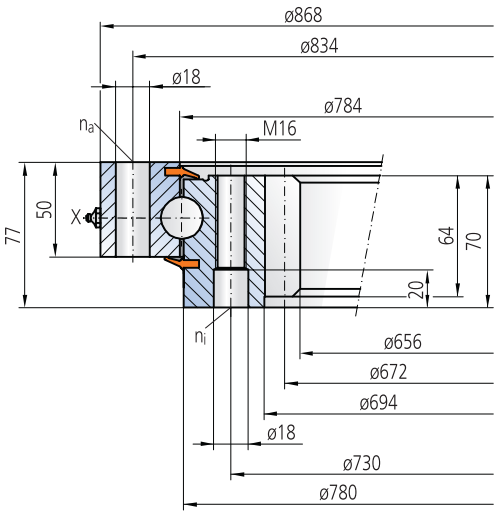
Size 12-22 0850/2-01501

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
100	24	24	6	124	-0.50	21	40	614	1642	256	298	42CrMo4V C45N	-	4 x AM10x1	0 - 0.10	0 - 0.25

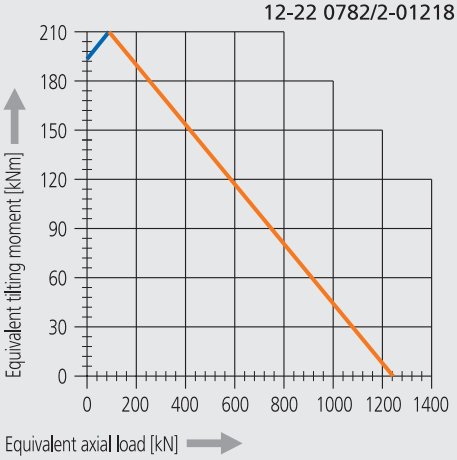
Size 12-25 0889/2-04951

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
126	36	36	8	100	-	41	74	660	176	312	363	42CrMo4V	4 x M10	4 x AM10x1	0.06 - 0.25	0.11 - 0.41

Limiting load diagram for "compressive" loads

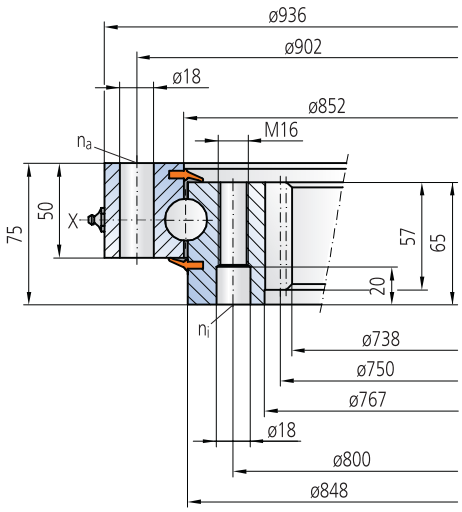


12-22 0782/2-01218

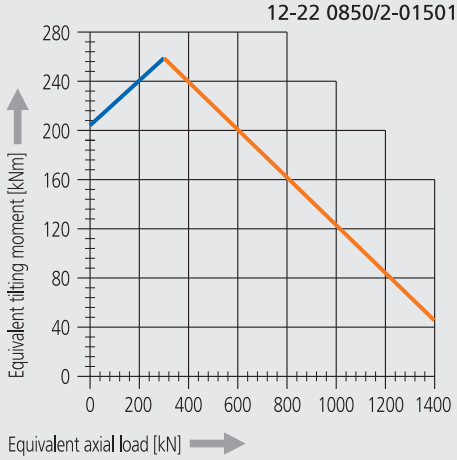


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

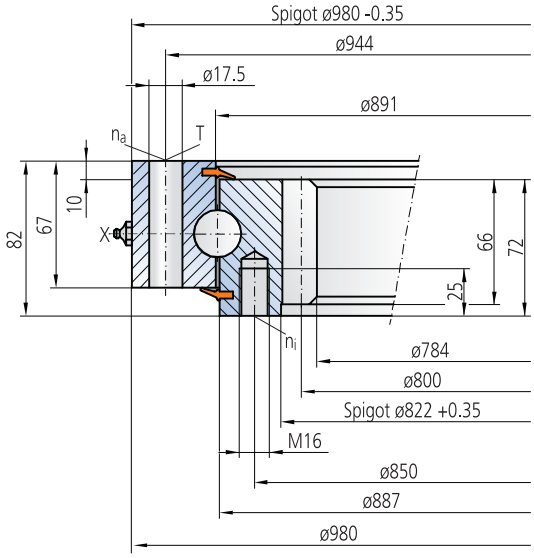


12-22 0850/2-01501

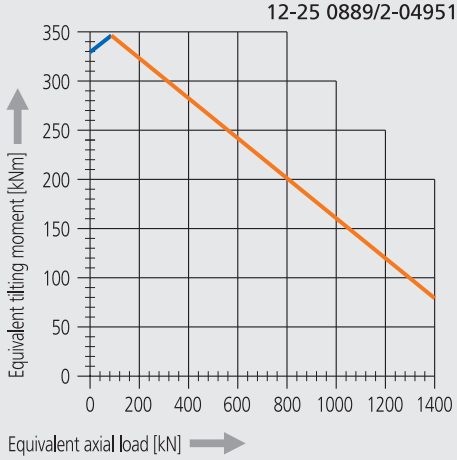


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



12-25 0889/2-04951



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - internal toothed

Size 12-32 1128/2-04945

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
280	40	40	12	77	-1.25	61	100	1055	2823	442	515	42CrMo4V	2 x M20	4 x AM10x1	0 - 0.30	0 - 0.60

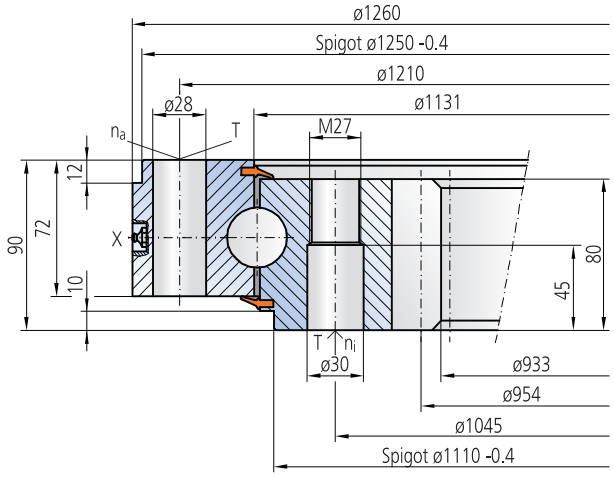
Size 12-22 1131/2-01601

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
127	40	40	7	146	-0.50	28.6	52	678	1815	284	331	42CrMo4V C45N	-	4 x AM10x1	0.05 - 0.22	0.10 - 0.40

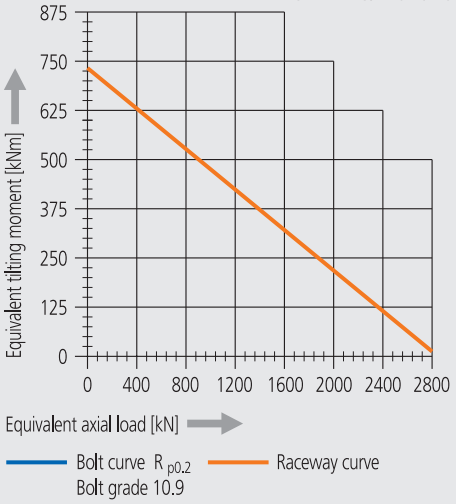
Size 12-32 1159/2-01512

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
269	42	42	10	100	-	64	112	1084	2901	447	521	42CrMo4V C45N	-	4 x AM10x1	0.08 - 0.32	0.13 - 0.52

Limiting load diagram for "compressive" loads

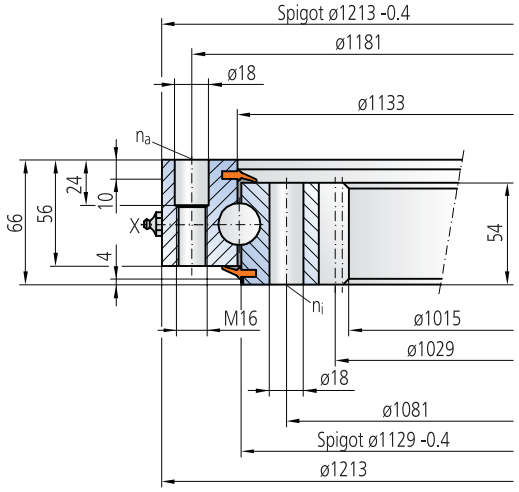


12-32 1128/2-04945

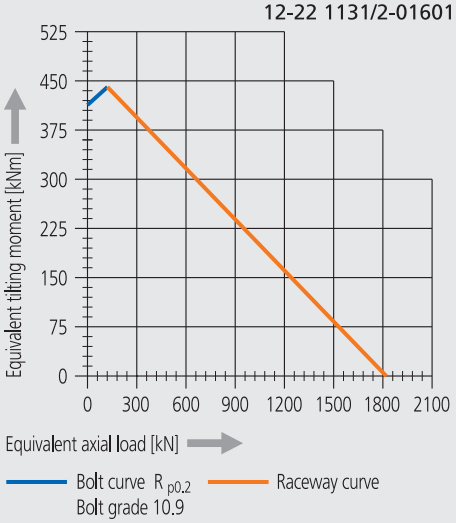


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

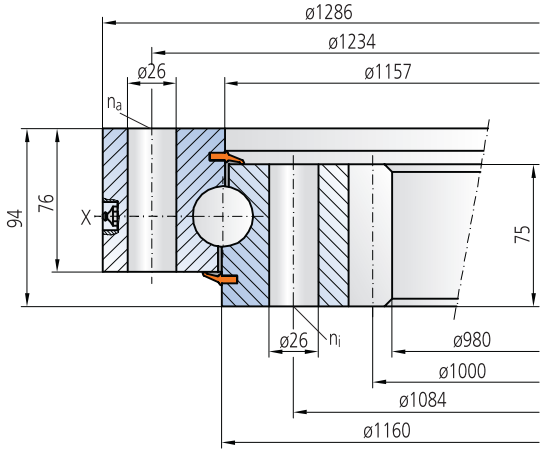


12-22 1131/2-01601

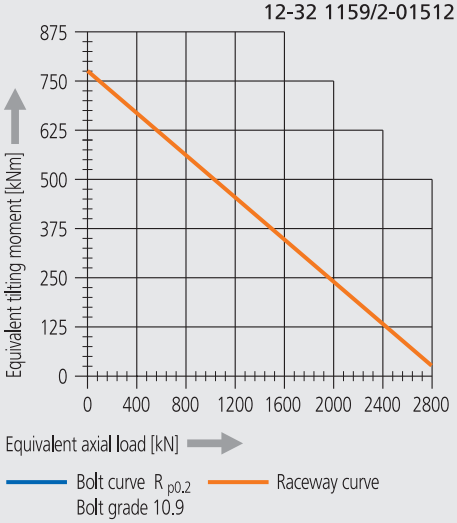


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



12-32 1159/2-01512



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Other **Standard Ball Slewing Rings** - internal toothed

Size 12-32 1384/2-04719

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
432	48	48	14	85	-0.50	109	183	1295	3464	477	556	42CrMo4V	3 x M16	6x AM10x1	0.08 - 0.32	0.13 - 0.52

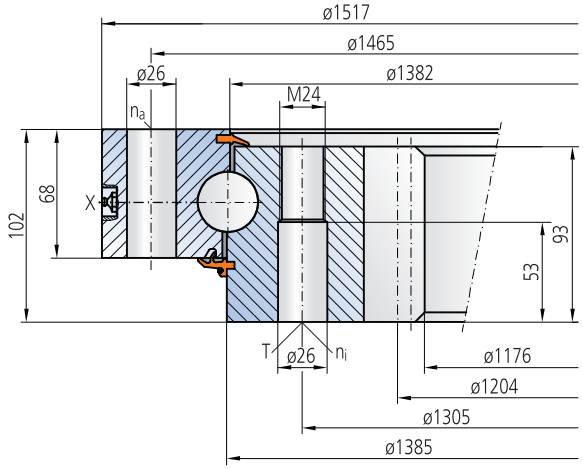
Size 12-32 1400/2-04953

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
289	60	60	12	103	-0.50	81	138	1865	4990	635	740	42CRmo4V	3 x M16	15 x AM10x1	0.06 - 0.25	0.11 - 0.41

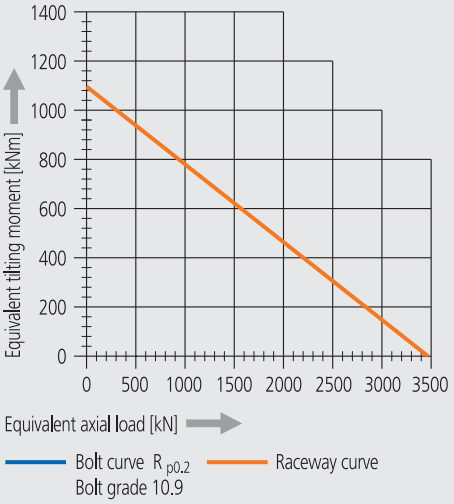
Size 12-32 1582/2-04505

Weight	Mounting holes		Gearing and tooth forces					Load ratings				Material, inner / outer ring	Transport holes	Taper type grease nipple DIN 71412	Clearance	
	Number of holes, outer ring	Number of holes, inner ring	Module	Number of teeth	Addentum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static		dynamisch					Radial clearance	Axial tilting clearance
G [kg]	n_a [-]	n_i [-]	**m** [mm]	**z2** [-]	**x2** [-]	$f_{z\,norm}$ [kN]	$f_{z\,max}$ [kN]	$C_{o\,rad}$ [kN]	$C_{o\,ax}$ [kN]	C_{rad} [kN]	C_{ax} [kN]		**T** [-]	**X**	S_{Rad} [mm]	S_{kipp} [mm]
469	60	60	16	86	-.050	122	204	2413	6456	667	778	42CRmo4V	3 x M16	5 x AM10x1	0.08 - 0.32	0.13 - 0.52

Limiting load diagram for "compressive" loads

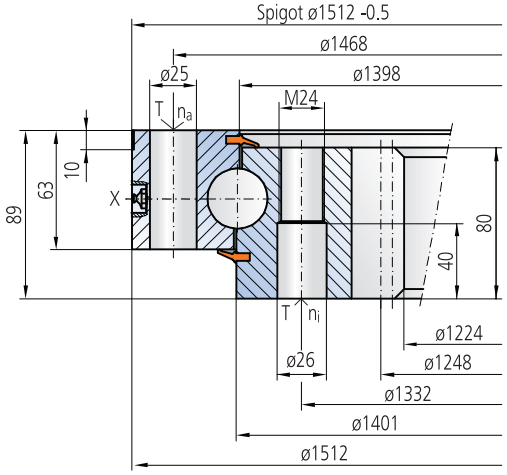


12-32 1384/2-04719

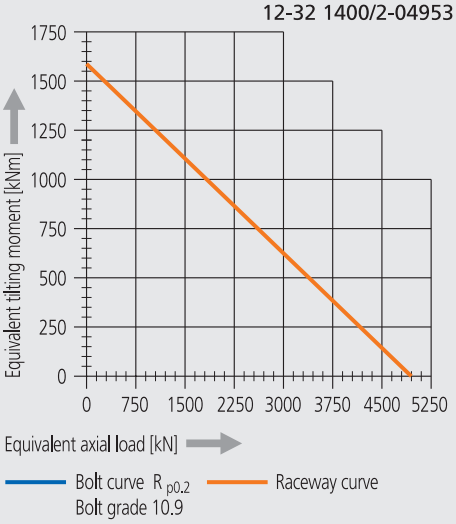


Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads

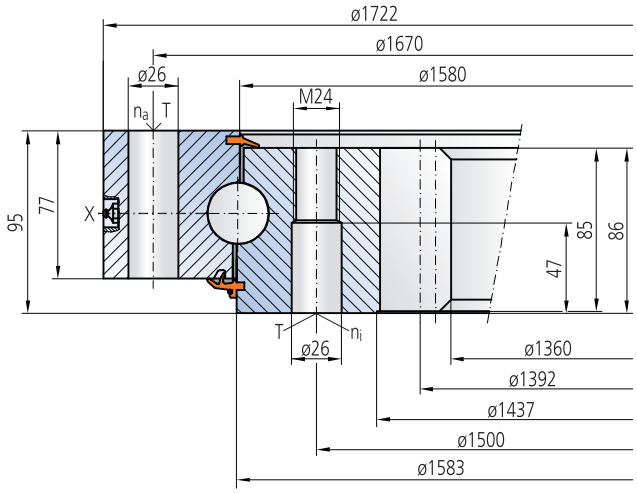


12-32 1400/2-04953



Please adhere strictly to the rules given in the Technical Information section when using above graph!

Limiting load diagram for "compressive" loads



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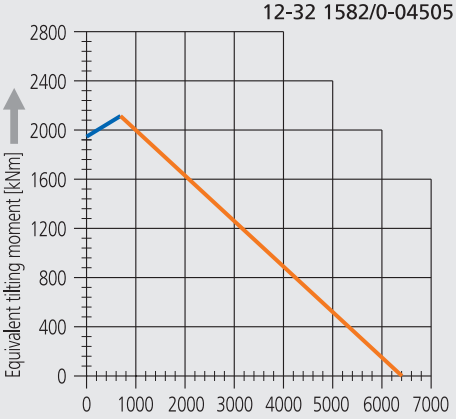

Please adhere strictly to the rules given in the Technical Information section when using above graph!