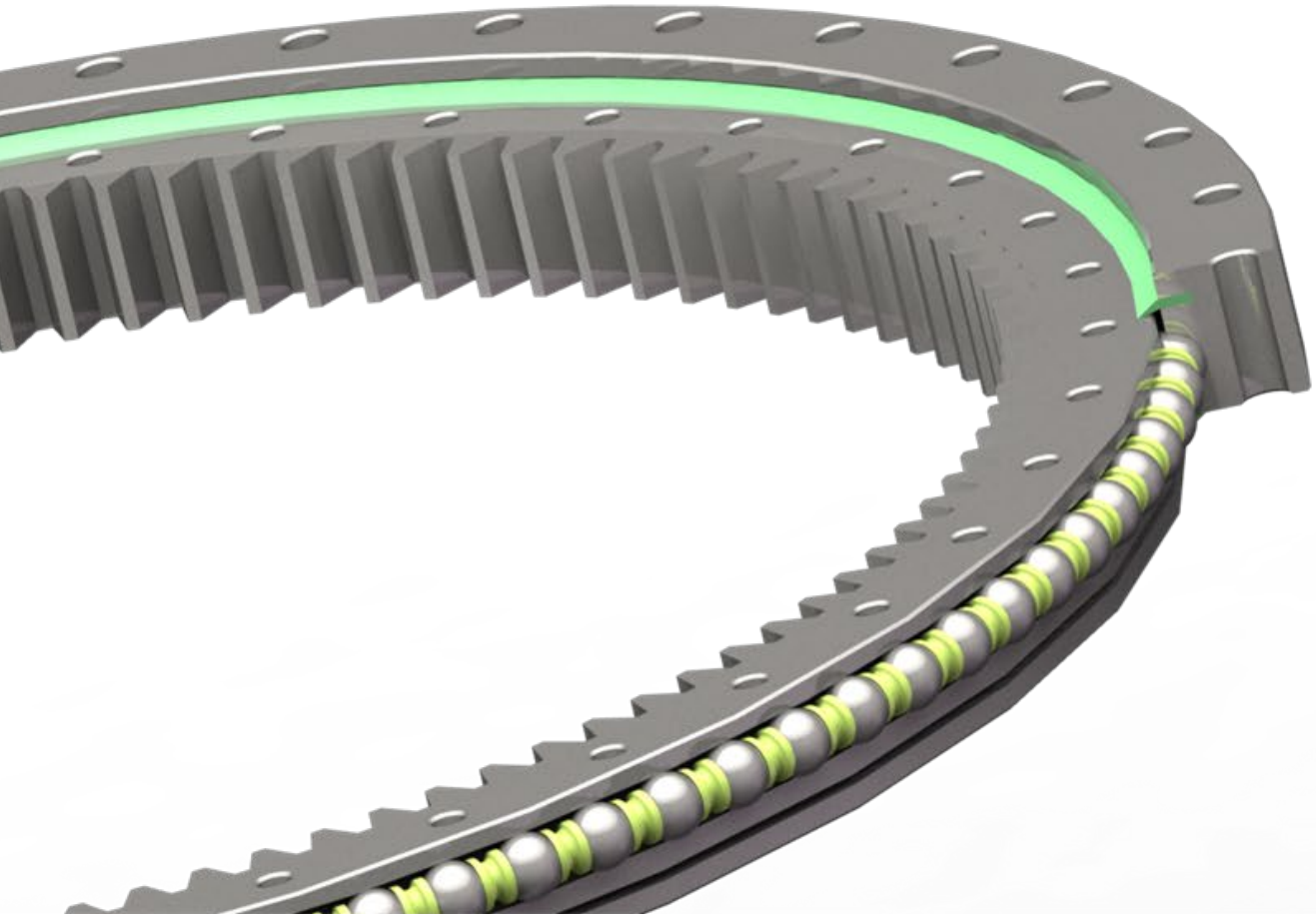
NATECH DRIVE

Slewing bearings



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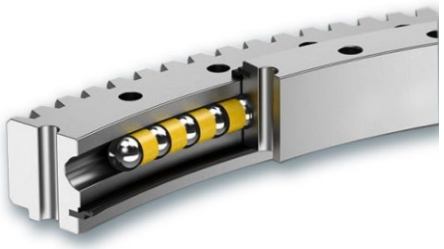
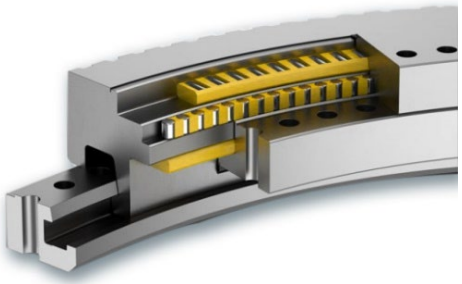
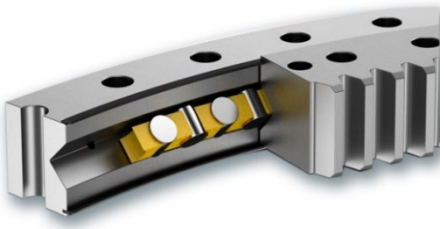
NATECH DRIVE

Product overview







Slewing bearing

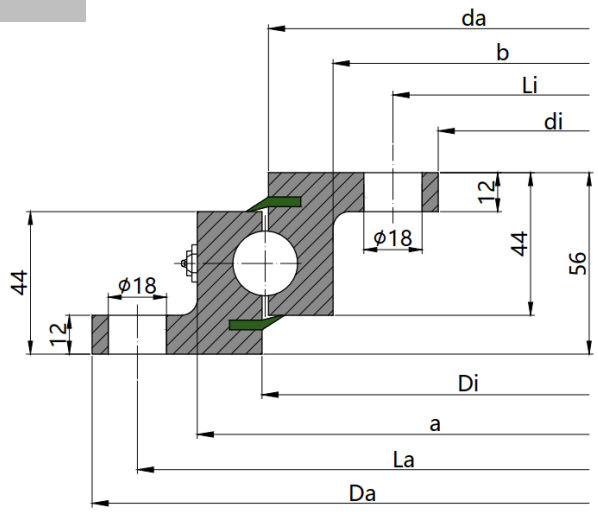
Introduction:

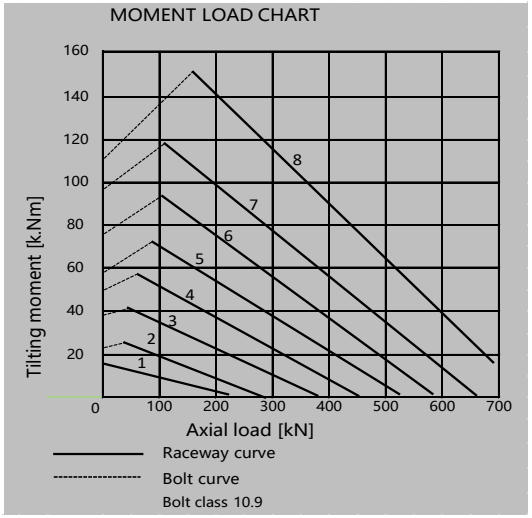
A slewing ring bearing is a mechanical part composed of two segments that rotate against each other. It consists of an outer ring (with or without teeth) and an inner ring (with or without teeth), while rolling elements (balls or rollers) are responsible for rotation. This design allows them to withstand axial loads, radial loads and tilting moments. Slewing bearings have a wide range of applications in various construction machinery, automation, industrial machinery, lifting machinery and other fields.

Code description:

PT	-	Flange	.	Bearing type	Transmission type	.	Series	Rotation center diameter	\	Special design
PT	-	**F** - with □ - without	.	**01** - four point contact ball **11**- cross rollers **13** - three row rollers	0 - no gear 1 - external gear 3 - inner gear	.	20 32 16	0311 0411 0541	\	Special design

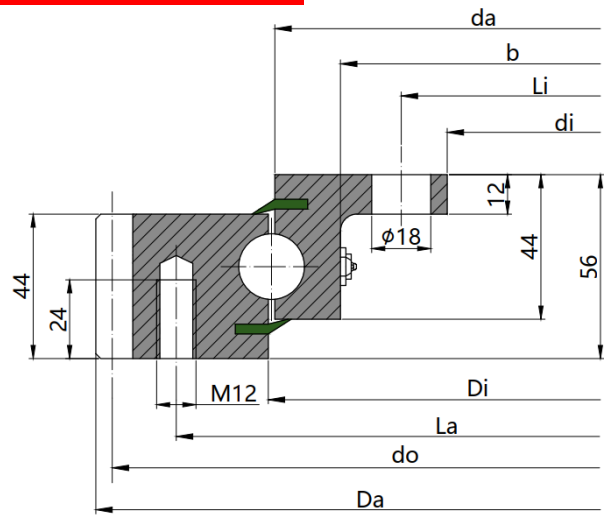
Series F…20 – Double flange
Four point contact ball

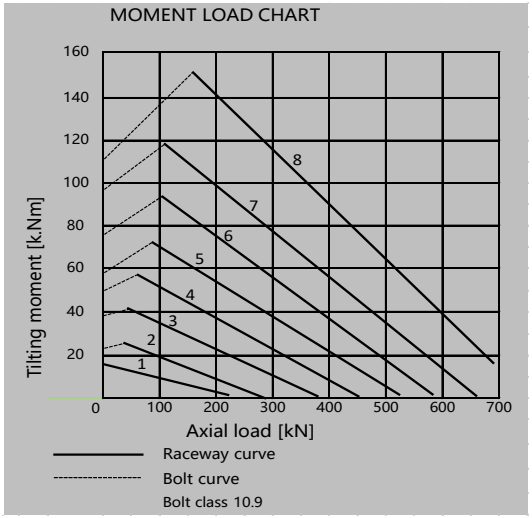




Model	No.	Dimensions and weight							Mounting holes				Load ratings			
													Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	a [mm]	b [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-F.010.20.0311	1	418	204	315,5	312,5	353	269	19	390	8	232	12	89	208	140	140
PT-F.010.20.0411	2	518	304	415,5	412,5	453	369	25	490	8	332	12	118	275	156	156
PT-F.010.20.0541	3	648	434	545,5	542,5	583	499	33	620	10	462	14	155	362	173	174
PT-F.010.20.0641	4	748	534	645,5	642,5	683	599	40	720	12	562	16	184	429	184	185
PT-F.010.20.0741	5	848	634	745,5	742,5	783	699	46	820	12	662	16	212	496	194	195
PT-F.010.20.0841	6	948	734	845,5	842,5	883	799	52	920	14	762	18	241	563	204	205
PT-F.010.20.0941	7	1048	834	945,5	942,5	983	899	58	1020	16	862	20	269	630	213	214
PT-F.010.20.1091	8	1198	984	1095,5	1092,5	1133	1049	68	1170	16	1012	20	312	730	224	225

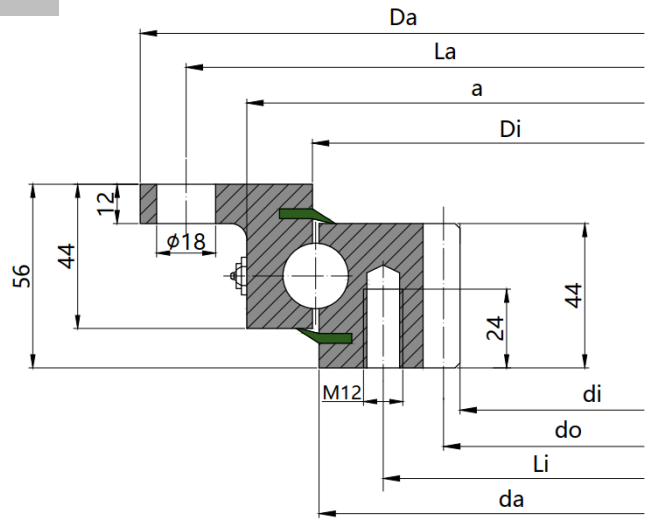
Series F…20 – External gear and inner flange
Four point contact ball

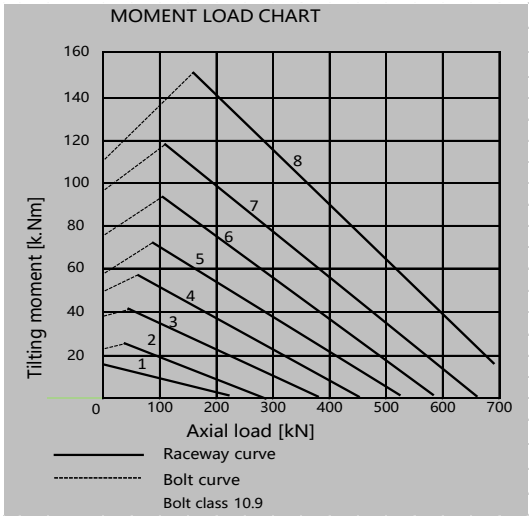




Model	No.	Dimensions and weight						Mounting holes				Gearing and tooth forces					Load ratings			
												Pitch circle diameter	Module	No. of teeth	Rated tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	b [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-F.011.20.0311	1	404,0	204	315,5	312,5	269	23	355	10	232	12	395	5	79	11,75	23,5	89	208	140	140
PT-F.011.20.0411	2	504,0	304	415,5	412,5	369	30	455	10	332	12	495	5	99	11,75	23,5	118	275	156	156
PT-F.011.20.0541	3	640,8	434	545,5	542,5	499	42	585	14	462	14	630	6	105	17,5	32,7	155	362	173	174
PT-F.011.20.0641	4	742,8	534	645,5	642,5	599	53	685	16	562	16	732	6	122	17,5	32,7	184	429	184	185
PT-F.011.20.0741	5	838,8	634	745,5	742,5	699	56	785	18	662	16	828	6	138	17,5	32,7	212	496	194	195
PT-F.011.20.0841	6	950,4	734	845,5	842,5	799	68	885	18	762	18	936	8	117	27,9	50,3	241	563	204	205
PT-F.011.20.0941	7	1046,4	834	945,5	942,5	899	75	985	20	862	20	1032	8	129	27,9	50,3	269	630	213	214
PT-F.011.20.1091	8	1198,4	984	1096	1093	1049	87	1135	22	1012	20	1184	8	148	27,9	50,3	312	730	224	225

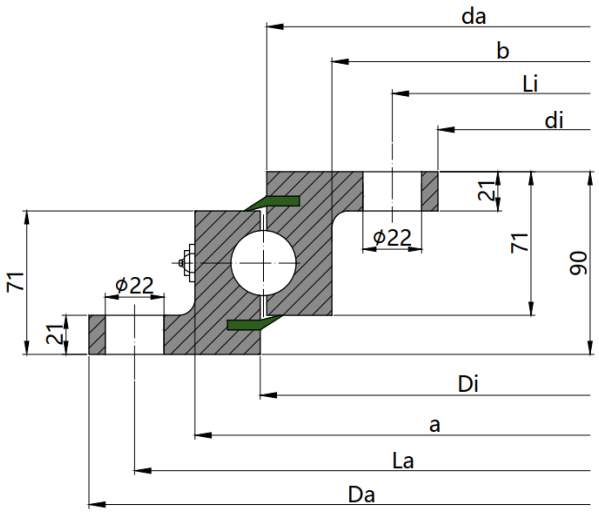
Series F…20 – Inner gear and external flange
Four point contact ball

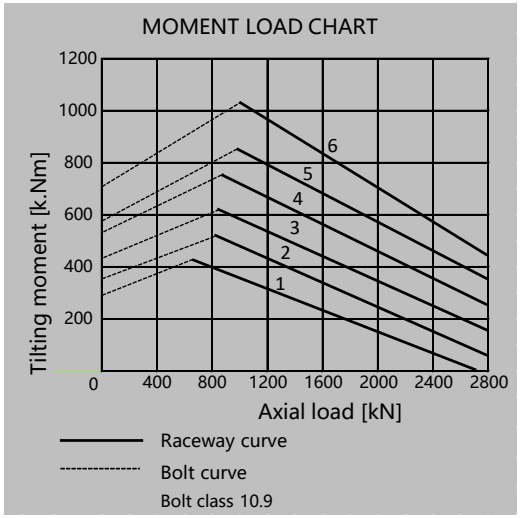




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-F.013.20.0311	1	386	225	315,5	312,5	22	360	20	275	24	235	5	47	11,9	22,7	192	448	140	140
PT-F.013.20.0411	2	486	325	415,5	412,5	31	460	24	375	24	335	5	67	11,9	22,7	254	592	156	156
PT-F.013.20.0541	3	616	444	545,5	542,5	43	590	32	505	32	456	6	76	17,5	32,9	334	780	173	174
PT-F.013.20.0641	4	716	546	645,5	642,5	50	690	36	605	36	558	6	93	17,5	32,9	395	924	184	185
PT-F.013.20.0741	5	816	648	745,5	742,5	57	790	40	705	40	660	6	110	17,5	32,9	457	1068	194	195
PT-F.013.20.0841	6	916	736	845,5	842,5	69	890	40	805	40	752	8	94	28	50,5	519	1212	204	205
PT-F.013.20.0941	7	1016	840	945,5	942,5	75	990	44	905	44	856	8	107	28	50,5	580	1356	213	214
PT-F.013.20.1091	8	1166	984	1096	1093	91	1140	48	1055	48	1000	8	125	28	50,5	673	1572	224	225

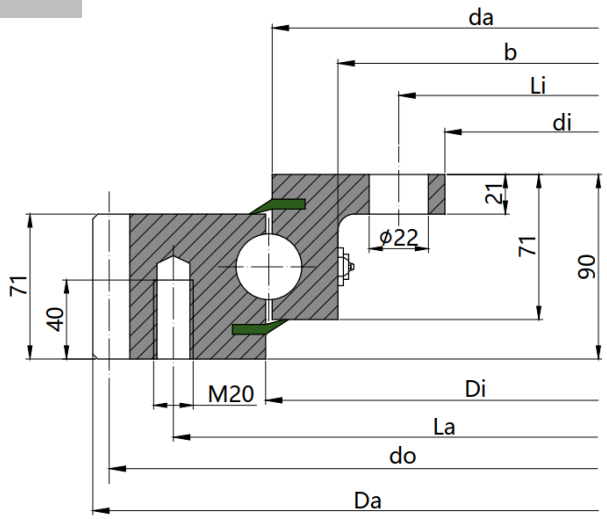
Series F…32 – Double flange
Four point contact ball

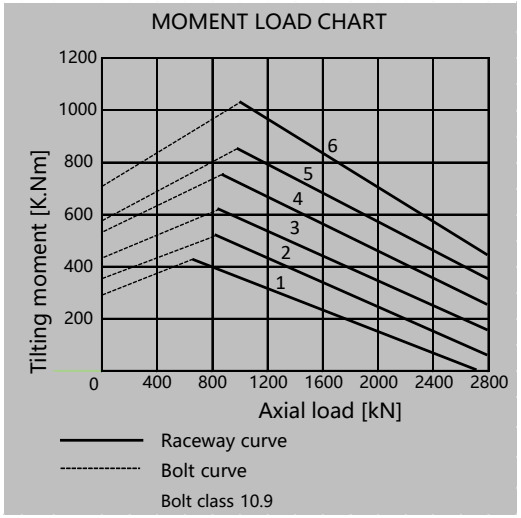




Model	No.	Dimensions and weight							Mounting holes				Load ratings			
													Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	a [mm]	b [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-F.010.32.0955	1	1100	805	955	955	1017	893	131	1060	30	845	30	1029	2754	411	479
PT-F.010.32.1055	2	1200	905	1055	1055	1117	993	145	1160	30	945	30	1137	3043	427	497
PT-F.010.32.1155	3	1300	1005	1155	1155	1217	1093	159	1260	36	1045	36	1245	3331	442	514
PT-F.010.32.1255	4	1400	1105	1255	1255	1317	1193	172	1360	42	1145	42	1353	3619	456	531
PT-F.010.32.1355	5	1500	1205	1355	1355	1417	1293	186	1460	42	1245	42	1460	3908	469	546
PT-F.010.32.1455	6	1600	1305	1455	1455	1517	1393	200	1560	48	1345	48	1568	4196	482	561

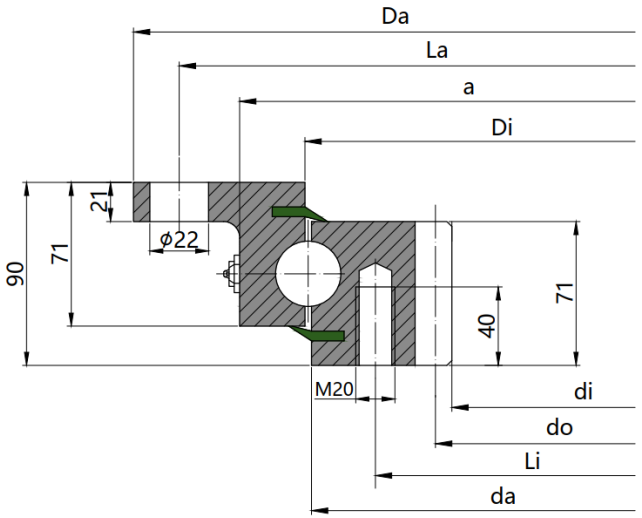
Series F…32-External gear and inner flange
Four point contact ball

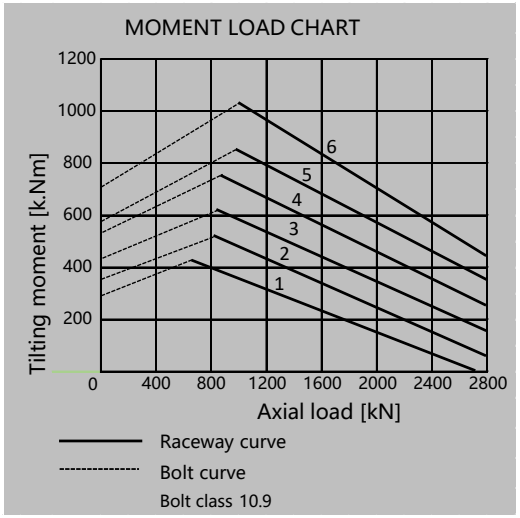




Model	No.	Dimensions and weight						Mounting holes				Gearing and tooth forces					Load ratings			
												Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	b [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-F.011.32.0955	1	1096	805	955	955	893	165	1016	30	845	30	1080	9	120	36	65	1029	2754	411	479
PT-F.011.32.1055	2	1198	905	1055	1055	993	183	1116	30	945	30	1180	10	118	43	76	1137	3043	427	497
PT-F.011.32.1155	3	1298	1005	1155	1155	1093	200	1216	36	1045	36	1280	10	128	43	76	1245	3331	442	514
PT-F.011.32.1255	4	1398	1105	1255	1255	1193	216	1316	42	1145	42	1380	10	138	43	76	1353	3619	456	531
PT-F.011.32.1355	5	1498	1205	1355	1355	1293	234	1416	42	1245	42	1480	10	148	43	76	1460	3908	469	546
PT-F.011.32.1455	6	1598	1305	1455	1455	1393	250	1516	48	1345	48	1580	10	158	43	76	1568	4196	482	561

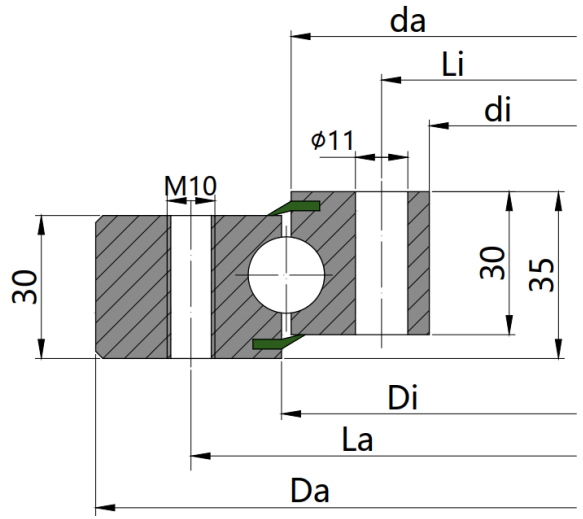
Series F…32-Inner gear and external flange
Four point contact ball

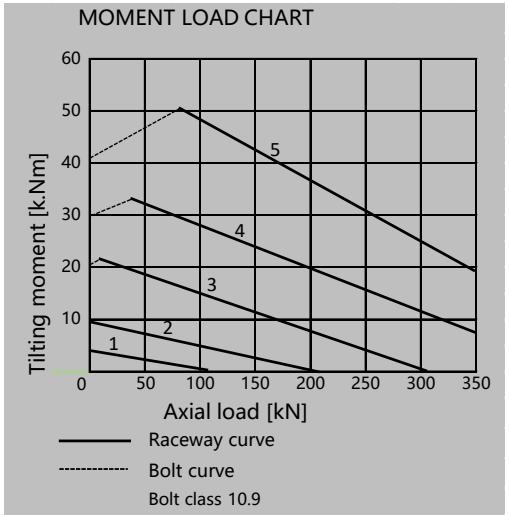




Model	No.	Dimensions and weight						Mounting holes				Gearing and tooth forces					Load ratings			
												Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	b [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-F.013.32.0955	1	1100	812	955	955	1017	159	1060	30	894	30	830	10	83	47	86	1029	2754	411	479
PT-F.013.32.1055	2	1200	912	1055	1055	1117	176	1160	30	994	30	930	10	93	47	86	1137	3043	427	497
PT-F.013.32.1155	3	1300	1012	1155	1155	1217	192	1260	36	1094	36	1030	10	103	47	86	1245	3331	442	514
PT-F.013.32.1255	4	1400	1112	1255	1255	1317	208	1360	42	1194	42	1130	10	113	47	86	1353	3619	456	531
PT-F.013.32.1355	5	1500	1212	1355	1355	1417	226	1460	42	1294	42	1230	10	123	47	86	1460	3908	469	546
PT-F.013.32.1455	6	1600	1312	1455	1455	1517	243	1560	48	1394	48	1330	10	133	47	86	1568	4196	482	561

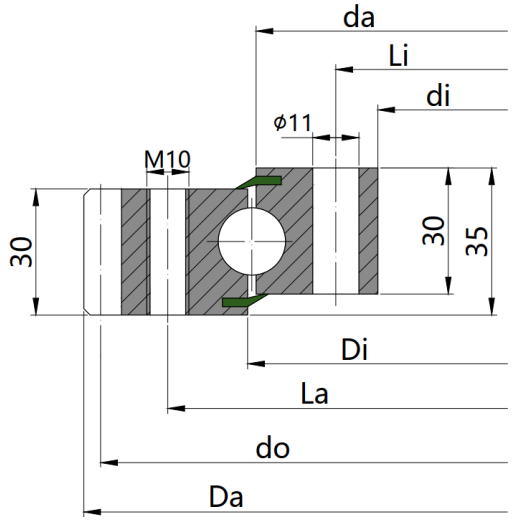
Series 16 – No gear
Four point contact ball

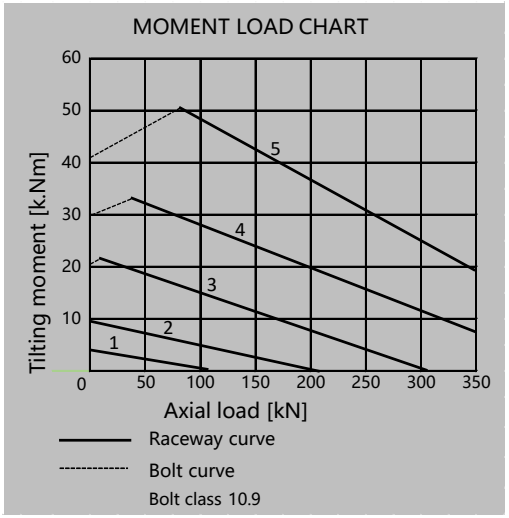




Model	No.	Dimensions and weight					Mounting holes				Load ratings			
											Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-010.16.100	1	180	40	103	97	5	140	6	60	6	51	103	71	61
PT-010.16.200	2	280	140	203	197	10	240	12	160	12	101	207	99	85
PT-010.16.300	3	380	240	303	297	14	340	20	260	20	152	310	117	101
PT-010.16.400	4	480	340	403	397	19	440	24	360	24	203	414	130	112
PT-010.16.500	5	580	440	503	497	24	540	28	460	28	253	517	142	122

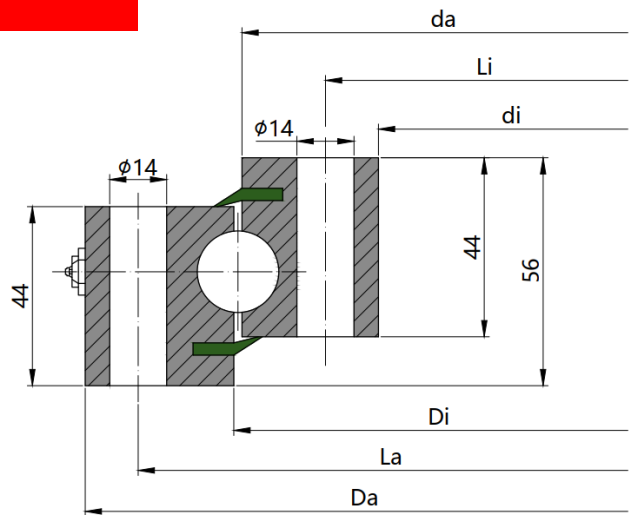
Series 16 – External gear
Four point contact ball

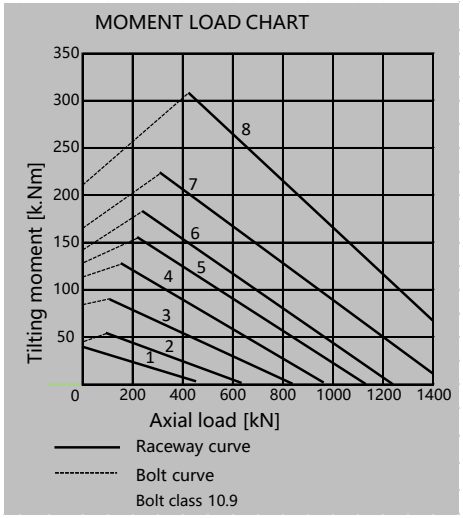




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-011.16.100	1	180	40	103	97	5	140	6	60	6	172	4	43	9,0	16,0	51	103	71	61
PT-011.16.200	2	280	140	203	197	9	240	12	160	12	272	4	68	9,2	17,0	101	207	99	85
PT-011.16.300	3	380	240	303	297	14	340	20	260	20	372	4	93	9,2	17,8	152	310	117	101
PT-011.16.400	4	480	340	403	397	18	440	24	360	24	472	4	118	9,4	18,0	203	414	130	112
PT-011.16.500	5	580	440	503	497	22	540	28	460	28	572	4	143	9,4	18,5	253	517	142	122

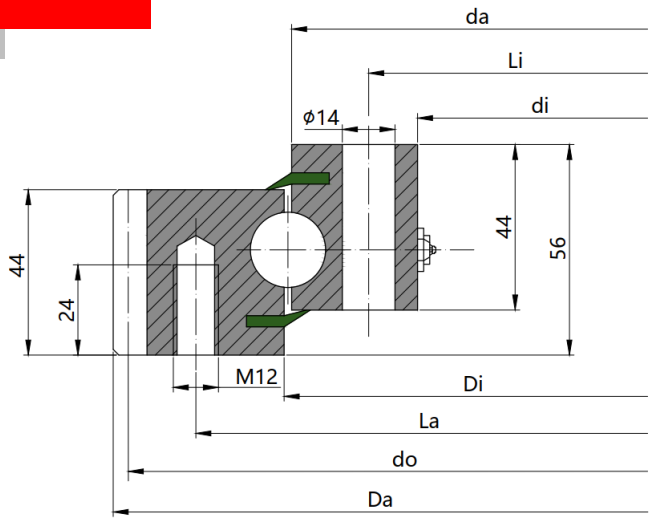
Series 20 – No gear
Four point contact ball

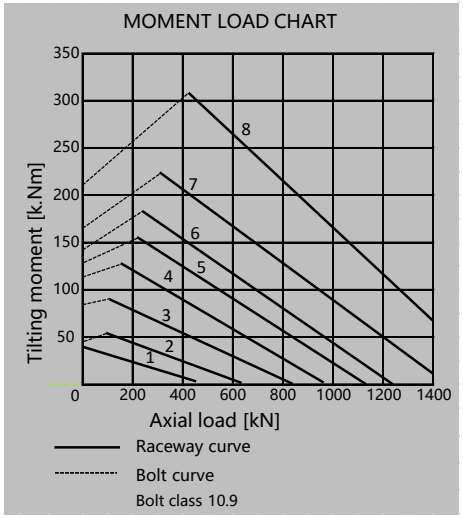




Model	No.	Dimensions and weight					Mounting holes				Load ratings			
											Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-010.20.0311	1	386	242	315,5	312,5	21	360	20	268	20	192	448	140	140
PT-010.20.0411	2	486	342	415,5	412,5	29	460	24	368	24	254	592	156	156
PT-010.20.0541	3	616	472	545,5	542,5	37	590	32	498	32	334	780	173	174
PT-010.20.0641	4	716	572	645,5	642,5	44	690	36	598	36	395	924	184	185
PT-010.20.0741	5	816	672	745,5	742,5	52	790	40	698	40	457	1068	194	195
PT-010.20.0841	6	916	772	845,5	842,5	59	890	40	798	40	519	1212	204	205
PT-010.20.0941	7	1016	872	945,5	942,5	66	990	44	898	44	580	1356	213	214
PT-010.20.1091	8	1166	1022	1095,5	1092,5	77	1140	48	1048	48	673	1572	224	225

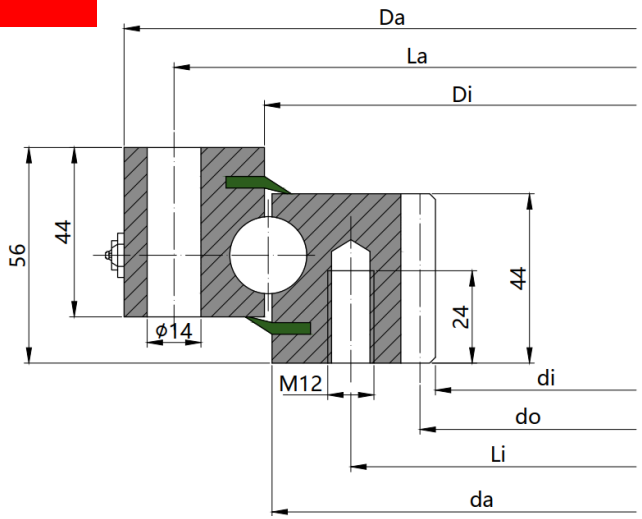
Series 20 – External gear
Four point contact ball

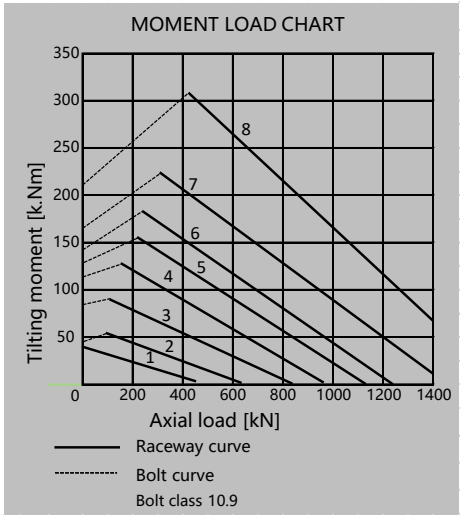




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-011.20.0311	1	404,0	242	315,5	312,5	23	355	20	268	20	395	5	79	11,75	23,5	192	448	140	140
PT-011.20.0411	2	504,0	342	415,5	412,5	32	455	20	368	24	495	5	99	11,75	23,5	254	592	156	156
PT-011.20.0541	3	640,8	472	545,5	542,5	43	585	28	498	32	630	6	105	17,5	32,7	334	780	173	174
PT-011.20.0641	4	742,8	572	645,5	642,5	52	685	32	598	36	732	6	122	17,5	32,7	395	924	184	185
PT-011.20.0741	5	838,8	672	745,5	742,5	58	785	36	698	40	828	6	138	17,5	32,7	457	1068	194	195
PT-011.20.0841	6	950,4	772	845,5	842,5	71	885	36	798	40	936	8	117	27,9	50,3	519	1212	204	205
PT-011.20.0941	7	1046,4	872	945,5	942,5	77	985	40	898	44	1032	8	129	27,9	50,3	580	1356	213	214
PT-011.20.1091	8	1198,4	1022	1096	1093	90	1135	44	1048	48	1184	8	148	27,9	50,3	673	1572	224	225

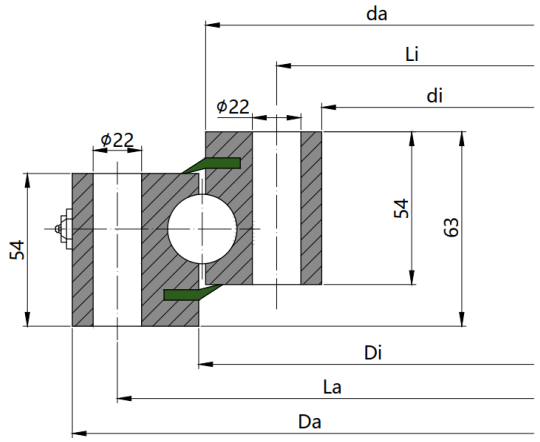
Series 20 – Internal gear
Four point contact ball

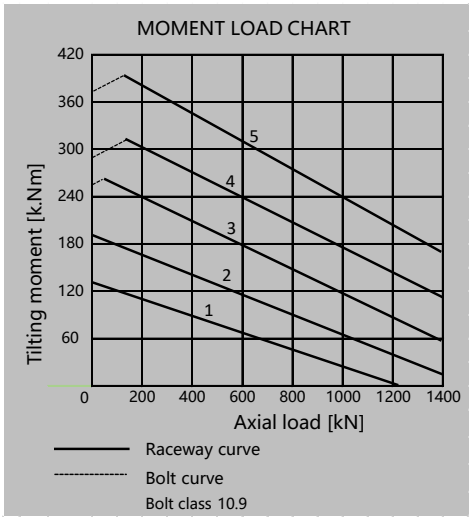


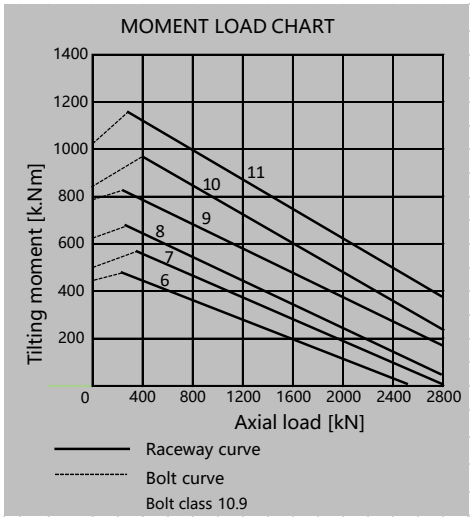


Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-013.20.0311	1	386	225	315,5	312,5	22	360	20	275	24	235	5	47	11,9	22,7	192	448	140	140
PT-013.20.0411	2	486	325	415,5	412,5	31	460	24	375	24	335	5	67	11,9	22,7	254	592	156	156
PT-013.20.0541	3	616	444	545,5	542,5	43	590	32	505	32	456	6	76	17,5	32,9	334	780	173	174
PT-013.20.0641	4	716	546	645,5	642,5	50	690	36	605	36	558	6	93	17,5	32,9	395	924	184	185
PT-013.20.0741	5	816	648	745,5	742,5	57	790	40	705	40	660	6	110	17,5	32,9	457	1068	194	195
PT-013.20.0841	6	916	736	845,5	842,5	69	890	40	805	40	752	8	94	28	50,5	519	1212	204	205
PT-013.20.0941	7	1016	840	945,5	942,5	75	990	44	905	44	856	8	107	28	50,5	580	1356	213	214
PT-013.20.1091	8	1166	984	1096	1093	91	1140	48	1055	48	1000	8	125	28	50,5	673	1572	224	225

Series 25 – No gear
Four point contact ball

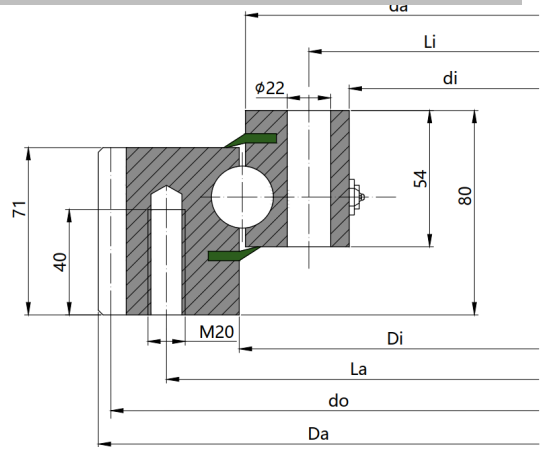


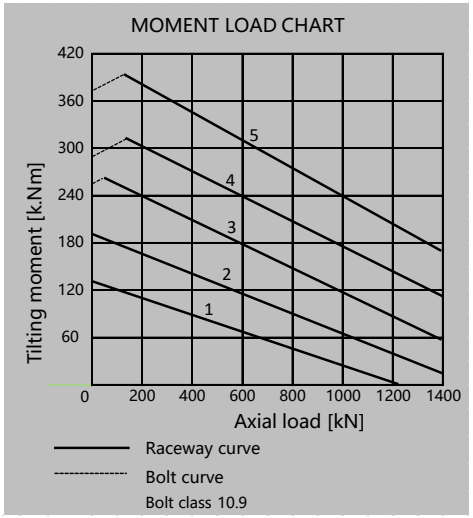


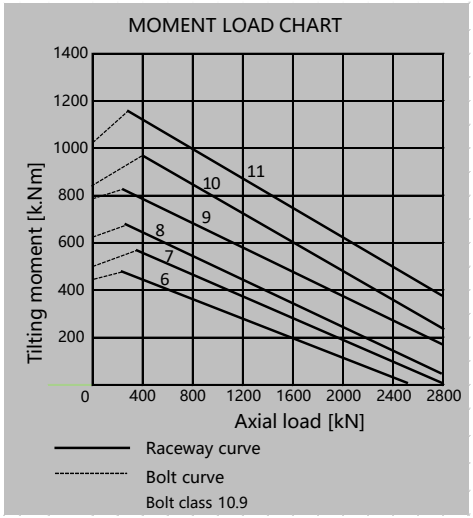


Model	No.	Dimensions and weight					Mounting holes				Load ratings			
											Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-010.25.0455	1	555	355	457	453	53	515	18	395	18	453	1213	249	289
PT-010.25.0555	2	655	455	557	553	65	615	20	495	20	553	1480	268	311
PT-010.25.0655	3	755	555	657	653	76	715	24	595	24	653	1746	284	331
PT-010.25.0755	4	855	655	757	753	90	815	24	695	24	752	2013	300	349
PT-010.25.0855	5	955	755	857	853	101	915	28	795	28	852	2280	316	367
PT-010.25.0955	6	1055	855	957	953	115	1015	30	895	30	952	2546	328	382
PT-010.25.1055	7	1155	955	1057	1053	128	1115	30	995	30	1051	2813	340	396
PT-010.25.1155	8	1255	1055	1157	1153	139	1215	36	1095	36	1151	3080	351	409
PT-010.25.1255	9	1355	1155	1257	1253	150	1315	42	1195	42	1240	3346	364	424
PT-010.25.1355	10	1455	1255	1357	1353	163	1415	42	1295	42	1350	3613	374	435
PT-010.25.1455	11	1555	1355	1457	1453	174	1515	48	1395	48	1450	3879	383	447

Series 25 – External gear
Four point contact ball

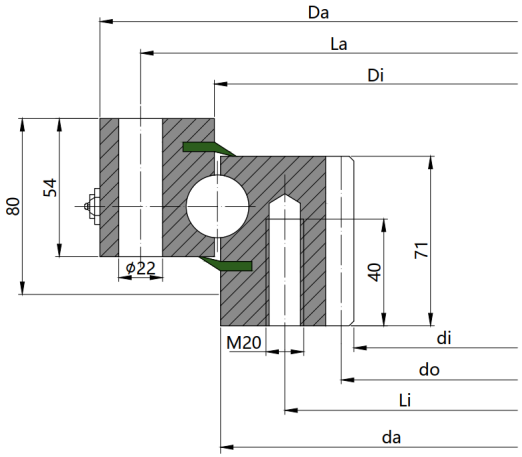


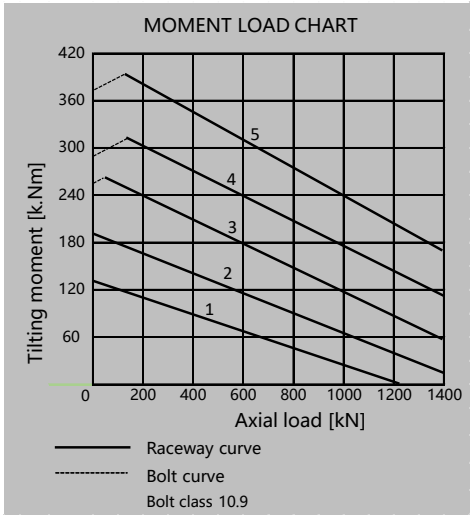


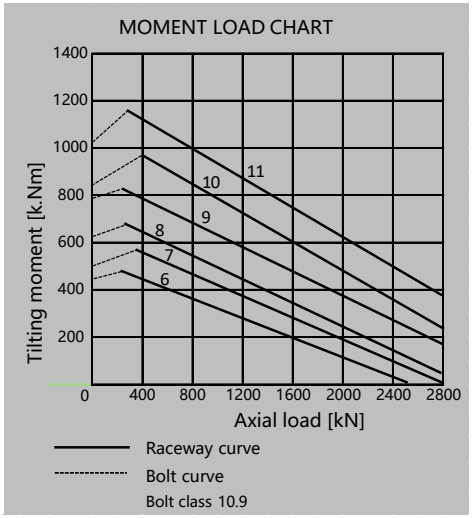


Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-011.25.0455	1	590,4	355	457	453	74	516	18	395	18	576	8	72	28	52	453	1213	249	289
PT-011.25.0555	2	694,4	455	557	553	93	616	20	495	20	680	8	85	28	52	553	1480	268	311
PT-011.25.0655	3	798,4	555	657	653	111	716	24	595	24	784	8	98	28	52	653	1746	284	331
PT-011.25.0755	4	898	655	757	753	125	816	24	695	24	882	9	98	36	65	752	2013	300	349
PT-011.25.0855	5	997	755	857	853	145	916	28	795	28	981	9	109	36	65	852	2280	316	367
PT-011.25.0955	6	1096	855	957	953	155	1016	30	895	30	1080	9	120	36	65	952	2546	328	382
PT-011.25.1055	7	1198	955	1057	1053	171	1116	30	995	30	1180	10	118	43	76	1051	2813	340	396
PT-011.25.1155	8	1298	1055	1157	1153	186	1216	36	1095	36	1280	10	128	43	76	1151	3080	351	409
PT-011.25.1255	9	1398	1155	1257	1253	201	1316	42	1195	42	1380	10	138	43	76	1240	3346	364	424
PT-011.25.1355	10	1498	1255	1357	1353	218	1416	42	1295	42	1480	10	148	43	76	1350	3613	374	435
PT-011.25.1455	11	1598	1355	1457	1453	233	1516	48	1395	48	1580	10	158	43	76	1450	3879	383	447

Series 25 – Internal gear
Four point contact ball

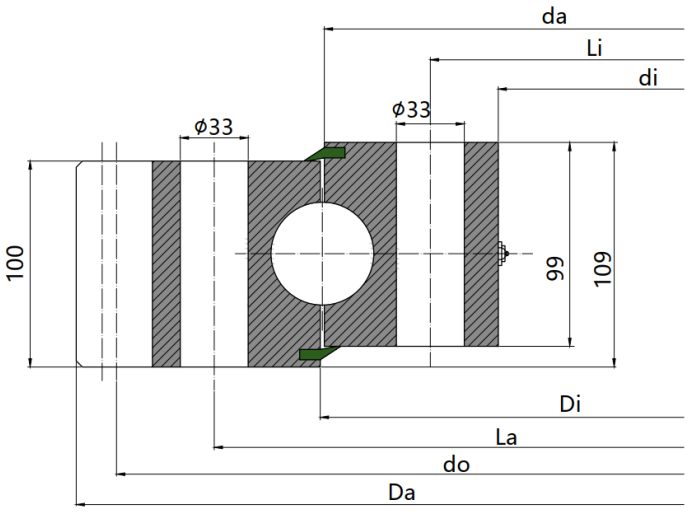


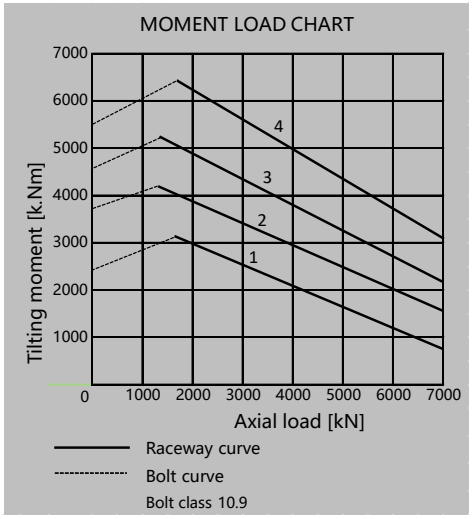




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-013.25.0455	1	555	304	457	453	64	515	18	394	18	320	8	40	32	64	453	1213	249	289
PT-013.25.0555	2	655	416	557	553	76	615	20	494	20	432	8	54	32	64	553	1480	268	311
PT-013.25.0655	3	755	512	657	653	102	715	24	594	24	528	8	66	32	64	653	1746	284	331
PT-013.25.0755	4	855	610	757	753	119	815	24	694	24	630	10	63	47	86	752	2013	300	349
PT-013.25.0855	5	955	710	857	853	137	915	28	794	28	730	10	73	47	86	852	2280	316	367
PT-013.25.0955	6	1055	810	957	953	149	1015	30	894	30	830	10	83	47	86	952	2546	328	382
PT-013.25.1055	7	1155	910	1057	1053	165	1115	30	994	30	930	10	93	47	86	1051	2813	340	396
PT-013.25.1155	8	1255	1010	1157	1153	180	1215	36	1094	36	1030	10	103	47	86	1151	3080	351	409
PT-013.25.1255	9	1355	1110	1257	1253	195	1315	42	1194	42	1130	10	113	47	86	1240	3346	364	424
PT-013.25.1355	10	1455	1210	1357	1353	212	1415	42	1294	42	1230	10	123	47	86	1350	3613	374	435
PT-013.25.1455	11	1555	1310	1457	1453	227	1515	48	1394	48	1330	10	133	47	86	1450	3879	383	447

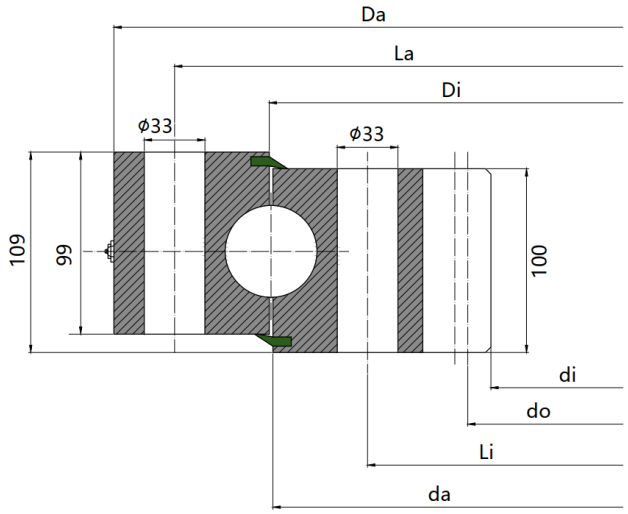
Series 50 – External gear
Four point contact ball

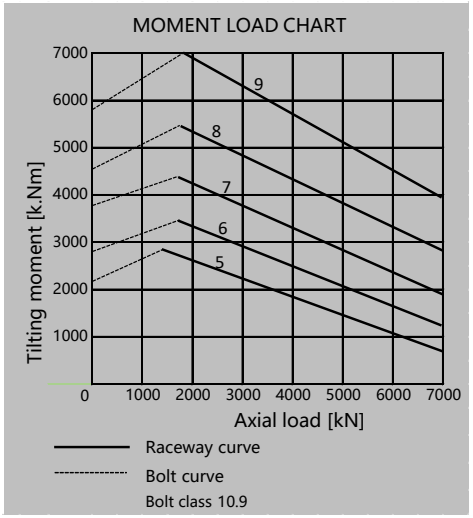




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings			
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	ni [-]	do [mm]	m [mm]	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-011.50.1900	1	2139	1729	1898	1902	820	2005	1795	36	2100	14	150	+0.50	132	229	3323	8891	1129	1315
PT-011.50.2130	2	2381	1959	2128	2132	931	2235	2025	48	2336	16	146	+0.50	155	273	3725	9968	1177	1371
PT-011.50.2355	3	2605	2184	2353	2357	1024	2460	2250	54	2560	16	160	+0.50	155	273	4118	11020	1223	1425
PT-011.50.2645	4	2893	2474	2643	2647	1142	2750	2540	60	2848	16	178	+0.50	155	273	4625	12378	1279	1490

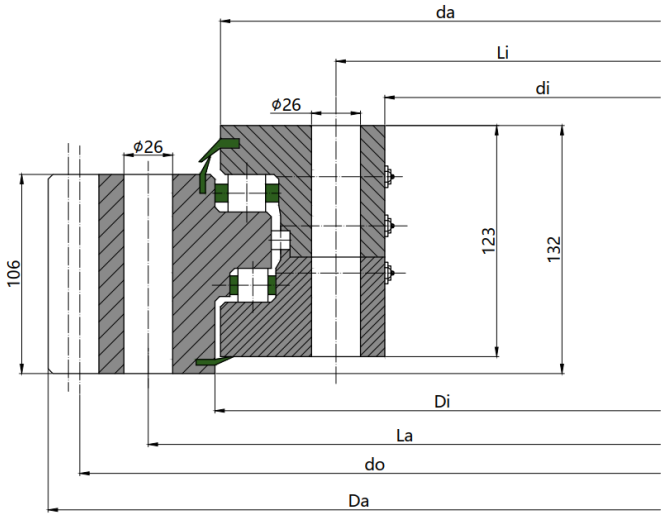
Series 50 – Internal gear
Four point contact ball

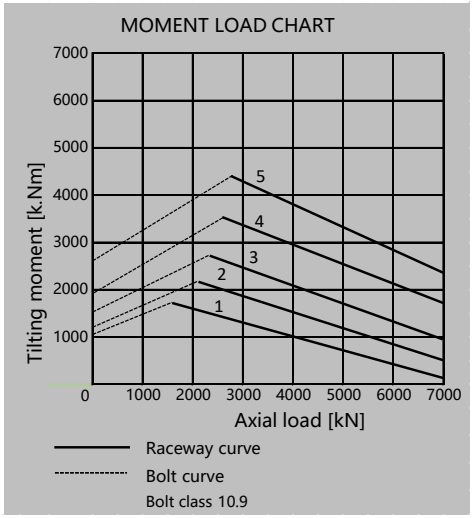




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings			
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	ni [-]	do [mm]	m [mm]	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-013.50.1800	5	1971	1554	1798	1802	762	1905	1695	36	1568	14	112	+0.50	141	254	3148	8423	1105	1286
PT-013.50.2000	6	2171	1764	1998	2002	843	2105	1895	40	1778	14	127	+0.50	141	254	3457	9359	1153	1343
PT-013.50.2240	7	2411	1984	2238	2242	961	2345	2135	48	2000	16	125	+0.50	166	290	3917	10482	1198	1395
PT-013.50.2490	8	1661	2240	2488	2492	1053	2595	2385	54	2256	16	141	+0.50	166	290	4354	11652	1250	1256
PT-013.50.2800	9	2971	2544	2798	2802	1205	2905	2695	60	2560	16	160	+0.50	166	290	4896	13103	1301	1516

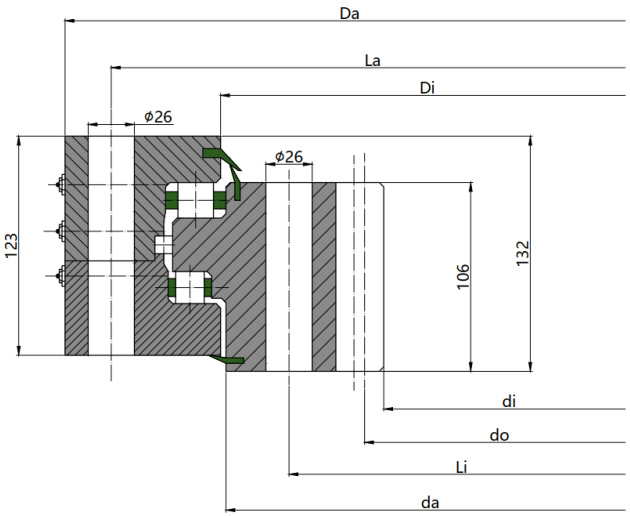
Series 20 – External gear
Three row cylindrical roller

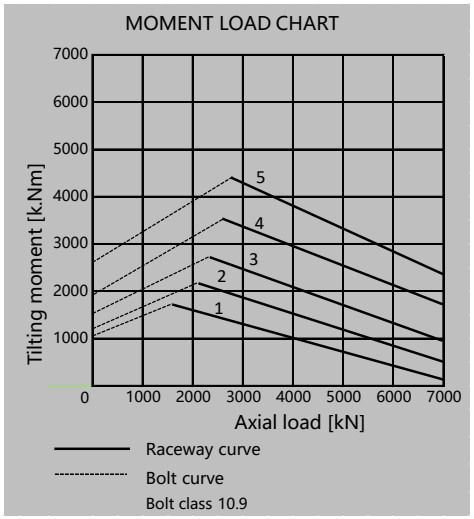




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-131.20.1250	1	1462	1103	1282	1280	542	1355	1155	36	1428	12	119	+0.50	107	187	587	7383	4423	410	1464	1080
PT-131.20.1400	2	1635	1253	1432	1430	646	1505	1305	36	1596	14	114	+0.50	136	236	660	8269	4956	436	1558	1143
PT-131.20.1600	3	1831	1453	1632	1630	731	1705	1505	40	1792	14	128	+0.50	136	236	757	9450	5666	469	1674	1229
PT-131.20.1800	4	2045	1653	1832	1830	844	1905	1705	46	2000	16	125	+0.50	163	285	854	10631	6376	500	1789	1307
PT-131.20.2000	5	2237	1853	2032	2030	912	2105	1905	54	2192	16	137	+0.50	163	285	951	11812	7086	529	1886	1384

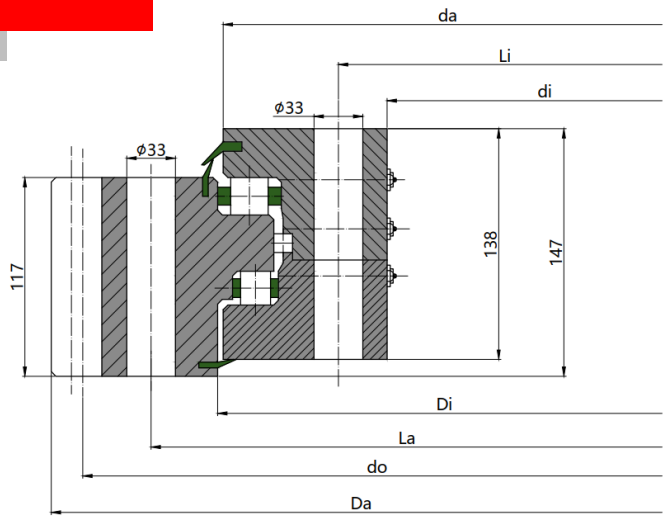
Series 20 – Internal gear
Three row cylindrical roller

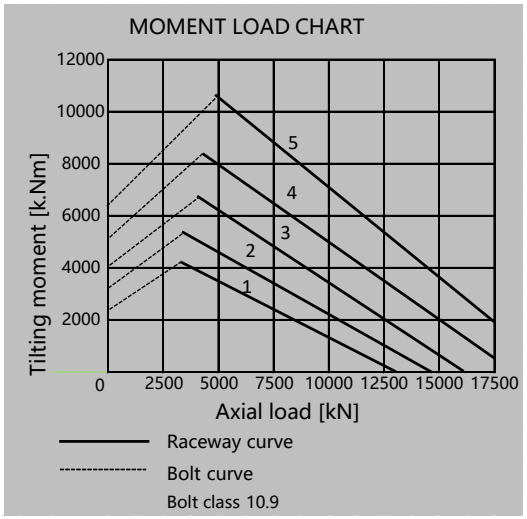




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-133.20.1250	1	1397	1032	1219	1218	539	1345	1145	36	1044	12	87	-0.50	117	214	625	7383	4452	424	1464	1978
PT-133.20.1400	2	1547	1162	1369	1368	630	1495	1295	36	1176	14	84	-0.50	146	269	698	8269	4984	449	1558	1146
PT-133.20.1600	3	1747	1372	1569	1568	705	1695	1495	40	1386	14	99	-0.50	146	269	795	9450	5694	481	1674	1232
PT-133.20.1800	4	1947	1552	1769	1768	829	1895	1695	46	1568	16	98	-0.50	175	319	892	10631	6404	511	1789	1309
PT-133.20.2000	5	2147	1760	1969	1968	902	2095	1895	54	1776	16	111	-0.50	175	319	989	11812	7114	540	1886	1382

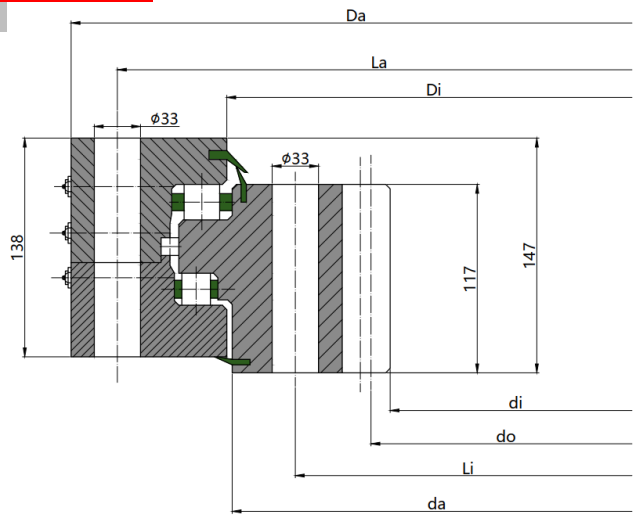
Series 25 – External gear
Three row cylindrical roller

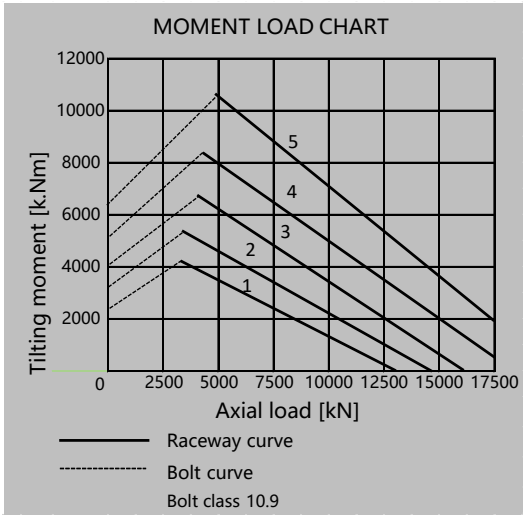




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-131.25.1800	1	2076,8	1619	1826	1836	1126	1925	1685	36	2032	16	127	+0.50	172	306	1348	13006	7609	728	2432	1784
PT-131.25.2000	2	2268,8	1819	2026	2036	1216	2125	1885	44	2224	16	139	+0.50	172	306	1502	14451	8457	772	2578	1881
PT-131.25.2240	3	2516,4	2059	2266	2276	1378	2366	2125	48	2466	18	137	+0.50	202	358	1687	16185	9475	821	2734	1999
PT-131.25.2500	4	2786,4	2319	2526	2536	1567	2625	2385	54	2736	18	152	+0.50	202	358	1887	18064	10577	870	2984	2123
PT-131.25.2800	5	3096,0	2619	2826	2836	1785	2925	2685	60	3040	20	152	+0.50	232	407	2118	20232	11850	926	3077	2252

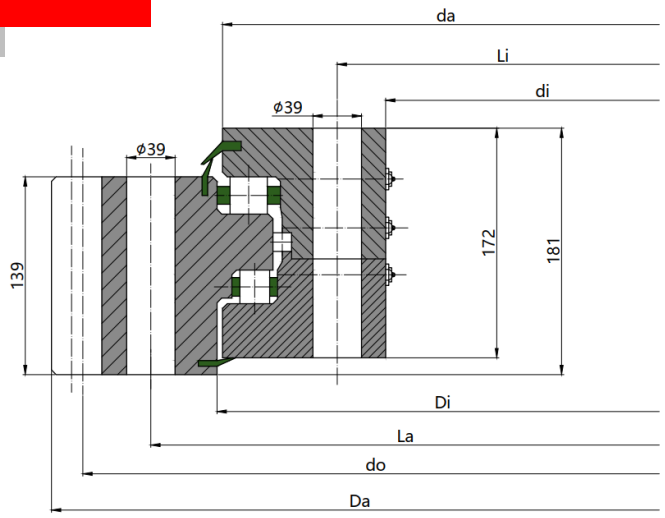
Series 25 – Internal gear
Three row cylindrical roller

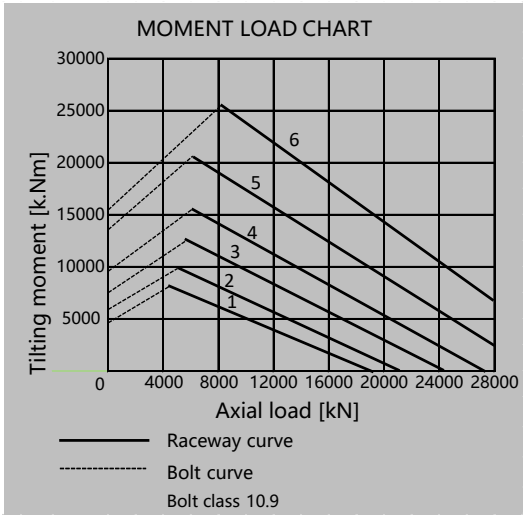




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-133.25.1800	1	1981	1520	1763	1774	1101	1915	1675	36	1536	16	96	-0.50	185	342	1424	13006	7660	751	2432	1787
PT-133.25.2000	2	2181	1728	1963	1974	1202	2115	1875	44	1744	16	109	-0.50	185	342	1577	14451	8508	793	2578	1890
PT-133.25.2240	3	2421	1944	2203	2214	1406	2355	2115	48	1962	18	109	-0.50	217	394	1763	16185	9526	832	2734	2008
PT-133.25.2500	4	2681	2214	2463	2474	1545	2615	2375	54	2232	18	124	-0.50	217	394	1963	18064	10628	889	2894	2126
PT-133.25.2800	5	2981	2500	2763	2774	1767	2915	2675	60	2520	20	126	-0.50	248	449	2194	20232	11901	943	3077	2255

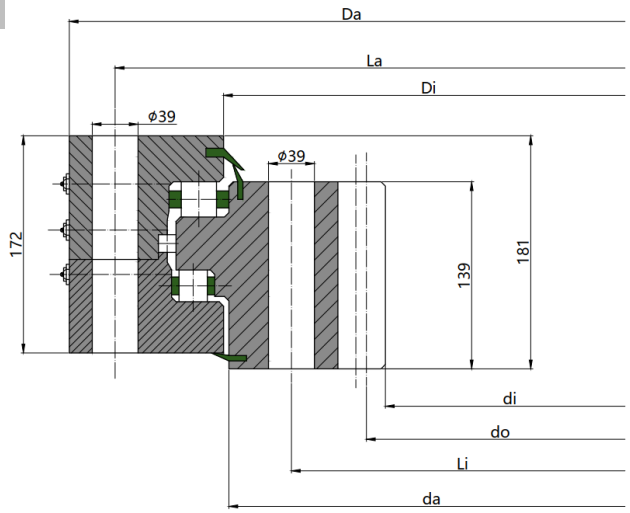
Series 32 – External gear
Three row cylindrical roller

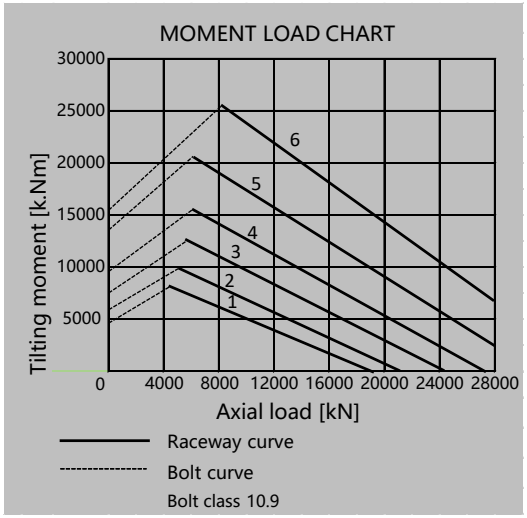




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-131.32.2240	1	2552	2022	2270	2281	1975	2395	2100	40	2502	18	139	+0.50	228	401	1862	19352	11565	1028	3833	2727
PT-131.32.2500	2	2822	2282	2530	2541	2260	2655	2360	44	2772	18	154	+0.50	228	401	2085	21598	12912	1091	4048	2870
PT-131.32.2800	3	3136.0	2582	2830	2841	2576	2955	2660	48	3080	20	154	+0.50	260	465	2341	24190	14468	1158	4312	3088
PT-131.32.3150	4	3476.0	2932	3180	3191	2828	3305	3010	56	3420	20	171	+0.50	260	465	2640	27214	16282	1235	4614	3265
PT-131.32.3550	5	3889.6	3332	3580	3591	3249	3705	3410	66	3828	22	174	+0.50	295	525	2982	30670	18355	1316	4948	3489
PT-131.32.4000	6	4351.6	3782	4030	4041	3752	4155	3860	72	4290	22	195	+0.50	295	525	3367	34558	20688	1405	5249	3712

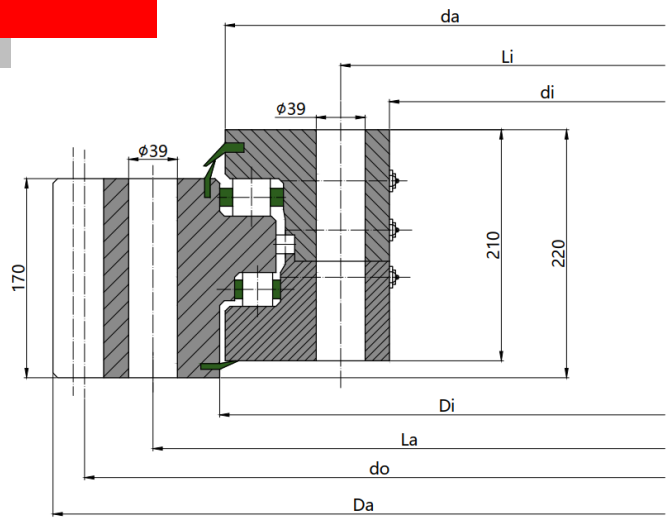
Series 32 – Internal gear
Three row cylindrical roller

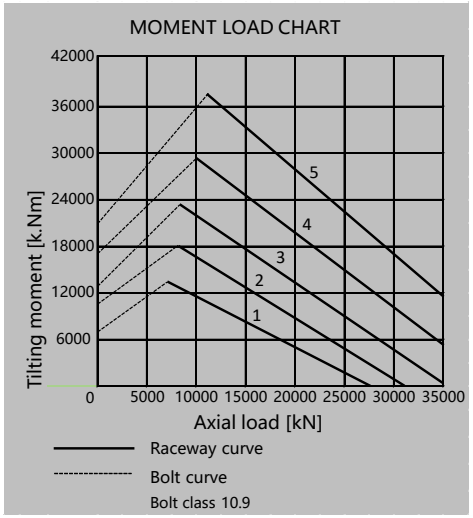




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-133.32.2240	1	2458	1908	2199	2210	2010	2380	2085	40	1926	18	107	-0.50	240	445	1966	19352	11658	1057	3833	2740
PT-133.32.2500	2	2718	2178	2459	2470	2210	2640	2345	44	2196	18	122	-0.50	240	445	2189	21598	13006	1119	4048	2909
PT-133.32.2800	3	3018	2460	2759	2770	2542	2940	2645	48	2480	20	124	-0.50	278	508	2445	24190	14561	1187	4312	3083
PT-133.32.3150	4	3368	2820	3109	3120	2807	3290	2995	56	2840	20	142	-0.50	278	508	2744	27214	16375	1260	4614	3276
PT-133.32.3550	5	3768	3190	3509	3520	3302	3690	3395	66	3212	22	146	-0.50	305	559	3089	30670	18449	1341	4948	3489
PT-133.32.4000	6	4218	3652	3959	3970	3664	4140	3845	72	3674	22	167	-0.50	305	559	3471	34558	20781	1427	5249	3742

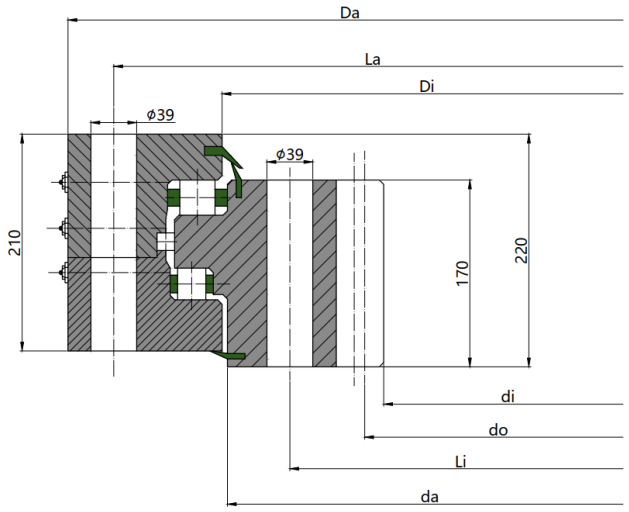
Series 40 – External gear
Three row cylindrical roller

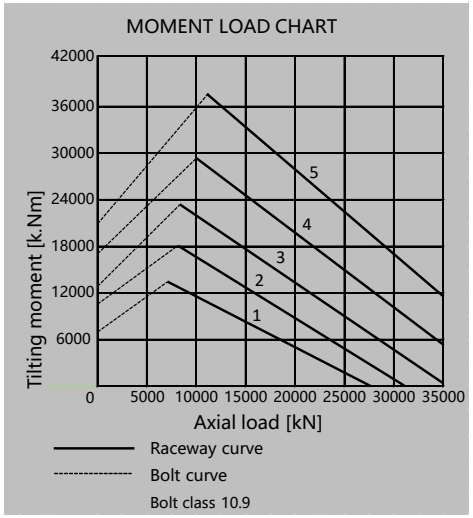




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-131.40.2800	1	3136	2562	2837	2850	3267	2965	2640	48	3080	20	154	+0.50	296	525	2334	27973	15174	1157	5915	4329
PT-131.40.3150	2	3515,6	2912	3187	3200	3812	3315	2990	56	3454	22	157	+0.50	338	605	2633	31469	17077	1233	6291	4603
PT-131.40.3550	3	3911,6	3312	3587	3600	4255	3715	3390	66	3850	22	175	+0.50	338	605	2975	35465	19251	1315	6692	4899
PT-131.40.4000	4	4363,2	3762	4037	4050	4805	4165	3840	72	4296	24	179	+0.50	380	685	3360	39961	21696	1402	7154	5227
PT-131.40.4500	5	4867,2	4262	4537	4550	5410	4665	4340	84	4800	24	200	+0.50	380	685	3787	44956	24414	1494	7649	5603

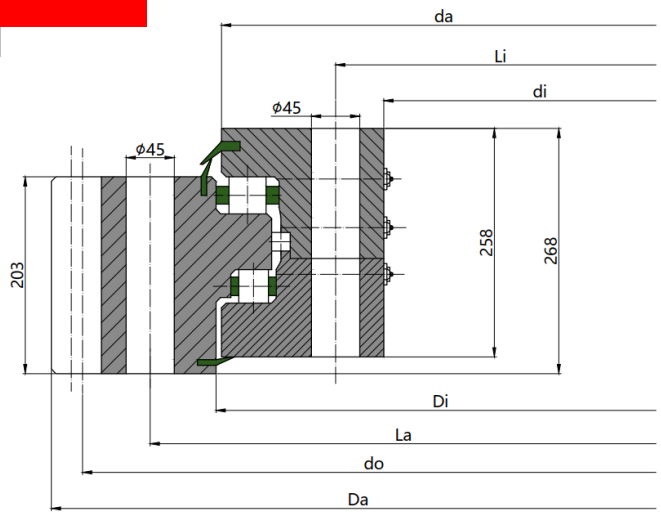
Series 40 – Internal gear
Three row cylindrical roller

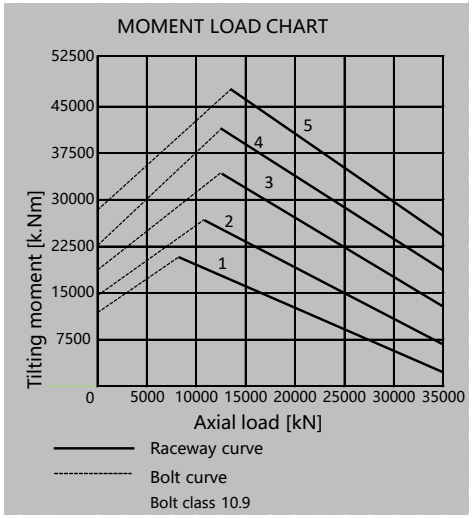




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-133.40.2800	1	3038	2460	2750	2763	3213	2960	2635	48	2480	20	124	-0.50	314	577	2452	27973	15438	1188	5915	4352
PT-133.40.3150	2	3388	2794	3100	3113	3683	3310	2985	56	2816	22	128	-0.50	357	658	2751	31469	17362	1262	6291	4625
PT-133.40.3550	3	3788	3190	3500	3513	4171	3710	3385	66	3212	22	146	-0.50	357	658	3093	35465	19561	1443	6692	4920
PT-133.40.4000	4	4238	3624	3950	3963	4810	4160	3835	72	3648	24	152	-0.50	398	740	3478	39961	21783	1428	7154	5234
PT-133.40.4500	5	4738	4128	4450	4463	5367	4660	4335	84	4152	24	173	-0.50	398	740	3905	44956	24501	1519	7649	5610

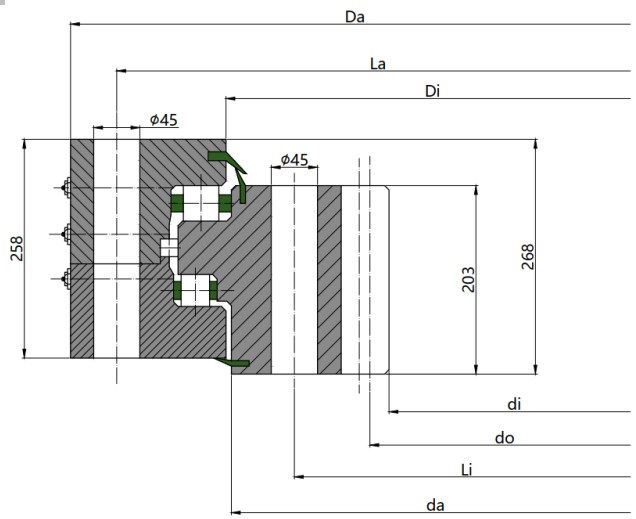
Series 50 – External gear
Three row cylindrical roller

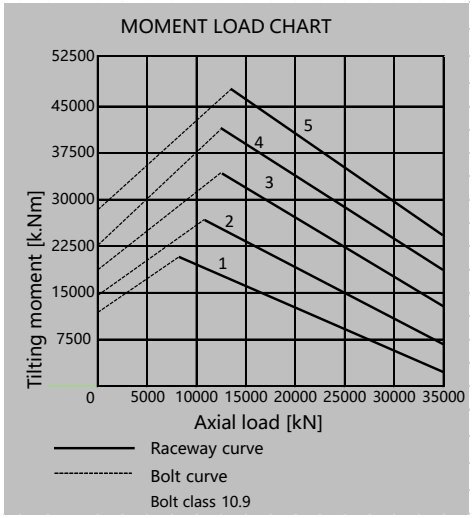




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-131.50.3150	1	3571	2885	3196	3210	5298	3350	2975	48	3504	24	146	+0.50	420	760	3894	36813	19631	1770	8590	6296
PT-131.50.3550	2	3955	3285	3596	3610	5830	3750	3375	54	3888	24	162	+0.50	420	760	4402	41488	22131	1887	9129	6696
PT-131.50.4000	3	4411	3735	4046	4060	6578	4200	3825	60	4344	24	181	+0.50	420	760	4974	46747	24945	2011	9715	7138
PT-131.50.4500	4	4915	4235	4546	4560	7456	4700	4325	68	4848	24	202	+0.50	420	760	5609	52590	28070	2144	10438	7634
PT-131.50.4750	5	5179	4485	4796	4810	7870	4950	4575	76	5112	24	213	+0.50	420	760	5927	55512	29633	2209	10721	7862

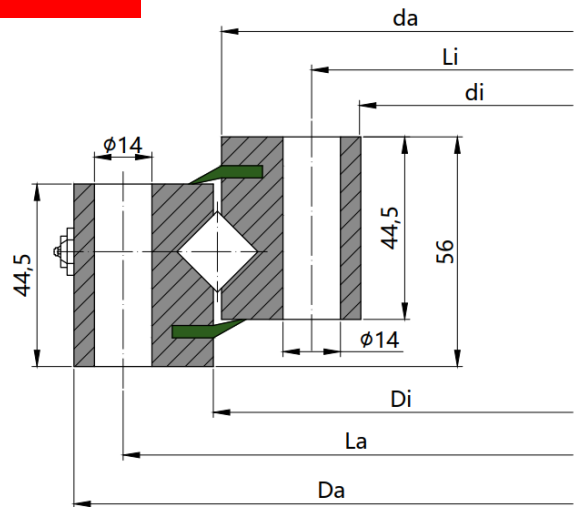
Series 50 – Internal gear
Three row cylindrical roller

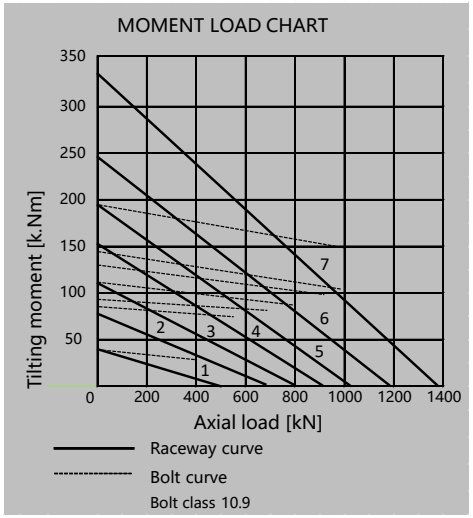




Model	No.	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
																Static			Dynamic		
										Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Radial	Axial main thrust	Axial retaining thrust	Radial	Axial main thrust	Axial retaining thrust
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	Li [mm]	n [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co axT [kN]	Co axH [kN]	C rad [kN]	C axT [kN]	C axH [kN]
PT-133.50.3150	1	3415	2736	3090	3104	5128	3325	2950	48	2760	24	115	-0.50	440	820	4110	36813	19756	1820	8590	6309
PT-133.50.3550	2	3815	3120	3490	3504	5916	3725	3350	54	3144	24	131	-0.50	440	820	4618	41488	22256	1935	9129	6709
PT-133.50.4000	3	4265	3576	3940	3954	6623	4175	3800	60	3600	24	150	-0.50	440	820	5190	46745	25070	2059	9715	7150
PT-133.50.4500	4	4765	4080	4440	4454	7427	4675	4300	68	4104	24	171	-0.50	440	820	5825	52590	28195	2189	10438	7664
PT-133.50.4750	5	5015	4320	4690	4704	7840	4925	4550	76	4344	24	181	-0.50	440	820	6143	55512	29758	2250	10721	7873

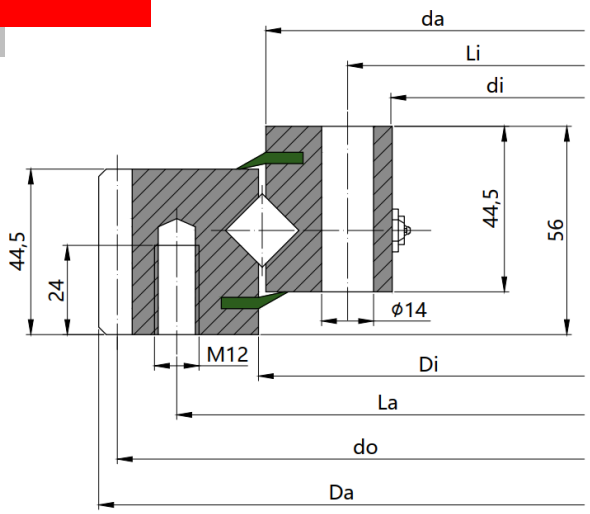
Series 14 – No gear
Single row crossed roller

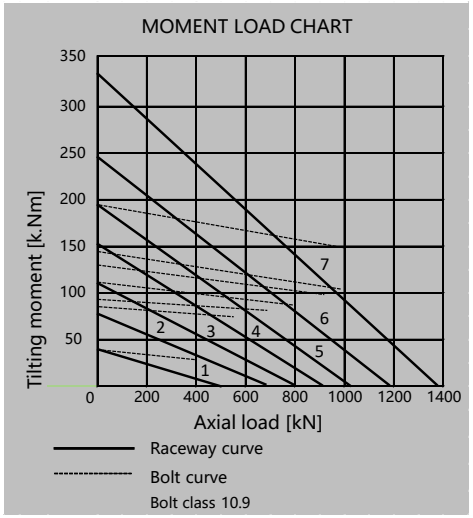




Model	No.	Dimensions and weight					Mounting holes				Load ratings			
											Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-110.14.0414	1	484	344	415	413	28	460	24	368	24	250	520	146	229
PT-110.14.0544	2	614	474	545	543	38	590	32	498	32	330	680	170	270
PT-110.14.0644	3	714	574	645	643	44	690	36	598	36	395	800	185	290
PT-110.14.0744	4	814	674	745	743	52	790	40	698	40	455	930	200	315
PT-110.14.0844	5	914	774	845	843	60	890	40	798	40	510	1050	215	340
PT-110.14.0944	6	1014	874	945	943	67	990	44	898	44	580	1170	227	360
PT-110.14.1094	7	1164	1024	1095	1093	77	1140	48	1048	48	670	1360	246	390

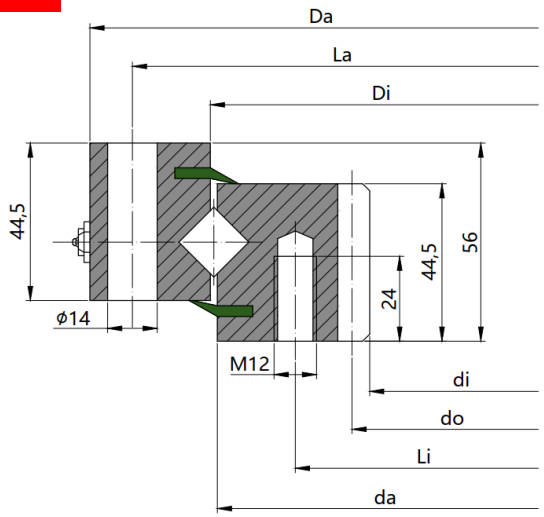
Series 14 – External gear
Single row crossed roller

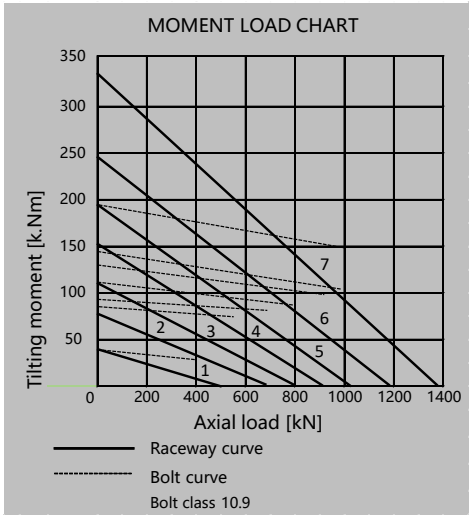




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-111.14.0414	1	503,3	344	417	413	32	455	20	368	24	495	5	99	15,9	23,6	250	520	146	229
PT-111.14.0544	2	640,3	474	547	543	44	585	28	498	32	630	6	105	21,3	31,5	330	680	170	270
PT-111.14.0644	3	742,3	574	647	643	52	685	32	598	36	732	6	122	21,3	31,5	395	800	185	290
PT-111.14.0744	4	838,1	674	747	743	59	785	36	698	40	828	6	138	21,3	31,5	455	930	200	315
PT-111.14.0844	5	950,1	774	847	843	71	885	36	798	40	936	8	117	28,3	42	510	1050	215	340
PT-111.14.0944	6	1046	874	947	943	77	985	40	898	44	1032	8	129	28,3	42	580	1170	227	360
PT-111.14.1094	7	1198	1024	1097	1093	91	1135	44	1048	48	1184	8	148	28,3	42	670	1360	246	390

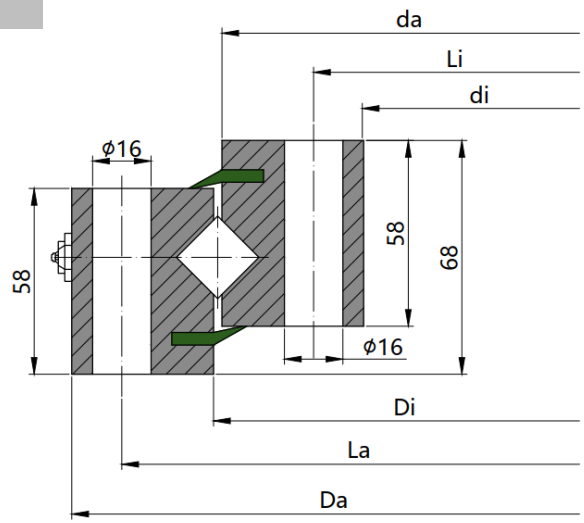
Series 14 – Internal gear
Single row crossed roller

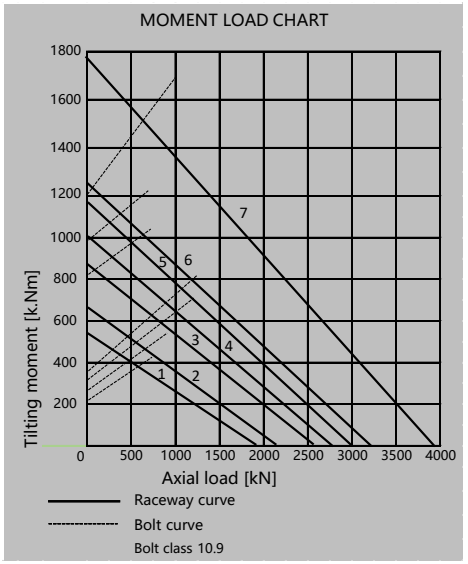




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces					Load ratings			
											Pitch circle diameter	Module	No. of teeth	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-113.14.0414	1	484	325	415	411	31	460	24	375	24	335	5	67	17,7	26,2	250	520	146	229
PT-113.14.0544	2	614	444	545	541	43	590	32	505	32	456	6	76	23,7	35	330	680	170	270
PT-113.14.0644	3	714	546	645	641	50	690	36	605	36	558	6	93	23,7	35	395	800	185	290
PT-113.14.0744	4	814	648	745	741	58	790	40	705	40	660	6	110	23,7	35	455	930	200	315
PT-113.14.0844	5	914	736	845	841	69	890	40	805	40	752	8	94	31,4	46,7	510	1050	215	340
PT-113.14.0944	6	1014	840	945	941	76	990	44	905	44	856	8	107	31,4	46,7	580	1170	227	360
PT-113.14.1094	7	1164	984	1095	1091	91	1140	48	1055	48	1000	8	125	31,4	46,7	670	1360	246	390

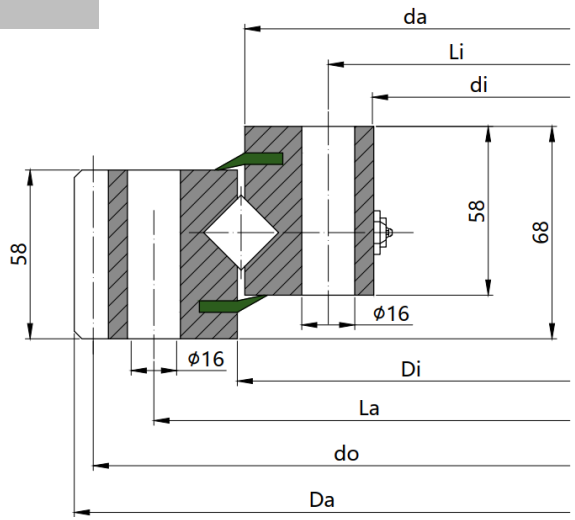
Series 16 – No gear
Single row crossed roller

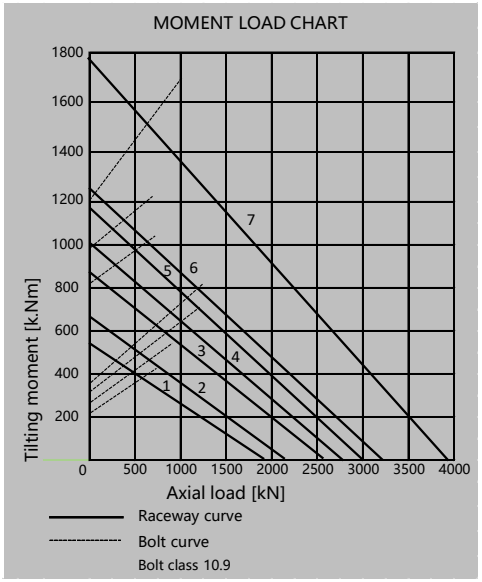




Model	No.	Dimensions and weight					Mounting holes				Load ratings			
											Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-110.16.1204	1	1289	1119	1206	1202	124	1257	45	1151	45	922	1900	255	402
PT-110.16.1314	2	1399	1229	1316,5	1312	135	1367	50	1261	50	1004	2070	267	421
PT-110.16.1424	3	1509	1339	1426,5	1422	146	1477	54	1371	54	1251	2580	279	439
PT-110.16.1534	4	1619	1449	1536,5	1532	158	1587	60	1481	60	1340	2770	290	456
PT-110.16.1644	5	1752	1536	1646,5	1642	215	1708	54	1580	54	1450	2990	302	475
PT-110.16.1754	6	1862	1646	1756,5	1752	228	1818	60	1690	60	1542	3180	312	491
PT-110.16.1904	7	2012	1796	1906,5	1902	248	1968	64	1840	64	1916	3950	409	644

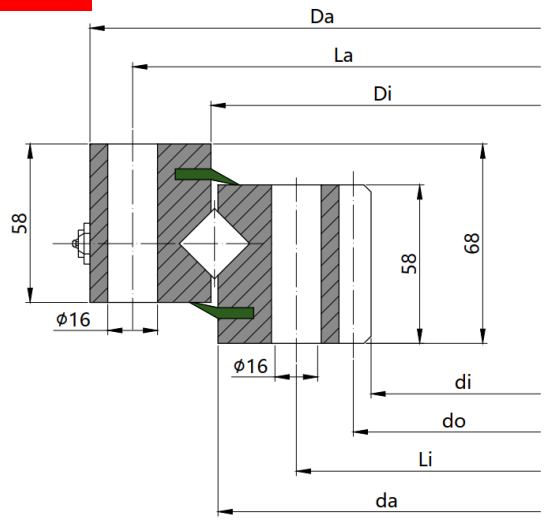
Series 16 – External gear
Single row crossed roller

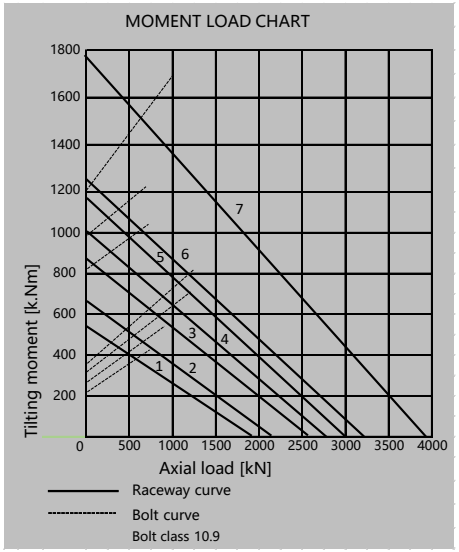




Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces						Load ratings			
											Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-111.16.1204	1	1340	1119	1206	1202	155	1257	45	1151	45	1310	10	131	+0.5	45	130	922	1900	255	402
PT-111.16.1314	2	1450	1229	1317	1312	168	1367	50	1261	50	1420	10	142	+0.5	45	130	1004	2070	267	421
PT-111.16.1424	3	1560	1339	1427	1422	182	1477	54	1371	54	1530	10	153	+0.5	45	130	1251	2580	279	439
PT-111.16.1534	4	1670	1449	1537	1532	195	1587	60	1481	60	1640	10	164	+0.5	45	130	1340	2770	290	456
PT-111.16.1644	5	1793	1536	1647	1642	242	1708	54	1580	54	1760	10	176	+0.65	45	130	1450	2990	302	475
PT-111.16.1754	6	1903	1646	1757	1752	258	1818	60	1690	60	1870	10	187	+0.65	45	130	1542	3180	312	491
PT-111.16.1904	7	2076	1796	1907	1902	305	1968	64	1840	64	2030	14	145	+0.65	62	181	1916	3950	409	644

Series 16 – Internal gear
Single row crossed roller





Model	No.	Dimensions and weight					Mounting holes				Gearing and tooth forces						Load ratings			
											Pitch circle diameter	Module	No. of teeth	Gear modification	Ratings tooth force	Max tooth force	Static		Dynamic	
		Da [mm]	di [mm]	Di [mm]	da [mm]	G [kg]	La [mm]	na [-]	Li [mm]	ni [-]	do [mm]	m	z2 [-]	x2 [-]	Fz norm [kN]	Fz max [kN]	Co rad [kN]	Co ax [kN]	C rad [kN]	C ax [kN]
PT-113.16.1204	1	1289	1070	1206	1202	148	1257	45	1151	45	1090	10	108	0,5	48	169	922	1900	255	402
PT-113.16.1314	2	1399	1180	1317	1312	160	1367	50	1261	50	2070	10	119	0,5	48	169	1004	2070	267	421
PT-113.16.1424	3	1509	1290	1427	1422	175	1477	54	1371	54	2580	10	130	0,5	48	169	1251	2580	279	439
PT-113.16.1534	4	1619	1400	1537	1532	190	1587	60	1481	60	2770	10	141	0,5	48	169	1340	2770	290	456
PT-113.16.1644	5	1752	1493	1647	1642	240	1708	54	1580	54	2990	10	150	0,65	48	169	1450	2990	302	475
PT-113.16.1754	6	1862	1603	1757	1751	255	1818	60	1690	60	3180	10	161	0,65	48	169	1542	3180	312	491
PT-113.16.1904	7	2012	1726	1907	1902	305	1968	64	1840	64	3950	14	124	0,65	69	230	1916	3950	409	644

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