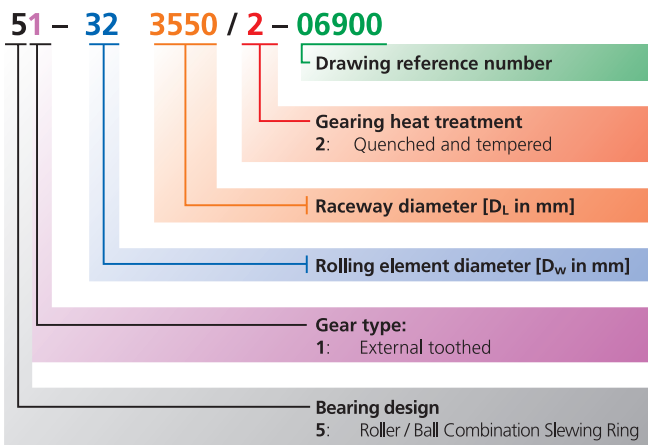
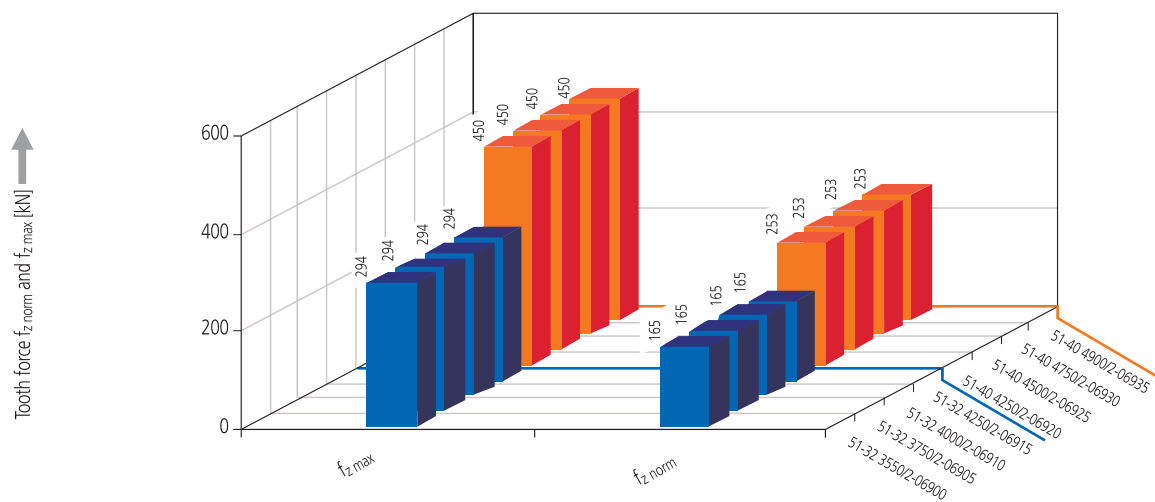


# Series 532, 540

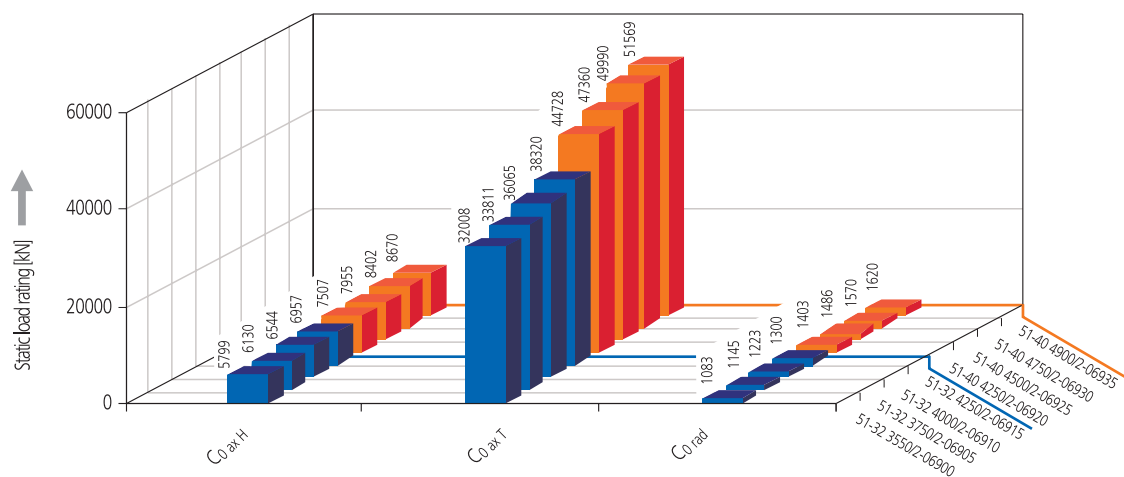
## Series overview - Roller / Ball Combination Slewing Rings



Permissible tooth force for the individual sizes



Static load ratings for the individual sizes



## Operating conditions

Permissible temperature range -25°C to +70°C  
 Maximum permissible rotational speed  $n_{perm} = 20000 / D_L$   
 ( $D_L$  = raceway diameter)  
 Only compressive load  
 Only vertical rotating axis  
 Bolt grade 10.9

## Typical applications

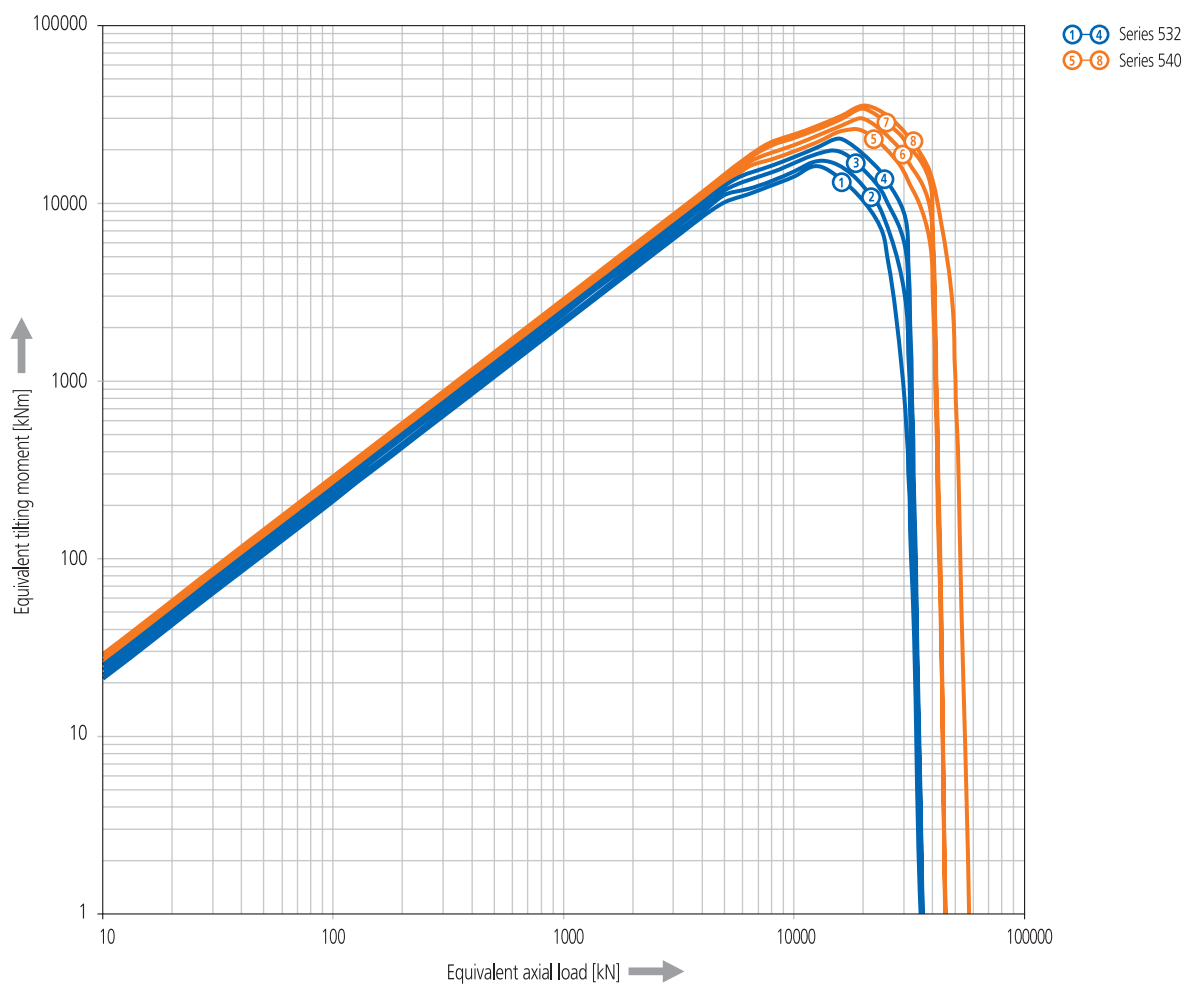
Stacker reclaimers and other equipment for bulk materials handling, turntables.

## Characteristics

- High axial load capacity
- Long service life if mainly axial loads
- High rigidity
- Good running precision

## Limiting load diagrams, series 532, 540

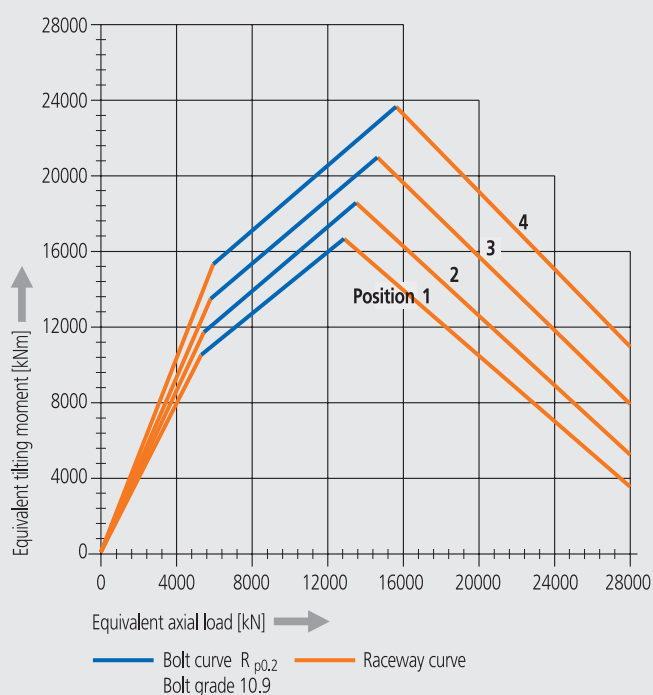
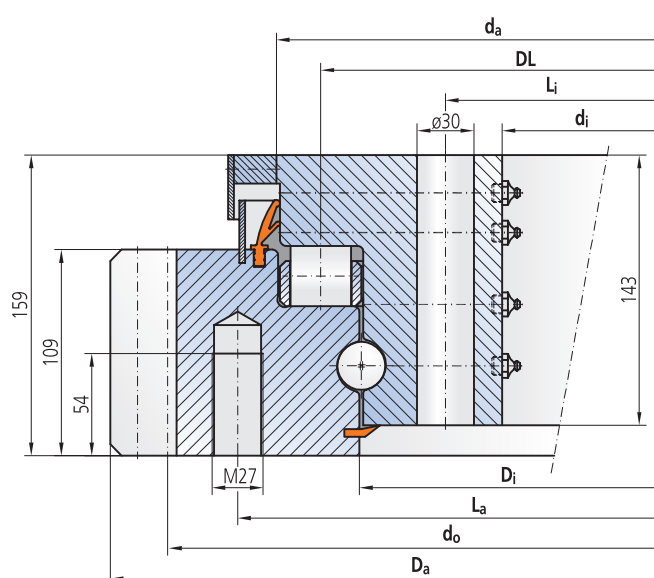
Please refer to the explanations in the Technical Information section of the catalog.



# Series 532 standard design

## External toothed

Drawing number	Position	Dimensions and weight					Mounting holes			Gearing and tooth forces					Load ratings						
		Outside diameter, outer ring	Inside diameter, inner ring	Inside diameter, outer ring	Outside diameter, inner ring	Weight	Pitch circle diameter, outer ring	Pitch circle diameter, inner ring	Number of holes per pitch circle	Pitch circle diameter	Module	Number of teeth	Addendum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static			Dynamic		
		$D_a$ [mm]	$d_i$ [mm]	$D_i$ [mm]	$d_a$ [mm]	$G$ [kg]	$L_a$ [mm]	$L_i$ [mm]	$n$ [-]	$d_o$ [mm]	$m$ [mm]	$z_2$ [-]	$x_2$ [-]	$f_{z\text{ norm}}$ [kN]	$f_{z\text{ max}}$ [kN]	$C_{o\text{ rad}}$ [kN]	$C_{o\text{ ax T}}$ [kN]	$C_{o\text{ ax H}}$ [kN]	$C_{\text{ rad}}$ [kN]	$C_{\text{ ax T}}$ [kN]	$C_{\text{ ax H}}$ [kN]
51-32 3550/2-06900	1	3772.8	3358	3509	3597	2028	3638	3418	76	3712	16	232	+1.00	165	294	1083	32008	5799	319	4948	606
51-32 3750/2-06905	2	3980.8	3558	3709	3797	2186	3846	3618	80	3936	16	246	+0.50	165	294	1145	33811	6130	325	5089	618
51-32 4000/2-06910	3	4220.8	3808	3959	4047	2278	4086	3868	84	4176	16	261	+0.50	165	294	1223	36065	6544	333	5273	633
51-32 4250/2-06915	4	4476.8	4058	4209	4297	2455	4342	4118	90	4416	16	276	+1.00	165	294	1300	38320	6957	341	5439	648



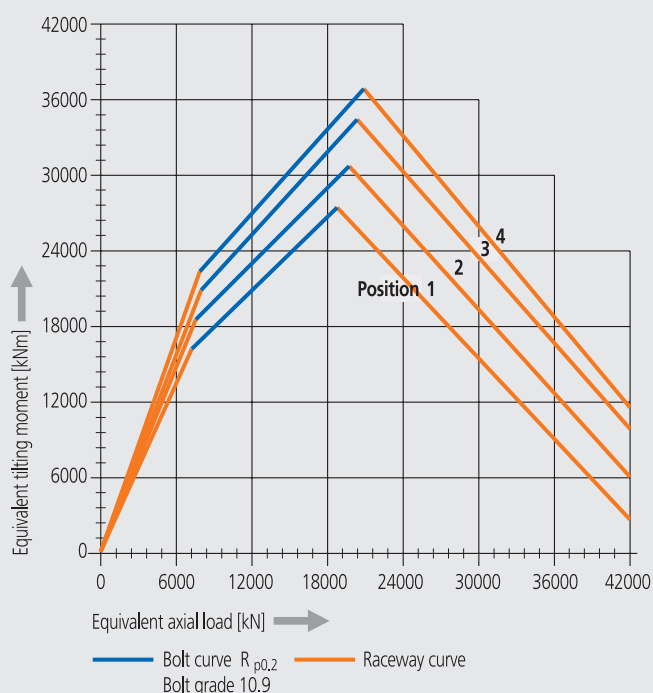
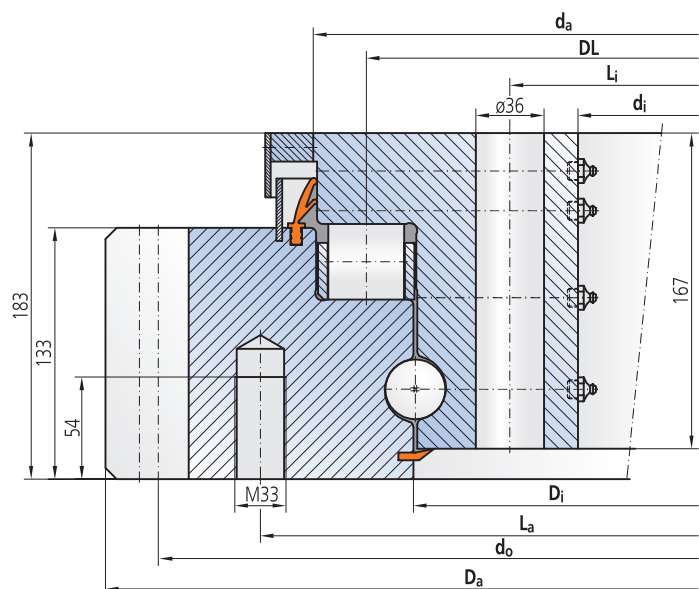
Please adhere strictly to the rules given in the Technical Information section when using above graph!

Radial clearance: 0 - 0.32 mm  
 Axial clearance: 0 - 0.32 mm  
 Bearing ring material: 42CrMo4V  
 10 to 12 Taper type grease nipples on each circumferential row  
 Mounting holes equally spaced  
 Raceway system supplied pre-lubricated  
 Dimensions without tolerances DIN ISO 2768 coarse

# Series 540 standard design

## External toothed

Drawing number	Position	Dimensions and weight					Mounting holes			Gearing and tooth forces						Load ratings					
		Outside diameter, outer ring	Inside diameter, inner ring	Inside diameter, outer ring	Outside diameter, inner ring	Weight	Pitch circle diameter, outer ring	Pitch circle diameter, inner ring	Number of holes per pitch circle	Pitch circle diameter	Module	Number of teeth	Addendum modification coeff.	Permissible tooth force	Maximum permissible tooth force	Static			Dynamic		
		$D_a$ [mm]	$d_i$ [mm]	$D_i$ [mm]	$d_a$ [mm]	$G$ [kg]	$L_a$ [mm]	$L_i$ [mm]	$n$ [-]	$d_o$ [mm]	$m$ [mm]	$z_2$ [-]	$x_2$ [-]	$f_{z\text{norm}}$ [kN]	$f_{z\text{max}}$ [kN]	$C_{o\text{rad}}$ [kN]	$C_{o\text{axT}}$ [kN]	$C_{o\text{axH}}$ [kN]	$C_{\text{rad}}$ [kN]	$C_{\text{axT}}$ [kN]	$C_{\text{axH}}$ [kN]
51-40 4250/2-06920	1	4536	4026	4200	4306	3469	4362	4098	68	4480	20	224	+0.50	253	450	1403	44728	7507	442	7415	840
51-40 4500/2-06925	2	4776	4276	4450	4556	3673	4612	4348	72	4720	20	236	+0.50	253	450	1486	47360	7955	451	7649	858
51-40 4750/2-06930	3	5016	4526	4700	4806	3796	4852	4598	76	4960	20	248	+0.50	253	450	1570	49990	8402	460	7877	876
51-40 4900/2-06935	4	5176	4676	4850	4956	4000	5012	4748	80	5120	20	256	+0.50	253	450	1620	51569	8670	466	8007	886



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

Radial clearance: 0 - 0.4 mm  
 Axial clearance: 0 - 0.4 mm  
 Bearing ring material: 42CrMo4V  
 14 to 16 Taper type grease nipples on each circumferential row  
 Mounting holes equally spaced  
 Raceway system supplied pre-lubricated  
 Dimensions without tolerances DIN ISO 2768 coarse