

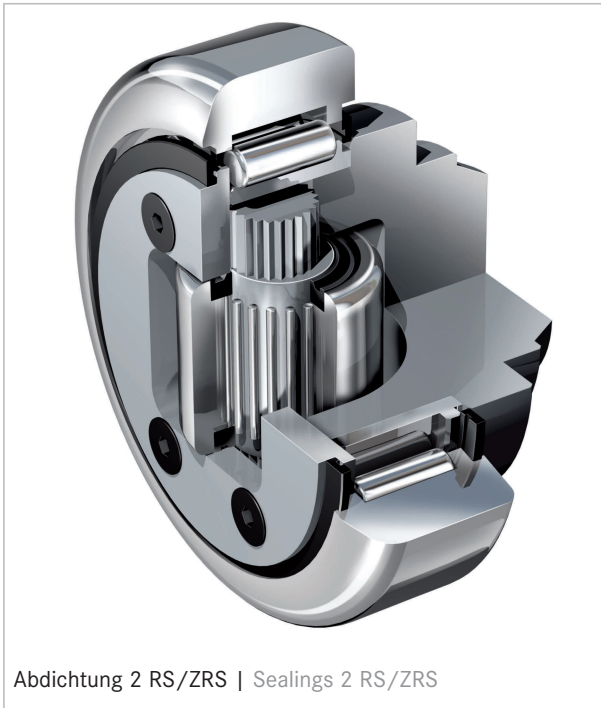
## WINKEL-Rollen | WINKEL Bearings



Präzisions-WINKEL-Rolle  
Typ PR  
Axialrolle über Exzenter justierbar

## Vorteil:

- weniger Spiel zwischen Rolle und Profil
- Rollen lebensdauer geschmiert

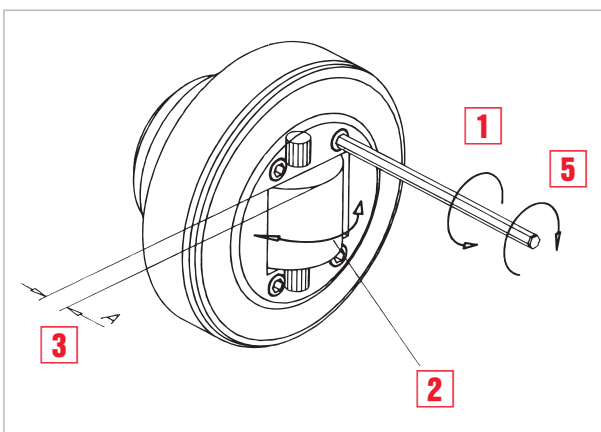
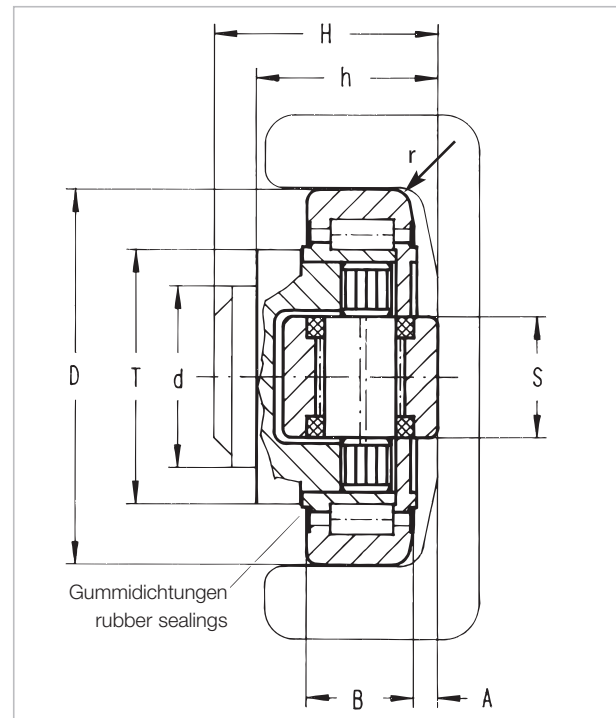


Abdichtung 2 RS/ZRS | Sealings 2 RS/ZRS

Precision WINKEL Bearing  
Type PR  
Axial Bearing eccentric adjustable

## Advantage:

- less clearance between bearing and profile
- bearings are lubricated for life



## Justierung der Axialrolle

- 1 Deckelschrauben lösen
- 2 Exzenterachse drehen (Axialrolle wird verdreht)
- 3 Maß A überprüfen (ggf. Punkt 2 wiederholen)
- 4 Schrauben mit Loctite sichern
- 5 Deckelschrauben festziehen

## Adjusting of the Axial Bearing

- 1 loosen screws
- 2 turn eccentric axle (Axial Bearing will be turned)
- 3 check measure A (if necessary repeat Pos.2)
- 4 secure screws with loctite
- 5 lock screws

Typ Type	Artikel-Nr. Article no.	D mm D mm	T mm T mm	d -0.05 mm d -0.05 mm	H mm H mm	h mm h mm	B mm B mm	A mm A mm	S mm S mm	r mm r mm
PR 4.454	200.114 .000	64,8	42	30	37,5 - 39,0	30,5 - 32,0	20,0	4,0 - 5,5	20	3
PR 4.455	200.115 .000	73,8	48	35	44,0 - 45,5	36,0 - 37,5	23,0	4,0 - 5,5	20	4
PR 4.456	200.116 .000	81,8	54	40	48,0 - 49,5	37,0 - 38,5	23,0	3,5 - 5,0	26	4
PR 4.458	200.117 .000	92,8	59	45	57,0 - 58,5	44,0 - 45,5	30,0	4,0 - 5,5	26	4
PR 4.461	200.118 .000	111,8	69	60	69,0 - 71,0	55,0 - 57,0	31,0	4,0 - 6,0	30	5
PR 4.462	200.119 .000	127,8	80	60	72,3 - 76,3	56,0 - 60,0	37,0	5,0 - 9,0	34	5
PR 4.463	200.120 .000	153,8	108	60	77,5 - 81,5	58,5 - 62,5	45,0	6,0 - 10,0	34	3
PR 4.085	201.049.001	184,8	124	100	95,7 - 98,7	76,3 - 79,3	57,3	6,5 - 9,5	60	3

C = Dyn. Tragzahl Radiallager (ISO 281/1), C<sub>0</sub> = Stat. Tragzahl Radiallager (ISO 76)

C<sub>A</sub> = Dyn. Tragzahl Axiallager (ISO 281/1), C<sub>0A</sub> = Stat. Tragzahl Axiallager (ISO 76)

F<sub>R</sub> = Tragzahl Radiallager zulässige Belastung zwischen Rolle und Profil

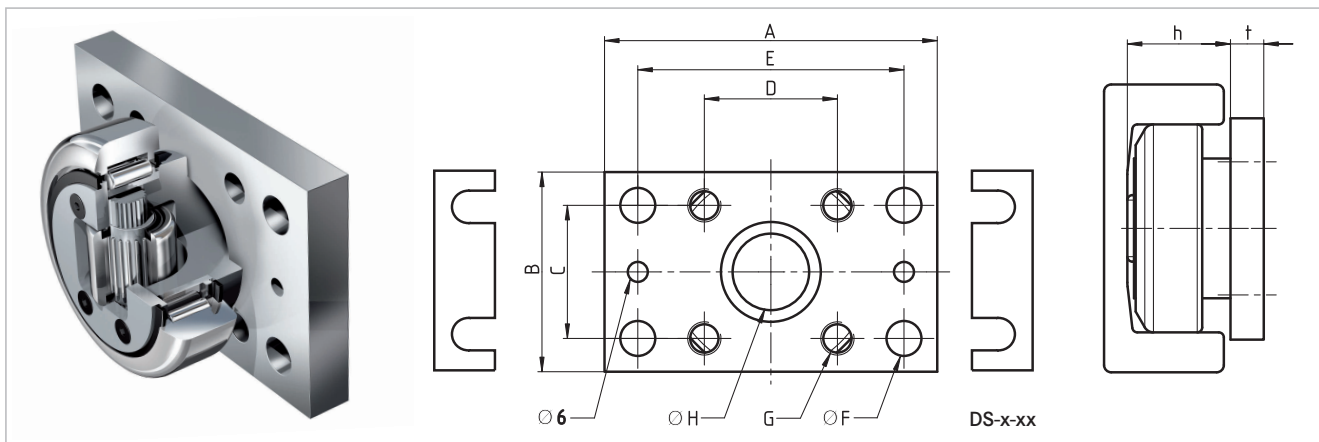
F<sub>A</sub> = Tragzahl Axiallager zulässige Belastung zwischen Rolle und Profil

WINKEL-Rollen | WINKEL Bearings



Passende Anschraubplatten

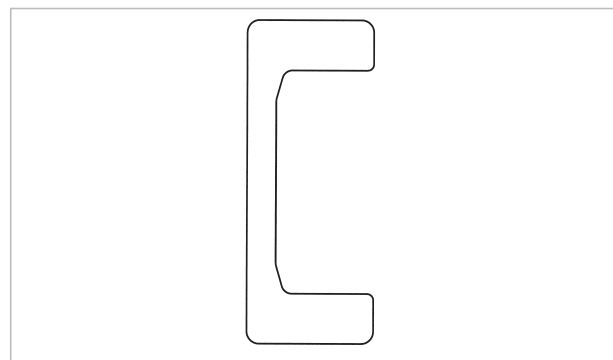
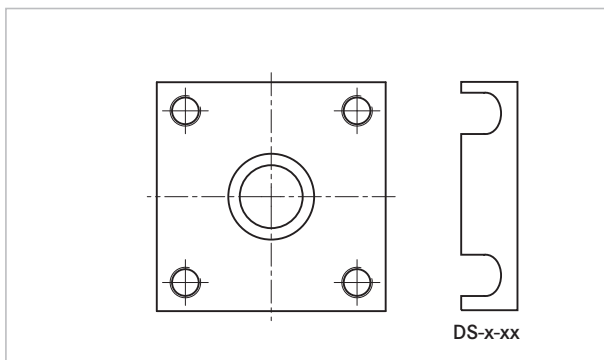
Suitable flange plates



Typ Type	Artikel-Nr. Article no.	A A	B B	C C	D D	E E	Ø F Ø F	G G	Ø H Ø H	t t	Distanzsteckblech 0,5mm Washer 0.5mm		Distanzsteckblech 1,0mm Washer 1.0mm	
AP 0	212.003.000	100	60	40	40	80	10,5	M10	30	10	DS-0-0,5	238.020.000	DS-0-1,0	238.020.001
AP 1	212.004.000	120	80	50	50	90	12,5	M12	35	15	DS-1-0,5	238.021.000	DS-1-1,0	238.021.001
AP 2	212.005.000	120	80	50	50	90	12,5	M12	40	15	DS-2-0,5	238.021.000	DS-2-1,0	238.021.001
AP 3.1	212.006.001	160	100	60	60	120	17,0	M16	45	20	DS-3.1-0,5	238.105.000	DS-3.1-1,0	238.105.001
AP 4	212.007.001	180	120	80	80	140	17,0	M16	60	20	DS-4-0,5	238.023.000	DS-4-1,0	238.023.001
AP 6	212.008.000	200	150	100	100	160	17,0	M16	60	20	DS-6-0,5	238.024.000	DS-6-1,0	238.024.001

Anschraubplatten quadratisch Reihe AP-Q S. 96  
Flange plates square series AP-Q page 96

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Profiles page 72



Typ Type	F <sub>R</sub> kN F <sub>R</sub> kN	F <sub>A</sub> kN F <sub>A</sub> kN	C kN C kN	C <sub>0</sub> kN C <sub>0</sub> kN	C <sub>A</sub> kN C <sub>A</sub> kN	C <sub>0A</sub> kN C <sub>0A</sub> kN	u/min max. r/pm max.	Gewicht kg Weight kg	Anschraubplatten Flange plates		Profile Profiles
PR 4.454	10,30	3,20	31,0	35,5	11	11	900	0,55	AP0	AP0-Q	PR 0 NbV
PR 4.455	12,40	3,87	45,5	51,0	13	14	900	0,80	AP1	AP1-Q	PR 1 NbV
PR 4.456	12,90	4,00	48,0	56,8	18	18	800	1,05	AP2	AP2-Q	PR 2 NbV
PR 4.458	22,40	7,00	68,0	72,0	23	23	750	1,65	AP3.1	AP3-Q	PR 3 NbV
PR 4.461	23,80	7,44	81,0	95,0	31	36	650	2,85	AP4	AP4-Q	PR 4 NbV
PR 4.462	33,90	10,60	110,0	132,0	43	50	550	4,00	AP4	AP4-Q	PR 5 NbV
PR 4.463	59,20	18,50	151,0	192,0	68	71	450	6,70	AP6	AP6-Q	PR 6 NbV
PR 4.085	91,80	23,70	207,0	243,0	73	83	100	12,50	AP90-Q	AP90-Q	PR 8 NbV

C = Dynamic load capacity radial bearing (ISO 281/1), C<sub>0</sub> = Static load capacity radial bearing (ISO 76)  
C<sub>A</sub> = Dynamic load capacity axial bearing (ISO 281/1), C<sub>0A</sub> = Static load capacity axial bearing (ISO 76)  
F<sub>R</sub> = Load capacity radial bearing max. allowable force between bearing and profile  
F<sub>A</sub> = Load capacity axial bearing max. allowable force between bearing and profile