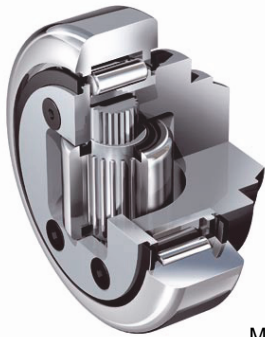
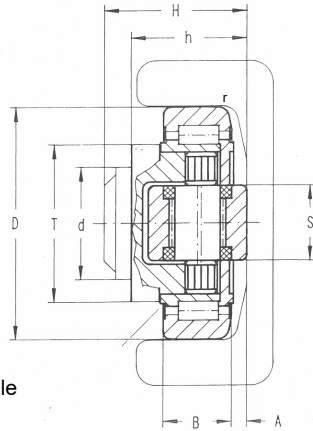


WINKEL Combined Bearings

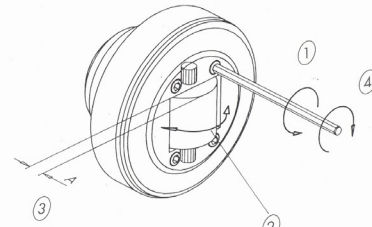
Adjustable Eccentric Axial Bearing



Models Available



Adjusting The Eccentric Axial Bearing
Size W-4.455 thru W-4.463. All with 2RS Seals.



1. Loosen screws. Remove cover.
2. Turn axial bearing (eccentric axial will be turned).
3. Check distance A and Repeat Step 2 as needed.
4. Retighten screws to secure cover.

Special Stud Extensions available on request.
Bearings are lubricated for life

Standard Adjustable Eccentric Axial Bearing

Bearing only Part No.	Bearing with Rectangular Flange Part No.	Bearing with Square Flange Part No.	Dimensions										Wt. kg	Profile Part No.
			A mm	B mm	d (-0.05mm)	D* mm	h mm	H mm	r mm	S mm	T mm	RPM max		
W-4.454	W-4.454/AP0	W-4.454/AP0-Q	4-5.5	20.0	30	62.5	30.5-32	37.5-39	3	20	42	900	0.53	W-0NbV
W-4.455	W-4.455/AP1	W-4.455/AP1-Q	4-5.5	23.0	35	70.1	36-37.5	44-45.5	4	20	48	800	0.80	W-1NbV W-3018
W-4.456	W-4.456/AP2	W-4.456/AP2-Q	3.5-5	23.0	40	78.0	37-38.5	48-49.5	4	26	54	800	1.00	W-2NbV
W-4.457	**	**	3.5-5	23.0	40	78.3	29-30.5	40-41.5	4	26	54	800	0.87	W-3019
W-4.458	W-4.458/AP3.1	W-4.458/AP3-Q	4-5.5	30.0	45	88.4	44-45.5	57-58.5	4	26	59	750	1.62	W-3NbV W-3020
W-4.459	**	**	4.5-6.5	26.0	50	101.6	33-35	46-48	3	30	69	700	1.74	W-2912
W-4.460	**	**	4-6	31.0	55	108.5	40-42	54-56	5	30	69	650	2.27	W-3100
W-4.461	W-4.461/AP4	W-4.461/AP4-Q	4-6	31.0	60	107.7	55-57	69-71	5	30	69	650	2.82	W-4NbV
W-4.462	W-4.462/AP4	W-4.462/AP4-Q	5-9	37.0	60	123.0	56-60	72.3-76.3	5	34	80	550	3.60	W-5NbV W-3353
W-4.463	W-4.463/AP6	W-4.463/AP6-Q	6-10	45.0	60	149.4	58.5-62.5	78.5-82.5	3	34	108	450	6.30	W-6NbV
W-4.085	—	W-4.085/AP90-Q	6.5-9.5	57.3	100	180.0	76.3-79.3	95.7-98.7	3	60	124	100	11.50	W-8NbV

Profile & Bearing Load Ratings

Models Available: www.winkel.de

Bearing only Part No.	Profile		Max Static Radial Load on Profile F_R kN		Max Static Axial Load on Profile F_A kN		Dynamic Load Capacity of Radial Brg C kN	Static Load Capacity of Radial Brg C_0 kN	Dynamic Load Capacity of Axial Brg C_A kN	Static Load Capacity of Axial Brg C_{0A} kN
	U-Profile	I-Profile	U-Profile	I-Profile	U-Profile	I-Profile				
W-4.454	0 NbV	—	10.30	—	3.20	—	31.0	35.5	11	11
W-4.455	1 NbV	3018NbV	12.40	11.30	3.87	3.87	45.5	51.0	11	11
W-4.456	2 NbV	—	12.90	—	4.00	—	48.0	56.8	18	18
W-4.457	—	3019NbV	—	11.72	—	4.00	48.0	56.8	18	18
W-4.458	3 NbV	3020NbV	22.40	20.47	7.00	7.00	68.0	72.0	23	23
W-4.459	—	2912NbV	—	22.00	—	7.00	73.0	82.0	25	27
W-4.460	—	3100NbV	—	23.80	—	7.44	81.0	95.0	31	36
W-4.461	4 NbV	—	23.80	—	7.44	—	81.0	95.0	31	36
W-4.462	5 NbV	3353NbV	33.90	26.00	10.60	10.60	110.0	132.0	43	50
W-4.463	6 NbV	—	59.20	—	18.50	—	151.0	192.0	68	71
W-4.085	8 NbV	—	76.00	—	23.70	—	207.0	243.0	73	83

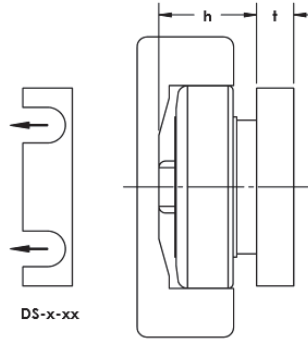
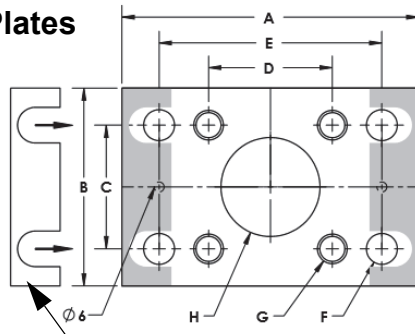
Note: * OD has a slight crown to accommodate misalignments. ** Flange Plates available on request.

WINKEL Combined Bearings

Adjustable Eccentric Axial Bearing



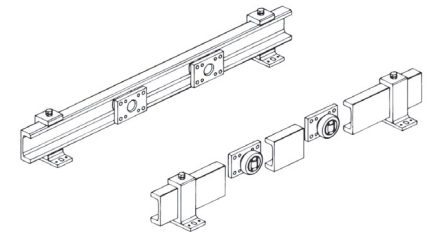
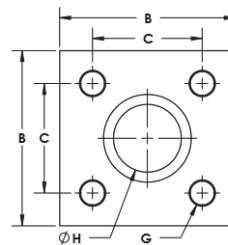
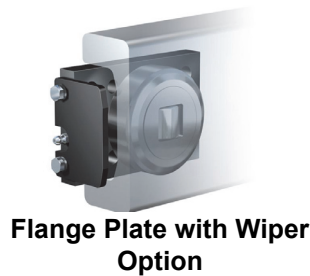
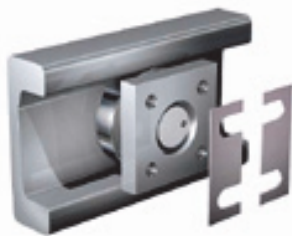
Rectangular Flange Plates



Square Flange Plates

Adjustment Shim

Clamp Flange



Flange Plate Detail

Bearing with Rectangular Flange Plate Part No.	Bearing with Square Flange Plate Part No.	Dimensions										Flange Plate Only	
		A mm	B mm	C mm	D mm	E mm	ØF mm	G	ØH mm	h mm	t mm	Rectangular Part No.	Square Part No.
W-4.454/AP0	W-4.454/AP0-Q	100	60	40	40	80	10.5	M10	30	30.5-32.0	10	W-AP0	W-AP0-Q
W-4.455/AP1	W-4.455/AP1-Q	120	80	50	50	90	12.5	M12	35	36.0-37.5	15	W-AP1	W-AP1-Q
W-4.456/AP2	W-4.456/AP2-Q	120	80	50	50	90	12.5	M12	40	37.0-38.5	15	W-AP2	W-AP2-Q
W-4.458/AP3.1	—	160	100	60	60	120	17.0	M16	45	44.0-45.5	20	W-AP3.1	—
—	W-4.458/AP3-Q	—	120	90	—	—	—	M16	45	44.0-45.5	20	—	W-AP3-Q
W-4.461/AP4	W-4.461/AP4-Q	180	120	80	80	140	17.0	M16	60	55.0-57.0	20	W-AP4	W-AP4-Q
W-4.462/AP4	W-4.462/AP4-Q	180	120	80	80	140	17.0	M16	60	56.0-60.0	20	W-AP4	W-AP4-Q
W-4.463/AP6	W-4.463/AP6-Q	200	150	100	100	160	17.0	M16	60	58.5-62.5	20	W-AP6	W-AP6-Q
—	W-4.485/AP90-Q	—	190	150	—	—	—	M20	100	64.5-67.5	28	—	W-AP90-Q

Adjustment Shims for Flange Bearings

Bearing Size	0.5 mm Shim Part No.	1.0 mm Shim Part No.
W-4.454	W-DS-0-0.5	W-DS-0-1.0
W-4.455	W-DS-1-0.5	W-DS-1-1.0
W-4.456	W-DS-2-0.5	W-DS-2-1.0
W-4.458	W-DS-3-0.5	W-DS-3-1.0
W-4.461	W-DS-4-0.5	W-DS-4-1.0
W-4.462	W-DS-4-0.5	W-DS-4-1.0
W-4.463	W-DS-6-0.5	W-DS-6-1.0
W-4.485	W-DS-90-0.5	W-DS-90-1.0

Clamp Flanges for Mounting Profile

Part No.	Profile Size
W-KF 0	0 NbV
W-KF 1	1 NbV
W-KF 2	2 NbV
W-KF 3	3 NbV
W-KF 4	4 NbV

See Clamp Flange Section for Dimensions

Precision Adjustable Eccentric Axial Bearings requires Precision Profile

Bearing Only Part No. *	Bearing with Rectangular Flange Part No.	Bearing with Square Flange Part No.	D Bearing OD	Profile Size
W-PR4.454	W-PR4.454/AP0	W-PR4.454/AP0-Q	64.8	W-PR0 NbV
W-PR4.455	W-PR4.455/AP1	W-PR4.455/AP1-Q	73.8	W-PR1 NbV
W-PR4.456	W-PR4.456/AP2	W-PR4.456/AP2-Q	81.8	W-PR2 NbV
W-PR4.458	W-PR4.458/AP3.1	W-PR4.458/AP3-Q	92.8	W-PR3 NbV
W-PR4.461	W-PR4.461/AP4	W-PR4.461/AP4-Q	111.8	W-PR4 NbV
W-PR4.462	W-PR4.462/AP4	W-PR4.462/AP4-Q	127.8	W-PR5 NbV
W-PR4.463	W-PR4.463/AP6	W-PR4.463/AP6-Q	153.8	W-PR6 NbV
W-PR4.485	—	W-PR4.485/AP90-Q	184.8	W-PR8 NbV

Note: *Precision (PR) Bearing fit within the profile is more precise.