

Idlers

Backside Tension Type

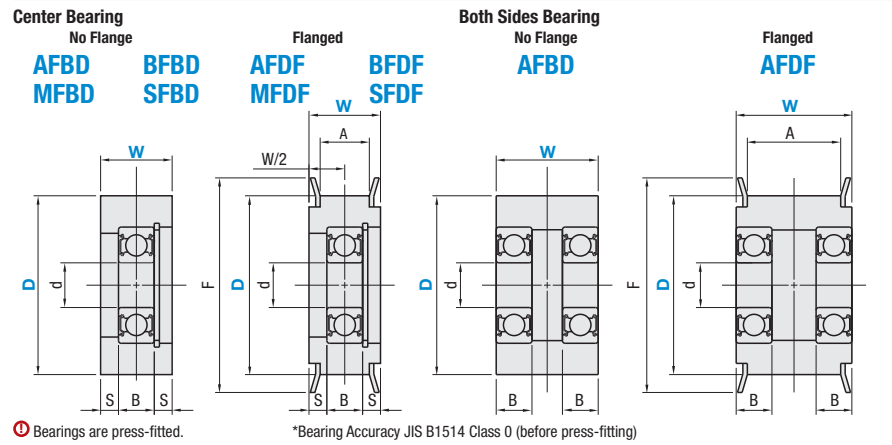
ⓘ Idler shafts (cantilever shafts) can be selected from P.912. ⓘ Tensioners can be selected from P.1530-1531.

Idlers - Backside Tension Type



RoHS 10

Type		Material		Surface Treatment	
No Flange	Flanged	Main Body	Flange	Bearing	
AFBD	AFDF	2000 Series Aluminum Alloy 1045 Carbon Steel or Equivalent	Aluminum Alloy	Steel	Clear Anodize
BFBD	BFDF		Low Carbon Steel		Black Oxide
MFBD	MFDF	304 Stainless Steel			Electroless Nickel Plating
SFBD	SFDF				—

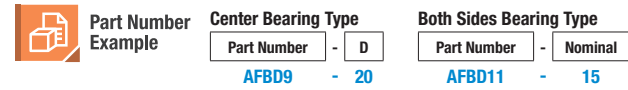


ⓘ Bearings are press-fitted.

*Bearing Accuracy JIS B1514 Class 0 (before press-fitting)

Center Bearing

Part Number	Type	W	D	F	A	Applicable Belt Nominal Width		Bearing Dimensions			Retaining Ring		Compliance with Standard							
						Inch	mm	S	No.	d	B	No Flange				Flanged				
													AFBD	BFBD	MFBD	SFBD	AFDF	BFDF	MFDF	SFDF
No Flange AFBD BFBD MFBD SFBD	9	20	25	5	—	040	2.5	695ZZ	5	4	RTWS13	RTWN13	•	•	•	•	•	•	•	•
	10	25	30	6	019	040	2.5	696ZZ	6	5	RTWS15	RTWN15	•	•	•	•	•	•	•	•
	11	25	30	7	—	060	3.0	696ZZ	6	5	RTWS15	RTWN15	•	•	•	•	•	•	•	•
	11.5	25	30	7.5	025	—	3.25	696ZZ	6	5	RTWS15	RTWN15	•	•	•	•	•	•	•	•
	14	30	35	9	031	—	4	698ZZ	8	6	RTWS19	RTWN19	•	•	•	•	•	•	•	•
	15	30	35	9	031	—	4	698ZZ	8	6	RTWS19	RTWN19	•	•	•	•	•	•	•	•
Flanged AFDF BFDF MFDF SFDF	16	40	48	11	037	100	4.5	698ZZ	8	6	RTWS19	RTWN19	•	•	•	•	•	•	•	•
	19	30	36	—	—	—	6.5	698ZZ	8	6	RTWS19	RTWN19	•	•	•	•	•	•	•	•
	19	35	45	14	050	—	5.5	628ZZ	8	8	RTWS24	RTWN24	•	•	•	•	•	•	•	•
	19	45	55	—	—	—	5	6200ZZ	10	9	RTWS30	RTWN30	•	•	•	•	•	•	•	•
	22	35	45	17	—	150	7	6000ZZ	10	8	RTWS26	RTWN26	•	•	•	•	•	•	•	•
	22	45	55	—	—	—	6.5	6200ZZ	10	9	RTWS30	RTWN30	•	•	•	•	•	•	•	•
	26	40	48	21	075	—	9	6000ZZ	10	8	RTWS26	RTWN26	•	•	•	•	•	•	•	•
	26	45	55	—	—	—	8.5	6200ZZ	10	9	RTWS30	RTWN30	•	•	•	•	•	•	•	•
	26	50	58	—	—	—	8.5	6200ZZ	10	9	RTWS30	RTWN30	•	•	•	•	•	•	•	•



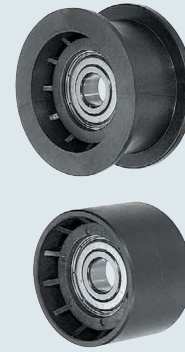
Both Sides Bearing

Part Number	Type	W	Nominal	D	F	A	Applicable Belt Nom. Width		Bearing Dimensions		
							Inch	mm	No.	d	B
No Flange AFBD	9	15	15	18	5	—	040	675ZZx2	5	2.5	
			20W	25				676ZZx2	6	3	
	11	15	15	18	7	—	060	675ZZx2	5	2.5	
			20	25				676ZZx2	6	3	
	11.5	15	15	18	7.5	025	—	675ZZx2	5	2.5	
			20	25				676ZZx2	6	3	
	15	20	20	25	11	037	100	686ZZx2	6	5	
			25	30				688ZZx2	8	5	
	19	25	25	32	14	050	—	688ZZx2	8	5	
			30W	36				688ZZx2	8	5	
	22	25	25	32	17	—	150	688ZZx2	8	5	
			35W	45				6000ZZx2	10	8	
Flanged AFDF	26	40W	40	48	21	075	—	6000ZZx2	10	8	
			45W	55				6201ZZx2	12	10	
	27	60	60	67	22	—	200	6201ZZx2	12	10	
			45	55							27
	32	65	65	74	27	—	100	250	6201ZZx2	12	10
			65	74							
	37	65	65	74	32	—	300	—	—	—	—
			65	74							
	45	70	70	80	40	150	—	—	—	—	—
			70	80							
49	70	70	80	44	—	400	6202ZZx2	15	11	—	
		70	80								44
58	60	60	67	53	—	500	—	—	—	—	
		60	67								53
59	70	70	80	54	200	—	—	—	—	—	

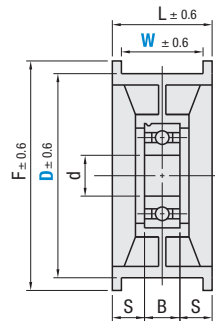
Idlers / Idler Shafts

Resin Type

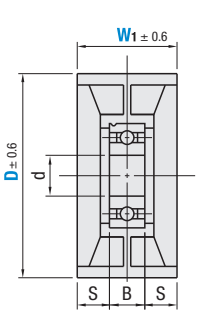
Idlers - Resin Type



TPBSN (Flanged Idler)



TPCFN (Flat Idler)



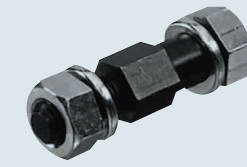
RoHS 10

*Bearing Accuracy JIS B1514 Class 0
ⓘ Operating Ambient Temperature: 80°C or Less

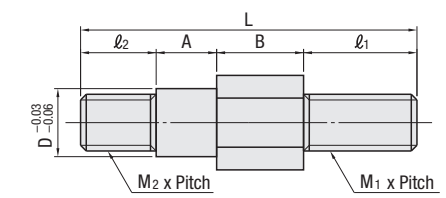
Material: Glass Reinforced Nylon (Engineered Plastic)

Part Number	TPBSN		TPCFN	F	L	S	Bearing Dimensions			Applicable Idler Shaft	
	Type	D	W				W ₁	No.	d		B
	TPBSN TPCFN	38	15				18	42	18		4.5
40		—	26	48	26	8	6201ZZ	12	10	WS116S / WS122S	
45		20	—	50	—	7	6202ZZ	15	11	WS216S	
46		—	25	52	25	7.5	6201ZZ	12	10	WS112S / WS116S	
50		25	31	62	31	10.5					
60		30	—	66	36	13	6202ZZ	15	11	WS216S / WS222S	
70		28	—	80	35	12					

Idler Shafts



WS



Material: 1045 Carbon Steel or Equivalent
Surface Treatment: Black Oxide
Accessories: Nut 2 pcs., Spring Washer 2 pcs.

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ⓘ For idler shafts of different sizes, refer to cantilever shafts (P.912).

Part Number	A	B	D	l ₁	M ₁ x Pitch	l ₂	M ₂ x Pitch	E	L
WS	8.5	10	10	17	M10 x 1.5	12	M8 x 1.25	14	47.5
		12	55.5						
	9.5	16	12	65.5					
		22	15	60.5					
	10.5	16	15	66.5					
		22	—	—					

