

Shaft Pulleys for Round Belts (Width L=25–100)

Straight / Crowned / Crosspiece Groove Straight

Feature: Flat Belt Pulleys with integrated shafts reduce the number of components.

Material: 1045 Carbon Steel or Equivalent
Surface Treatment: Electroless Nickel Plating

Part Number	Type	D	d _{js}	Specify in 1 mm Increment L	Specify in 1 mm Increment F / T	Only for Crowned Type H	Only for Crosspiece Groove Straight Type Specify in 0.1 mm Increment		
							X	Y	Z
Straight HPSJN HPSJF	20	6	6	Straight Type Crown Type 25-100	4≤F, T≤60	0.3	7.0-15.0	5.0-12.0	4.0-5.0
		8	8						
	30	10	10						
		12	12						
	35	15	15						
		15	15						
Crowned HPCJN HPCJF	40	12	12	Crosspiece Groove Straight 50-100	F, T≤dx5	0.5	7.0-15.0	5.0-12.0	4.0-7.0
		15	15						
	20	20	20						
		20	20						
	50	25	25						
		30	30						
Crosspiece Groove Straight HPMJN HPMJF	60	25	25	⊕ For Crowned Type, when D=50-80, 8≤F and T≤60	⊕ For dimensions of Retaining Ring Groove, refer to P.853.	0.5	7.0-15.0	5.0-12.0	4.0-7.0
		30	30						
	30	30							
	35	35							

Part Number Alterations

Part Number - d - L - F - T - H - X - Y - Z

Straight HPSJN40 - 15 - 52 - F50 - T10

Crowned HPCJF60 - 20 - 75 - F25 - T40 - H0.5

Crosspiece Groove Straight HPMJN30 - 12 - 76 - F15 - T50 - X14.0 - Y11.8 - Z5.0

Application Example

Part Number - d - L - F - T - X - Y - Z - (FKC / TKC / FD / TD / TA / TB / FS / TS)

HPMJN30 - 12 - L76 - F50 - T15 - X14.0 - Y11.8 - Z5.0 - FK5-A15

Alterations	Keyway Machining	Step Machining	Retaining Ring Groove	Shaft Dia. Change																
	FKC / TKC	FD / TD	TA / TB	FS / TS																
Code	FKC / TKC	FD / TD	TA / TB	FS / TS																
Spec.	Adds a Keyway on Shaft F or T. FKC, TKC, A, B = 1 mm Increment Ordering Code: FK5-A10 (TKC0-B10) ⊕ FKC=0 or 2≤FKC ⊗ FKC: Combination with FD or TA is not available. ⊕ TKC=0 or 2≤TKC ⊗ TKC: Combination with TD or TB is not available. ⊕ FKC+AsF-2 ⊗ Combination of FKC and TKC is not available. ⊕ TKC+B≤T-2 ⊕ For details of keyways, refer to p.853.	Adds a Step on Shaft F or T. FD, TD, P, Q = 1 mm Increment Ordering Code: FD5-P8 (TD5-Q8) ⊕ FD≤F-2 ⊕ TD≤T-2 ⊕ No Flange: d<P(Q)<D-2 ⊕ Flanged: d<P(Q)<D-12	Adds a Retaining Ring Groove ⊕ Retaining ring is not included. TA, TB = 1 mm Increment Ordering Code: TA5 (TB5) ⊕ 4≤TA≤F-2 (When FD is specified: 4≤TA≤F-FD-2) ⊕ 4≤TB≤T-2 (When TD is specified: 4≤TB≤T-TD-2) ⊕ For dimensions of Retaining Ring Groove, refer to P.853.	Changes Shaft Diameter (d). FS, TS = 1 mm Increment Ordering Code: FS17 (TS17) <table border="1"> <thead> <tr> <th>d</th> <th>FS (TS) Specification Range</th> </tr> </thead> <tbody> <tr><td>20</td><td>8-18</td></tr> <tr><td>30</td><td>8-28</td></tr> <tr><td>35</td><td>10-33</td></tr> <tr><td>40</td><td>12-38</td></tr> <tr><td>50</td><td>15-48</td></tr> <tr><td>60</td><td>20-58</td></tr> <tr><td>80</td><td>25-78</td></tr> </tbody> </table>	d	FS (TS) Specification Range	20	8-18	30	8-28	35	10-33	40	12-38	50	15-48	60	20-58	80	25-78
d	FS (TS) Specification Range																			
20	8-18																			
30	8-28																			
35	10-33																			
40	12-38																			
50	15-48																			
60	20-58																			
80	25-78																			

Idlers for Flat Belts (Width L=38–90 / L=100–300)



Type	Material	Surface Treatment	Material Bearing
ROFB	1045 Carbon Steel or Equivalent	Black Oxide	Steel
ROFM		Electroless Nickel Plating	
ROFA	Aluminum Alloy 5000 series	Clear Anodize	Stainless Steel
ROFS	304 Stainless Steel	—	

*Bearing Precision JIS B1514 Class 0
⊕ Bearings are detachable.

Part Number	Type	D	L Selectable				d	d ₁	Bearing Dimension			
			No.	D ₁	B	C			h			
ROFB ROFM ROFA ROFS	20	38	45	50	6	15	FL696ZZx2	15	5	1.2	17	
			60	70				17	6			
	30	38	45	50	6	17	FL606ZZx2	17	6	1.5	19	
			60	70				19	—			
	35	38	45	50	8	22	FL608ZZx2	22	7	1.5	25	
			60	70				85	90			
	40	38	45	50	10	22	B6000ZZx2	22	8	—	—	
			60	70				85	90			
	40A	38	45	50	10	26	B6000ZZx2	26	8	—	—	
			60	70				85	90			

⊕ For Detailed Bearing Dimensions, refer to P.1018-1028.

Part Number Example

Part Number - L

ROFM25 - 50

D	Available Types											
	ROFB			ROFM			ROFA			ROFS		
	L38-50	L60, 70	L85, 90	L38-50	L60, 70	L85, 90	L38-50	L60, 70	L85, 90	L38-50	L60, 70	L85, 90
20	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•	•	•	•
30A	•	•	•	•	•	•	•	•	•	•	•	•
35	•	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•	•
40A	•	•	•	•	•	•	•	•	•	•	•	•



ROFBW (1045 Carbon Steel or Equivalent + Black Oxide)
ROFAWB (Aluminum Alloy 5000 Series + Clear Anodize)

*Bearing Precision JIS B1514 Class 0

Part Number	Type	D	L 10 mm Increment	d	D ₁	Bearing Dimension				
						No.	D ₂	B	C	h
ROFBW ROFAWB		30	100-300	8	10	FL678ZZ	12	3.5	0.8	13.6
						B6801ZZ	21	5	—	—

Part Number Example

Part Number - L

ROFBW40 - 150

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