


# Pulleys for Flat Belts (Width L=110-500)

Crowned / Crosspiece Groove Straight



Type		Material	Surface Treatment
Crowned	Crosspiece Groove Straight		
ROBAWC	ROBAWM	5052 Aluminum Alloy	Clear Anodize
ROBMWC	ROBMWM	1020 Carbon Steel	Electroless Nickel Plating
ROBSWC	ROBSWM	304 Stainless Steel	—

**New JIS (B1301) Keyway Dimensions**

Nominal	d <sub>99</sub>	b <sub>JIS</sub>	t Tolerance
N8	8	3	1.4
N10	10	4	1.8
NK10	10	5	2.3
N12	12	4	1.8
N15	15	5	2.3
N20	20	6	2.8
N25	25	8	3.3
N30	30	10	4.0
N35	35	10	4.0

**Crowned Type**  
ROBAWC, ROBMWC, ROBSWC

**Crosspiece Groove Straight Type**  
ROBAWM, ROBMWM, ROBSWM

**Keyway Shape**

RoHS 10

Part Number	Type	d	Round Hole + Tap	Keyway + Tap	10 mm Increment L	H		1 mm Increment			K	d <sub>1</sub>			M																							
						L=110-300	L=310-500	X	Y	Z		Aluminum (Aluminum Alloy 5000 series)	Steel (1020 Carbon Steel)	Stainless Steel (304 Stainless Steel)	D <sub>1</sub>	Round Hole + Tap	Keyway + Tap																					
Crowned Type ROBAWC ROBMWC ROBSWC	30	8	N8	2.0-4.5	110-510	0.3	0.5	7.0-15.0	5.0-12.0	30	25	15	15.8	18	22	M4	M3																					
																		35	10	N10, NK10	4.0-6.0	25	17	18.1	18	27	M4	M3										
																													40	12	N12	4.0-7.0	17	18.7	20	33	M4	M3
																		50	20	N20	4.0-7.0	17	30	28	40	M5	M5											
																												60	25	N25	4.0-7.0	22	30	28	40	M5	M6	
	80	30	N30	4.0-7.0	32	—	—	45	M6	M6																												
											80	35	N35	4.0-7.0	41	—	—	55	M8	M6	M8																	

① When D=(60) or (80), only available in Aluminum (Aluminum Alloy 5000 series). ② V-Groove Straight D=30 or 35 are available only in Aluminum (Aluminum Alloy 5000 series).  
③ Select NK10 when Keyway + Tap with shaft hole diameter 10 and keyway width 4.0 mm (height 1.8 mm) is requested.

**Part Number Alterations**

Crowned Type


Part Number	d	L	H
ROBAWC30	10	L350	H1.0
ROBMWC35	10	L300	H0.5
ROBSWC50	15	L400	H0.5

Crosspiece Groove Straight Type

Part Number	d	L	X	Y	Z
ROBAWM60	25	L250	X14.0	Y11.8	Z5.0
ROBMWM50	20	L350	X13.0	Y11.5	Z6.0
ROBSWM50	25	L400	X12.0	Y10.0	Z6.0

# Idlers for Flat Belts (Width L=110-500)

Straight / Crowned / Crosspiece Groove Straight



Type			Material	Surface Treatment
Straight	Crowned	Crosspiece Groove Straight		
ROFAWC	ROFAWT	ROFAWM	5052 Aluminum Alloy	Clear Anodize
ROFMWC	ROFMWT	ROFMWM	1020 Carbon Steel	Electroless Nickel Plating
ROFSWC	ROFSWT	ROFSWM	304 Stainless Steel	—

**Straight Type**  
ROFAWC, ROFMWC, ROFSWC

**Crowned Type**  
ROFAWT, ROFMWT, ROFSWT

**Crosspiece Groove Straight Type**  
ROFAWM, ROFMWM, ROFSWM

RoHS 10

① The bearings are removable. Temporarily attached with tape for shipping.

Type	D	d	10 mm Increment L	H	0.1 mm Increment			d <sub>1</sub>			Bearing Dimension																							
					X	Y	Z	Aluminum Alloy (5000 series)	Steel (1020 Carbon Steel)	Stainless Steel (304 Stainless Steel)	No.	D <sub>1</sub>	B																					
Straight Type ROFAWC ROFMWC ROFSWC	30	8	110-510	0.3	—	—	—	—	—	—	—	—	—	—	—	—																		
																	35	10	4.0-6.0	17	18.1	18	27	M4	M3									
																										40	12	4.0-7.0	17	18.7	20	33	M4	M3
																	50	20	4.0-7.0	17	30	28	40	M5	M5									
																										60	25	4.0-7.0	22	30	28	40	M5	M6
	80	30	4.0-7.0	32	—	—	45	M6	M6																									
										80	35	4.0-7.0	41	—	—	55	M8	M6	M8															

① \*When D=30 and d=8A, only available in Steel or Stainless Steel. ② When D=(60) or (80), only available in Aluminum (Aluminum Alloy 5000 series).  
③ Crosspiece Groove Straight D=30 or 35 are available only in Aluminum (Aluminum Alloy 5000 series).

**Part Number Example**

Straight ROFAWC40 - 8 - L200

Crowned ROFAWT30 - 10 - L350 - H0.5

Crosspiece Groove Straight ROFSWM50 - 20 - L250 - X14.0 - Y11.8 - Z5.0