



Pulleys for Flat Belts (Width L=110-510)

Crowned / Crosspiece Groove Straight

Flat Belts / Round Belts / Pulleys / Idlers

Pulleys for Flat Belts – Width L=110-500

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	—

6.3/(1.6/)

New JIS (B1301) Keyway Dimensions

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

Ⓢ Set screw not included

Crowned Type
ROBAWC, ROBMWC, ROBSWC

Crosspiece Groove Straight Type
ROBAWM, ROBMWM, ROBSWM

Ⓢ X≥Y
*1 Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.

Ⓢ X≥Y
*1 Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.

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

Part Number	Type	d	Round Hole + Tap	Keyway + Tap	1 mm Increment L	H		0.1 mm Increment			K	d ₁			M																					
						L=110-300	L=310-500	X	Y	Z		Key Length	Aluminum (Aluminum Alloy 5000 series)	Steel (1020 Carbon Steel)	Stainless Steel (304 Stainless Steel)	D ₁	Round Hole + Tap	Keyway + Tap																		
Crowned Type ROBAWC ROBMWC ROBSWC	30	30	8	N8	110-510	0.3	0.5	7.0-15.0	5.0-12.0	2.0-4.5	25	15	15.8	18	22	M4	M3																			
																		10	N10, NK10																	
																		12	N12																	
																		10	N10																	
																		12	N12																	
																		15	N15																	
	40	40	12	N12	0.5	0.8	4.0-6.0	17	18.7	20	33	M4	M3	M4	M4	M4	M4																			
																		15	N15																	
																		20	N20																	
																		Crosspiece Groove Straight Type ROBAWM ROBMWM ROBSWM	50	20	N20	0.8	1.0	4.0-6.0	17	18.7	20	33	M4	M3	M4	M4	M4	M4		
																																			25	N25
																																			25	N25
(60)	60	25	N25	0.8	1.2	4.0-7.0	17	18.7	20	33	M4	M3	M4	M4	M4	M4																				
																	30	N30																		
																	(80)	80	30	N30	0.8	1.2	4.0-7.0	17	18.7	20	33	M4	M3	M4	M4	M4	M4			
																																		25	N25	
																																		35	N35	

Ⓢ When D=(60) or (80), only available in Aluminum(Aluminum Alloy 5000 series). Ⓢ V-Groove Straight D=30 or 35 are available only in Aluminum(Aluminum Alloy 5000 series).
Ⓢ 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=110-510)

Straight / Crowned / Crosspiece Groove Straight

Flat Belts / Round Belts / Pulleys / Idlers

Idlers for Flat Belts – Width L=110-500

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	—

6.3/(1.6/)

Straight Type
ROFAWC, ROFMWC, ROFSWC

Crowned Type
ROFAWT, ROFMWT, ROFSWT

Crosspiece Groove Straight Type
ROFAWM, ROFMWM, ROFSWM

Ⓢ X≥Y
*1 Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.

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

Type	D	d	1 mm Increment L	H	0.1 mm Increment			d ₁			Bearing Dimension						
					X	Y	Z	Aluminum Alloy (Aluminum Alloy 5000 series)	Steel (1020 Carbon Steel)	Stainless Steel (304 Stainless Steel)	No.	D ₁	B				
Straight Type ROFAWC ROFMWC ROFSWC	30	30	110-510	0.3	7.0-15.0	5.0-12.0	2.0-4.5	15	15.8	18	22	M4	M3	M3	M3	M3	
																	8A*
																	10
																	12
																	10
																	12
	40	40	40	0.5	4.0-6.0	17	18.1	18	27	M4	M3	M4	M3	M4	M4	M4	
																	15
																	10
																	12
																	15
																	20
Crowned Type ROFAWT ROFMWT ROFSWT	35	35	0.5	4.0-6.0	17	18.7	20	33	M4	M3	M4	M3	M4	M4	M4		
																12	
																15	
																20	
																10	
																12	
Crosspiece Groove Straight Type ROFAWM ROFMWM ROFSWM	50	50	0.8	4.0-6.0	22	22.7	22	40	M5	M6	M5	M6	M5	M6	M6		
																17	
																22	
																17	
																22	
																27	
	(60)	60	60	0.8	4.0-7.0	17	18.7	20	33	M4	M3	M4	M3	M4	M4	M4	
																	15
																	20
																	25
																	30
																	32
(80)	80	80	0.8	4.0-7.0	17	18.7	20	33	M4	M3	M4	M3	M4	M4	M4		
																25	
																30	
																35	
																25	
																30	

Ⓢ *When D=30 and d=8A, only available in Steel or Stainless Steel. Ⓢ When D=(60) or (80), only available in Aluminum (Aluminum Alloy 5000 series).
Ⓢ 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