

# Pulleys for Round Belts

## Set Screw Type

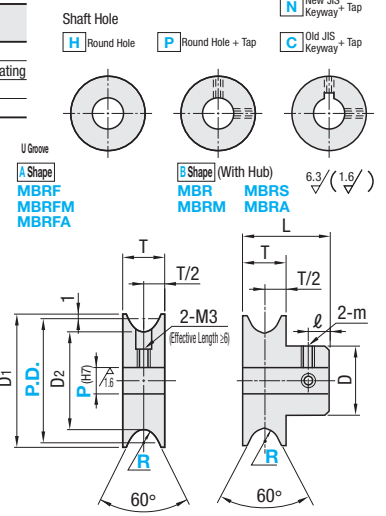
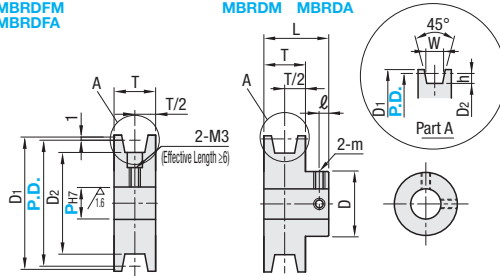


Trapezoid Groove		U Groove		Material	Surface Treatment
Shape A	Shape B	Shape A	Shape B		
MBRDF	MBRD	MBRF	MBR	S45C	Black Oxide
MBRDFM	MBRDM	MBRFM	MBRM	Equivalent	Electroless Nickel Plating
-	MBRDS	-	MBRS	SUS304	-
MBRDFA	MBRDA	MBRFA	MBRA	Aluminum Alloy	Clear Anodize

### Trapezoid Groove

**A Shape**  
MBRDF  
MBRDFM  
MBRDFA

**B Shape (With Hub)**  
MBRD  
MBRDM  
MBRDA



- Trapezoid grooves suppress slipping of round belts. See the next page for details.
- Set screws are not included. See P.211.
- For keyway dimensions, see P.1377.

RoHS10

Part Number	Belt Radius R	Shaft Bore Specification, I.D.	Selection		D1	D2	h	W	T	L	ℓ	D	m	Applicable Belt Dia.	Unit Price									
			1mm Increment	N (New JIS)											C (Old JIS)	MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
Trapezoid Groove A Shape MBRDF MBRDFM MBRDFA B Shape MBRD MBRDM MBRDS MBRDA	1	4-7	-	-	17	13	1	2.2	5	11	3	12	M3	2	MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA		
					22	18									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA		
					32	28									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA		
					42	38									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA		
	1.5	4-12	8, 10, NK10	-	-	22	17	1.5	3.3	10	16	3	20	M3	3	MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						32	27									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						42	37									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						47	42									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
	2	5-12	8, 10, NK10	-	-	20	14	2	4.4	10	16	3	20	M3	4	MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						30	24									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						32	26									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						42	36									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
	2.5	5-20	8-20 (8-15) NK10	10	-	50	44	2.5	5.5	10	20	5	25	M4	5	MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
						62	56									MBRDF	MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA	
82						76	MBRDF									MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA		
30						23	MBRDF									MBRDFM	MBRDFM	MBRDFM	MBRDM	MBRDM	MBRDS	MBRDA		
U Groove A Shape MBRF MBRFM MBRFA B Shape MBR MBRM MBRS MBRA	3	5-12	8, 10, NK10	-	-	3	6.6	10	20	5	25	M4	6	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA			
														40	32	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA	
														50	42	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA	
														60	52	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA	
	4	5-20	8-20 NK10	10	-	-	4	8.8	12	24	6	30	M4 (M5) *1	8	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA		
															82	72	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA
															102	92	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA
															122	112	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA
	5	5-20	8-20 NK10	10	-	-	5	11	15	27	6	30	M4 (M5) *1	10	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA		
															82	70	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA
															102	90	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA
															122	110	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA
	140	130	MBRF	MBRFM	MBRFM	MBRFM	MBRM	MBRM	MBRS	MBRA														

- Shaft Hole Dia. 6.35 is available for Shaft Hole Specification H and P. Values in ( ) are for Shape B.
- Shaft Hole Dia. 9 is not available for Shaft Hole Specification N.
- Sizes with \* will be B Shapes only. \*1 When shaft diameter is 15mm or more, set screw size is (M5).
- For keyway dimensions, see P.1377.
- Specify NK10 when Keyway + Tap with shaft bore dia. 10 and keyway width 4.0mm (height 1.8mm) is desired.

Ordering Example: Part Number - Belt Radius - R - Shaft Bore Specification, I.D.  
 MBRDF30 - 1.5 - H5  
 MBR60 - 2 - N12



Alterations

Part Number - Belt Radius - R - Shaft Bore Specification, I.D. - (DC)  
 MBRD40 - 1.5 - H6 - DC

Alteration Code	O.D. Cut											
	DC	DC										
Spec.	Reduces D1 diameter by cutting.											
	Ordering Code: DC											
	<table border="1"> <thead> <tr> <th>Belt Radius R</th> <th>Applicable DC</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P.D.+0.8</td> </tr> <tr> <td>1.5</td> <td>P.D.+1.2</td> </tr> <tr> <td>2</td> <td>P.D.+1.6</td> </tr> <tr> <td>2.5</td> <td>P.D.+1.8</td> </tr> </tbody> </table>		Belt Radius R	Applicable DC	1	P.D.+0.8	1.5	P.D.+1.2	2	P.D.+1.6	2.5	P.D.+1.8
	Belt Radius R	Applicable DC										
1	P.D.+0.8											
1.5	P.D.+1.2											
2	P.D.+1.6											
2.5	P.D.+1.8											
<ul style="list-style-type: none"> <li>Applicable to corresponding belt radius R 1, 1.5, 2, 2.5 only.</li> <li>Surface treatment may not be applied to the machined area.</li> </ul>												