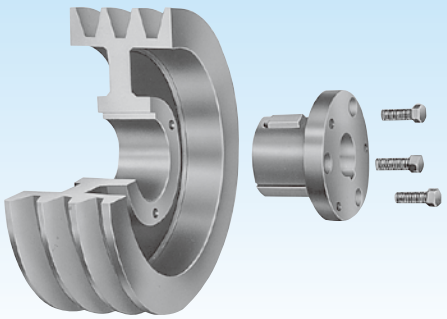


MAXSTAR WEDGE Bushing Pulley

For all wedge pulleys, we adopt a "bushing system" for easy attachment and removal from the shaft with one spanner.

- Long shaft life as it does not damage the shaft and shaft hole
- No need for additional processing of the shaft hole
- Easy centering and smooth positional change of rotating body such as the pulley
- Possible weight reduction of pulley as small bore width can be applied

Bushing Pulley Product Code

450 — 5V — 3 — R1

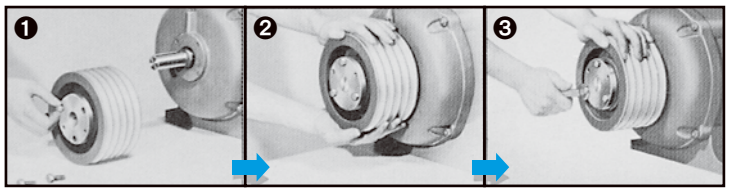
- 450: Pulley Diameter
- 5V: Belt Type
- 3: No. of Grooves
- R1: Bushing Type

Application chart for MB Bushing on MAXSTAR WEDGE Pulley

Belt Type	3V						Belt Type	5V							Belt Type	8V			
Standard Pulley Diameter/Diameter Code(mm)	No.of Grooves						Standard Pulley Diameter/Diameter Code(mm)	No.of Grooves							Standard Pulley Diameter/Diameter Code(mm)	No.of Grooves			
	1	2	3	4	5	6		2	3	4	5	6	8	10		4	6	8	10
67							150								300	*	*		
71			G				160								315				*
75							170		Q1						335				*
80							180					Q2	*		355				*
85							190						*		375	S1		U1	*
90		H					200							*	400				*
95							212							*	425				*
100							224						R2	*	450				*
112							236						S1	*	475				*
125		P1					250			R1				*	500	U0			*
140							265								560				*
150							280						S1	*	630				*
160							300								710				*
180	P1			Q1			315							*	800				*
200							355							*	1000			W1	*
250							400					S1		*	1250	*			*
315							450							*	1600			*	*
400	*	*					500							*			*	*	
500	*	*			R1		630							*					
630		*	*	*	*	*	800						U1	*					
							1000							*					
							1250		*	*	U0	*	*	*					

* mark signifies nonstocked item

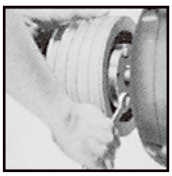
● How to mount onto the shaft



❶ Place the bushing in the pulley and loosen bolts by hand

❷ Attach the bushing pulley onto the shaft (it should fit smoothly.)

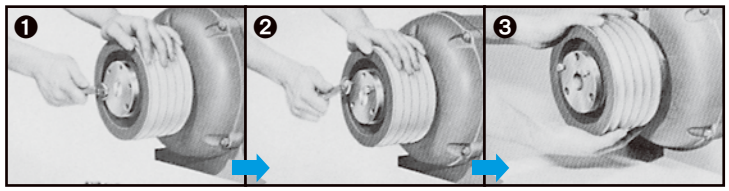
❸ Fasten tight with tightening bolts and fitting is completed.



Mounting bushing pulley is easy even from the opposite side.

1 Fasten bolts evenly
2 Wear protective gear such as gloves while mounting and removing the pulley. Also, before starting any work, switch off the power and ensure that machine is completely stopped.

● How to detach from the shaft



❶ Remove tightening bolts

❷ Screw the bolts into the taps for flange removal

❸ Remove the bushing pulley from the shaft

● Bolt Tightening Torque

Bolt Diameter	Bushing Type	Maximum Tightening Torque
M 6	G・H	9.8 N·m
M 8	P1	18.6 N·m
M10	Q1・Q2・R1・R2	32.3 N·m
M12	S1	69.6 N·m
M16	U0・U1	138.2 N·m
M20	W1	240.1 N·m

Number of Required Belts and Pulley Width

(Unit: mm)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3V・3VX	18	28	38	49	59	69	80	90	100	111	121	131	141	152	162	172	183	193
5V・5VX	26	43	61	78	96	113	131	148	166	183	201	218	236	253	271	288	306	323
8V	38	67	96	124	153	181	210	239	267	296	324	353	382	410	439	467	496	525

● Pulley width can be derived from e x (no. of belts − 1) + 2f.

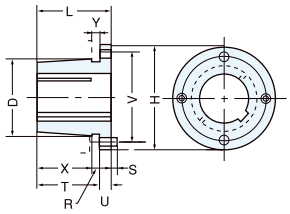
MB Bushing Size Table

(Unit: mm)

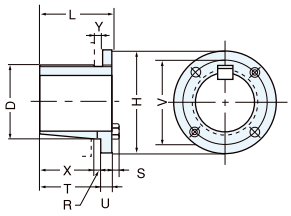
Bushing Type	Sizes											Shaft Hole Diameter		Bolt		Mass (Average) kg
	L	U	T	D		H	V	W	X	Y	R	S	Type 1	Type 2	No.	Type 2	
				Outer Diameter	Inner Diameter												
G	25.4	6.3	19.1	29.769	28.775	50.1	39.7	—	15.9	4.8	3.2	4	10 − 20	22 − 25	2	M 6×16	0.23
H	31.7	6.3	25.4	41.275	39.888	63.2	50.8	—	22.2	4.8	3.2	4	20 − 30	32 − 38	2	M 6×20	0.34
P1	49.2	10.3	38.9	49.213	47.132	76.2	61.9	10	33.3	5.6	5.6	5.5	20 − 35	38 − 42	3	M 8×25	0.57
Q1	63.5	13.5	50.0	73.025	70.250	104.8	85.7	12	44.4	5.6	5.6	7	20 − 50	55 − 65	3	M10×35	1.6
Q2	88.9	13.5	75.4	73.025	68.662	104.8	85.7	12	69.8	5.6	5.6	7	28 − 50	55 − 65	3	M10×35	2.0
R1	73.0	15.9	57.1	101.600	98.425	136.5	117.5	20	50.8	6.3	6.3	7	30 − 70	75 − 95	3	M10×40	3.4
R2	123.8	15.9	107.9	101.600	95.250	136.5	117.5	20	101.6	6.3	6.3	7	38 − 70	75 − 90	3	M10×40	5.0
S1	111.1	19.1	92.0	117.425	112.219	161.7	136.5	20	84.1	7.9	7.9	8	48 − 80	85 − 100	3	M12×50	6.1
U0	125.4	19.1	106.3	152.400	146.450	212.5	117.8	32	95.2	11.1	11.1	10	65 − 100	110 − 130	3	M16×65	12
U1	181.0	27.0	154.0	152.400	143.469	212.5	117.8	32	142.9	11.1	11.1	10	65 − 100	110 − 130	3	M16×65	18
W1	209.5	36.5	173.0	215.900	205.781	317.4	254.0	32	161.9	11.1	11.1	13	90 − 150	160 − 190	4	M20×80	47

G, H Bushing

Type 1

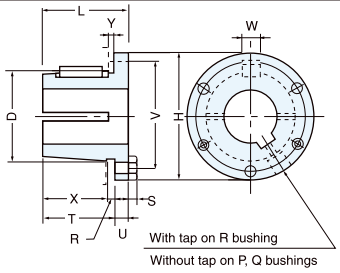


Type 2

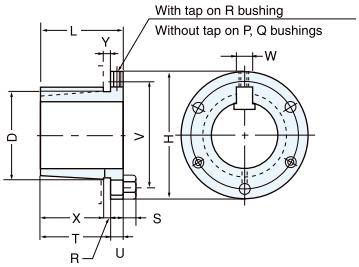


P1, Q1,Q2,R1,R2 Bushing

Type 1

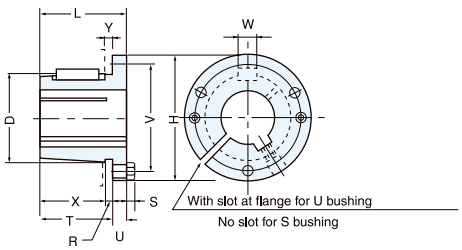


Type 2

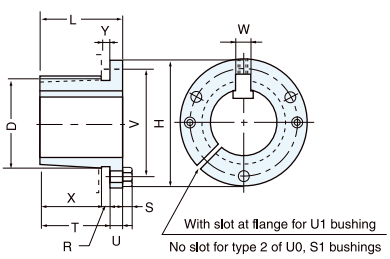


S1, U0, U1 Bushing

Type 1

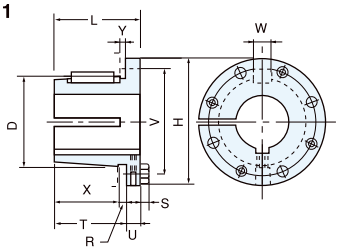


Type 2



W1 Bushing

Type 1



Type 2