

Resin Pushers

L Dimension Fixed / Shape Selectable, L Dimension Configurable Type

Resin Pushers – L Dimension Fixed Type

RoHS10

Type	Material	Color	Thread
JPHJ	Polyacetal	White	Thread Insert (304 Stainless Steel)
JPHM	MC Nylon Conductive CDR2	Black	
JPHMC	MC Nylon	Blue	

Ⓢ For properties of MC nylon and polyacetal, refer to P.3067

Part Number	D	M Selection	L	R ₁	ℓ	W
JPHJ JPHM JPHMC	8	3 4	12	1	8	7
	10	3 4 5	15			
	12	4 5 6	16			
	15	5 6 8S 8	20			
	16	6 8S 8	25	2	10	14
	18	6 8S 8 10S 10 12S 12				
	20	8S 8 10S 10 12S 12 12M				
	30	10S 10 12S 12 12M 14S 18S	35	3	15	27
	40	10S 10 12S 12 12M 14S 18S				

Ⓢ 8S, 10S, 12, 12S, 14S and 18S are fine thread pitch. For thread details, refer to information at the bottom of this page. Ⓜ 12M is course thread pitch.

Part Number Example

Part Number - M
JPHJ10 - 4

Resin Pushers – Shape Selectable, L Dimension Configurable Type

RoHS10

Type	Material	Color	Thread
JPFJ	Polyacetal	White	Thread Insert (304 Stainless Steel)
JPFM	MC Nylon Conductive CDR2	Black	
JPFMC	MC Nylon	Blue	

Ⓢ For properties of MC nylon and polyacetal, refer to P.3067

Part Number	Type	Shape	D	L Specify in 1 mm Increment	M Selection	Only Tapered Type		R	ℓ	W				
						E 0.5mm Increment	A 1° Increment							
JPFJ Polyacetal	F	R	6	10 (17)–50	3	5.0±E E≤Mx3	1–45°	1	8	5				
			8	12 (19)–50	3 4						7			
			10	15 (22)–50	3 4 5						8			
			12	16 (27)–100	4 5 6						10			
			15	20 (35)–100	5 6 8S 8						14			
			16		6 8S 8									
			JPFM MC Nylon Conductive CDR2	R	Q						18	25 (40)–100	6 8S 8 10S 10	17
											20		8S 8 10S 10 12S 12 12M	
											30		10S 10 12S 12 12M 14S 18S	
											40		10S 10 12S 12 12M 14S 18S	

Ⓢ Dimensions in () are the minimum L dimensions when shape Q is selected. Ⓢ 8S, 10S, 12, 12S, 14S and 18S are fine thread pitch. For thread details, refer to the table below. Ⓜ 12M is course thread pitch.

Part Number Example

Part Number - L - M - E - A
JPFJ - R - 12 - 40 - 6

Thread

M	M x Pitch
3	M3 x 0.5
4	M4 x 0.7
5	M5 x 0.8
6	M6 x 1.0
8S	M8 x 1.0
8	M8 x 1.25
10S	M10 x 1.25
10	M10 x 1.5
12S	M12 x 1.25
12	M12 x 1.5
12M	M12 x 1.75
14S	M14 x 1.5
18S	M18 x 1.5

Metal Pushers / Urethane Caps

Metal Pushers

RoHS10

Type	Type				Material	Surface Treatment	Hardness
	Flat Type		Spherical Type				
	Tapped	Threaded	Tapped	Threaded			
KPHF	KPMF	KPHR	KPMR	1045 Carbon Steel or Equivalent	Black Oxide	Induction Hardened and Tempered 45–50 HRC min.	
KPHFS	—	KPHRS	—	420 Stainless Steel	—		

Tapped Type Ⓢ KPHFS and KPHRS (420 Stainless Steel) may discolor due to being Hardened.

Part Number	D	L 1 mm Increment		M Selection	ℓ	W	Thread				
		Flat Type	Spherical Type				M	M x Pitch	F		
Flat Type KPHF KPHFS	6	15–50	17–50	3	8	5	3	M3 x 0.5	5.5		
	8	17–50	20–50	3 4			7				
	10	19–50	23–50	3 4 5			8				
	12	21–100	26–100	4 5 6			10				
	15	23–100	30–100	5 6 8S 8			14				
	16			6 8S 8 10S 10 12S 12 12M							
Spherical Type KPHR KPHRS	18	26–100	34–100	6 8S 8 10S 10 12S 12 12M	10	17	6	M6 x 1.0	11		
	20	28–100	37–100	8S 8 10S 10 12S 12 12M			8S	M8 x 1.0	12		
	30	36–100	50–100	10S 10 12S 12 12M 14S 18S			8	M8 x 1.25	12		
	40	41–150	60–100	10S 10 12S 12 12M 14S 18S			15	27	10S	M10 x 1.25	14
							20	37	10	M10 x 1.5	16
									12S	M12 x 1.25	16

Ⓢ Mx2.5+5≤L is required for Tapped Type. Ⓢ 8S, 10S, 12, 12S, 14S and 18S are fine thread pitch. For thread details, refer to information to the right. Ⓜ 12M is course thread pitch.

Threaded Stud Type

Part Number	D	L 1 mm Increment		M Selection	ℓ	W	Thread				
		Flat Type	Spherical Type				M	M x Pitch	F		
Flat Type KPMF	6	15–50	17–50	3 4 5	8	5	3	M3 x 0.5	5.5		
	8	17–50	20–50	4 5 6			7				
	10	19–50	23–50	5 6 8S 8			8				
	12	21–100	26–100	6 8S 8 10S 10			10				
	15	23–100	30–100	8S 8 10S 10 12S 12 12M			14				
	16			8S 8 10S 10 12S 12 12M							
Spherical Type KPMR	18	26–100	34–100	10S 10 12S 12 12M 16	10	17	18	M18 x 2.0	20		
	20	28–100	37–100	10S 10 12S 12 12M 16			16	M16 x 1.5	18		
	25	36–100	55–100	16 18 20			15	22	18S	M18 x 1.5	22
	30			16 18 20			27	20	M20 x 2.5	25	

Ⓢ 8S, 10S, 12, 12S are fine thread pitch. For thread details, refer to information to the right. Ⓜ 12M is course thread pitch.

Part Number Example

Part Number - L - M
KPHF10 - 20 - 5
KPMF18 - 40 - 12S

Urethane Caps

RoHS10

Type	Hardness	Material
URCPH	Shore A90	Ether Polyurethane
URCP	Shore A70	Ester Polyurethane
URCPL	Shore A50	

Ⓢ For urethane rubber properties, refer to P.2566

Material: Polyurethane Shore A70

Part Number	Type	D	T	L		D ₁	d	(Y)			
				5	8						
URCPH URCP URCPL		3	3	5*	8	8	1	Y=T+L			
		4	3	10	15						
		5	3	10*	15						
		6	3	5	10	15			12		
				6	10	15					
				8	10*	15					
		8	3	5	10	15			15		
				6	10	15					
				10	10	15					
		10	3	5	15*	20			20		
				6	15*	20					
				7	15	20					
		12	5	7	15	20			25		
				13	5	7				15	20
				16	5	7				15	20
20	5	7	20*	25	25						
		25	20	25		30					
		30	7	10		20	25	35			
35	10	7	20	25	40						
		10	20	25		40					

Ⓢ URCPH and URCPL can only choose * marked dimensions. Ⓢ Urethane may discolor over time but there is no effect on properties. Ⓢ The Urethane Cap hole diameter is designed to fit the tolerances of MISUMI Linear Shafts.

Application Example

Part Number Example

Part Number - T - L
URCP6 - 5 - 10