

Stepped / Insulating / Resin Dowel Pins

Standard / With Tapped Hole

Stepped Dowel Pins – Standard / Tapped Hole

MSFW MSFWC Stainless Steel

MSFWM With Tapped Hole MSFWM Stainless Steel with Tapped Hole

Type	Material	Hardness
MSFW MSFWM	52100 Bearing Steel	58 HRC min.
MSFWC MSFWM	440C Stainless Steel	

Part Number	Type	D	L	M x P	ℓ	d	dL
MSFW MSFWC Stainless Steel	MSFW MSFWM	5	15	—	—	4	5
		6	20	—	—	5	10
MSFWM With Tapped Hole	MSFWM	8	25	3 x 0.5	6	5	10
		10	35	4 x 0.7	8	6	15
MSFWM Stainless Steel with Tapped Hole	MSFWM	13	40	5 x 0.8	—	8	15
		13	45	—	—	8	20
		13	55	6 x 1.0	10	10	25
		13	70	—	—	10	30

Part Number Example

Part Number: MSFW10 - L: 35

Application Example

Insulating Dowel Pins

Type	Material Body	Core Rods
MSIP	Fabric Base Bakelite	304 Stainless Steel

ⓘ Properties of Bakelite P.3607

Part Number	Type	d	D Tolerance	D	L									
MSIP		6	+0.03 0	3	8	10	15	20	25	30	35	40	45	50
		8			10	15	20	25	30	35	40	45	50	
		9			15	20	25	30	35	40	45	50		
		10			15	20	25	30	35	40	45	50		
		12			20	25	30	35	40	45	50			
		12			20	25	30	35	40	45	50			

ⓘ The D dimension tolerance is the result of measurement at room temperature (20°C).

Part Number Example

Part Number: MSIP6 - L: 30

Resin Dowel Pins

Type	Material Body
MSIPJ	Polycarbonate

ⓘ Properties of Polycarbonate P.3072

Material	d	Static Yield Load (kN)
Polycarbonate	3	0.4
	4	0.6
	5	1.1
	6	1.4
	8	2.1

Static Shear Failure Data

Part Number	Type	D	D Tolerance	ℓ	L			
MSIPJ		3	+0.03 0	1.0	10	15	20	25
		4			10	15	20	25
		5			10	15	20	25
		6			10	15	20	25
		8		2.0	15	20	25	

ⓘ The D dimension tolerance is the result of measurement at room temperature (20°C).

Part Number Example

Part Number: MSIPJ6 - L: 25

Spring Pins

Spring Pins

RoHS 10

SSPR

SSPSR Stainless Steel

Type	Material	Hardness
SSPR	Spring Steel	45-50 HRC min.
SSPSR	Spring Stainless Steel Alloy	42-48 HRC min.

L	L Tolerance
5-10	+0.5 0
12-50	+1.0 0
56-100	+1.5 0

Part Number	Type	D	*kN		t (Reference)		D	
			SSPR	SSPSR	SSPR	SSPSR	min	max
SSPR (D2-10)		2	2.76	2.76	0.4	0.4	2.15	2.25
		3	6.2	6.2	0.6	0.6	3.15	3.25
		4	10.8	10.8	0.8	0.8	4.2	4.4
		5	17.25	17.25	1	1	5.2	5.4
SSPSR (D2-6)		6	24.83	24.83	1.2	1.2	6.2	6.4
		8	44.13	—	1.6	—	8.3	8.6
		10	68.94	—	2	—	10.3	10.6

ⓘ Maximum value of D is the maximum value on the pin's circumference and the minimum value for D is the average of D₁ / D₂ / D₃.
 Reference: t conforms to JSMA No.6 (Japan Spring Manufacturers Association Standard)
 *kN=Minimum Double Shearing Load
 ⓘ The mounting hole diameter for spring pins should be the same as the nominal diameter of the spring pin, with a mounting hole dimension tolerance of H12 as specified in JIS B0401-1.

Part Number	Type	D	L
SSPR Stainless Steel		2	5
			6
			8
			10
			12
			14
			16
			18
			20
			22
			25
			28
SSPSR Stainless Steel		4	8
			10
			12
			14
			16
			18
			20
			22
			25
			28
			32
			SSPR Stainless Steel
8			
10			
12			
14			
16			
18			
20			
22			
25			
28			
32			
SSPSR Stainless Steel		5	10
			12
			14
			16
			18
			20
			22
			25
			28
			32
			36
			SSPR
14			
16			
18			
20			
22			
25			
28			
32			
36			
40			
SSPR		8	
			18
			20
			22
			25
			28
			32
			36
			40
			45
			50
			SSPR
20			
22			
25			
28			
32			
36			
40			
45			
50			
56			
63			
70			
80			
90			
100			

ⓘ Dimensions not listed are not standardized.

Part Number Example

Part Number: SSPR5 - 40