

# Dowel Pins

Undersized

**MSH MSHS**

**Dowel Pin Straight (h7)**

Type	Material	Hardness
MSH	440C or 420 Stainless Steel	45-50 HRC min.
MSHS	304 Stainless Steel	—

ℓ <sub>1</sub>	D <sub>h7</sub>	Part Number		L													
		Type	D														
0.4	0	MSH	1	5	6	8	10										
				1.5	5	6	8	10									
0.6	-0.01		2	5	6	8	10	12	15	20							
				2.5	6	8	10	12	15	20	25	30					
1.0	-0.012		3	6	8	10	12	15	20	25	30	35	40				
				4	8	10	12	15	20	25	30	35	40	45	50		
1.5	0		5	8	10	12	15	20	25	30	35	40	45	50			
				6	8	10	12	15	20	25	30	35	40	45	50	55	60
2.0	-0.015		8	10	12	15	20	25	30	35	40	50	60				
				10	15	20	25	30	35	40	50	60					

ℓ <sub>1</sub>	D <sub>h7</sub>	Part Number		L											
		Type	d												
0.3	0	MSHS	0.9	5	6	8	10								
0.4			1	5	6	8	10	12							
0.6			-0.01	1.5	5	6	8	10	12						
					2	5	6	8	10	12	15	18	20		
1.0			-0.012	2.5	6	8	10	12	15						
					3	6	8	10	12	15	18	20			
1.5			0	4	8	10	12	15	18	20					
					5	8	10	12	15	18	20				
2.0			-0.015	6	10	12	15	18	20						
					8	15	18	20							

Ⓢ The identification groove is available for MSH only. Ⓢ Ⓢ Ⓢ 0.1.5 or smaller pins have no identification groove. Ⓢ Ⓢ Ⓢ ℓ<sub>1</sub> dimension may become larger than the value shown in the catalog due to polishing process.

**MSGB MSGS MSGSS**

**General Purpose Pin - Straight (g6)**

Type	Material	Hardness
MSGB	52100 Bearing Steel	58 HRC min.
MSGS	440C Stainless Steel	58 HRC min.
MSGSS	304 Stainless Steel	—

ℓ <sub>1</sub>	D <sub>g6</sub>	Part Number		L											
		Type	D												
1.0	-0.002 -0.008	MSGB MSGS MSGSS	2	6	8	10	12	15							
				3	6	8	10	12	15	20					
1.5	-0.004 -0.012		4	8	10	12	15	20							
				5	8	10	12	15	20						
2.0	-0.005 -0.014		6	(8)	10	12	15	20							
				8	(10)	(12)	15	20	(25)						

Ⓢ ℓ<sub>1</sub> dimension may become larger than the value shown in the catalog due to polishing process.

Part Number Example

Part Number	-	L
MSH2	-	6
MSGB3	-	12

# Dowel Pins

Undersized, continued

**MSHHM MSHSM**

**Dowel Pin Chamfered**

Type	Material	Hardness
MSHHM	440C Stainless Steel	58 HRC min.
MSHSM	304 Stainless Steel	—

C	D <sub>h7</sub>	Part Number		L											
		Type	D												
0.3 or Less	0 -0.01	MSHHM	2	6	8	10	12	15	20						
				3	6	8	10	12	15	20					
0.5	0 -0.012		4	8	10	12	15	20							
				5	8	10	12	15	20						
0.3 or Less	0 -0.015		6	10	12	15	20								
				8	15	20									
0.3 or Less	0 -0.01		MSHSM	2	6	8	10	12	15						
					3	6	8	10	12	15	20				
0.5	0 -0.012			4	8	10	12	15	20						
					5	8	10	12	15	20					
0.3 or Less	0 -0.015			6	10	12	15	20							
					8	15	20								

**MSHT**

**Dowel Pin One End Tapped (h7)**

Type	Material	Hardness
MSHT	440C Stainless Steel	40-50 HRC min.

ℓ <sub>1</sub>	ℓ <sub>2</sub>	M x P	ℓ	D <sub>g6</sub>	Part Number		L											
					Type	D												
1.5	0.3	3 x 0.5	6	-0.012	MSHT	5	10	15	20	25	30							
							6	10	15	20	25	30	35	40	45	50		
2.0	0.5	4 x 0.7	*8	-0.015		8	15	20	25	30	35	40	45	50				
							5 x 0.8	15	20	25	30	35	40	45	50			
2.5	1.0	6 x 1.0	10	-0.018		10	15	20	25	30	35	40	45	50				
							12	30	35	40	45	50						

Ⓢ When D=5 or 6 and L=10, the pilot hole for tapping may go through. Ⓢ \*ℓ=6 only when D=6 and L=10 Ⓢ No air vent.

**MSTG MSTSG**

**General Purpose Pin One End Tapped (g6)**

Type	Material	Hardness
MSTG	52100 Bearing Steel	45-50 HRC min.
MSTSG	440C Stainless Steel	45-50 HRC min.

ℓ <sub>1</sub>	ℓ <sub>2</sub>	M x P	ℓ	D <sub>g6</sub>	Part Number		L											
					Type	D												
1.5	0.3	3 x 0.5	6	-0.004 -0.012	MSTG	5	10	15	20									
							6	10	15	20	25	30						
2.0	0.3	4 x 0.7	8	-0.005 -0.014		8	15	20	25	30	35	40						
							10	20	25	30	35	40						
2.5	0.5	6 x 1.0	10	-0.006 -0.017		12	30	35	40	45								
							1.5	0.3	3 x 0.5	6	-0.004 -0.012	MSTSG	5	10	15	20		
2.0	0.3	4 x 0.7	8	-0.005 -0.014		6	10	15	20	25	30							
							2.0	0.5	5 x 0.8	8	8		15	20	25	30	40	
2.5	0.5	6 x 1.0	10	10		20							25	30	40			

Ⓢ ℓ<sub>1</sub> and ℓ<sub>2</sub> dimension may become larger than the value shown in the catalog due to polishing process.

Part Number Example

Part Number	-	L
MSHHM2	-	10
MSHT10	-	50
MSTG12	-	30