Dowel Pins / Dowel Removal Jigs

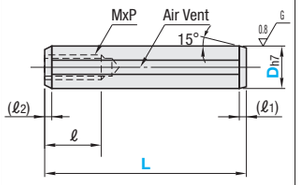
Undersized

Dowel Pin One End Tapped (h7)

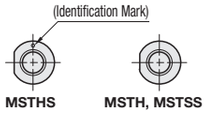
RoHS10

Type	M Material	H Hardness
MSTH	EN 1.3505 Equiv.	45~50HRC
MSTHS	EN 1.4125 Equiv.	45~50HRC
MSTSS	EN 1.4301 Equiv.	-

MSTH MSTHS MSTSS

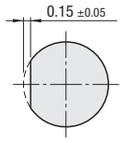


When D=5 or 6 and L=10, the pilot hole for tapping may go through.
* ℓ=6 only when D=6 and L=10
With an air vent.



Air Vent Depth

All air vents are identical in depth.
Applicable Products: **MSTH, MSTHS, MSTSS**



ℓ1, ℓ2 dimension may become larger than the value shown in the catalog due to polishing process.

ℓ1	ℓ2	M x P	ℓ	Dh7	Part Number Type	D	L	Unit Price 1~299	Volume Discount Rate 300~500
1.5	0.3	3 x 0.5	6	0 -0.012	MSTH	5	10 15 20 25 30		
		4 x 0.7				6	10 15 20 25 30 35 40 50		
2.0		5 x 0.8	*8	0 -0.015		8	15 20 25 30 35 40 45 50 60 70 80		
2.5	0.5	6 x 1.0	10			10	15 20 25 30 35 40 45 50 60 70 80 100 120		
	1.0			0 -0.018		12	20 30 40 50 60 70 80 100 120		
		8 x 1.25	15			13	40 50 60 70 80 100 120		
3.0	1.5					16	40 50 60 70 80 100 120 150		

For orders larger than indicated quantity, please check with WOS.

ℓ1	ℓ2	MxP	ℓ	Dh7	Part Number Type	D	L	Unit Price 1 ~ 19 pc(s).	Volume Discount Rate 20~29	30~49	50~100
1.5	0.3	3x0.5	6	0 -0.012	MSTHS	5	10 15 20				
2.0		4x0.7	8			6	10 15 20 25 30				
	0.5	5x0.8		0 -0.015		8	15 20 25 30 35 40				
2.5		6x1.0	10			10	30 35 40 45				

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ℓ1	ℓ2	MxP	ℓ	Dh7	Part Number Type	D	L	Unit Price 1 ~ 19 pc(s).	Volume Discount Rate 20~29	30~49	50~100
1.5	0.3	3x0.5	6	0 -0.012	MSTSS	5	10 15 20				
2.0		4x0.7	8			6	10 15 20 25 30				
	0.5	5x0.8		0 -0.015		8	15 20 25 30 35 40				
2.5		6x1.0	10			10	30 35 40 45				

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For orders larger than indicated quantity, please check with WOS. P.99

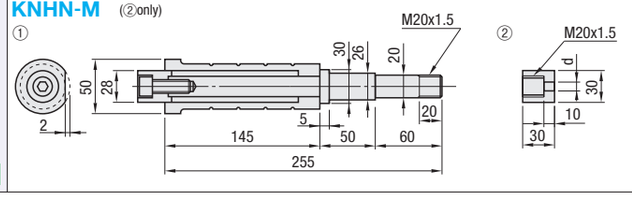
Ordering Example

Part Number	-	L
MSTHS6	-	10

Dowel Removal Jigs

RoHS10

KNHN (①Main Body + ②Holder Cap 1pc.)
KNHN-M (②only)



①Main Body
M Material: EN 1.1191 Equiv.
H Hardness: 38 ~ 42HRC
②Holder Cap
For M4, M5, M6, M8, M10

Part Number	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
KNHN (①+②)		

d	Part Number Type	No.	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
4.2	KNHN-M (②only)	4		
5.2		5		
6.3		6		
8.5		8		
10.5		10		

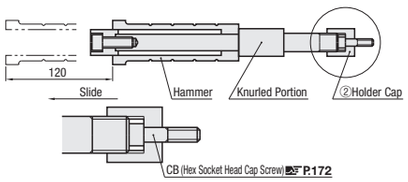
For orders larger than indicated quantity, please check with WOS.

Ordering Example

Part Number
KNHN
KNHN - M5

How to Use

1. Insert the hex socket head cap screw (CB) into the holder cap.
2. Attach ② holder cap to the tip of main body.
3. Attach screw tip onto the dowel pin by turning the knurled portion of shaft.
4. Slide the hammer to remove dowel pin.



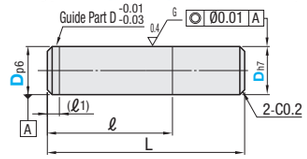
Dual-Fit Dowel Pins

p6-h7 p6-g6 / Hollow, Tapped

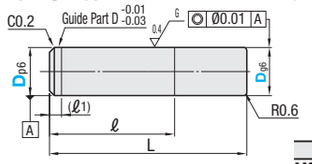
ℓ1 dimension may become larger than the value shown in the catalog due to polishing process.

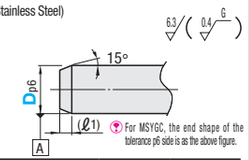
Dual-Fit Dowel Pins

p6–h7 Type MSY MSYC (Stainless Steel)



p6–g6 Type MSYG MSYGC (Stainless Steel)





For MSYGC, the end shape of the tolerance p6 side is as the above figure.

Type	M Material	H Hardness
MSY MSYG	EN 1.3505 Equiv.	58HRC~
MSYC MSYGC	EN 1.4125 Equiv.	

Part Number Type	D	D Tolerance p6	h7	No.	L	ℓ	ℓ1	MSY Unit Price 1 ~ 99 pc(s).	MSY Volume Discount Rate 100 ~ 1000 pcs.	MSYC Unit Price 1~99	MSYC Volume Discount Rate 100 ~ 1000 pcs.
MSY MSYC (Stainless Steel)	3	+0.012 +0.006	0 -0.010	803	8	3	1				
				8		4					
				805		5					
				1003	10	3					
				1005		5					
				10		7					
				12	12	6					
				15	15	10					
				20	20	13					
	4	+0.020 +0.012	0 -0.012	803	8	3	1.5				
				8		4					
				805		5					
				1005	10	5					
				10		7					
				1008		8					
				1205	12	5					
				12		6					
				1208		8					
				1508	15	8					
				15		10					
				1512		12					
				20	20	13					
	5			1003	10	3					
				1005		5					
				10		7					
				1205	12	5					
				12		6					
				1208		8					
				1508	15	8					
				15		10					
				1512		12					
				18	18	12					
				20	20	13					
	6			1005	10	5					
				10		7					
				1008		8					
				1205	12	5					
				12		6					
				1208		8					
				1508	15	8					
				15		10					
				1512		12					
				18	18	12					
				20	20	13					
	8	+0.024 +0.015	0 -0.015	18	18	12	2				
				20	20	13					
				25	25	16					
				30	30	19					
	10			18	18	12					
				25	25	16					
				30	30	19					
	12	+0.028 +0.018	0 -0.018	40	40	25					

For orders larger than indicated quantity, please check with WOS.

Part Number Type	D	D Tolerance p6	g6	No.	L	ℓ	ℓ1	MSYG Unit Price 1 ~ 99 pc(s).	MSYG Volume Discount Rate 100 ~ 1000 pcs.	MSYGC Unit Price 1 ~ 99 pc(s).	MSYGC Volume Discount Rate 100 ~ 1000 pcs.
MSYG MSYGC (Stainless Steel)	3	+0.012 +0.006	-0.002 -0.008	803	8	3	1				
				8		4					
				805		5					
				1003	10	3					
				1005		5					
				10		7					
				12	12	6					
				15	15	10					
				20	20	13					
	4	+0.020 +0.012	-0.004 -0.012	803	8	3	1.5				
				8		4					
				805		5					
				1005	10	5					
				10		7					
				1008		8					
				1205	12	5					
				12		6					
				1208		8					
				1508	15	8					
				15		10					
				1512		12					
				20	20	13					
	5			1003	10	3					
				1005		5					
				10		7					
				1205	12	5					
				12		6					
				1208		8					
				1508	15	8					
				15		10					
				1512		12					
				18	18	12					
				20	20	13					
	6			1005	10	5					
				10		7					
				1008		8					
				1205	12	5					
				12		6					
				1208		8					
				1508	15	8					
				15		10					
				1512		12					
				18	18	12					
				20	20	13					
	8	+0.024 +0.015	-0.005 -0.014	18	18	12	2				
				20	20	13					
				25	25	16					
				30	30	19					
	10			18	18	12					
				25	25	16					
				30	30	19					
	12	+0.028 +0.018	-0.006 -0.017	40	40	25					

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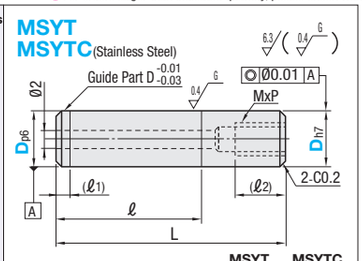
Dual-Fit Dowel Pins Hollow, Tapped

RoHS10

MSYT
MSYTC (Stainless Steel)



The end shape of the tolerance p6 side for MSYTC is same as that of MSYGC.

	MSYT	MSYTC
M Material:	EN 1.3505 Equiv.	EN 1.4125 Equiv.
H Hardness:	58HRC ~ 58HRC~	

ℓ1, ℓ2 dimension may become larger than the value shown in the catalog due to polishing process.

Ordering Example

Part Number	-	No.
MSY3	-	10
MSYG6	-	1208
MSYT8	-	18

Part Number Type	D	D Tolerance p6	h7	No.	MxP	L	ℓ	ℓ1	ℓ2	MSYT Unit Price 1 ~ 99 pc(s).	MSYT Volume Discount Rate 100 ~ 1000 pcs.	MSYTC Unit Price 1 ~ 99 pc(s).	MSYTC Volume Discount Rate 100 ~ 1000 pcs.
MSYT MSYTC (Stainless Steel)	6	+0.020 +0.012	0 -0.012	1205	4x0.7	12	5	1.5	5				
				12			6						
				1208			8						
				1508		15	8		8				
				15			10						
				1512			12						
				18		18	12						
				20		20	13						
	8	+0.024 +0.015	0 -0.015	18	5x0.8		12						
				20			13						
				25			16						
				30			19						
	10			18	6x1.0		12	2					
				25			16						
				30			19						
	12	+0.028 +0.018	0 -0.018	40		40	25						

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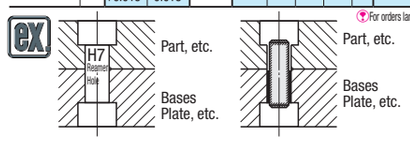

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