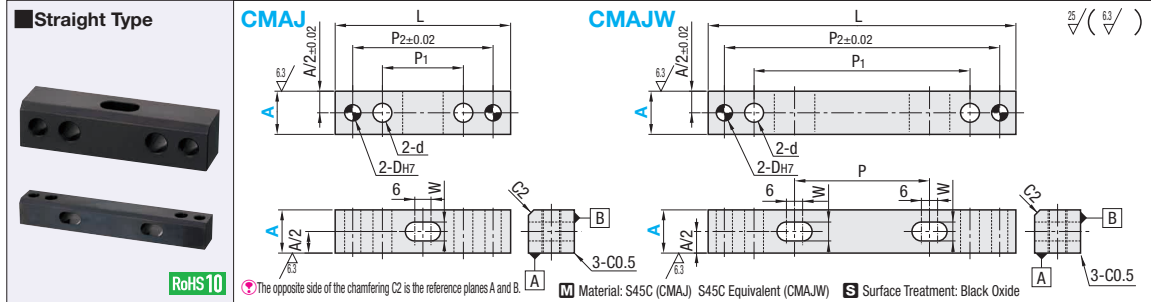
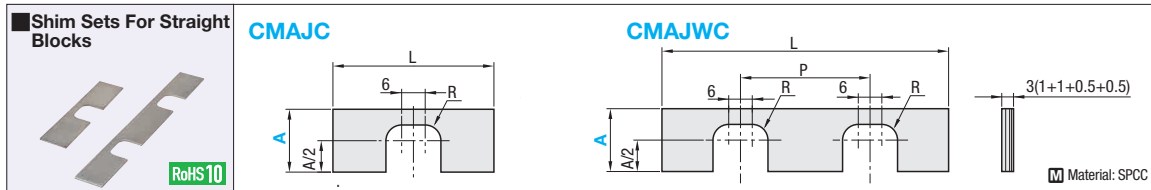


Blocks for Shim Adjustment of Welding Fixtures / Shim Sets

Straight, L-Shaped

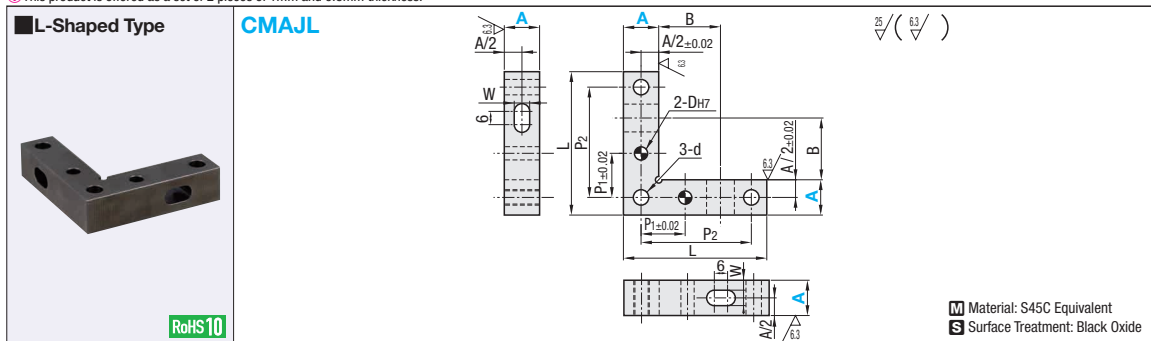


Part Number	Type	A	L	D	d	P	P1	P2	W	Unit Price	Volume Discount Rate
CMAJ	16	65	6	7	-	30	52	7		1 - 9 pc(s)	10 - 30 pcs.
	20	75	8	9	-	40	62	9			
CMAJW	16	114	6	7	50	80	102	7			
	20	124	8	9	50	90	112	9			

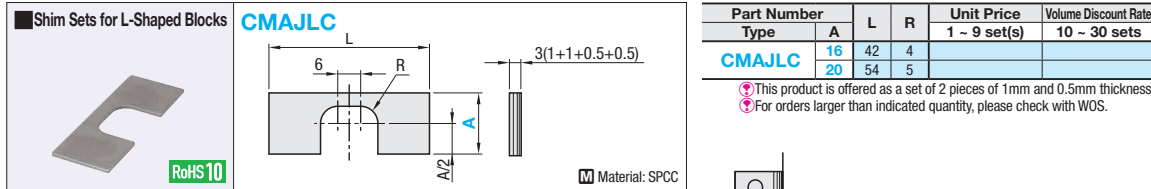


Part Number	Type	A	L	R	P	Unit Price	Volume Discount Rate
CMAJC	16	65	4	-		1 - 9 set(s)	10 - 30 sets
	20	75	5	-			
CMAJWC	16	114	4	50			
	20	124	5	50			

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



Part Number	Type	A	L	D	d	B	P1	P2	W	Unit Price	Volume Discount Rate
CMAJL	16	65	6	7	28	20	50	7		1 - 9 pc(s)	10 - 30 pcs.
	20	100	8	9	53	40	80	9			



Part Number	Type	A	L	R	Unit Price	Volume Discount Rate
CMAJLC	16	42	4		1 - 9 set(s)	10 - 30 sets
	20	54	5			

This product is offered as a set of 2 pieces of 1mm and 0.5mm thickness. For orders larger than indicated quantity, please check with WOS.



Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

Workpiece Detection System / Detection Pins for Weld Nuts

Workpiece Detection System

Type	Body	Pin	Spring
	Material Surface Treatment	Material Surface Treatment	Material
PCPNA	A6061 Clear Anodize	S45C Electroless Nickel Plating	SUS304-WPB

Accessory: Set Screw M4, 1pc.
Can be used in combination with Detector Pins for Weld Nuts.

Oil Free Bushing, Sensor Mounting Hole Ø8^{+0.1}₀, Sensor Mounting Screw Hole M4, Plug, 2-M5 Both Ends Counterbore Ø8 Depth 4.5, 2-Ø5H7 Depth 9, 2-M5 Depth 9.

Stroke	0 (min.)	3	8 (max.)
Switch	OFF	ON	ON

Spring	S (Soft)	H (Hard)
Spring Constant (N/mm)	0.3	0.5
O.D. (mm)	12	12
Wire Dia. (mm)	0.65	0.8
I.D. (mm)	10.7	10.4
Free Length (mm)	20	20
Allowable Deflection	12	9

* Example of an applicable proximity sensor (shield type of 2-Line type)
- KEYENCE EV-108M
- OMRON E2E-X2D1-M3G

Type	Part Number	D	Spring Selection	L Selection		S (Soft)		H (Hard)		Unit Price
				min	max	min	max	min	max	
PCPNA	8	8	S (Soft)	30		1.2	3.6	2.0	6.0	kgf=Nx0.101972
				50						

Ordering Example: **Part Number** - L
PCPNA8H - 50

Suitable to confirm existence of workpieces when proximity sensor cannot be placed near target objects.
For Urethane Pushers (P.1553) or Detector Pins (below), tip parts can be selected depending on the objects to be detected.

Detection Pins for Weld Nuts

Type	Material	Hardness	Surface Treatment	MxPitch Fine	MxPitch Coarse
NUTK	S45C	-	-	5x0.5	5x0.8
BNUTK	Equivalent	Hardened Hardness: 45 - 50HRC	Black Oxide	6x0.75	6x1.0
				8x0.75	8x1.25

Reference: sin15°=0.259 sin30°=0.5
sin45°=0.707 sin60°=0.87
tan15°=0.267 tan30°=0.577
tan45°=1 tan60°=1.73

Combination of Workpiece Detecting Unit and Cylinder is available.

Tip Shape: Select from the diagram on the right.

Part Number	Type	Tip Shape	D	P			B	L	A	E (Shape A) 1mm Increment	M			Unit Price	
				0.1mm Increment	1mm Increment	1mm Increment					Coarse	Fine	NUTK	BNUTK	
NUTK	BNUTK	A	12	5.0-10.0	5-30 (B≤P/4)	15-20	30	90	120	1-10	5	5S			
		B	16	10.1-12.0							5	6	5S	6S	
		C	16	12.1-14.0							5	6	8	5S	6S

Ordering Example: **Part Number** Type Tip Shape D - P - B - L - A - E - M

NUTK A 12 - P6.0 - B10 - L20 - A30 - E2 - M5 (Shape A)
 NUTK C 16 - P10.5 - B15 - L20 - - M6 (Shape C)