

# Square Nuts / Square Washers

One / Two Configurable Holes



**Square Nuts** **NSQ**

Material: 1018 Carbon Steel  
Surface Treatment: Trivalent Bright Chromate Plating

Part Number		L	B	T
Type	M (Coarse)			
NSQ	4	7	7	3.2
	5	8	8	4
	6	16	10	4.5
	8	42	15.5	6

Part Number Example: NSQ8

**Square Washers With One Configurable Hole**

Type		Material	Surface Treatment
Washers	Nuts		
FKW	FKT	1045 Carbon Steel or Equivalent	—
FKWB	FKTB	1045 Carbon Steel or Equivalent	Black Oxide
FKWS	FKTS	304 Stainless Steel	—

Part Number		1 mm Increment	0.5 mm Increment	D Selection
Type	B	A	P	
Washers	16	16-50	$D/2+2 \leq P \leq A-D/2-2$	7 9
	22			7 9
	25			7 9 11 14
	38			7 9 11 14

Part Number		1 mm Increment	0.5 mm Increment	M (Coarse)	T
Type	B	A	P		
Nuts	16	16-50	$M/2+2 \leq P \leq A-M/2-2$	6	6
	22			8	6
	25			10	9
	38			12	10

Part Number Example: FKW16 - A20 - P10 - D7

**Square Washers With Two Configurable Holes**

Type		Material	Surface Treatment
Washers	Nuts		
FK2W	FK2T	1045 Carbon Steel or Equivalent	—
FK2WB	FK2TB	1045 Carbon Steel or Equivalent	Black Oxide
FK2WS	FK2TS	304 Stainless Steel	—

### Dimension Configurable

Part Number		1 mm Increments		D Selection	T
Type	B	A	P		
Washers	(6)	30-200	$2D \leq P \leq A-2D$	4	2
	(10)			4 6	3
	16			7 9	6
	22			7 9	6
	25			7 9 11 14	6
	38			7 9 11 14	6

(B=6, B=10 are for FK2WS only)

Part Number		1 mm Increments		M (Coarse)	T
Type	B	A	P		
Nuts	(6)	30-200	$2M \leq P \leq A-2M$	3	2
	(10)			3	3
	16			6	6
	22			8	6
	25			10	9
	38			12	10

(B=6, B=10 are for FK2TS only)

Part Number Example: FK2T16 - A40 - P25  
FK2WS25 - A50 - P20 - D7

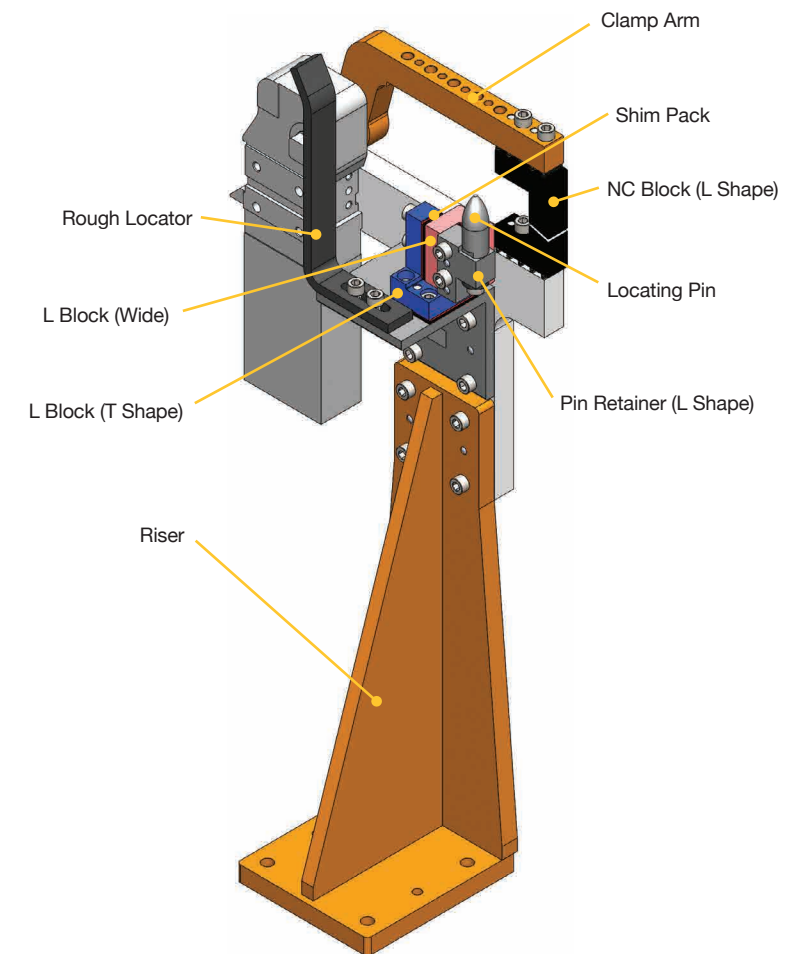


## The MISUMI Approach to Standard & Configurable NAAMS

After extensive market research, MISUMI USA discovered that standard NAAMS components frequently required additional machining, or even a make detail for customization. MISUMI USA worked closely with several large customers to develop configurable NAAMS components that required no additional machining, not connected to each other, and at a lower cost than customized NAAMS components.

### Typical NAAMS Assembly

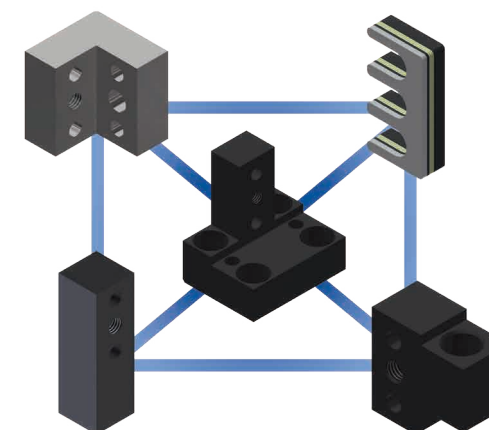
A typical NAAMS assembly includes risers, pin stacks, and clamp arms and uses multiple locating pins and pin retainers, in addition to several styles of L Blocks and NC Blocks. Shim packs are used to adjust the assembly as needed.



### NAAMS Bolting Pattern

The NAAMS bolting pattern is a unique benefit of the NAAMS standards. The bolting pattern is standardized with a 15mm pitch, so components are easily interchangeable and assembly is quick and easy.

### Mix and match components



All 15mm pitch = Interchangeable Bolting Pattern & Easy Assembly

### WHAT'S NEW

MISUMI has further expanded our NAAMS offering by adding the following new products:

- American-made NAAMS Welded Risers
- Douglas Stamping Company® NAAMS Shims & Spacers
- Suburban Bolt Supply Company NAAMS Fasteners

We have also added options on existing products by adding more Configurable L Blocks and Pin Retainers. For Locating Pins, we have expanded the diameter range on configurable pins and added a Rainbow Diamond-Like Coating to select items.