

Hair Pins / Cotter Pins / Scale Tapes

Angle Scales / Bubble Levels

Hair Pins

RNPN

JNPN JNSPN (Stainless Steel)

Type	Material	Surface Treatment
RNPN	SWRH6	Trivalent Chromate
JNPN	SWRH6	Trivalent Chromate
JNSPN	SUS304	-

Part Number	Type	No.	d (Wire Dia.)	L	L1	L2	R	h	D1 (Applicable Shaft Dia.)	D2 (Shaft Bore Dia.)	Unit Price	Volume Discount Rate
RNPN												
6		6	1.2	25.2	9.7	3.9	3	1.4	6	1.5		
8		8	1.6	33.8	13.1	5.3	4	2.1	8	1.9		
10		10	1.8	40.2	15.7	5.7	5	3	10	2.2		
12		12	2	46	17.5	6	6	4	12	2.4		
JNPN JNSPN												
4		4	1	3	16.3	6	2	1	4	1.2		
5		5	1.2	3.6	17.9	6.5	2.5	1.5	5			
6		6	1.2	3.6	21.2	7.8	3	1.8	6	1.5		
8		8	1.6	4.8	27.7	10.4	4	2.4	8	1.9		
10		10	1.8	5.4	32.6	12.2	5	3.2	10			
12		12	1.8	5.4	35.8	13.2	6	4.2	12	2.2		

Cotter Pins

NPN

NSPN (Stainless Steel)

Part Number	Type	No.	L	d	a	b	c	Unit Price	Volume Discount Rate
NPN									
0.8		8	10	0.7	1.6	2.4	1.4		
1		10	12	0.9	1.8	3	1.8		
1.2		10	12	1	2	3	2		
1.6		10	12	1.4	2.5	3.2	2.8		
2		12	15	1.8	3	4	3.6		
NSPN									
2.5		15	20	2.3	3.2	5	4.6		
3.2		20	25	2.9	3.7	6.4	5.8		
4		20	25	3.7	4	8	7.4		
5		35	46	4	10	9.2			

Ordering Example: Part Number - L

Example: RPN6 - 20

Scale Tapes

TMEF (Zero Left End)

TMEF (Zero Left End)

TMER (Zero Right End)

TMER (Zero Right End)

TMEPL (Zero Left End)

TMEPR (Zero Right End)

TMEPN (No Number)

Material Structure

- Protection Film 0.06mm
- PET Film 0.10mm
- Aluminum Foil 0.05mm
- Adhesive Layer (Acrylic) 0.03mm
- Backing Paper 0.08mm

Zero Point Position (Graduation)	Part Number	Type	L	Thickness	Scale Increment	Unit Price
Left End (0 ~ 1000)	TMEF		1000	0.18	1mm	
Right End (0 ~ 1000)	TMER		1000			
Left End (0 ~ 100)	TMEPL		2000			
Right End (0 ~ 100)	TMEPR		2000			
-	TMEPN		2000			
Left End (0~1000, 1000~2000)	TMEF		2000			
Right End (0~1000, 1000~2000)	TMER		2000			

Ordering Example: Part Number

Example: TMEPL-2000

Ordering Example: Part Number

Example: TMERF-2000

* Use as measuring tool for adjustment of machines and equipment.

Angle Scales - Plate Type

MEAA (180-Degree Type)

MEAB (90-Degree Type)

Ordering Example: Part Number - V - H

Example: MEABC50 - 25 - 3

Part Number	Type	Graduation Direction	D	V	H	X	Y	Unit Price
MEAA								
180 Degree Type		C (Zero at Center)	40	20	3	13.5	11.5	
			60	30		20	17	
			100	50		36	26	
			140	80		48	40	
MEAB								
90-Degree Type		L (Zero at Left)	20	10		12	5	5
		R (Zero at Right)	30	15		17	7	7
		C (Zero at Center)	50	25		29	12	12
			70	40		43	18	18

Ordering Example: Part Number - V - H

Example: MEABC50 - 25 - 3

Angle Scales - Double-Sided Adhesive Tape

MEAN

Ordering Example: Part Number - V

Example: MEANC60 - 25

Part Number	Type	Graduation Direction	D	V Selection	Unit Price
MEAN					
		L (Zero at Left)	40	10 12 16 20	
		C (Zero at Center)	60	16 20 25 30	
		R (Zero at Right)	100	30 35 40 50	
			140	40 50 60 80	

Zero position changes depending on the scale direction.

Similar products are available. For Adjusting Collars P:1155

Alterations: Part Number - V - (HC)

Example: MEANC140 - 60 - HC

Alterations

Hole Machining

Code

Spec.

Adds mounting holes at hole machining marks. MEAN: Ø3.5x2 places. Adhesive tape is affixed to the back. (Mounting Hole Dimension Diagram)

D	X	Y
40	13.5	11.5
60	20	17
100	36	26
140	51	36

Available for MEAN only.

Bubble Levels (Mounting Type)

SMTF

Material: A5052B Glass

Surface Treatment: Black Anodize

Max. Operating Temperature: 55°C

Part Number	Type	D	A	B	h	h2	Mounting Hole (N)	Sensitivity	Unit Price
SMTF									
28		16	22	10.5	3.5	2	38'12" (R-180)		
32		20	27	12.0	4.0	3	38'12" (R-180)		

Bubble Levels

This bubble level is for mounting on a surface that has already been checked to ensure it is level, and it provides a simple level check. Fit it so that the bubble is stationary within the red circle. (A shim or adjustment mechanism may be required depending on the surface accuracy).

Sensitivity: If the bubble shifts 2 mm from the center, the mounting surface is inclined at 38'12" (approximately 0.6 degrees). R-180 is the radius of the curve of the bubble level (in mm).

Ordering Example: Part Number

Example: SMTF28

Bubble Levels (Embedded Type)

SMH

Material: ABS Plastic Glass

Max. Operating Temperature: 55°C

Part Number	Type	D	A	h	h2	Sensitivity	Unit Price
SMH							
20		16.5	11	9.5		38'12" (R-180)	