Rough Guide Pins

Tip Shape Selectable / Eccentric Type

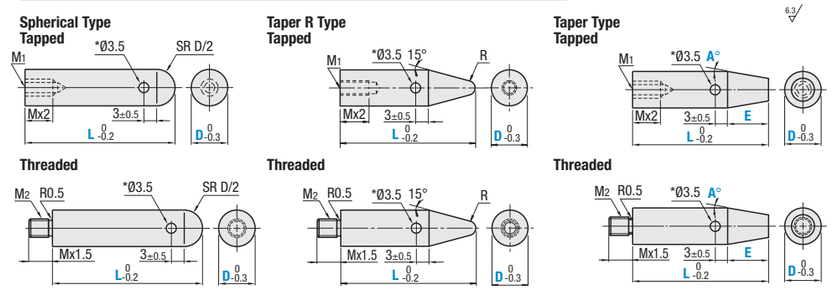
Rough Guide Pins – Tip Shape Selectable

RoHS10

Mounting Part	Type: Sphere	Type: Taper R	Type: Tapered	Material	Surface Treatment
Tapped	RGP	RGPR	RGPT	1045 Carbon Steel or Equivalent	Electroless Nickel Plating
	RGPS	RGPRS	RGPTS	304 Stainless Steel	—
Threaded	RGPN	RGPRN	RGPTN	1045 Carbon Steel or Equivalent	Electroless Nickel Plating
	RGPNS	RGPRNS	RGPTNS	304 Stainless Steel	—

Reference: tan15°≈0.267 tan30°≈0.577
tan45°=1 tan60°≈1.732

*When D=6, Ø2.0
When D=20,25, Ø5.0



Spherical Type

Part Number Type	D	L 1 mm Inc.	M_1 (Coarse)	M_2 (Coarse)
Tapped RGP RGPS	6	15–100	3	–
	8	20–100	4	
	10	20–100		5
	12	21–100	5	6
Threaded RGPN RGPNS	15	26–100	6	8
	20	28–100		10
	25	31–100		

Threaded Type is available only when D≥10.

Taper R Type

Part Number Type	D	L 1 mm Increment	M_1 (Coarse)	M_2 (Coarse)	R
Tapped RGPR RGPRS	6	20–100	3	—	1
	8	24–100	4		1.5
	10	26–100		5	2
	12	32–100	5	6	
Threaded RGPRN RGPRNS	15	40–100	6	8	
	20	47–100		10	3
	25	57–100			

L-Mx2≥(Dx1.85)-(Rx2.75)-1

Taper Type

Part Number Type	D	L 1 mm Increment	E 0.5 mm Increment	A 1° Increment	M_1 (Coarse)	M_2 (Coarse)
Tapped RGPT RGPTS	6	20–100	For Tapped 5.0≤E E≤L-M1x3 For Threaded 5.0≤E E≤L-7	1–45	3	–
	8				4	
	10					5
	12				5	6
Threaded RGPTN RGPTNS	15				6	8
	20					10
	25					

D-2EtanA≥1.0(Tip diameter Ø1.0 or more)

D	Spherical Type L15–59 RGP	Spherical Type L15–59 RGPS	Spherical Type L60–100 RGP	Spherical Type L60–100 RGPS	Taper R Type L20–59 RGPR	Taper R Type L20–59 RGPRS	Taper R Type L60–100 RGPR	Taper R Type L60–100 RGPRS	Taper Type L20–59 RGPT	Taper Type L20–59 RGPTS	Taper Type L60–100 RGPT	Taper Type L60–100 RGPTS	Spherical Type L15–59 RGPN	Spherical Type L15–59 RGPNS	Spherical Type L60–100 RGPN	Spherical Type L60–100 RGPNS	Taper R Type L20–59 RGPRN	Taper R Type L20–59 RGPRNS	Taper R Type L60–100 RGPRN	Taper R Type L60–100 RGPRNS	Taper Type L20–59 RGPTN	Taper Type L20–59 RGPTNS	Taper Type L60–100 RGPTN	Taper Type L60–100 RGPTNS
6	•	•	•	•	•	•	•	•	•	•	•	•	—	—	—	—	—	—	—	—	—	—	—	—
8	•	•	•	•	•	•	•	•	•	•	•	•	—	—	—	—	—	—	—	—	—	—	—	—
10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number Example

Part Number - L - E - A
RGP10 - 40
RGPTNS12 - 40 - E10 - A5

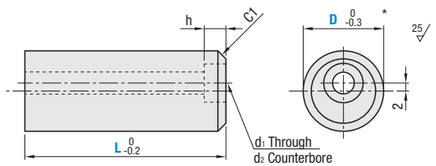
Features: Pin-shaped guides that can be used for various workpieces. Tip shapes and mounting parts are selectable.

Rough Guide Pins – Eccentric Type

RoHS10

Type	Material	Surface Treatment
RGPEZ	1045 Carbon Steel or Equivalent	Electroless Nickel Plating
RGPEZS	304 Stainless Steel	—
RGPEZMC	MC Nylon	—

D6 has no counterbored hole. It only has through holes.



*For MC Nylon, D dimension tolerance is Volume +0.3 +0.1

Part Number Type	D	L 10 mm Inc.	d_1	d_2	C	h L10–40	h L50–100	h L110–120	h L130, 140	Applicable Bolts	Eccentricity x
RGPEZ RGPEZS RGPEZMC	6	10–30	3.5	—	0.2	—				M3	0.5
	12	20–40	4.5	8		5	—			M4	1
	15	20-50				5		—			2
	20	30–70	5.5	9.5	1	6	20	—		M5	
	25	30–120	6.6	11		7		25	—	M6	
	30	30–140	9	14		9			30	M8	

Part Number Type	D	Available Types L10–60 RGPEZ	L10–60 RGPEZS	L10–60 RGPEZMC	L70–100 RGPEZ	L70–100 RGPEZS	L70–100 RGPEZMC	L110–140 RGPEZ	L110–140 RGPEZS	L110–140 RGPEZMC
RGPEZ RGPEZS RGPEZMC	6	•	•	•	—	—	—	—	—	—
	12	•	•	•	—	—	—	—	—	—
	15	•	•	•	—	—	—	—	—	—
	20	•	•	•	•	•	•	—	—	—
	25	•	•	•	•	•	•	•	•	•
	30	•	•	•	•	•	•	•	•	•

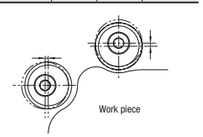
Part Number Example

Part Number - L
RGPEZ25 – 80

Application Example

Eccentricity in the counterbored hole position makes fine adjustment of guiding position possible.

Suitable for guiding work peices that are not accurate in the finished dimensions, such as castings.



Rough Guides

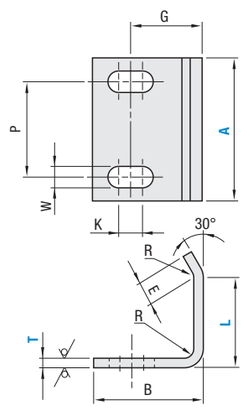
Standard / Narrow Type

Rough Guides – Standard Type

RoHS10

Part Number	Material	Surface Treatment
RGH	Low Carbon Steel	—
RGHN		Electroless Nickel Plating
RGHS	304 Stainless Steel	—

When plate thickness is 4.5, material is Low Carbon Steel.



Part Number	T Low Carbon Steel	T 304 Stainless Steel	A Selection	L 5 mm Increment	B	E	P	K	W	G	Rmax
RGH RGHN RGHS	1.6	1.5	20 30	15–50	23	6	12	10	3.5	13.8	1.5
	2.3	2.0	30 40	20–60	26	10	20	10	4.5	16.3	2
	3.2	3.0	35 40	30–80	32	15	20	10	6.5	21.3	3
	4.5	4.0	35 40 50	40–100	35	20	20	10	6.5	23.3	4

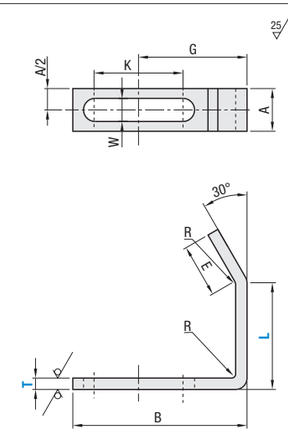
Part Number Example

Part Number - T - A - L
RGH - 1.6 - 20 - 15

Rough Guides – Narrow Type

Part Number	Material	Surface Treatment
RGN	Low Carbon Steel	—
RGNN		Electroless Nickel Plating
RGNS	304 Stainless Steel	—

When plate thickness is 4.5, material is Low Carbon Steel.



Part Number	T Low Carbon Steel	T 304 Stainless Steel	L 5 mm Increment	A	B	E	K	W	G	Rmax
RGN RGNN RGNS	2.3	2.0	10–50	10	40	10	24	4.5	23	2
	3.2	3.0	20–70	12	52	15	30	6.5	31	3
	4.5	4.0	20–70	12	55	20	30	6.5	34	4

Part Number Example

Part Number - T - L
RGNS - 3.0 - 40