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Slides



CGT Series

Compact Guide Slide

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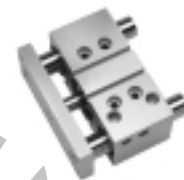


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Pneuhair



CGT Series
Compact Guide Slide



CGT Series Compact Guide Slide

A. Body

Anodized aluminum alloy, lightweight and durable. Multiple mounting options, counter bored holes, drilled and tapped holes and extruded "T" slots.

B. Tool Plate

Precision machines anodized aluminum alloy, easy access mounting holes for tooling attachment.

C. Bearings

Two choices, recirculating ball for heavy-duty applications and sintered bronze for medium to light duty applications.

D. Rod Wipers

Steel reinforced rod wiper assures wiping action on guide shafts to protect bearings from operating environment contamination.

E. Guide Shafts

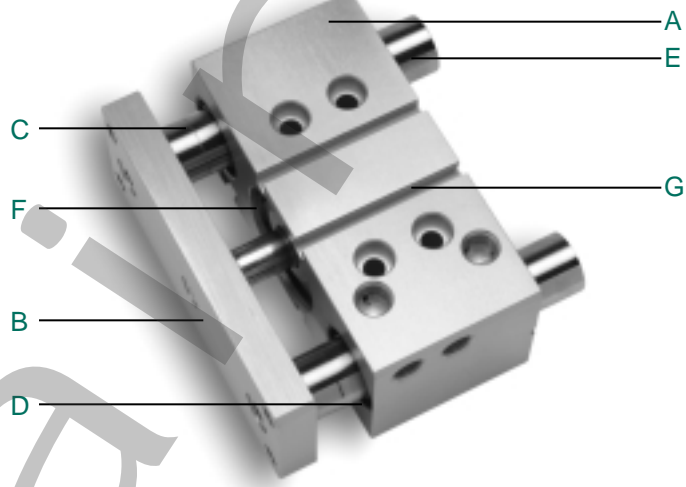
Hardened, ground and polished, Oversized diameter for additional load support and rigidity.

F. Piston

Internal to body. Magnetic band for position sensing standard on all sizes and strokes.

G. Sensor Mounting Track

Extruded directly in body, no external brackets, easy access for Hall effect and Reed switches.



How to Order

CGT 032 050 B 1 6 D X

Bore Diameter

- 016 = 16 mm
- 020 = 20 mm
- 025 = 25 mm
- 032 = 32 mm
- 040 = 40 mm
- 050 = 50 mm

Stroke

- 010 = 10 mm
- 020 = 20 mm
- 025 = 25 mm
- 030 = 30 mm
- 040 = 40 mm
- 050 = 50 mm
- 075 = 75 mm
- 100 = 100 mm

Reference Standard Stroke table for available bore and stroke.

Bearing Option

- B = Bronze Bushing
- L = Linear Ball Bearing

Seal Option

- 1 = Buna-N

Options

- X = No Options

Sensing Position

- A = Single Position Extend
- B = Single Position Retract
- C = Two Position Sensing
- D = No Sensing

Sensing Type

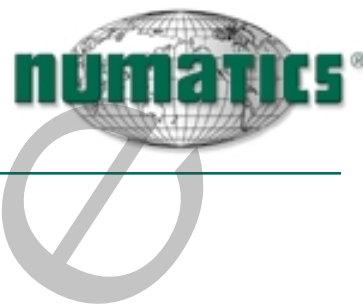
- Standard Cord Set
- 1 = Hall Effect - PNP (sourcing)
- 2 = Hall Effect - NPN (sinking)
- 3 = Reed Switch
- 6 = No Sensing
- Quick Connect Cord Set
- Z = Hall Effect - PNP (sourcing)
- Y = Hall Effect - NPN (sinking)
- X = Reed Switch

When Ordering Additional Sensors

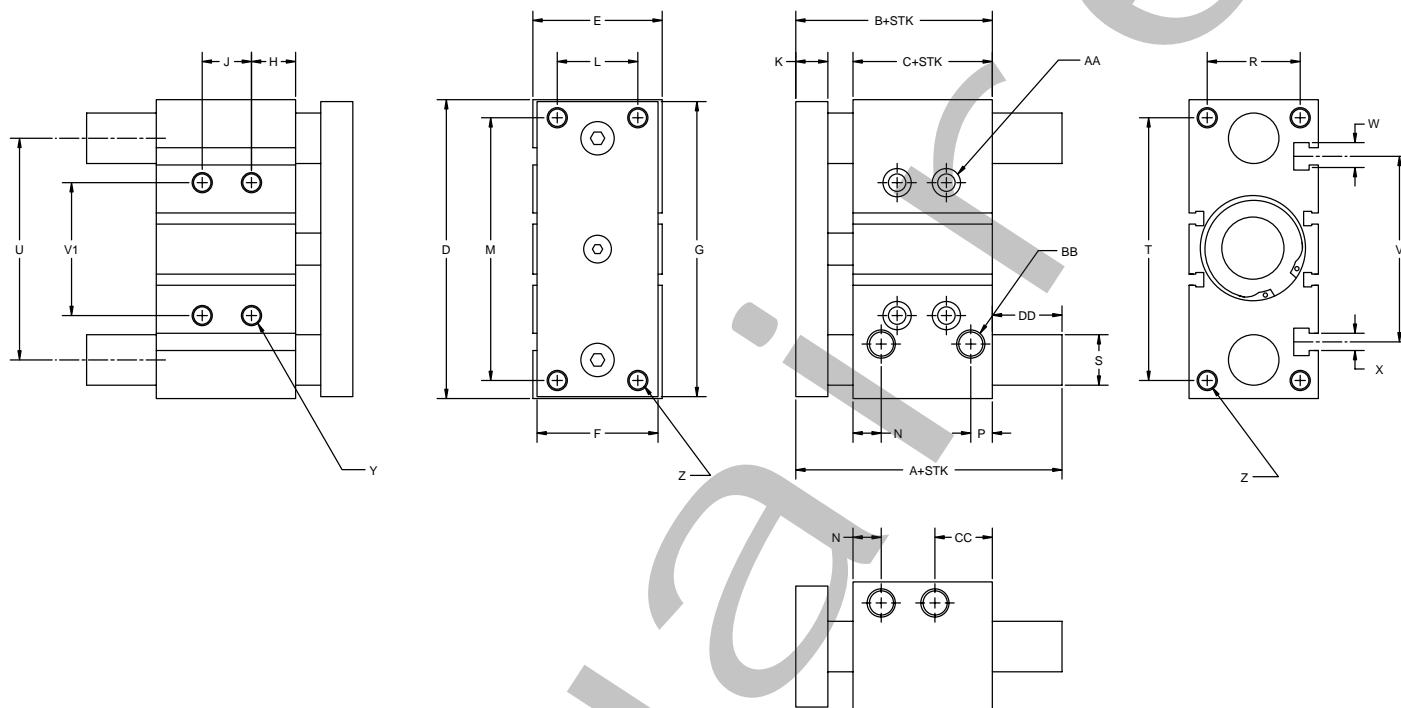
SWITCH DESCRIPTION	STANDARD PART NO.
Hall Effect - PNP (Sourcing)	HPNPS31
Hall Effect - NPN (Sinking)	HNPNS32
Reed Switch	RSS02



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CGT Series Dimensions



BORE	B	C	D	E	F	G	H	K	L	M	N	P	R
16	46.0	33.0	64.0	30.0	25.0	62.0	5.0	8.0	16.0	54.0	11.0	8.0	22.0
20	53.0	37.0	83.0	36.0	30.0	81.0	17.0	10.0	18.0	70.0	10.5	8.5	24.0
25	53.5	37.5	93.0	42.0	38.0	91.0	17.0	10.0	26.0	78.0	11.5	9.0	30.0
32	59.5	37.5	112.0	48.0	44.0	110.0	21.0	12.0	30.0	96.0	12.5	9.0	34.0
40	66.0	44.0	120.0	54.0	44.0	118.0	22.0	12.0	30.0	104.0	14.0	10.0	40.0
50	72.0	44.0	148.0	64.0	60.0	146.0	22.0	16.0	40.0	130.0	14.0	11.0	46.0

BORE	S	T	U	V	V1	W	X	Y	Z	AA	BB	CC
16	10.0	56.0	46.0	38.0	24.0	7.40	4.4	M5	M5	4 mm SHCS	M5	18.0
20	12.0	72.0	54.0	44.0	28.0	8.40	5.4	M6	M5	5 mm SHCS	G 1/8	24.5
25	16.0	82.0	64.0	49.7	34.0	8.54	5.2	M6	M6	5 mm SHCS	G 1/8	25.0
32	20.0	98.0	78.0	63.0	42.0	10.50	6.5	M8	M8	6 mm SHCS	G 1/8	30.5
40	20.0	106.0	86.0	72.0	50.0	10.50	6.5	M8	M8	6 mm SHCS	G 1/8	31.0
50	25.0	130.0	110.0	92.4	66.0	13.4	8.4	M10	M10	8 mm SHCS	G 1/4	35.0

BORE	STROKE					
	10 TO 50 A	75 TO 100 A	10 TO 30 J	40 TO 100 J	25 J	50 TO 100 J
16	46.0	-	24.0	44.0	-	-
20	53.0	84.5	24.0	44.0	-	-
25	53.5	85.0	24.0	44.0	-	-
32	97.0	102.0	-	-	24.0	48.0
40	97.0	102.0	-	-	24.0	48.0
50	106.5	118.0	-	-	24.0	48.0

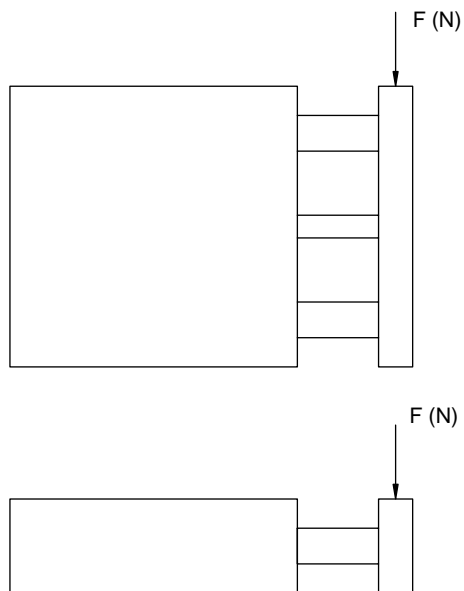
BORE	(STROKE)	
	DD	DD
16	0 (10-30)	20 (40-100)
20	0 (20-30)	32.5 (40-100)
25	0 (20-30)	32.5 (75-100)
32	37.5 (25-50)	47.5 (75-100)
40	31 (25-50)	41 (75-100)
50	34.5 (25)	42 (50)
		46 (75-100)



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Load vs Stroke

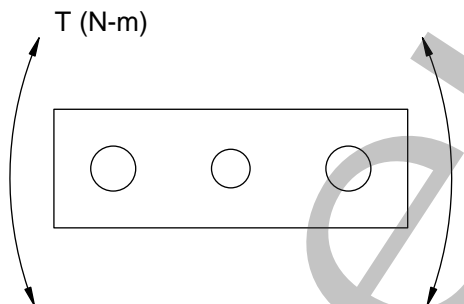
Load Values = N (newtons)

BORE mm	BEARING TYPE	STROKE							
		10	20	25	30	40	50	75	100
16	Bronze	28.0	28.0	-	25.0	22.0	19.0	-	-
	Linear Ball	35.0	30.0	-	26.0	37.0	33.0	-	-
20	Bronze	-	51.0	-	44.0	38.0	34.0	53.0	44.0
	Linear Ball	-	55.0	-	47.0	78.0	69.0	57.0	49.0
25	Bronze	-	70.0	-	60.0	53.0	47.0	59.0	51.0
	Linear Ball	-	71.0	-	61.0	77.0	72.0	77.0	65.0
32	Bronze	-	-	88.0	-	-	59.0	137.0	108.0
	Linear Ball	-	-	196.0	-	-	167.0	275.0	216.0
40	Bronze	-	-	88.0	-	-	59.0	137.0	108.0
	Linear Ball	-	-	196.0	-	-	167.0	275.0	216.0
50	Bronze	-	-	137.0	-	-	88.0	215.0	176.0
	Linear Ball	-	-	294.0	-	-	255.0	392.0	313.0

To Convert Newtons to Pounds: newtons x 0.2248 = pounds force

Twisting Moment vs Stroke

Moment Values = N-m (newton-meters)



BORE mm	BEARING TYPE	STROKE							
		10	20	25	30	40	50	75	100
16	Bronze	0.51	0.43	-	0.35	0.31	0.27	-	-
	Linear Ball	0.75	0.58	-	0.48	0.71	0.64	-	-
20	Bronze	-	0.91	-	0.78	0.71	0.63	1.04	0.88
	Linear Ball	-	1.26	-	1.06	1.77	1.58	1.22	1.01
25	Bronze	-	1.53	-	1.31	1.16	1.03	1.65	1.41
	Linear Ball	-	1.96	-	1.69	2.16	2.00	1.68	1.42
32	Bronze	-	-	1.96	-	-	2.94	2.45	1.96
	Linear Ball	-	-	3.92	-	-	0.98	2.94	2.45
40	Bronze	-	-	2.45	-	-	1.45	2.94	2.45
	Linear Ball	-	-	4.41	-	-	3.43	6.37	5.39
50	Bronze	-	-	3.43	-	-	2.45	4.90	4.41
	Linear Ball	-	-	7.35	-	-	5.88	10.78	8.33

To Convert Newtons-Meters to Inch-Pounds: newton-meters x 8.850 = inch-pounds

Output Force vs Pressure

	16	20	25	32	40	50
Extend Force (N) @ 6 bar	120 (N)	187 (N)	293 (N)	472 (N)	747 (N)	1161 (N)
Retract Force (N) @ 6 bar	91 (N)	141 (N)	247 (N)	406 (N)	624 (N)	974 (N)

Max Operating Pressure: 10 bar (145 psi)
Operating Temperature: -20°C (-4°F) to 80°C (176°F)

To Convert Newtons to Pounds: newtons x 0.2248 = pounds