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External Guide Pins Provide Load Guiding

External guide pins, adapted to the **Pancake®** cylinder line provide a superior nonrotating piston rod feature for applications such as package placement, figure stamping, and any application where anti-rotation and registration are critical as the piston is extended and retracted.

A mounting block is bolted to the piston rod. This block has two square pins mounted to it which in turn pass through guide blocks mounted on the sides of the cylinder.

Square guide pins are hard chrome plated steel for long wear and corrosion resistance.

Guide blocks are hard anodized aluminum for long wear and corrosion resistance.

Clearance in guide block mounting holes provide for adjustment and backlash control, compensation for wear, and minimal rotation.

Extended distance between guides provides superior nonrotation and support.

Extended piston rod provides clearance between cylinder and guide bar mounting block to eliminate pinch points.



Model G-221-X-G Shown

Available on **Pancake®** cylinders: Original and "T" Series

Bores: 3/4" (7), 1 1/8" (121), 1 5/8" (221),
2" (321), 2 1/2" (521), 3" (721),
and 4" (1221)

Strokes: 1/8" through 4"

Actions: -X, -XDR

In combination with Options:

Suffix;

-T, -V, -Q, -H, HHC, -HC, -P14,
-N, -C1 — -C7, -AS, -RS, -LF,
-LR, -LFR, -BF, -BR, -BFR, -E

Also available in Square 1® cylinders:
Bores 3/4" through 2"
Strokes 1/8" through 6"
See page 2.14 of this catalog.

HOW TO ORDER

Select the basic **Pancake®** Cylinder model number for your desired series, bore and stroke. Then **add -G as a Suffix Option.**

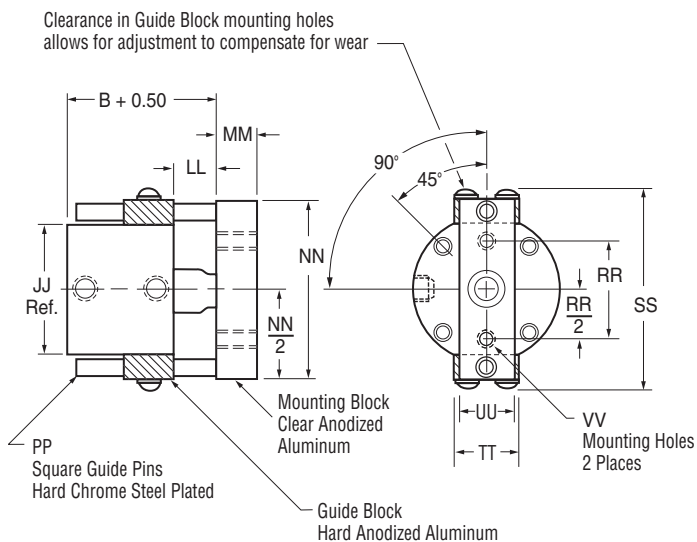
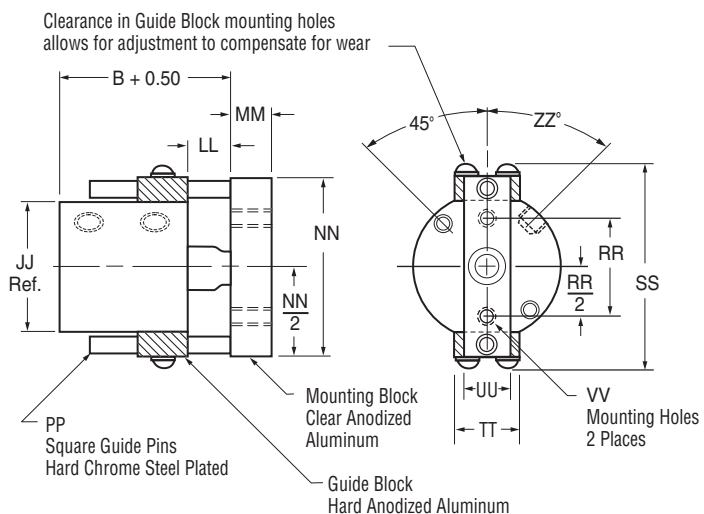
Please Note!!

This option affects the rod end dimensions
See details on page 1.66.

For dimensions B and all other dimensions not noted, please refer back to the main dimension table associated with your cylinder model and option selections. Use the CAD library of **Pancake®** cylinders with your CAD program to reduce design time.

3/4" through 2" Bores

2 1/2" through 4" Bores



Model	7	121	221	321
Bore	3/4"	1 1/8"	1 5/8"	2"
JJ	1.50	1.99	2.74	3.24
LL	0.63	0.64	0.64	0.64
MM	0.63	0.63	0.63	0.75
NN	2.20	2.75	3.50	4.00
PP	0.19	0.25	0.25	0.25
RR	0.88	1.06	1.50	1.88
SS	2.30	3.13	3.85	4.37
TT	0.75	1.00	1.00	1.00
UU	0.63	0.63	0.75	1.00
VV	#6-32	#8-32	1/4-20	5/16-18
ZZ	45°	45°	45°	63°

Model	521	721	1221
Bore	2 1/2"	3"	4"
JJ	3.74	4.24	5.50
LL	0.64	0.64	0.70
MM	0.75	1.00	1.25
NN	4.56	5.06	6.32
PP	0.31	0.31	0.31
RR	1.88	1.88	1.88
SS	4.88	5.38	7.09
TT	1.00	1.00	1.00
UU	1.00	1.00	1.25
VV	5/16-18	5/16-18	5/16-18