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T-Film Bearing Element

Each T-Film Bearing Element is 12" x 12" and is designed to support a slip plate area of the same size. This bearing utilizes low pressure T-Bearings combined with an oil film surface to provide a load capacity which exceeds the capacity of a standard high pressure journal bearing/granite slip table system. This low pressure (600 psi) oil is ported through the base, eliminating the need for oil ports in the slip table. The normal stroke limit of this bearing is 2.5 in.

T-Film hydrostatic bearing elements are designed to be assembled in an array that provides both high overturning moment and exceptional yaw restraint. Each single axis (-1) bearing element will provide perfect lateral alignment of your slip plate, while the dual axis (-2) bearing element will allow for up to 0.10 side motion to account for thermal expansion and contraction.

Each bearing element is designed to provide precision guidance of your magnesium or aluminum slip plate through the use of the T-shaped bearing element in conjunction with an oil film slip surface. The unique T-Film design provides a very large oil film surface area that provides excellent control of vertical cross-axis motions as well as increased damping of high frequency resonance's. The direct load path from the slip plate to the base will provide the stiffest table system available.



Specifications

Model	1 T-Film Bearing	2 T-Film Bearing	
Total Travel	2.50 (63.5)	2.50 (63.5)	in. (mm)
Side Motion	0	0.10 (2.54)	in. (mm)
Moving Weight	10 (4.5)	10 (4.5)	lbs. (kg)
Viscous Drag	<1.0	<1.0	(lb-sec)/in.
Oil Pressure*	600 (41.6)	600 (41.6)	psi (bar)
Oil Flow*	<0.1 (.378)	<0.1 (.378)	GPM (LPM)
Static Rated Vertical Load	6500 (2948)	6500 (2948)	lbs. (kg)
Shipping Weight	55 (25)	55 (25)	lbs. (kg)

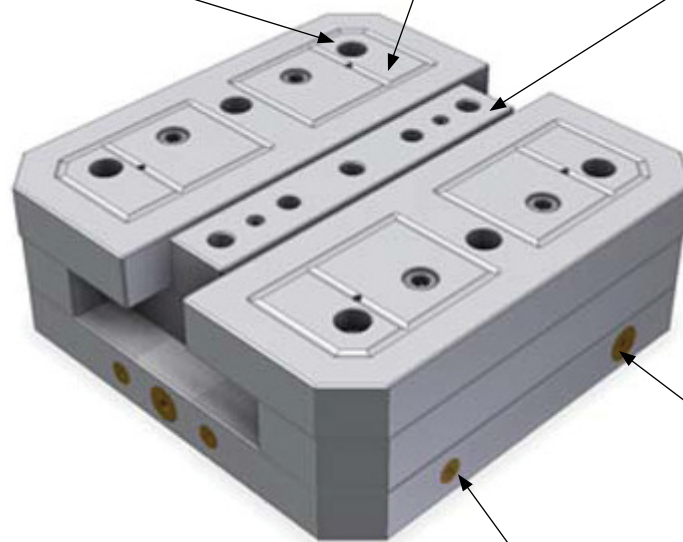
* LPS-3 Hydraulic Supply is recommended for this applicaion.

T-FILM BEARING ELEMENT

Mounting Pattern
C Bored for 1/2 - 13 S.H.C.S.
(6) PLC's Grip Length 3.65

Fixed Element

Moving Element
2.50 Total Travel



Pressure "Out"
Available on (4) sides

Pressure "In"
Available on (4) sides