Hudson BEARINGS

Air Cargo Ball Transfers





Made in the USA
SINCE 1969

HudsonBearings.com

THE HUDSON BEARINGS

Load Capacity Advantage

850 lb | 385 kg

Load Capacity Per Unit



Proprietary Inner Race Geometry

Our proprietary inner race geometry provides unparalleled load capacity.

Not Just a Screen

Our inner race is a cup, covering the majority of the housing's interior while still allowing dirt and debris expulsion.

Stainless Steel Inner Race

Our stamped inner race has a smooth rolling, high-RMS Factor surface.



Large Stock. Always.

Our 25,000 square ft. state-of-the-art facility allows for in-house CNC turning and milling, screw machining, and stamping for high-volume production.

Equally Distributed Load

Our inner race geometry allows the support balls to be evenly distributed when under load.



Inner race after 3,800 lb / 1,700 kg rolling load test. No damage to weep holes.

No Ganging at Bottom While Under Load

Support balls will not gang when under load to allow for continuous smooth rolling.

Multiple Weep Holes

Multiple weep holes in Hudson Bearings' ball transfers do not impact load capacity or structural integrity.



EXTREME LOAD TESTING

Putting the inner race to the test.

STATIC LOAD TEST

15,000 lb | 6,800 kg
Without Failure

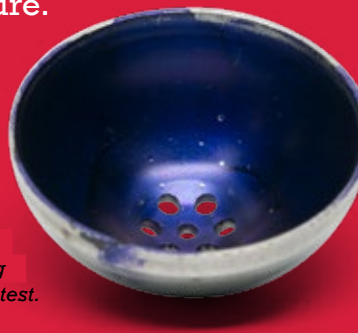
Our air cargo inner race product withstood over 15,000 lb / 6,800 kg of static load without failure.



ROLLING LOAD TEST

3,800 lb | 1,700 kg
Without Failure

Our air cargo inner race product withstood over 3,800 lb / 1,700 kg of rolling load without failure.



Inner race after 15,000 lb / 6,800 kg static load test.

Test Video and Additional Documentation available upon request.
info@hudsonbearings.com

CASE STUDIES

Trusted

UPS WORLDPORT

Hudson Bearings became the preferred supplier for UPS Worldport and other locations via the Ariba Network.



Hudson Bearings Air Cargo Ball Transfers are trusted by end users and integrators worldwide.

INCLUDING:

UPS

CARBON FREIGHT

SANKI

U.S. AIR FORCE

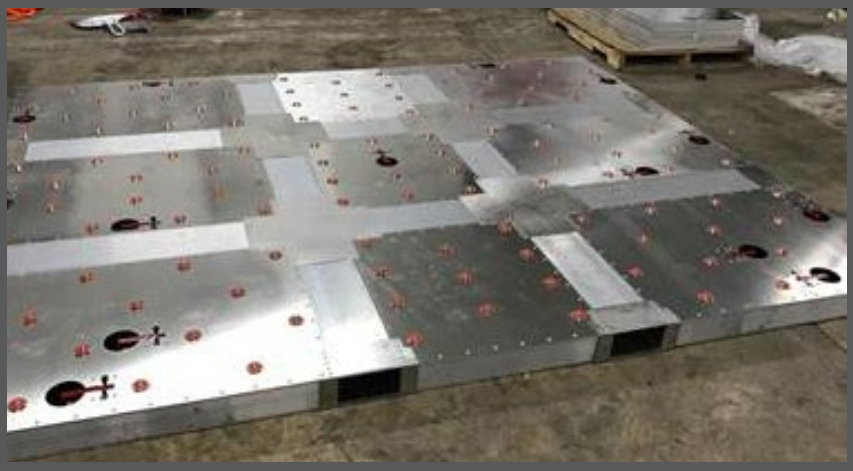
IAUS
INTERNATIONAL AUTOMATED SYSTEMS

GSP INTERNATIONAL AIRPORT

QANTAS

CARBON FREIGHT

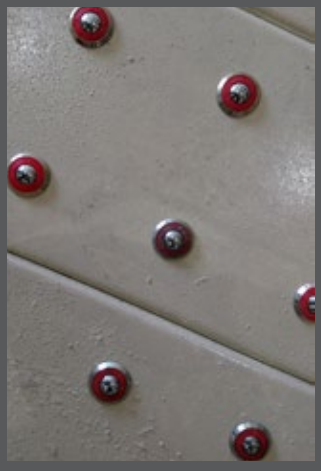
We worked hand-in-hand with Carbon Freight to develop a new kind of forklift-able slave pallet that enhances moving ULDs. In service now with United Airlines.



U.S. AIR FORCE

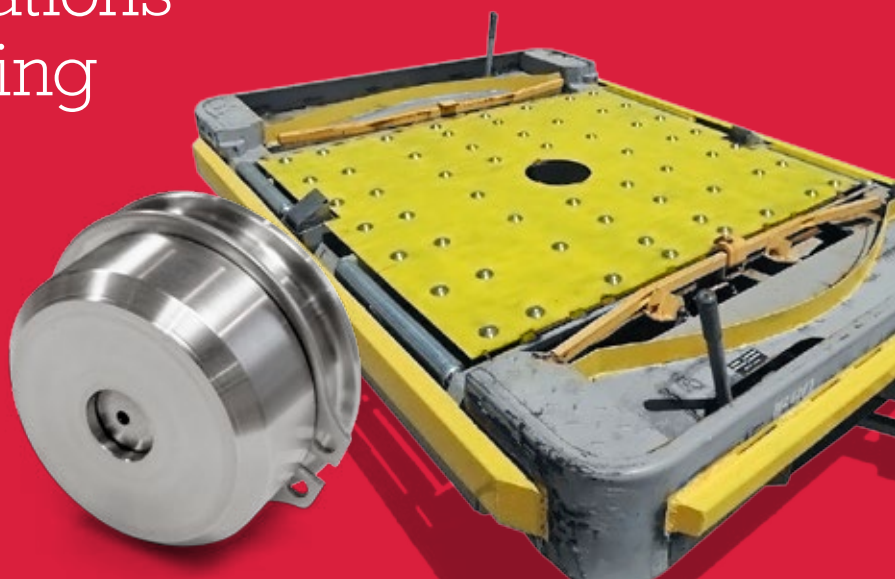
We are proud to be an approved USAF supplier with ball transfers deployed at multiple Air Force locations worldwide, including cold storage at Travis Air Force base.





Custom Configurations and Private Labeling

Hudson Bearings developed an all stainless steel grooved housing with clip for a Qantas dolly.



INTERCHANGEABLE

Flying Saucer Ball Transfers

Our interchangeable air cargo flying saucers are ideal for empty ULDs, air cargo dollies, or lighter loads.



275 lb | 125 kg
FSBT 1-1/4 SS MW



120 lb | 55 kg
FSBT 1 SS MW



Multiple Weep Holes
Come Standard

Air Casters

Contact us for more details.
info@hudsonbearings.com

550 lb | 250 kg
Load Capacity



HB-ACDT-58



HB-ACRT-58



HB-ACD-58



HB-ACR-58

Product Specs. & Dimensions

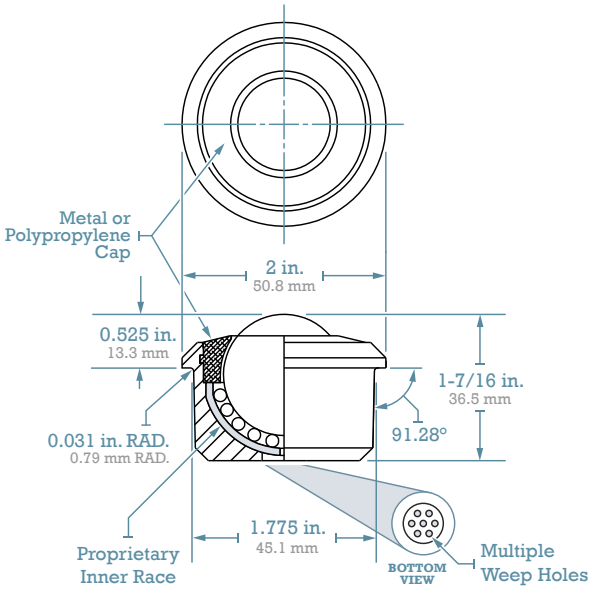
	Product / Code	Load Capacity	Housing	Housing Finish	Cap	Main & Support Ball	Max Temp. Rating	Stainless Steel Inner Race	Multiple Weep Holes
	**Heavy Duty Carbon Steel Ball Transfer** HDBT 1-3/16 CS/SS IR MW	850 lb 385 kg	Carbon Steel	Clear Zinc	Polypropyl-ene	400 Series Stainless Steel	250°F	✓	✓
	**Heavy Duty Carbon Steel Ball Transfer w/ Metal Cap** HDBTM 1-3/16 CS/SS IR MW	850 lb 385 kg	Carbon Steel	Clear Zinc	Carbon Steel w/ Zinc Finish	400 Series Stainless Steel	400°F	✓	✓
	**Heavy Duty Stainless Steel Ball Transfer w/ Metal Cap** HDBTM 1-3/16 SS IR MW	850 lb 385 kg	300 Series Stainless Steel	300 Series Stainless Steel	300 Series Stainless Steel	300 Series Stainless Steel	400°F	✓	✓

	Product Code	Load Capacity	Housing	Housing Finish	Mounting Holes	Main & Support Balls	Max Temp. Rating	Felt Seal	Multiple Weep Holes
	**1" Stainless Steel Flying Saucer Ball Transfer** FSBT 1 SS MW	120 lb 55 kg	Stainless Steel	Stainless Steel	2 Mounting Holes	400 Series Stainless Steel	400°F	Optional	✓
	**1.25" Stainless Steel Flying Saucer Ball Transfer** FSBT 1-1/4 SS MW	275 lb 125 kg	Stainless Steel	Stainless Steel	3 Mounting Holes	400 Series Stainless Steel	400°F	Optional	✓

HDBT 1-3/16 IR MW

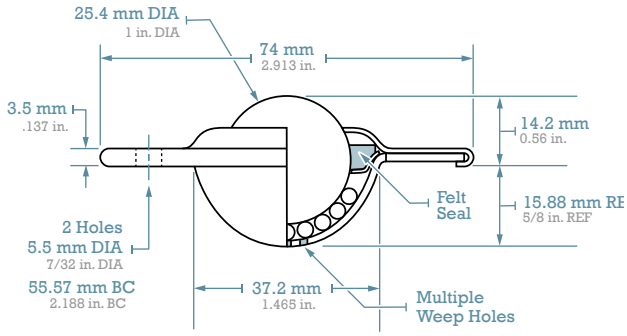
Drop In Fit Hole Size: 1.842 +/- .005

*Any other fits will require the use of samples



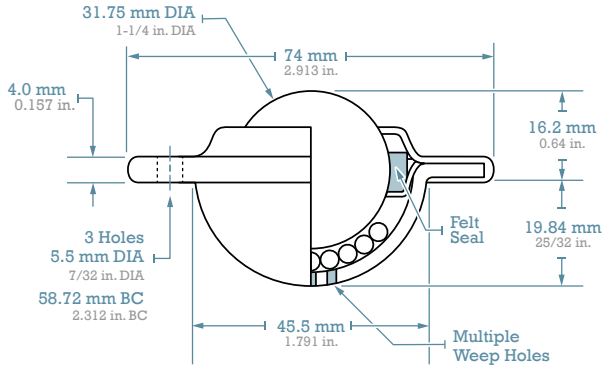
FSBT 1 SS MW

Mounting Hole Size: 1.845 +/- .005



FSBT 1-1/4 SS MW

Mounting Hole Size: 2.171 +/- .005



Individual Product Dimension files are available online.
CAD Drawings available upon request.

info@hudsonbearings.com

All product designs subject to change, please verify accuracy of dimensions before fabrication.

Hudson BEARINGS

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