



## Product Description

Dry sliding bearings are composed of a unique combination of materials, consisting of a carbon steel backing, an intermediate layer of sintered bronze, and self-lubricating polytetrafluoroethylene (PTFE) sliding lining. This combination offers a resilient centralization device, preventing metal on metal contact in dynamic, high load applications. Dry sliding bearings also have good wear resistance, excellent heat conductivity, low thermal expansion, and a low friction over a wide range of loads, speeds, and temperatures. They are suitable for reciprocating, oscillating, rotating, and sliding movements.

Depending on your unique applications, we offer a range of dry sliding bearing materials and design options to meet the performance requirements. The most commonly utilized designs are made from carbon steel, sintered bronze, and either a filled or loaded PTFE. Dry Sliding bearings are used in a wide variety of industries, including:

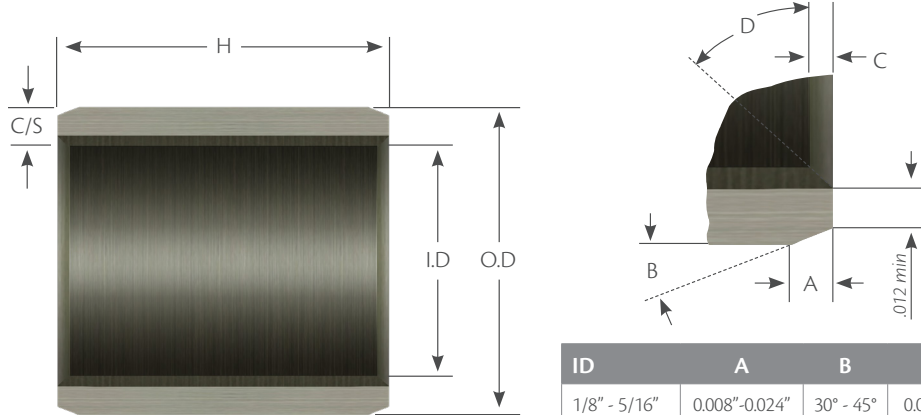
- Oil Exploration
- Agriculture
- Hydraulics & Valves
- Automotive
- Material Handling
- All Terrain Vehicles (ATVs)
- Lawn & Outdoor Equipment
- Medical & Dental

## Part Numbers:

DSB -        HT         
          |                  |  
      Nom. I.D.          Height

**Example:** DU 56HT56, Dry Slide Bearing, 3-1/2" Nominal ID, 3-1/2" Height

# Dry Slide Bearings



ID	A	B	C	D
1/8" - 5/16"	0.008"-0.024"	30° - 45°	0.004"- 0.012"	30° - 45°
3/8" - 11/16"	0.020"-0.040"	20° - 30°	0.005"- 0.025"	40° - 55°
3/4" - 7"	0.020" -0.040"	15° - 25°	0.005"- 0.0025"	40° - 50°

Part Number	Nominal Dimensions				Groove Dimensions				Actual ID		
	ID	OD	H	C/S	Shaft		Housing		Min.	Max	
			±0.010		Min.	Max.	Min.	Max.			
02HT02	1/8	3/16	1/8	0.0305	0.0315	0.1236	0.1243	0.1873	0.1878	0.1243	0.1268
02HT03			3/16								
02SHT025	5/32	7/32	5/32	0.0305	0.0315	0.1547	0.1554	0.2186	0.2191	0.1556	0.1581
02SHT04			1/4								
03HT03	3/16	1/4	3/16	0.0305	0.0315	0.1858	0.1865	0.2497	0.2503	0.1867	0.1893
03HT04			1/4								
03HT06			3/8								
04HT04	1/4	5/16	1/4	0.0305	0.0315	0.2481	0.2490	0.3122	0.3128	0.2492	0.2518
04HT06			3/8								
05HT06	5/16	3/8	3/8	0.0305	0.0315	0.3106	0.3115	0.3747	0.3753	0.3117	0.3143
05HT08			1/2								
06HT06	3/8	15/32	3/8	0.0461	0.0471	0.3731	0.3740	0.4684	0.4691	0.3742	0.3769
06HT08			1/2								
06HT12			3/4								
07HT08	7/16	17/32	1/2	0.0461	0.0471	0.4355	0.4365	0.5309	0.5316	0.4367	0.4394
07HT12			3/4								
08HT06	1/2	19/32	3/8	0.0461	0.0471	0.4980	0.4990	0.5934	0.5941	0.4992	0.5019
08HT08			1/2								
08HT10			5/8								
08HT14			7/8								
09HT08	9/16	21/32	1/2	0.0461	0.0471	0.5605	0.5615	0.6559	0.6566	0.5617	0.5644
09HT12			3/4								
10HT08	5/8	23/32	1/2	0.0461	0.0471	0.6230	0.6240	0.7184	0.7192	0.6242	0.6270
10HT10			5/8								
10HT12			3/4								
10HT14			7/8								

Dry Slide Bearings

# Dry Slide Bearings

IMPERIAL SEALS

Dry Slide Bearings

Part Number	Nominal Dimensions			C/S		Groove Dimensions				Actual ID			
	ID	OD	H ±0.010	Min.	Max.	Shaft		Housing		Min.	Max.		
						Min.	Max.	Min.	Max.				
11HT14	11/16	25/32	7/8	0.0461	0.0471	0.6855	0.6865	0.7809	0.7817	0.6867	0.6895		
12HT08	3/4	7/8	1/2	0.0615	0.0627	0.7479	0.7491	0.8747	0.8755	0.7493	0.7525		
12HT12			3/4										
12HT16			1										
14HT12	7/8	1	3/4										
14HT14			7/8										
14HT16			1										
16HT12	1	1 - 1/8	3/4			0.0770	0.0784	0.9979	0.9991	1.1246	1.1256	0.9992	1.0026
16HT16			1										
16HT24			1 - 1/2										
18HT12	1 - 1/8	19/32	3/4										
18HT16			1										
20HT12	1 - 1/4	1 - 13/32	3/4	0.0923	0.0941			1.2472	1.2488	1.4058	1.4068	1.2490	1.2528
20HT16			1										
20HT20			1 - 1/4										
20HT28			1 - 3/4										
22HT16	1 - 3/8	1 - 17/32	1										
22HT22			1 - 3/8										
22HT28			1 - 3/4										
24HT16	1 - 1/2	1 - 21/32	1			0.0923	0.0941	1.4972	1.4988	1.6558	1.6568	1.4990	1.5028
24HT20			1 - 1/4										
24HT24			1 - 1/2										
24HT32			2										
26HT16	1 - 5/8	1 - 25/32	1	0.0902	0.0928			1.6222	1.6238	1.7808	1.7818	1.6240	1.6278
26HT24			1 - 1/2										
28HT16	1 - 3/4	1 - 15/16	1										
28HT24			1 - 1/2										
28HT28			1 - 3/4										
28HT32			2										
30HT16	1 - 7/8	2 - 1/16	1			0.0923	0.0941	1.8721	1.8737	2.0621	2.0633	1.8739	1.8787
30HT30			1 - 7/8										
30HT36			2 - 1/4										
32HT16	2	2 - 3/16	1					0.0902	0.0928	1.9969	1.9987	2.1871	2.1883
32HT24			1 - 1/2										
32HT32			2										
32HT40			2 - 1/2										
36HT32	2 - 1/4	2 - 7/16	2										
36HT36			2 - 1/4										

# Dry Slide Bearings

Part Number	Nominal Dimensions			C/S		Groove Dimensions				Actual ID	
	ID	OD	H	Min.	Max.	Shaft		Housing		Min.	Max.
			±0.010			Min.	Max.	Min.	Max.		
36HT40	2 - 1/4	2 - 7/16	2 - 1/2	0.0902	0.0928	2.2489	2.2507	2.4365	2.4377	2.2509	2.2573
36HT48			3								
40HT32	2 - 1/2	2 - 11/16	2			2.4993	2.5011	2.6869	2.6881	2.5013	2.5077
40HT40			2 - 1/2								
40HT48			3								
40HT56			3 - 1/2								
44HT32	2 - 3/4	2 - 15/16	2			2.7482	2.7500	2.9358	2.9370	2.7502	2.7566
44HT40			2 - 1/2								
44HT48			3								
44HT56			3 - 1/2								
48HT32	3	3 - 3/16	2 - 1/2			2.9982	3.0000	3.1858	3.1872	3.0002	3.0068
48HT48			3								
48HT60			3 - 3/4								
56HT40	3 - 1/2	3 - 11/16	2 - 1/2			3.4978	3.5000	3.6858	3.6872	3.5002	3.5068
56HT48			3								
56HT60			3 - 3/4								
64HT48	4	4 - 3/16	3	3.9978	4.0000	4.1858	4.1872	4.0002	4.0068		
64HT60			3 - 3/4								
64HT76			4 - 3/4								
80HT48	5	5 - 3/16	3	4.9961	4.9986	5.1844	5.1860	4.9988	5.0056		
80HT60			3 - 3/4								
96HT48	6	6 - 3/16	3	5.9975	6.0000	6.1858	6.1874	6.0002	6.0070		
96HT60			3 - 3/4								
112HT60	7	7 - 3/16	3 - 3/4	6.9929	6.9954	7.1812	7.1830	6.9956	7.0026		

Dry Slide Bearings