| PATTERN | REF No. | BALL SIZE (mm) | WEIGHT (KGS) | DIMENSIONS (mm) A Maximum Diameter | B Working Height of Ball | C Ball Exposure above Outer Ring | L Overall Length | N Length of Thread | S Base to Top of Body | P Thread Size | X Dimension Across Flats | DYNAMIC LOAD CAPACITY (kg) TYPE 13 Carbon Steel Balls. | TYPE 16 Stainless Steel Balls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HEVI-LOAD 0 | 7101* | 12.7 | 0.036 | 20.6 | 19.6 | 3.5 | - | - | 16.1 | - | - | 35 | 35 |
| | 7120 | 25.4 | 0.394 | 44.5 | 41.4 | 5.6 | | | 35.8 | | | 135 | 135 |
| | 7121 | | 0.550 | 50.8 | 44.7 | 6.1 | | | 38.6 | | | 320 | 215 |
| | 7150 | 38.1 | 1.0 | 60.0 | 61.5 | 13 | | | 48.5 | | | 1000 | 670 |
| | 7170 | 50.8 | 5.02 | 101.6 | 98.4 | 14.3 | | | 84.1 | | | 2000 | 1330 |
| HEVI-LOAD 1 | 7110* | 12.7 | 0.042 | 20.6 | 19.6 | 3.5 | 35.8 | 16.2 | 16.1 | 5/16" UNF | - | 35 | 35 |
| | 7106* | | | | | | | | | M8 | | | |
| | 7127 | 25.4 | 0.431 | 44.5 | 48.3 | 5.6 | 72.4 | 24.1 | 35.8 | 1/2" UNF | 19 | 135 | 135 |
| | 7128 | | | | | | | | | M12 | | | |
| | 7130 | | 0.581 | 50.8 | 51.3 | 6.1 | 77 | 25.7 | 38.6 | M12 | 19 | 320 | 215 |
| | 7131 | | | | | | | | | 1/2" UNF | | | |
| | 7153 | 38.1 | 1.14 | 60.0 | 73.5 | 13 | 114.3 | 40.8 | 48.5 | M20 | 30 | 1000 | 670 |
| | 7154 | | | | | | | | | 3/4"UNF | | | |
| | 7172 | 50.8 | 5.26 | 101.6 | 109.1 | 14.3 | 159 | 49.9 | 84.1 | M24 | 38 | 2000 | 1330 |
| | 7173 | | | | | | | | | 1"UNF | | | |

**Hevi-Load ball units Ref. No's 7104 and 7103 have a round flange with two fixing holes.**

| PATTERN | REF No. | BALL SIZE (mm) | WEIGHT (KGS) | DIMENSIONS (mm) A Maximum Diameter | B Working Height of Ball | C Ball Exposure above Outer Ring | E Distance Under Flange to Base | F Flange Thickness | G Centres of Fixing Holes | H Hole Diameter & Fixing Holes | J Major Flange Size | S Base to Top of Body | DYNAMIC LOAD CAPACITY (kg) TYPE 13 Carbon Steel Balls. | TYPE 16 Stainless Steel Balls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HEVI-LOAD 2 | 7104* | 12.7 | 0.082 | 23.8 | 11.2 | 3.5 | 11.2 | 3.2 | 34.8 ±0.2 | 2x3.6 | 44.5 | 19.1 | 35 | 35 |
| | 7124 | 25.4 | 0.463 | 44.5 | 10.3 | 5.6 | 31.3 | 4.7 | 44.5 ±0.2 | 4x5.6 | 57.2 | 36 | 135 | 135 |
| | 7125 | | 0.746 | 50.8 | 13.0 | 6.1 | 32.0 | 6.9 | 57.9 ±0.2 | 4x7.1 | 76.2 | 38.9 | 320 | 215 |
| | 7152 | 38.1 | 1.24 | 60.0 | 25.4 | 13 | 35.8 | 12.4 | | | | 48.2 | 1000 | 670 |
| | 7171 | 50.8 | 6.14 | 101.6 | 33.3 | 14.3 | 65.0 | 19.0 | 101.6 ±0.2 | 4x11 | 127.0 | 84 | 2000 | 1330 |
| HEVI-LOAD 3 | 7103* | 12.7 | 0.086 | 23.8 | 22.6 | 3.5 | - | 3.2 | 34.8 ±0.2 | 2x3.6 | 44.5 | 19.1 | 35 | 35 |
| | 7122 | 25.4 | 0.459 | 44.5 | 41.4 | 5.6 | - | 4.8 | 44.5 ±0.2 | 4x5.6 | 57.2 | 35.8 | 135 | 135 |
| | 7123 | | 0.735 | 50.8 | 45.5 | 6.4 | - | 6.3 | 57.9 ±0.2 | 4x7.1 | 76.2 | 39.1 | 320 | 215 |
| | 7151 | 38.1 | 1.3 | 60.0 | 62.2 | 13 | - | 12.4 | | | | 49.2 | 1000 | 670 |
| | 7174 | 50.8 | 5.52 | 101.6 | 98.3 | 14.3 | - | 9.6 | 101.6 ±0.2 | 4x11 | 127.0 | 84.0 | 2000 | 1330 |

**To order, specify REF N° and TYPE, i.e. 7101-13.**

**General Tolerance unless stated ±0.3mm**

# HEVI-LOAD UNITS 0,1,2 & 3

Alwayse Hevi-Load Units are designed and manufactured to precise standards.

They offer the highest performance available in load transfer applications with load ball sizes from 12.7mm to 50.8mm diameters and a load capacity range from 35kg to 2000kg used either ball up or ball down.

Hevi-Load Units run on the re-circulating ball principal. The load ball rotates on a bed of small balls supported on a hardened steel, precision machined table.

They can work at maximum capacity in temperatures from - 30°c to +100°c.

Drain hole or grease points can be incorporated on request.

No spanner flats for 7110 and 7106 Hevi-Load Units. *Models marked with an asterisk have a bearing shell and are assembled with no felt seal.

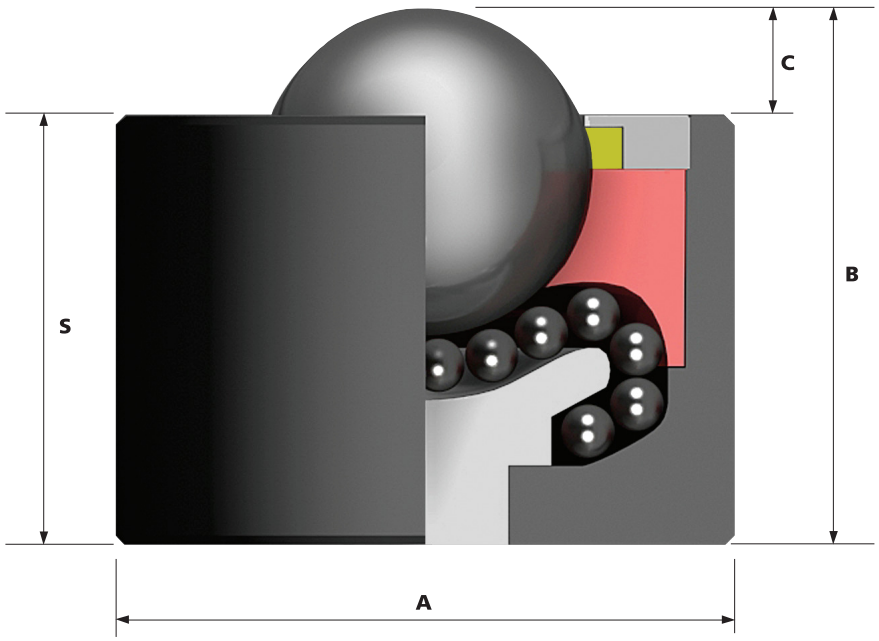
Type 15 Units (all stainless steel) available on request. When using stainless balls, reduce Type 13 load capacity by 33.3%.

All units are machined using CNC machines from one piece of steel, therefore flanges and threads are integral.

All hevi-load units have a zinc iron black coated housing for corrosion resistance.

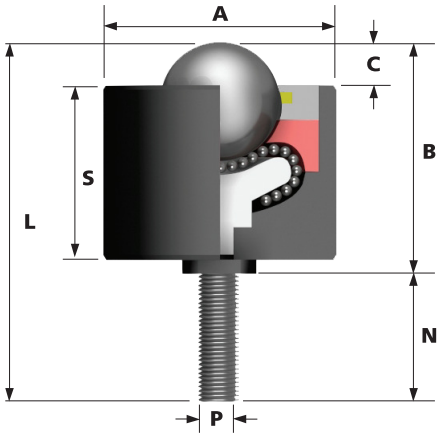
## HEVI-LOAD 0

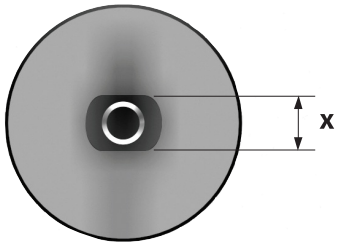
Features: High load capacity, robust body.
The Hevi-Load 7121 is dimensionally compatible with the Hi-Tech 6025-0.




## HEVI-LOAD 1

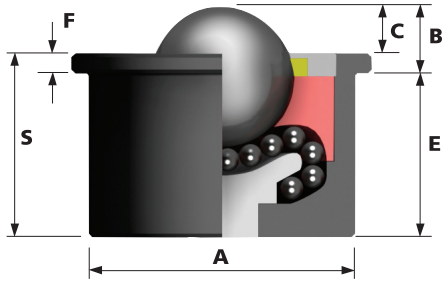
Features: High load capacity, bolt fixing. Two spanner flats for fixing and removing. Drill hole fixing. Maximum tightening torques range from 15Nm for M8 to 25Nm for M24.

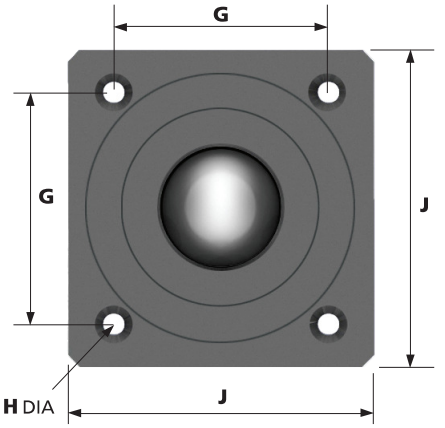


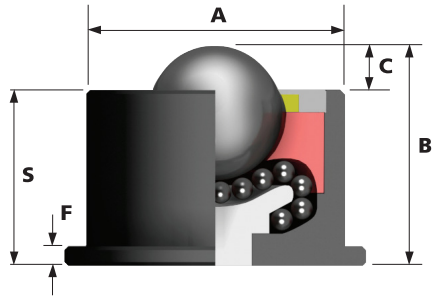
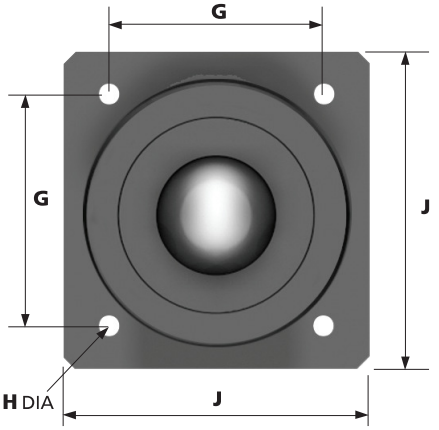




## HEVI-LOAD 2

Features: High load capacity, top flange fixing. The Hevi-Load 7125 is dimensionally compatible with the Hi-Tech 6025-2.




## HEVI-LOAD 3

Features: High load capacity, bottom flange fixing. Drill hole fixing. The Hevi-Load 7123 is dimensionally compatible with the Hi-Tech 6025-3.