

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

Always 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.

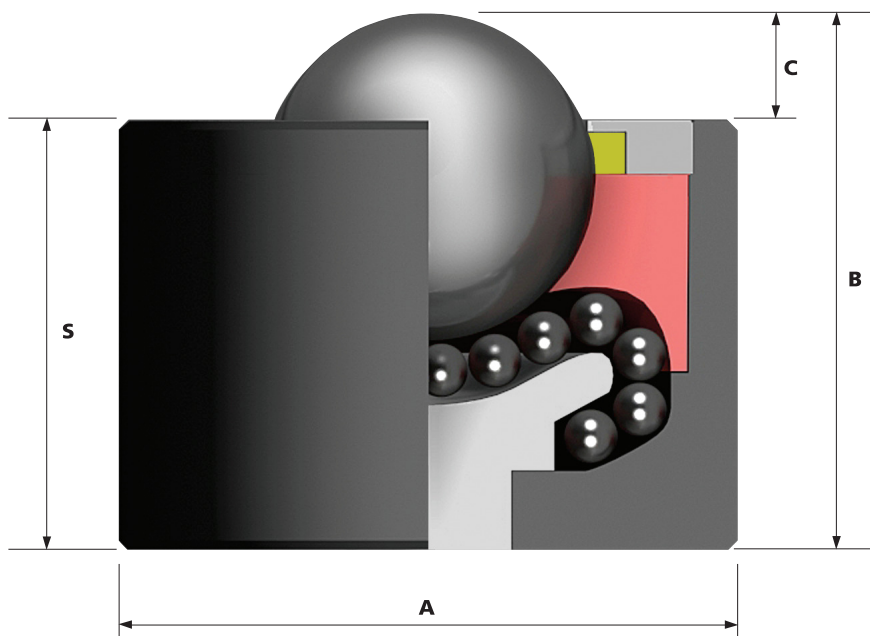
Type 15 Units (all stainless steel) available on request. When using stainless balls, reduce Type 13 load capacity by 33.3%.

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.

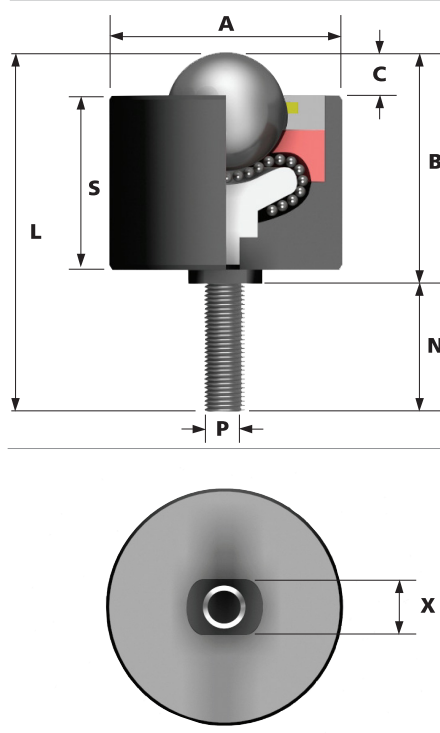
## HEVI-LOAD 0

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



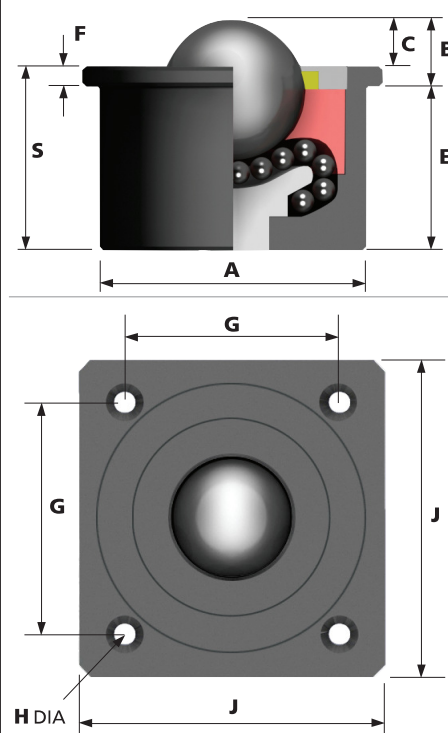
## HEVI-LOAD 1

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.



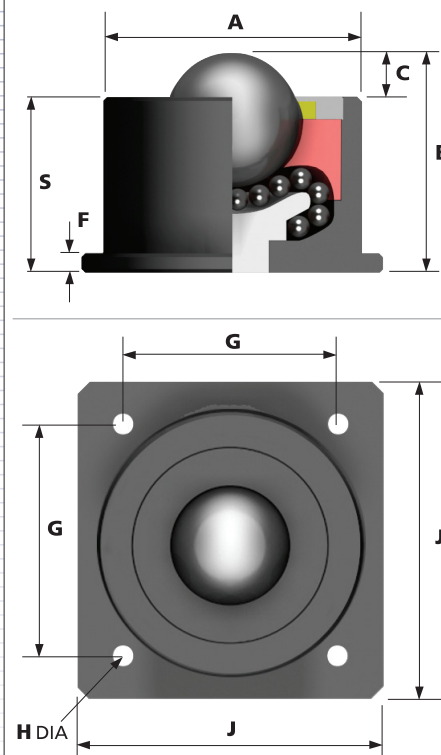
## HEVI-LOAD 2

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.



| PATTERN | REF No. | BALL SIZE (mm) | WEIGHT (KGS) | DIMENSIONS (mm)  |                        |                                |                |                  |                     |             |                        | DYNAMIC LOAD CAPACITY (kg) |         |
|---------|---------|----------------|--------------|------------------|------------------------|--------------------------------|----------------|------------------|---------------------|-------------|------------------------|----------------------------|---------|
|         |         |                |              | A                | B                      | C                              | L              | N                | S                   | P           | X                      | TYPE 13                    | TYPE 16 |
|         |         |                |              | Maximum Diameter | Working Height of Ball | Ball Exposure above Outer Ring | Overall Length | Length of Thread | Base to Top of Body | Thread Size | Dimension Across Flats |                            |         |
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|-------------|-------|------|-------|-------|------|------|---|---|------|---|---|------|------|
| 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    |    |      |      |

| DIMENSIONS (mm)  |                        |                                |                               |                  |                         |                              |                   |                     |  | DYNAMIC LOAD CAPACITY (kg) |                        |
|------------------|------------------------|--------------------------------|-------------------------------|------------------|-------------------------|------------------------------|-------------------|---------------------|--|----------------------------|------------------------|
| A                | B                      | C                              | E                             | F                | G                       | H                            | J                 | S                   |  | TYPE 13                    | TYPE 16                |
| Maximum Diameter | Working Height of Ball | Ball Exposure above Outer Ring | Distance Under Flange to Base | Flange Thickness | Centres of Fixing Holes | Hole Diameter & Fixing Holes | Major Flange Size | Base to Top of Body |  | Carbon Steel Balls.        | Stainless Steel Balls. |

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

|             |       |      |       |       |      |      |      |      |            |       |       |      |      |      |
|-------------|-------|------|-------|-------|------|------|------|------|------------|-------|-------|------|------|------|
| 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 | 101.6 ±0.2 | 4x11  | 127.0 | 84   | 1000 | 670  |
|             | 7171  | 50.8 | 6.14  | 101.6 | 33.3 | 14.3 | 65.0 | 19.0 |            |       |       |      | 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 | 101.6 ±0.2 | 4x11  | 127.0 | 84.0 | 1000 | 670  |
|             | 7174  | 50.8 | 5.52  | 101.6 | 98.3 | 14.3 | - | 9.6  |            |       |       |      | 2000 | 1330 |

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

General Tolerance unless stated ±0.3mm