BALL SCREWS

HIGH LIFE EXPECTANCY
EXCELLENT COST PERFORMANCE RATIO

> MATERIAL:
Cf 53 induction-hardened to HRC 62 ± 2

> SPECIFICATIONS:
Pitch accuracy ≤ 0.1 mm / 300 mm,
ISO class 7.
Screw pitches of 2.5, 4, 5, 10 and 20 mm.
Available with machined and unmachined
ends in lengths up to 3 m.
Ø16 mm, rolled and polished.

Produce greater than 90% efficiency in
converting rotary to linear motion.

Machined screws are designed to be held
by a double bearing on one side and on the
other side by either a floating bearing, or no
bearing and a guiding ball nut.

---

**METRIC COMPONENT CATALOG NUMBER**

<table>
<thead>
<tr>
<th>Machining</th>
<th>Pitch Code (mm)</th>
<th>Length Code</th>
<th>Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>025 – 2.5</td>
<td>045 – 452</td>
<td></td>
</tr>
<tr>
<td></td>
<td>040 – 4</td>
<td>055 – 552</td>
<td></td>
</tr>
<tr>
<td></td>
<td>050 – 5</td>
<td>065 – 652</td>
<td></td>
</tr>
<tr>
<td></td>
<td>100 – 10</td>
<td>075 – 752</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200 – 20</td>
<td>085 – 852</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>095 – 952</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>105 – 1052</td>
<td></td>
</tr>
</tbody>
</table>

* These lengths are available machined only.

** Longer ball screws available on special request.
MK SERIES ANTI-BACKLASH BALL NUTS

THIS ISEL BALL NUT IS PATENTED

> MATERIAL:
Ball Nut - Steel, Cf 53, ground, polished and hardened to HRC 62 ± 2

> SPECIFICATIONS:
Ball nut is 50 mm long by 28 mm diameter.
2 optional mounting brackets allow for flange mounting or base mounting. Both feature standard lubrication ports and are made of steel with a black oxide finish.
Available in 2.5, 5, 10 and 20 mm pitch.
Repeatability < 0.01 mm, accuracy < 0.1 mm/300 mm when used with our sleeve.
Optional wipers available.
Compatible with 16 mm diameter ball screws.
See index under Ball Screws.

Produce greater than 90% efficiency in converting rotary to linear or linear to rotary motion.

**METRIC COMPONENT**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>S6652HM2135025</td>
<td>2.5</td>
</tr>
<tr>
<td>S6652HM2135050</td>
<td>5</td>
</tr>
<tr>
<td>S6652HM2135100</td>
<td>10</td>
</tr>
<tr>
<td>S6652HM2135200</td>
<td>20</td>
</tr>
</tbody>
</table>

**Catalog Number**

- FLANGE MOUNTING BLOCK (Fig. 2)  
  S6652HF2135
- BASE MOUNTING BLOCK (Fig. 3)  
  S6652HMB2135
- WIPERS (not shown)  
  S6652HW6135
SERIES 1 ANTI-BACKLASH BALL NUTS

THIS ISEL BALL NUT IS A PATENTED ANTI-BACKLASH DESIGN

> MATERIAL:
  Balls - Hardened Steel HRC 63 ± 2
  Ball Nut - Steel, C53, ground, polished and hardened to HRC 62 ± 2

> SPECIFICATIONS:
  Repeatability of 0.01 mm and accuracy of 0.1 mm/300 mm when used with our ball screws.
  Blank shaft is used to retain balls during shipment.
  Can be used with 16 mm ball screws; see index.
  Available in 2 heights of 25.3 mm and 28.5 mm.

Photographed with blank shaft to retain balls.

---

**METRIC COMPONENT**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Fig. No.</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>S6653HM2130040</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>S6653HM2130050</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>S6653HM2130100</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>S6653HM2130200</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

---

Fig. 1

Fig. 2