2.2
Star knobs
Wing screws
Knurled screws
### Star knobs, Knurled screws, Wing screws

<table>
<thead>
<tr>
<th>Part Number</th>
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<tbody>
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<td>Star knobs</td>
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<td>293</td>
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<tr>
<td>GN 6335.5</td>
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Star knobs, Wing screws, Knurled screws

**GN 531**
- Wing screws
- Plastic / Stainless Steel
- → Page 304

**GN 534**
- Knurled screws
- Plastic
- → Page 312

**GN 420**
- Knurled nuts
- Plastic / Stainless Steel
- → Page 316

**GN 834**
- Wing nuts
- Stainless Steel
- → Page 306

**GN 531.1**
- Wing screws
- Plastic
- → Page 305

**GN 835**
- Wing screws
- Stainless Steel
- → Page 307

**GN 434**
- Wing nuts
- Stainless Steel
- → Page 310

**GN 7336**
- Knurled knobs
- Plastic
- → Page 314

**GN 433**
- Wing screws
- Stainless Steel
- → Page 310

**GN 7336.5**
- Knurled screws with pivot
- Plastic / Stainless Steel
- → Page 315

**GN 421.10**
- Knurled screws with ball pin
- Plastic
- → Page 420

**GN 432**
- Wing nuts
- Stainless Steel
- → Page 311

**GN 421.11**
- Knurled screws
- Plastic
- → Page 318

**GN 421**
- Knurled screws
- Plastic / Stainless Steel
- → Page 317

**GN 420**
- Knurled nuts
- Plastic / Stainless Steel
- → Page 316

**GN 434**
- Wing nuts
- Stainless Steel
- → Page 310

**GN 421**
- Knurled screws
- Plastic / Stainless Steel
- → Page 318

**GN 432**
- Wing nuts
- Stainless Steel
- → Page 311

**GN 7336**
- Knurled screws
- Plastic / Stainless Steel
- → Page 314
### Star knobs, Wing screws, Knurled screws

**GN 421.12**
Knurled screws with thrust pad, Plastic

→ Page 320

**DIN 466**
Knurled nuts
Stainless Steel

→ Page 325

**DIN 467**
Flat knurled nuts
Steel

→ Page 331

**GN 536**
Knurled nuts
Stainless Steel

→ Page 321

**DIN 464**
Knurled screws
Steel

→ Page 326

**DIN 467**
Flat knurled nuts
Stainless Steel

→ Page 331

**GN 535**
Knurled screws
Stainless Steel

→ Page 321

**DIN 464**
Knurled screws
Stainless Steel

→ Page 327

**DIN 6303**
Knurled nuts
Steel

→ Page 322

**DIN 653**
Flat knurled screws
Steel

→ Page 328

**DIN 6303**
Knurled nuts
Stainless Steel

→ Page 323

**DIN 653**
Flat knurled screws
Stainless Steel

→ Page 329

**GN 6303.1**
Quick release knurled nuts
Steel

→ Page 324

**DIN 653.10**
Flat knurled screws with pivot
Steel

→ Page 330

**DIN 466**
Knurled nuts
Steel

→ Page 325

**DIN 653.10**
Flat knurled screws with pivot
Stainless Steel

→ Page 330
### Cast iron
- Fettled and tumbled

### Stainless Steel-Precision casting
- AISI CF-8
- Matt shot-blasted

### Aluminium
- Matt finish (ground)
- Flash mark not visible
- Polished

### ISO-Fundamental tolerances
- Page 1132

### Stainless Steel characteristics
- Page 1144

### RoHS compliant

### Specification

<table>
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<tr>
<th>d (mm)</th>
<th>d2 Thread Type D</th>
<th>d3 H7 Bore Type B</th>
<th>d4</th>
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<th>h2 Type B, C, D, E</th>
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### Information

- Star knobs with threaded bolt GN 6336.4 → Page 278
- Star knobs with threaded bolt GN 6336.5 → Page 279

---

**Star knob Cast iron**

**DIN6336-GG-63-M12-D**

<table>
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**Star knob Aluminium**

**DIN6336-AL-40-B8-C-PL**

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<th>4 Type</th>
<th>5 Finish</th>
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</table>
**DIN 6336**

**Star knobs**

**Plastic**

- **Duroplast (PF)**
  - KU black, shiny finish
  - Bush: Steel zinc plated, blue passivated (standard)
  - Brass: add MS on order code

- **Technopolymer (Polyamide PA)**
  - KT shock-resistant
  - black, matt finish
  - Bush: Steel zinc plated, blue passivated (standard)
  - Stainless Steel AISI 303: add NI on order code

**Information**

Star knobs DIN 6336 with bore H7 are available under code GN 6336.1 and GN 6336.2.

see also...

- **Star knobs with threaded bolt GN 6336.4 → Page 278**
- **Star knobs with threaded bolt GN 6336.5 → Page 279**
- **Star knobs GN 6336.1 / GN 6336.2 (with protruding steel bush) → Page 276**
- **Quick release-Star knobs GN 6336.3 → Page 281**

**Specification**

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<th>d₃</th>
<th>h₁</th>
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**Star knob, Duroplast**

**DIN 6336-KU-63-M12-K**

**Star knob, Technopolymer**

**DIN 6336-KT-50-M10-D**

**Plastic characteristics → Page 1141**

**RoHS compliant**
## Star knobs

**GN 6336.1**
- **Duroplast**

**GN 6336.2**
- **Technopolymer**

**Star knobs with protruding steel bush**

### Star knobs GN 6336.1 / GN 6336.2 with all steel bush have important advantages:

- The face of the bush is exactly square to the bore and is with the complete diameter out of steel. The protruding steel bush allows a perfect cross-dowels connection.

### Specification

- **GN 6336.1**
  - Plastic Duroplast (PF)
  - black, shiny finish
  - Bush
  - Steel zinc plated, blue passivated

- **GN 6336.2**
  - Plastic Technopolymer (Polyamide PA)
  - shock-resistant
  - black, matt finish
  - Bush
  - Steel zinc plated, blue passivated

- **ISO-Fundamental Tolerances → Page 1132**
- **Plastic characteristics → Page 1141**
- **RoHS compliant**

### Information

Star knobs GN 6336.1 / GN 6336.2 with all steel bush have important advantages:

- The face of the bush is exactly square to the bore and is with the complete diameter out of steel. The protruding steel bush allows a perfect cross-dowels connection.

see also...
- *Star knobs with threaded bolt GN 6336.4 → Page 278*

### Table: Star knob Duroplast GN 6336.1-63-M12-E

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### Table: Star knob Technopolymer GN 6336.2-50-B10-C

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<td>B 12</td>
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<td>M 12</td>
<td>B 16</td>
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</table>
Star knobs GN 6336.1 / GN 6336.2 with all steel bush have important advantages:

The face of the bush is exactly square to the bore and is with the complete diameter out of Stainless Steel. The protruding Stainless Steel bush allows a perfect cross-dowels connection.

### Specification

- **GN 6336.1**
  - Plastic
  - Duroplast (PF)
  - black, shiny finish
  - Bush
  - Stainless Steel AISI 303

- **GN 6336.2**
  - Plastic
  - Technopolymer (Polyamide PA)
  - shock-resistant
  - black, matt finish
  - Bush
  - Stainless Steel AISI 303

- **Stainless Steel characteristics** → Page 1144
- **Plastic characteristics** → Page 1141
- **RoHS compliant**

### Information

Star knobs GN 6336.1 / GN 6336.2 with all steel bush have important advantages:

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<tr>
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### Table

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Star knob Technopolymer / Stainless Steel

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### Specification
- Star knob details and dimensions see:
  - DIN 6336-KU / KT → Page 335
  - GN 6336.2 → Page 336
  - DIN 6336-GG → Page 334
- For Type SK, ST, TE the threaded bolts are zinc plated, blue passivated and moulded in position
- For Type SG the threaded bolt (blackened) is screwed in and secured by a cross-dowel.
- Plastic characteristics → Page 1141
- RoHS compliant

### Information
Should clamping with the bush face be necessary, then it is recommendable to use either Type TE or Type SG.

**see also...**
- Star knobs 6336.10 (with brass / plastic thrust pad) → Page 282

### How to order

<table>
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**Example:**
- GN 6336.4-SK-50-M10-30
Star knobs
with Stainless Steel threaded bolt

Type
ST Star knob DIN 6336
Plastic (KT) Technopolymer (Polyamide PA)
AM Star knob DIN 6336
Aluminium (AL) matt (ground)
AP Star knob DIN 6336
Aluminium (AL) polished
ES Star knob DIN 6336
Stainless Steel-
Precision casting (NI) matt shot-blasted

Specification
- Star knob details and dimensions see:
  - DIN 6336-KT → Page 275
  - DIN 6336-AL → Page 274
  - DIN 6336-NI → Page 274
- Threaded bolt
  Stainless Steel
  German Material No.
    - Type ST:
      German Material No. 1.4547 (M5 ... M10)
      AISI 303 (M12)
    - Type AM / AP / ES
      AISI 303
- For the Types AM / AP and ES the threaded bolt is screwed in and secured by a cross-
dowel.
  - Stainless Steel characteristics → Page 1144
  - Plastic characteristics → Page 1141
  - RoHS compliant

Information
see also...
- Stainless Steel-Star knobs GN 5334 → Page 288
- Star knobs GN 6336.4 (with steel threaded bolt) → Page 278

How to order
GN 6336.5-ST-40-M8-20

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<td>M 10</td>
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<tr>
<td></td>
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Type| AM | AP | ES
---|----|----|----
ST | M 5 | M 8 | M 10
AM | M 6 | M 8 | M 10
AP | M 7 | M 8 | M 10
ES | M 8 | M 8 | M 12
Aluminium Star knobs, matt and polished
GN 5336 → Page 287
DIN 6336 → Page 274
DIN 6335 → Page 292
Quick release star knobs GN 6336.3 are used in such applications where the knob has to be completely removed after the releasing operation and refitted rapidly for re-clamping.

The knob is tilted over the threaded spindle. When in position, the knob is brought into a straight position for meshing of the two threads on nut and spindle. The knob will then have to be turned only by fraction of a rotation to achieve clamping.

Quick release knurled nuts GN 6303.1 ➔ Page 324

How to order

GN 6336.3-50-M10

1.7 Star knobs, Wing screws, Knurled screws | Page 281
Star knobs GN 6336.10 with brass / plastic pivot

### Specification
- Star knob DIN 6336
- Plastic Technopolymer (Polyamide PA) black, matt finish
- Threaded bolt Stainless Steel AISI 304 Cu
- Pivot
  - Brass
  - Plastic (Polyacetal POM)
- Stainless Steel characteristics → Page 1144
- Plastic characteristics → Page 1141
- RoHS compliant

### Information
Star knobs GN 6336.10 with brass or plastic thrust pad are used when indentations or damage is to be avoided.

**see also...**
- Knurled screws GN 421.10 → Page 319

### How to order
GN 6336.10-32-M6-20-KU

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<th>d_2</th>
<th>l_1 Nominal length</th>
<th>l_2 MS-pad</th>
<th>KU-pad</th>
<th>d_3 MS-pad</th>
<th>KU-pad</th>
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</table>
Star knobs GN 6336.11 / GN 6336.12 have a ball pin whose diameter is smaller than the core diameter of the thread. The movable thrust pad is easily clipped on and taken off. The thrust pads are supplied disassembled.

**Information**

Star knobs GN 6336.11 / GN 6336.12 have a ball pin whose diameter is smaller than the core diameter of the thread.

The movable thrust pad is easily clipped on and taken off.

The thrust pads are supplied disassembled.

*see also...*
- Ball jointed levelling feet GN 638 (without star knob) → Page 816
- Knurled thumb screws GN 421.11 / GN 421.12 → Page 320

---

**Specification**

- Star knob DIN 6336
  Plastic
  Technopolymer (Polyamide PA)
  black, matt
- Threaded stud
  Stainless Steel AISI 304 Cu
- Thrust pad
  Plastic
  Technopolymer (Polyacetal POM)
  - temperature resistant up to 80 °C
  - black, matt
- Plastic characteristics → Page 1141
- Stainless Steel characteristics → Page 1144
- RoHS compliant

---

**Information**

Star knobs GN 6336.11 / GN 6336.12 have a ball pin whose diameter is smaller than the core diameter of the thread.

The movable thrust pad is easily clipped on and taken off.

The thrust pads are supplied disassembled.

*see also...*
- Ball jointed levelling feet GN 638 (without star knob) → Page 816
- Knurled thumb screws GN 421.11 / GN 421.12 → Page 320

---

**Specification**

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<td>M 10</td>
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</tr>
</tbody>
</table>

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**Information**

Star knobs GN 6336.11 / GN 6336.12 have a ball pin whose diameter is smaller than the core diameter of the thread.

The movable thrust pad is easily clipped on and taken off.

The thrust pads are supplied disassembled.

*see also...*
- Ball jointed levelling feet GN 638 (without star knob) → Page 816
- Knurled thumb screws GN 421.11 / GN 421.12 → Page 320

---

**Star knobs with ball pin**

GN 6336.11-40-M8-50

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**Star knobs with movable thrust pad**

GN 6336.12-50-M10-45-25

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### Star knobs

**GN 5337.2**

#### ELESA Original design VCT.

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<td>with cap (threaded blind bore)</td>
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<tr>
<td>C</td>
<td>with cap (blind bore H9)</td>
</tr>
<tr>
<td>D</td>
<td>without cap (threaded through bore)</td>
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</table>

#### GN 5337.2-40-M8-E

- **d₁**
- **d₂**
- **SV**
- **Type E**

#### GN 5337.2-32-M5-D-SV

- **d₁**
- **d₃ (d₄, d₅)**
- **Type**
- **Material**

### Specification

- **Plastic Technopolymer (Polypropylene PP)**
  - reinforced, shock-resistant
  - temperature resistant up to 90 °C
  - black, matt finish

- **Type E and D**
  - Bush Brass

- **Type C**
  - Bush Steel

- **Plastic (only Type E / D)**
  - Technopolymer (Polyamide PA)
    - glass fibre reinforced
    - self extinguishing
    - temperature resistant up to 150 °C
    - black, matt finish

- **Plastic characteristics → Page 1141**

- **RoHS compliant**

### Information

Star knobs GN 5337.2 Type SV are produced from a plastic material, which according to UL 94 V-O is classified as a self extinguishing material. This classification to UL 94 V-O (Underwriters Laboratories) determines the resistance of a plastic material to fire. This comprises a test on a piece of plastic material of a specific form and dimensions in a vertical position to be set alight, whereby the flame according to V-O must extinguish itself without burning droplets developing.

### Table

<table>
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<th>d₁ (mm)</th>
<th>d₂ (mm)</th>
<th>SV*</th>
<th>d₃ (mm)</th>
<th>d₄ H9 (mm)</th>
<th>d₅ (mm)</th>
<th>h₁ (mm)</th>
<th>h₂ (mm)</th>
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<td>SV*</td>
<td>M 6</td>
<td>M 6 M 6</td>
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* not available from stock, requires a minimum order quantity
### How to order

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<td>2 d₂</td>
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<tr>
<td>3 Length l</td>
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### Specification

- **Plastic**
  - Technopolymer (Polypropylene PP)
  - reinforced, shock-resistant
  - temperature resistant up to 90 °C
  - black, matt finish

- **Threaded bolt**
  - Steel
  - zinc plated, blue passivated

- **Plastic characteristics** → Page 1141

- **RoHS compliant**

### On request

- caps in other colours
  - (standard colour: black)

### Table

<table>
<thead>
<tr>
<th>d₁</th>
<th>d₂</th>
<th>Length l</th>
<th>d₃</th>
<th>d₄</th>
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<td>40</td>
<td>M 6</td>
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<td>-</td>
<td>-</td>
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<td>26</td>
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</tbody>
</table>
Safety star knobs

Safety star knobs GN 5337.3 are most suitable for applications where an accidental or inconsiderate loosening or adjusting of the knob may lead to accidents.

In non-operative condition, the star knob is not linked with the threaded insert, i.e. the knob can be turned easily.

Only after axial pushing of the star knob, the two serrations get engaged so that the knob can be untightened resp. tightened.

After releasing, the two serrations are disengaged by a spring. The five lobes give the knobs a specific style; this shape has also enabled the operator to achieve a higher torque. The star knob is an original ELESA-Design.

see also...
- Safety tension levers GN 312 → Page 226

### Information

<table>
<thead>
<tr>
<th>d₁</th>
<th>d₂</th>
<th>Length l</th>
<th>d₃</th>
<th>d₄</th>
<th>d₅</th>
<th>h₁</th>
<th>h₂</th>
<th>h₃</th>
<th>h₄ Stroke</th>
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<td>M 8</td>
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<td>32</td>
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<td>16</td>
<td>22</td>
<td>16,5</td>
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### Specification

- **Knob Plastic**
  - Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130 °C
  - black, matt finish

- **Threaded bush / Threaded stud**
  - Steel ST
  - blackened
  - Stainless Steel AISI 303 NI

- **Annular gear**
  - Zinc die casting

- **Stainless Steel characteristics → Page 1144**
- **Plastic characteristics → Page 1141**
- **RoHS compliant**

### On request

- caps in other colours
  (standard colour: black)

---

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<td>M 6</td>
<td>M 8</td>
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</table>
Star knobs GN 5336 are forged, therefore a close grain structure is maintained providing a high tensile strength and a smooth surface.

Original ELESA design, now produced in metal in agreement with ELESA s.p.a.

### Specification
- Aluminium
  - matt finish (ground)
    - flash mark not visible
  - polished
- Type A (without bore)
  - only available with a matt finish (MT)
- Cross hole GN 110 → Page 1127
- ISO-Fundamental Tolerances → Page 1132
- RoHS compliant

### How to order

**Type**
A  casting only (unmachined)  
C  with blind bore H7  
D  with threaded through bore  
E  with threaded blind bore

<table>
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<td>70</td>
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<td>M 16</td>
<td>B 16</td>
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</table>

- **Aluminium**
  - matt finish (ground)  
    - flash mark not visible  
  - polished
- **Type A** (without bore)
  - only available with a matt finish (MT)
**GN 5334 | Stainless Steel-Star knobs**

---

**Specification**
- Stainless Steel AISI 304 matt shot-blasted
- Knob drawn from Stainless Steel-sheet
- Hub welded
- Cross hole GN 110 → Page 1126
- ISO-Fundamental tolerances → Page 1132
- Stainless Steel characteristics → Page 1144
- RoHS compliant

**Information**
Original ELESA design, now produced in metal in agreement with ELESA s.p.a.

**see also...**
- Stainless Steel-Triangular knobs GN 5339.5 → Page 299
- Stainless Steel-Star knobs GN 5335 → Page 291
- Stainless Steel-Wing nuts GN 834 → Page 306
- Stainless Steel-Knurled nuts GN 536 → Page 321

---

**How to order**

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<th>h₂ ≈</th>
<th>t min.</th>
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GN 5334 Stainless Steel-Star knobs with threaded bolt

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<tr>
<td>60</td>
<td>M 12</td>
<td>20</td>
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</tbody>
</table>

**Specification**
- Stainless Steel AISI 304 matt shot-blasted
- Knob drawn from Stainless Steel-sheet
- Hub with threaded bolt welded
- Stainless Steel characteristics ➔ Page 1144
- RoHS compliant

**Information**
Original ELESA design, now produced in metal in agreement with ELESA s.p.a.

see also...
- Stainless Steel-Wing screws GN 835 ➔ Page 307
- Stainless Steel-Knurled screws GN 535 ➔ Page 321

**How to order**
- GN 5334-50-M10-40

star knobs, Wing screws, Knurled screws
Stainless steel Star and Triangular knobs
GN 5334 → Page 288
GN 5335 → Page 291
GN 5339.5 → Page 299
### Stainless Steel-Star knobs GN 5335

Stainless Steel-Star knobs GN 5335 are a special development intended for the food processing machinery industry. The smooth and enclosed areas as well as the large corner radii comply with the requirements of hygiene standards.

- Stainless Steel AISI 303 matt shot-blasted
- Stainless Steel AISI 303 highly polished only Type D and E
- Cross hole GN 110 → Page 1127
- ISO-Fundamental Tolerances → Page 1132
- Stainless Steel characteristics → Page 1144
- RoHS compliant

#### Specification

<table>
<thead>
<tr>
<th>d₁ (mm)</th>
<th>d₂ (mm)</th>
<th>d₃ (mm)</th>
<th>h₁ (mm)</th>
<th>h₂ (mm)</th>
<th>t₁ (mm) min.</th>
<th>t₂ (mm)</th>
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#### Information

Stainless Steel-Star knobs GN 5335 are a special development intended for the food processing machinery industry. The smooth and enclosed areas as well as the large corner radii comply with the requirements of hygiene standards.

- See also...
  - Stainless Steel-Star knobs GN 5334 → Page 288
  - Stainless Steel-Wing nuts GN 834 → Page 306
  - Stainless Steel-Knurled nuts GN 536 → Page 321

#### Star knob, matt shot-blasted

**GN 5335-40-M8-E**

1. d₁
2. d₂ (d₃)
3. Type
4. highly polished

#### Star knob, highly polished

**GN 5335-50-M10-D-PL**

1. d₁
2. d₂
3. Type
4. highly polished
DIN 6335 | Star knobs
Cast iron / Stainless Steel / Aluminium

### Specification
- **Cast iron**
  - fettled and tumbled
- **Stainless Steel-Precision casting**
  - only Types A, D, E
    - AISI CF-8
    - matt shot-blasted
- **Aluminium**
  - only Types A, C, D, E
    - flash finish (ground)
    - flash mark not visible
    - polished
- **ISO-Fundamental tolerances** → Page 1132
- **Stainless Steel characteristics** → Page 1144
- **RoHS compliant**

### Information
- See also...
  - Star knobs with threaded bolt GN 6335.4 → Page 296

### Table
<table>
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### Diagram
- Type A
- Type B
- Type C
- Type D
- Type E

- **DIN 6335**
- **Star knobs**
- **Extract**
- **Cast iron / Stainless Steel / Aluminium**
Star knobs, DIN 6335 with bore H7 are available as GN 6335.1. see also...

- Star knobs with threaded bolt GN 6335.4 ➔ Page 296
- Star knobs with threaded bolt GN 6335.5 ➔ Page 297
- Star knobs GN 6335.1 / GN 6335.2 (with protruding steel bush) ➔ Page 294

### Specification

- Plastic
  - Duroplast (PF)
    - black, shiny finish
  - Bush
    - Steel zinc plated, blue passivated (standard)
    - Brass:
      - add MS on order code
- Plastic
  - Technopolymer (Polyamide PA)
    - shock-resistant
    - black, matt finish
  - Bush
    - Steel zinc plated, blue passivated
- Plastic characteristics ➔ Page 1141
- RoHS compliant

### Information

Duroplast KU

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<th>Plastic KT</th>
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<th>h₁</th>
<th>h₂</th>
<th>t min.</th>
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<td>M 6</td>
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<td>12</td>
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<td>M 8</td>
<td>-</td>
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<td>M 10</td>
<td>-</td>
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<td>18</td>
</tr>
<tr>
<td>63</td>
<td>M 12</td>
<td>M 12</td>
<td>-</td>
<td>26</td>
<td>40</td>
<td>25</td>
<td>22</td>
</tr>
<tr>
<td>80</td>
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<td>M 16</td>
<td>-</td>
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<td>30</td>
<td>30</td>
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<td>65</td>
<td>38</td>
<td>50</td>
</tr>
</tbody>
</table>

- with bush in brass (MS) not available from stock, requires a minimum order quantity

### How to order

DIN6335-KU-63-M12-K

1. Material
2. d₁
3. d₂
4. Type

Star knobs, Wing screws, Knurled screws | Page 293
Star knobs
with protruding steel bush

**Specification**

- **GN 6335.1**
  - Plastic
  - Duroplast (PF)
  - black, shiny finish
  - Bush
  - Steel zinc plated, blue passivated

- **GN 6335.2**
  - Plastic
  - Technopolymer (Polyamide PA)
  - shock-resistant
  - black, matt finish
  - Bush
  - Steel zinc plated, blue passivated

- **ISO-Fundamental Tolerances** ➔ Page 1132
- **Plastic characteristics** ➔ Page 1141
- **RoHS compliant**

**Information**

Star knobs GN 6335.1 with all steel bush have important advantages:

The face of the bush is exactly square to the bore and is in steel to prevent edge breakages. Cross-dowels can be used successfully.

see also...

- **Star knobs with threaded bolt GN 6335.4** ➔ Page 296

---

**Table:**

<table>
<thead>
<tr>
<th>d₁</th>
<th>d₂</th>
<th>d₃</th>
<th>d₄</th>
<th>h₁</th>
<th>h₂</th>
<th>h₃</th>
<th>t min.</th>
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</thead>
<tbody>
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<td>M 6</td>
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<td>M 6</td>
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<td>B 8</td>
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<tr>
<td>80</td>
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<td>M 12</td>
<td>B 16</td>
<td>25</td>
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<td>30</td>
<td>17</td>
</tr>
</tbody>
</table>
The star knobs GN 6335.2 with protruding Stainless Steel bush (basic dimensions as DIN 6335) offer decisive advantages.

The face of the bush is precisely square to the bore. The protruding metal bush prevents the edge from breaking. In addition, the use of cross dowels is therefore simplified.

**Specification**

- Plastic
  - Technopolymer (Polyamide PA)
    - shock-resistant
    - black, matt finish

- Bush
  - Stainless Steel AISI 303
  - RoHS compliant

- Stainless Steel characteristics → Page 1144
- Plastic characteristics → Page 1141

**Information**

The star knobs GN 6335.2 with protruding Stainless Steel bush (basic dimensions as DIN 6335) offer decisive advantages.

The face of the bush is precisely square to the bore. The protruding metal bush prevents the edge from breaking. In addition, the use of cross dowels is therefore simplified.

**How to order**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<td>50</td>
<td>M 10</td>
<td>18</td>
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</tr>
<tr>
<td>63</td>
<td>M 12</td>
<td>20</td>
<td>40</td>
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</table>
Star knobs
with steel threaded bolt

<table>
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<th>Type</th>
<th>Description</th>
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<tr>
<td>SK</td>
<td>Star knob DIN 6335 Plastic (KU) Duroplast (PF)</td>
</tr>
<tr>
<td>ST</td>
<td>Star knob DIN 6335 Plastic (KT) Technopolymer</td>
</tr>
<tr>
<td>TE</td>
<td>Star knob GN 6335.2 Plastic Technopolymer</td>
</tr>
<tr>
<td>SG</td>
<td>Star knob DIN 6335 Cast iron (GG)</td>
</tr>
</tbody>
</table>

Specifying
- Star knob details and dimensions see:
  - DIN 6335-KU / KT → Page xx
  - GN 6335.2 → Page xx
  - DIN 6335-GG → Page xx
- For Type SK, ST, TE the threaded bolts are zinc plated, blue passivated and moulded in position.
- For Type SG the threaded bolt (blackened) is screwed in and secured by a cross-dowel.
- Plastic characteristics → Page 1141
- RoHS compliant

Information
Should clamping with the bush face be necessary, then it is recommendable to use either type TE or type SG.

How to order
GN 6335.4-SK-63-M12-50
Star knobs
with Stainless Steel threaded bolt

Type
ST    Star knob DIN 6335
      Plastic (KT)
      Technopolymer (Polyamide PA)
AM    Star knob DIN 6335
      Aluminium (AL)
      matt (ground)
AP    Star knob DIN 6335
      Aluminium (AL)
      polished
ES    Star knob DIN 6335
      Stainless Steel-
      Precision casting (NI)
      matt shot-blasted

\[
\begin{array}{ccc|ccc|c|c|c}
\hline
\text{d}_1 & \text{d}_2 & \text{Type ST} & \text{Type AM} & \text{Type AP} & \text{Type ES} & \text{Length l} \approx \\
\hline
32 & M 6 & - & 10 & 16 & 20 & 25 & 30 \\
40 & M 8 & M 8 & 20 & 25 & 30 & 40 & - \\
50 & M 10 & M 10 & 20 & 25 & 30 & 45 & 55 \\
63 & M 12 & M 12 & 30 & 40 & 50 & - & - \\
\hline
\end{array}
\]

Specification

- Star knob details and dimensions see:
  - DIN 6335-KT → Page 293
  - DIN 6335-AL → Page 292
  - DIN 6335-NI → Page 292

- Threaded bolt
  Stainless Steel
  German Material No.
  - Type ST:
    German Material No. 1.4547 (M6 ... M10)
    AISI 303 (M12)
  - Type AM / AP / ES
    AISI 303

- For the Types AM / AP and ES the threaded bolt is screwed in and secured by a cross-dowel.
- Stainless Steel characteristics → Page 1144
- Plastic characteristics → Page 1141
- RoHS compliant

Information

see also...
- Stainless Steel-Star knobs GN 5334 → Page 289
- Star knobs GN 6335.4 (with steel threaded bolt) → Page 296

How to order

GN 6335.5-ST-40-M8-20

1. Type
2. \( d_1 \)
3. \( d_2 \)
4. Length l
Star knobs
with increased clamping force

Information

Star knobs GN 6335.9 have a clamping contact area which is connected to the knob via an axial ball bearing. This has led to the following advantages:

Doubled clamping force through vastly reduced friction. There is no movement on the contact area between star knob and component which greatly reduces any marking on the clamping area. In addition a reduced creep factor has been achieved by the increased preload.

Specification

- Plastic
  Technopolymer (Polyamide PA)
  - shock-resistant
  - black, matt finish
- Bushes
  high quality steel nitried, blackened
- Plastic characteristics → Page 1141
- RoHS compliant

On request

- with threaded bolt

### How to order

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<tbody>
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<tr>
<td>34</td>
<td>28,5</td>
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</table>

| GN 6335.9-50-M8 | 1 | d₁ |
| GN 6335.9-50-M8 | 2 | d₂ |
Stainless Steel-Triangular knobs GN 5339.5 have been specially designed for use on machinery in the food industry. The smooth and enclosed areas as well as the corner radii comply with the requirements of hygiene standards. Original ELESA-Design, manufactured in metal version under permission of ELESA s.p.a.

**Specification**

- Stainless Steel-Precision casting
  - AISI CF-8
  - matt shot-blasted
  - highly polished
    (only Type D and E)
- Cross hole GN 110 → Page 1127
- ISO-Fundamental Tolerances → Page 1132
- Stainless Steel characteristics → Page 1144
- RoHS compliant

**Information**

Stainless Steel-Triangular knobs GN 5339.5 are manufactured in stainless steel and have been specially designed for use in the food industry. The smooth and enclosed areas as well as the corner radii comply with the requirements of hygiene standards.

Original ELESA-Design, manufactured in metal version under permission of ELESA s.p.a.

**How to order**

<table>
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</thead>
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Tristar knobs GN 5330 have been developed for heavy duty applications. Due to its shape, higher torque can be achieved.

### Specification
- Plastic
  - Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130 °C
  - black, matt finish
- Bush
  - Brass
- Plastic characteristics → Page 1141
- RoHS compliant

### Information
- On request
  - with bore H9

### How to order
- GN 5330-80-M12-E
- \( d_1 \)
- \( d_2 \) (\( d_3 \))
- Type
Tristar knobs GN 5330 have been developed for heavy duty applications. Due to its shape, higher torque can be achieved.

### Specification
- Plastic
  - Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130 °C
  - black, matt finish
- Threaded bolt
  - Steel zinc plated, blue passivated
- Plastic characteristics → Page 1141
- RoHS compliant

### Information

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<th>h₁</th>
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### How to order

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</table>
GN 532 | Wing nuts

How to order

GN 532-40-M8-E

1. d₁
2. d₂ (d₃)
3. Type

Specification

- Plastic
  - Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130 °C
  - black, matt finish

- Bush
  - Brass

- Plastic characteristics → Page 1141

- RoHS compliant
### Specification

- **Plastic**
  - Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130 °C
  - black, matt finish

- **Threaded bolt**
  - Steel zinc plated, blue passivated

- **Plastic characteristics** → Page 1141

- **RoHS compliant**

### Information

**see also...**

- Wing screws GN 531.1 (with protruding hub) → Page 305

### How to order

<table>
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<th>Length</th>
<th>b</th>
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<tr>
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<td>30</td>
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</tbody>
</table>

GN 531-32-M6-20

---

1 d₁
2 d₂
3 Length
GN 531 | Wing screws
with Stainless Steel-threaded bolt

How to order

1 2 3 4
GN 531-32-M6-30-NI

<table>
<thead>
<tr>
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<td>Length l</td>
<td>b</td>
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<td>M 10</td>
<td>20</td>
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<td>-</td>
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</tr>
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</table>

Specification

• Plastic
  Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130° C
  - black, matt finish

• Threaded bolt
  Stainless Steel AISI 303 NI
• Stainless Steel characteristics → Page 1144
• Plastic characteristics → Page 1141
• RoHS compliant
GN 531.1
Wing screws
with protruding hub

<table>
<thead>
<tr>
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<tr>
<td>d₁</td>
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<tr>
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<td>M 6</td>
<td>10 16 20</td>
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<td>M 8</td>
<td>16 25 -</td>
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<td>56</td>
<td>M 10</td>
<td>20 30 -</td>
</tr>
<tr>
<td>d₃</td>
<td>b</td>
<td>h₁</td>
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<tr>
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<td>19</td>
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<tr>
<td>18,5</td>
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**Specification**

- Plastic
  - Technopolymer (Polyamide PA)
    - glass fibre reinforced
    - temperature resistant up to 130 °C
    - black, matt finish

- Threaded bolt
  - Steel zinc plated, blue passivated

- **Plastic characteristics ➔ Page 1141**
- **RoHS compliant**

**Information**

- **see also...**
  - Wing screws GN 531 (Hub not protruding) ➔ Page 303

**How to order**

GN 531.1-56-M10-20

1 d₁
2 d₂
3 Length l
### GN 834 Stainless Steel-Wing nuts

<table>
<thead>
<tr>
<th>d₁</th>
<th>d₂</th>
<th>d₃</th>
<th>d₄</th>
<th>b</th>
<th>h₁</th>
<th>h₂</th>
<th>t₁ min.</th>
<th>t₂</th>
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<tr>
<td>46</td>
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<td>6</td>
<td>12</td>
<td>10</td>
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<td>46</td>
<td>M 8</td>
<td>13</td>
<td>8,5</td>
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<td>22,5</td>
<td>6</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>58</td>
<td>M 8</td>
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<td>8,5</td>
<td>7</td>
<td>26,5</td>
<td>7</td>
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<tr>
<td>58</td>
<td>M 10</td>
<td>16</td>
<td>10,5</td>
<td>7</td>
<td>26,5</td>
<td>7</td>
<td>18</td>
<td>16</td>
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</table>

### Specification

- Stainless Steel-Precision casting
  - AISI CF-8
  - matt shot-blasted MT
- Stainless Steel characteristics ➔ Page 1144
- RoHS compliant

### Information

- Stainless Steel-Wing nuts GN 432
  (with smaller diameter d₁) ➔ Page 311
- Stainless Steel-Wing nuts GN 434
  (with smaller diameter d₁) ➔ Page 310

### How to order

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<td>d₁</td>
<td>d₂</td>
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**GN 835**  
**Stainless Steel-Wing screws**

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<th>d₂</th>
<th>Length l</th>
<th>d₃</th>
<th>b</th>
<th>h₁</th>
<th>h₂</th>
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</thead>
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<td>6</td>
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<tr>
<td>46</td>
<td>M 8</td>
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<td>25</td>
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<td>25</td>
<td>30</td>
<td>16</td>
<td>7</td>
</tr>
</tbody>
</table>

### Specification
- Stainless Steel-Precision casting  
  - AISI CF-8  
  - matt shot-blasted  
- Plastic characteristics → Page 1141  
- RoHS compliant

### Information
see also...
- Stainless Steel-Wing screws GN 431  
  (with smaller diameter d₁) → Page 311  
- Stainless Steel-Wing screws GN 433  
  (with smaller diameter d₁) → Page 310

### How to order
GN835-58-M10-25-MT

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<tbody>
<tr>
<td>d₁</td>
<td></td>
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<tr>
<td>d₂</td>
<td></td>
<td></td>
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<tr>
<td>Length l</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Finish</td>
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</table>
Stainless Steel-Wing nuts GN 434 → Page 310
Stainless Steel-Wing screws GN 433 → Page 310
Stainless Steel-Wing nuts GN 432 → Page 311
Stainless Steel-Wing screws GN 431 → Page 311
### Specification
- Stainless Steel-Precision casting
  - AISI CF-8
  - matt shot-blasted
- Stainless Steel characteristics → Page 1144
- RoHS compliant

### Information
- see also...
  - Stainless Steel-Wing nuts GN 834 (with bigger diameter \(d_1\)) → Page 306
  - Stainless Steel-Wing screws GN 835 (with bigger diameter \(d_1\)) → Page 307

---

**Stainless Steel-Wing nut**

<table>
<thead>
<tr>
<th>(d_1)</th>
<th>(d_2)</th>
<th>Length (l)</th>
<th>(d_3)</th>
<th>(b)</th>
<th>(h_1)</th>
<th>(h_2)</th>
<th>(t) min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>M 5</td>
<td>10</td>
<td>16</td>
<td>-</td>
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<td>20</td>
<td>30</td>
<td>12</td>
<td>13</td>
<td>12</td>
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</table>

**Stainless Steel-Wing screw**

<table>
<thead>
<tr>
<th>(d_1)</th>
<th>(d_2)</th>
<th>Length (l)</th>
<th>(h_1)</th>
<th>(h_2)</th>
<th>(t) min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(d_1)</td>
<td>(d_2)</td>
<td>(l)</td>
<td>(h_1)</td>
<td>(h_2)</td>
<td>(t)</td>
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</tbody>
</table>

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**Stainless Steel-Wing nut**

GN 434-26-M6-MT

1. \(d_1\)
2. \(d_2\)
3. \(d_3\)
4. Finish

**Stainless Steel-Wing screw**

GN 433-34-M8-20-MT

1. \(d_1\)
2. \(d_2\)
3. Length \(l\)
4. Finish
GN 432 | GN 431
Nut | Screw
---|---
Wing nuts / Wing screws
Stainless Steel

<table>
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<th>d₁</th>
<th>d₂</th>
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<th>d₃</th>
<th>b</th>
<th>h</th>
<th>t min.</th>
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</thead>
<tbody>
<tr>
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<td>20</td>
<td>25</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>M 6</td>
<td>16</td>
<td>20</td>
<td>25</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>30</td>
<td>M 8</td>
<td>16</td>
<td>20</td>
<td>25</td>
<td>32</td>
<td>10</td>
</tr>
<tr>
<td>36</td>
<td>M 8</td>
<td>16</td>
<td>20</td>
<td>25</td>
<td>32</td>
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<td>M 10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>-</td>
<td>12</td>
</tr>
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Information

**Specification**

- **Body**
  - Stainless Steel (Sintered Steel)
  - AISI 316
  - matt shot-blasted
- **Threaded bolt**
  - Stainless Steel AISI 304
  - matt shot-blasted
  - screwed in and secured by cross-dowel
- **Stainless Steel characteristics** → Page 1144
- **RoHS compliant**

*see also...*

- **Stainless Steel-Wing nuts GN 834**
  (with bigger diameter d₁) → Page 306
- **Stainless Steel-Wing screws GN 835**
  (with bigger diameter d₁) → Page 307

Stainless Steel-Wing nut

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<th>GN 432-25-M6</th>
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Stainless Steel-Wing screw

<table>
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<tbody>
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<td>1</td>
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<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
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</tbody>
</table>
## GN 534 Knurled knobs

### Specification
- Plastic Technopolymer (Polypropylene PP):
  - reinforced, shock-resistant
  - temperature resistant up to 90 °C
  - black, RAL 9005, matt
- Bush Brass
- **ISO-Fundamental Tolerances** → Page 1132
- **Cross hole GN 110** → Page 1127
- **Plastic characteristics** → Page 1141
- **RoHS compliant**

### Information
The unique profile on the rim of the knurled knobs GN 534 is characteristic of its form and the function.

**see also...**
- **Control handwheels (with handle) GN 735** → Page 176

### On request
- Cap in other colours

### How to order

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<tr>
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<td><strong>Colour</strong></td>
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<td><strong>h</strong>&lt;sub&gt;1&lt;/sub&gt;</td>
<td><strong>h</strong>&lt;sub&gt;2&lt;/sub&gt;</td>
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<td>-</td>
</tr>
<tr>
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<td>B 6</td>
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<td>40</td>
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<tr>
<td>50</td>
<td>M 8</td>
<td>B 8</td>
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<tr>
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<td>70</td>
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<td>-</td>
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</table>
The unique profile on the rim of the knurled knobs GN 534 is characteristic of its form and the function.

**Specification**
- Plastic
  - Technopolymer (Polypropylene PP)
  - reinforced, shock-resistant
  - temperature resistant up to 90 °C
  - black, RAL 9005, matt
- Threaded bolt
  - Steel zinc plated, blue passivated
- **Plastic characteristics** → Page 1141
- RoHS compliant

**Information**

On request
- Cap in other colours

**How to order**

<table>
<thead>
<tr>
<th>1</th>
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<th>4</th>
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<td>d₃</td>
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<td>20</td>
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<td>M 6</td>
<td>10</td>
<td>16</td>
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<td>40</td>
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<td>M 8</td>
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<td>M 10</td>
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<td>M 12</td>
<td>30</td>
<td>50</td>
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</table>
Knurled knobs / Knurled screws

**Specification**

- **Plastic**
  - Technopolymer (Polyamide PA)
  - glass fibre reinforced
  - temperature resistant up to 130 °C
  - black, matt finish

- **Threaded inserts**
  - Steel
    - zinc plated, blue passivated
    - Stainless Steel AISI 304

- **Cover cap Plastic**
  - light grey, matt

- **Stainless Steel characteristics → Page 1144**
- **Plastic characteristics → Page 1141**
- **RoHS compliant**

**Information**

Knurled knobs GN 7336 distinguish an attractive design in combination with closed shape (no recess on the underside of the handles).

Knurled knobs GN 7336 are also available without threaded insert.

How to order:
- GN 7336-34
- GN 7336-42
- GN 7336-53

**On request**

- The cover cap is also available in different colours
  (standard colour: light grey)

**Table**

<table>
<thead>
<tr>
<th>d₁</th>
<th>d₂</th>
<th>Length l</th>
<th>d₃</th>
<th>h₁</th>
<th>h₂</th>
<th>s</th>
<th>max. thread length for internal thread</th>
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<td>19</td>
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<td>42</td>
<td>M 8</td>
<td>15 20 25 30 40</td>
<td>19</td>
<td>21</td>
<td>13</td>
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<td>20 25 30 40 50</td>
<td>24</td>
<td>32</td>
<td>16</td>
<td>5</td>
<td>30</td>
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</table>
Knurled screws GN 7336.5, type MS / KU with brass or plastic pivots are used when pressure dents or damage must be avoided.

Knurled screws GN 7336.5, type ZK feature a spherical pivot whose Ø $d_6$ is smaller than the core Ø of the thread. The version with spherical pivot is suitable for holding GN 631 / GN 631.5 thrust pads, which must be ordered separately.

Ther knurled screws GN 7336.5 distinguish an attractive design in combination with closed shape (no recess on the underside of the handles).

**Information**

Knurled screws GN 7336.5, type MS / KU with brass or plastic pivots are used when pressure dents or damage must be avoided.

Knurled screws GN 7336.5, type ZK feature a spherical pivot whose Ø $d_6$ is smaller than the core Ø of the thread. The version with spherical pivot is suitable for holding GN 631 / GN 631.5 thrust pads, which must be ordered separately.

Ther knurled screws GN 7336.5 distinguish an attractive design in combination with closed shape (no recess on the underside of the handles).

**Specification**

- Plastic
  Technopolymer (Polyamide PA)
  - glassfibre reinforced
  - temperature resistant up to 130 °C
  - black, matt
- Threaded bolt
  Stainless Steel AISI 304
- Cover cap plastic
  light grey, matt
- Plastics characteristics → Page 1141
- Stainless Steel characteristics → Page 1144
- RoHS compliant

**How to order**

```plaintext
GN 7336.5-42-M8-25-MS
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<th>$d_4$</th>
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<th>$h_2$</th>
<th>$l_2$</th>
<th>$l_3$</th>
<th>$l_4$ ±</th>
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<td>30</td>
<td>16</td>
<td>4</td>
<td>3,5</td>
<td>4,5 ±0,03</td>
<td>21</td>
<td>10,5</td>
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<tr>
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<td>30</td>
<td>40</td>
<td>19</td>
<td>6</td>
<td>5</td>
<td>6,1 ±0,05</td>
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<td>13</td>
</tr>
<tr>
<td>53</td>
<td>M 10</td>
<td>25</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>24</td>
<td>8</td>
<td>6,5</td>
<td>7,8 ±0,05</td>
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<td>16</td>
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</tbody>
</table>
Knurled nuts
with Steel / Stainless Steel bush

<table>
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Specification

- Plastic
  Technopolymer (Polyamide PA)
  black, shiny finish
- Bush
  Steel zinc plated, blue passivated
- Bush
  Stainless Steel AISI 303  NI
- Stainless Steel characteristics → Page 1144
- Plastic characteristics → Page 1141
- RoHS compliant

Knurled nut
GN 420-M8

Knurled nut with Stainless Steel bush
GN 420-M6-NI

Page 316 | Star knobs, Wing screws, Knurled screws
**GN 421 | Knurled screws**

### Specification
- Plastic
  - Technopolymer (Polyamide PA)
  - black, shiny finish
- Threaded bolt
  - Steel zinc plated, blue passivated
- Plastic characteristics ➔ Page 1141
- RoHS compliant

### Information
**see also...**
- Knurled screws GN 421.10
  - (with brass / plastic thrust pad) ➔ Page 319

### How to order

<table>
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<tr>
<th>d₁</th>
<th>Length l</th>
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**GN 421-M6-25**

1. d₁
2. Length l
**GN 421**

**Knurled screws**

*with Stainless Steel bolt*

---

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<th>d₄</th>
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**Specification**

- Plastic
  - Technopolymer (Polyamide PA)
    - black, shiny finish
- Threaded bolt
  - Stainless Steel AISI 304 Cu
- Stainless Steel characteristics  ➔ Page 1144
- Plastic characteristics  ➔ Page 1141
- RoHS compliant

---

**Information**

**see also...**

- Knurled screws GN 421.10
  (with brass / plastic thrust pad)  ➔ Page 319

---

**How to order**

<table>
<thead>
<tr>
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</table>

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Page 318  |  Star knobs, Wing screws, Knurled screws
Knurled screws GN 421.10 with brass / plastic pivot

<table>
<thead>
<tr>
<th>d₁</th>
<th>l₁ Nominal length</th>
<th>l₂ MS-pad</th>
<th>KU-pad</th>
<th>d₂ MS-pad</th>
<th>KU-pad</th>
<th>d₃</th>
<th>d₄</th>
<th>d₅</th>
<th>h</th>
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<tr>
<td>M 6</td>
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<td>1,3</td>
<td>4</td>
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<td>M 8</td>
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<td>16</td>
<td>18</td>
<td>22,5</td>
<td>12,5</td>
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</tbody>
</table>

**Information**

Knurled screws GN 421.10 with pads in brass or plastic are used in applications, where marks and damage on the workpiece are unacceptable.

- Plastic
  - Technopolymer (Polyamide PA)
    - black shiny finish
- Threaded bolt
  - Stainless Steel AISI 304 Cu
- Pivot
  - Brass
  - Plastic (Polyacetal POM)
- Stainless Steel characteristics → Page 1144
- Plastic characteristics → Page 1141
- RoHS compliant

**How to order**

<table>
<thead>
<tr>
<th>d₁</th>
<th>l₁</th>
<th>Material thrust pad</th>
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<tbody>
<tr>
<td>GN 421.10-M8-25-MS</td>
<td>1 d₁</td>
<td>2 l₁</td>
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</tbody>
</table>

see also...

- **Star knobs GN 6336.10**
  (with brass / plastic thrust pad) → Page 282
- **Grub screws GN 913.3** (with brass / plastic thrust pad) → Page 520
- **Stainless Steel-Grub screws GN 913.5**
  (with brass / plastic thrust pad) → Page 521
Knurled screws GN 421.11 / GN 421.12 have a ball pin whose diameter is smaller than the core diameter of the thread.

The movable thrust pad is easily clipped on and taken off.

The thrust pads are supplied disassembled.

see also...
- Star knobs GN 6336.11 / GN 6336.12 → Page 283
- Knurled screws GN 421.10 → Page 319
  (with Brass / Plastic pad)
The knurling of the Stainless Steel-Knurled screws GN 535 / Knurled nuts GN 536 allows a use in an environment with hygienic requirements.

see also...
- Stainless Steel-Star knobs GN 5335 → Page 291
- Stainless Steel-Control knobs GN 436 → Page 346
  (Knurling like GN 536)

### Specification
- Stainless Steel AISI 304
  - matt shot-blasted
  - highly polished
- Stainless Steel characteristics → Page 1144
- RoHS compliant

### Information

<table>
<thead>
<tr>
<th>d₁</th>
<th>d₂</th>
<th>Length l</th>
<th>d₃</th>
<th>h</th>
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<tr>
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</tbody>
</table>

Stainless Steel-Knurled screws

GN 535-28-M8-20-MT

1. d₁
2. d₂
3. Length l
4. Finish

Stainless Steel-Knurled nuts

GN 536-20-M5-PL

1. d₁
2. d₂
3. Finish
**DIN 6303**

**Knurled nuts**

The dowel bore d₅ in the DIN 6303 knurled nut is designed for the use of clamping or notch pins.

DIN 6303 knurled nuts with H7 bore and the size M12 are not provided for on the official standard sheet.

see also...

- Quick release-Knurled nuts GN 6303.1  
  Page 324

### Specification

- Steel
  - Tensile strength class 5 (500 N/mm²)
  - blackened

- ISO-Fundamental Tolerances  
  Page 1132

- RoHS compliant

### Information

<table>
<thead>
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<th>d₁ (Thread)</th>
<th>d₂ H7 Bore</th>
<th>d₃</th>
<th>d₄</th>
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<th>e</th>
<th>h</th>
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**How to order**

DIN 6303-M8-A

1. d₁ (d₃)
2. Type
The dowel bore $d_5$ in the DIN 6303 Stainless Steel-knurled nut is designed for the use of clamping or notch pins.

DIN 6303 knurled nuts with H7 bore and the size M12 are not provided for on the official standard sheet.

see also...

- Stainless Steel-Knurled nuts GN 536 → Page 321
Quick release knurled nuts GN 6303.1 are used in such applications where the nut has to be completely removed after the releasing operation and refitted rapidly for re-clamping.

The nut is tilted over the threaded spindle. When in position, the nut is brought into a straight position for meshing of the two threads on nut and spindle. The nut will then have to be turned only by a fraction of a rotation to achieve clamping.

See also...
• Quick release star knobs GN 6336.3 ➔ Page 281

### Specification
- Steel
  - Tensile strength class 5 (500 N/mm²)
  - blackened
- RoHS compliant

### Information
Quick release knurled nuts GN 6303.1 are used in such applications where the nut has to be completely removed after the releasing operation and refitted rapidly for re-clamping.

The nut is tilted over the threaded spindle. When in position, the nut is brought into a straight position for meshing of the two threads on nut and spindle. The nut will then have to be turned only by a fraction of a rotation to achieve clamping.

### How to order
GN 6303.1-M8

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### Knurled nuts

**DIN 466**

Extract

**Steel / Stainless Steel**

**Knurled nuts**

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**Specification**

- **Steel**
  - Tensile strength class 5 (500 N/mm²)
  - visible face fine turned
  - blackened
- **Stainless Steel AISI 303**
  - matt shot-blasted
- **Stainless Steel characteristics ➔ Page 1144**
- RoHS compliant

---

**Knurled nut**

DIN 466-M6

1 d₁

**Stainless Steel-Knurled nut**

DIN 466-M8-NI

1 d₁

2 Material

---

Star knobs, Wing screws, Knurled screws | Page 325
### Specification

- **Steel**
  - Tensile strength class 5.8 (500 N/mm²)
  - visible face fine turned
  - blackened
- **RoHS compliant**

### Information

One piece and threaded over all knurled screws DIN 464 are produced from is full length.

### How to order

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</table>
DIN 464 | Stainless Steel-Knurled screws

*Extract*

All Stainless Steel-Knurled screws DIN 464 are produced from one piece and threaded over its full length.

**Specification**
- Stainless Steel AISI 303
  - visible face fine turned
  - matt shot-blasted
- Stainless Steel characteristics ➔ Page 1144
- RoHS compliant

**Information**

**How to order**

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</table>

**See also...**
- Knurled nuts DIN 466 (Steel / Stainless Steel) ➔ Page 325

Star knobs, Wing screws, Knurled screws | Page 327
All flat knurled screws DIN 653 are produced from one piece and threaded over its full length.

**Specification**
- Steel
  - Tensile strength class 5 (500 N/mm²)
  - Visible face fine turned
  - Blackened
- RoHS compliant

**Information**

**How to order**

DIN 653-M6-20

1. \( d_1 \)

2. Length I

---

See also...
- Knurled screws GN 653.10 (Steel, with brass / plastic pivot) → Page 330
DIN 653 | Stainless Steel-Knurled screws

All Stainless Steel-Flat knurled thumb screws DIN 653 are produced from one piece and threaded over its full length.

**Specification**

- Stainless Steel AISI 303
  - visible face fine turned
  - matt shot-blasted
- Stainless Steel characteristics ➔ Page 1144
- RoHS compliant

**Information**

All Stainless Steel-Flat knurled thumb screws DIN 653 are produced from one piece and threaded over its full length.

see also...

- Stainless Steel-Knurled screws GN 653.10 (with brass / plastic thrust pad) ➔ 320

<table>
<thead>
<tr>
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</tr>
<tr>
<td>M 5</td>
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</tr>
<tr>
<td>M 10</td>
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</tbody>
</table>

**How to order**

DIN653-M6-20-NI

1 d₁
2 Length l
3 Material

Star knobs, Wing screws, Knurled screws | Page 329
# Flat knurled screws

with brass / plastic pivot

![Image of flat knurled screws](https://example.com/image.png)

**Specification**

- **Steel** ST
  - Tensile strength class 5 (500 N/mm²)
  - visible face fine turned
  - blackened
- **Stainless Steel AISI 303** NI
  - visible face fine turned
  - matt shot-blasted
- **Pivot**
  - Brass MS
  - Plastic KU (Polyacetal POM)
- **Stainless Steel characteristics** → Page 1144
- **RoHS compliant**

**Information**

Flat knurled screws GN 653.10 with thrust pads in brass or plastic are used in applications, where marks and damages on the workpiece are unacceptable.

The head dimensions comply with flat knurled thumb screws DIN 653.

**How to order**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td>d₁</td>
<td>l₁</td>
<td>l₂</td>
<td>d₂</td>
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<tr>
<td>Brass pad</td>
<td>Plastic pad</td>
<td>Brass pad</td>
<td>Plastic pad</td>
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<tr>
<td>d₃</td>
<td>k</td>
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| M 5 | 12 | 16 | 20 | 25 | - | 0,5 | 1 | 3 | 3 | 20 | 4 |
| M 6 | 12 | 16 | 20 | 25 | 30 | 1 | 1,3 | 4 | 3,5 | 24 | 5 |
| M 8 | 16 | 20 | 25 | 30 | 40 | 1,5 | 1,6 | 6 | 5 | 30 | 6 |

**Stainless Steel characteristics**

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  - Tensile strength class 5 (500 N/mm²)
  - visible face fine turned
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- Pivot MS
  - Brass
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- **Stainless Steel characteristics** → Page 1144
- **RoHS compliant**
**DIN 467**  
**Flat knurled nuts**  
Steel / Stainless Steel

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**Specification**

- Steel
  - Tensile strength class 5 (500 N/mm²)
  - visible face fine turned
  - blackened
- Stainless Steel AISI 303
  - matt shot-blasted
- Stainless Steel characteristics ➔ Page 1144
- RoHS compliant

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<th>d₁</th>
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<th>d₂</th>
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<td>6</td>
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<td>6</td>
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<td>-</td>
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**Knurled nut**

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**Stainless Steel-Knurled nut**

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