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# **Grub Screws** • DIN 6332 with thrust point
## EH 22540.



## Product Description

Grub screws are clamping screws that can directly transmit forces via the thrust point. The pressure surface of the thrust point of the steel version is hardened.
For clamping sensitive surfaces, thrust pads EH 22560. (DIN 6311 and low version) can be attached on the thrust point. The snap ring of the thrust pad achieves a connection between the grub screw and the thrust pad that can be released by hand.
These grub screws with thrust points are particularly characterised by the additional radius "r" on the thrust point (optimisation compared to DIN 6332), which makes assembly in the thrust pad much easier.
The thrust point diameter of the grub screws is smaller than the core diameter of the thread, so that they can also be screwed in on the pin side.

### Material

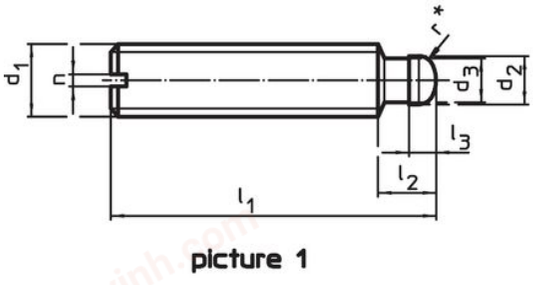
- Steel, blackened, quality 5.8, thrust point hardened
- Stainless steel

**More information**

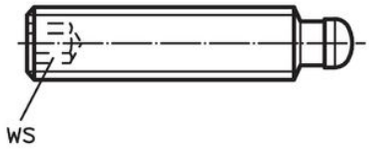
### Further products

- Thrust Pads, DIN 6311 and low model

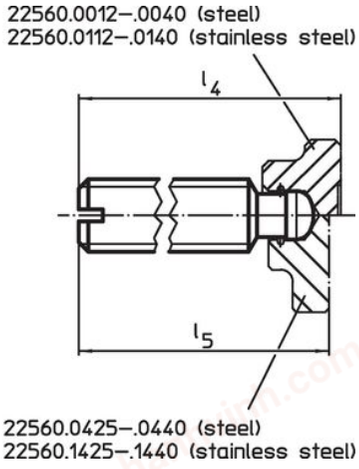
## Drawing




picture 1




picture 2




* to ease assembly the DIN 6332 specification has been completed by r

## Order information

| Dimensions | | | | | | | | | WS | | Art. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $d_1$ | $l_1$ | $d_2$ h11 | $d_3$ | $l_2$ | $l_3$ | $l_4$ ~ | $l_5$ ~ | n | | | |
| | | | | [mm] | | | | | [mm] | [g] | |
| **slotted (S) – picture 1, Steel** | | | | | | | | | | | |
| **M 6** | **30** | 4.5 | 4.0 | 6.0 | 2.5 | 32.1 | – | 1.0 | – | 4.5 | 22540.0061 |
| **M 6** | **50** | 4.5 | 4.0 | 6.0 | 2.5 | 52.1 | – | 1.0 | – | 7.8 | 22540.0062 |
| **M 8** | **40** | 6.0 | 5.4 | 7.5 | 3.0 | 43.0 | 42.5 | 1.2 | – | 11.0 | 22540.0081 |
| **M 8** | **60** | 6.0 | 5.4 | 7.5 | 3.0 | 63.0 | 62.5 | 1.2 | – | 17.0 | 22540.0082 |
| **M10** | **60** | 8.0 | 7.2 | 9.0 | 4.5 | 63.6 | 62.6 | 1.6 | – | 27.0 | 22540.0101 |
| **M10** | **80** | 8.0 | 7.2 | 9.0 | 4.5 | 83.6 | 82.6 | 1.6 | – | 37.0 | 22540.0102 |
| **M12** | **60** | 8.0 | 7.2 | 10.0 | 4.5 | 64.6 | 62.6 | 2.0 | – | 38.0 | 22540.0121 |
| **M12** | **80** | 8.0 | 7.2 | 10.0 | 4.5 | 84.6 | 82.6 | 2.0 | – | 51.0 | 22540.0122 |
| **M12** | **100** | 8.0 | 7.2 | 10.0 | 4.5 | 104.6 | 102.6 | 2.0 | – | 69.0 | 22540.0123 |
| **M16** | **80** | 12.0 | 11.0 | 12.0 | 5.0 | 85.4 | 82.9 | 2.5 | – | 100.0 | 22540.0161 |
| **M16** | **100** | 12.0 | 11.0 | 12.0 | 5.0 | 105.4 | 102.9 | 2.5 | – | 124.0 | 22540.0162 |
| **M16** | **125** | 12.0 | 11.0 | 12.0 | 5.0 | 130.4 | 127.9 | 2.5 | – | 160.0 | 22540.0163 |
| **M20** | **100** | 15.5 | 14.4 | 14.0 | 5.5 | 105.5 | – | 3.0 | – | 190.0 | 22540.0201 |
| **M20** | **125** | 15.5 | 14.4 | 14.0 | 5.5 | 130.5 | – | 3.0 | – | 240.0 | 22540.0202 |
| **M20** | **150** | 15.5 | 14.4 | 14.0 | 5.5 | 155.5 | – | 3.0 | – | 290.0 | 22540.0203 |
| **slotted (S) – picture 1, Stainless steel** | | | | | | | | | | | |
| **M 6** | **30** | 4.5 | 4.0 | 6.0 | 2.5 | 32.1 | – | 1.0 | – | 4.4 | 22540.1061 |
| **M 6** | **50** | 4.5 | 4.0 | 6.0 | 2.5 | 52.1 | – | 1.0 | – | 7.9 | 22540.1062 |
| **M 8** | **40** | 6.0 | 5.4 | 7.5 | 3.0 | 43.0 | 42.5 | 1.2 | – | 12.0 | 22540.1081 |

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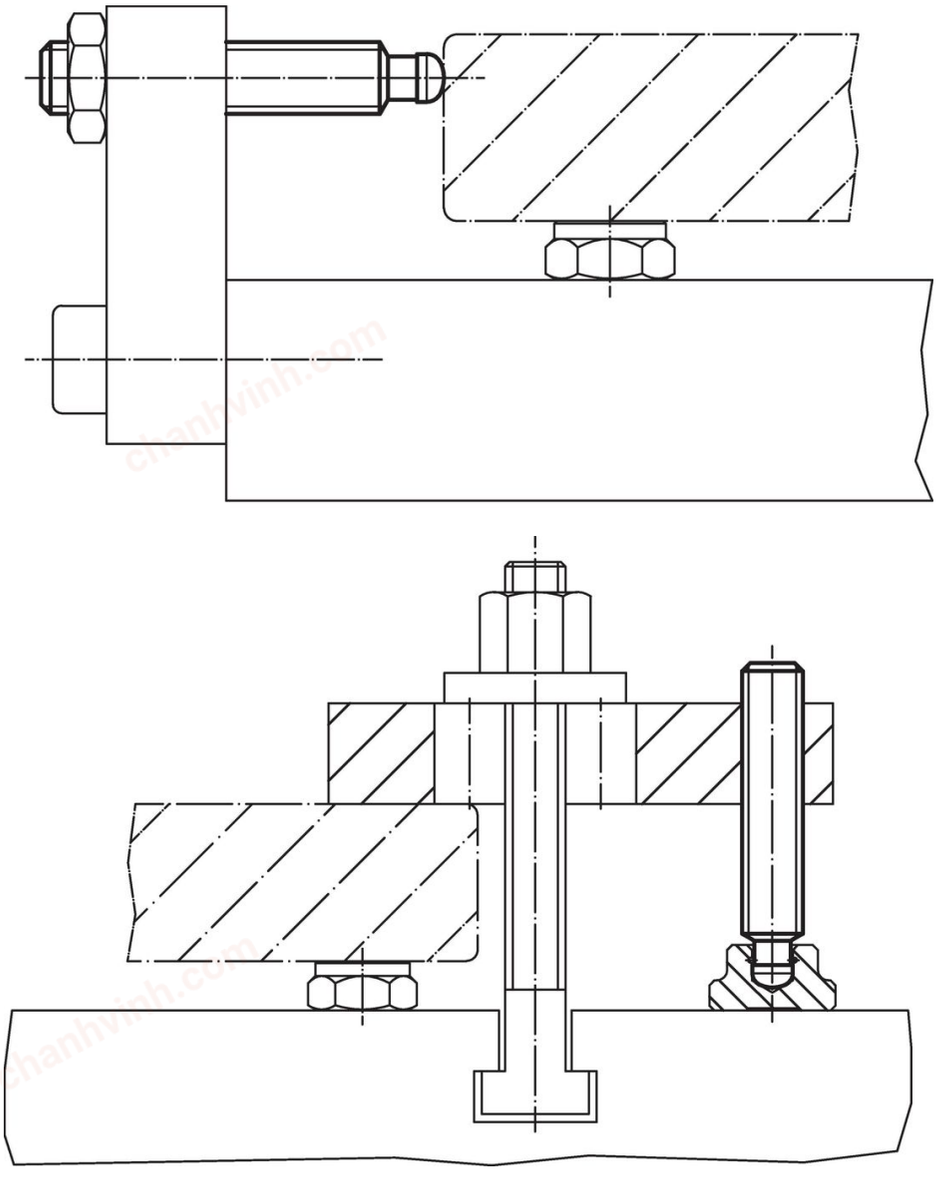


| Dimensions | | | | | | | | | WS | | Art. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $d_1$ | $l_1$ | $d_2$ h11 | $d_3$ | $l_2$ | $l_3$ | $l_4$ ~ | $l_5$ ~ | n | | | |
| | | | | [mm] | | | | | [mm] | [g] | |
| **M 8** | **60** | 6.0 | 5.4 | 7.5 | 3.0 | 63.0 | 62.5 | 1.2 | – | 17.0 | 22540.1082 |
| **M10** | **60** | 8.0 | 7.2 | 9.0 | 4.5 | 63.6 | 62.6 | 1.6 | – | 28.0 | 22540.1101 |
| **M10** | **80** | 8.0 | 7.2 | 9.0 | 4.5 | 83.6 | 82.6 | 1.6 | – | 38.0 | 22540.1102 |
| **M12** | **60** | 8.0 | 7.2 | 10.0 | 4.5 | 64.6 | 62.6 | 2.0 | – | 40.0 | 22540.1121 |
| **M12** | **80** | 8.0 | 7.2 | 10.0 | 4.5 | 84.6 | 82.6 | 2.0 | – | 52.0 | 22540.1122 |
| **M12** | **100** | 8.0 | 7.2 | 10.0 | 4.5 | 104.6 | 102.6 | 2.0 | – | 66.0 | 22540.1123 |
| **M16** | **80** | 12.0 | 11.0 | 12.0 | 5.0 | 85.4 | 82.9 | 2.5 | – | 96.0 | 22540.1161 |
| **M16** | **100** | 12.0 | 11.0 | 12.0 | 5.0 | 105.4 | 102.9 | 2.5 | – | 122.0 | 22540.1162 |
| **M16** | **125** | 12.0 | 11.0 | 12.0 | 5.0 | 130.4 | 127.9 | 2.5 | – | 155.0 | 22540.1163 |
| **M20** | **100** | 15.5 | 14.4 | 14.0 | 5.5 | 105.5 | – | 3.0 | – | 191.0 | 22540.1201 |
| **M20** | **125** | 15.5 | 14.4 | 14.0 | 5.5 | 130.5 | – | 3.0 | – | 243.0 | 22540.1202 |
| **M20** | **150** | 15.5 | 14.4 | 14.0 | 5.5 | 155.5 | – | 3.0 | – | 294.0 | 22540.1203 |
| **with internal hexagon (IS) – picture 2, Steel** | | | | | | | | | | | |
| **M 6** | **30** | 4.5 | 4.0 | 6.0 | 2.5 | 32.1 | – | – | 3 | 4.3 | 22540.0361 |
| **M 6** | **50** | 4.5 | 4.0 | 6.0 | 2.5 | 52.1 | – | – | 3 | 7.6 | 22540.0362 |
| **M 8** | **40** | 6.0 | 5.4 | 7.5 | 3.0 | 43.0 | 42.5 | – | 4 | 11.0 | 22540.0381 |
| **M 8** | **60** | 6.0 | 5.4 | 7.5 | 3.0 | 63.0 | 62.5 | – | 4 | 17.0 | 22540.0382 |
| **M10** | **60** | 8.0 | 7.2 | 9.0 | 4.5 | 63.6 | 62.6 | – | 5 | 26.0 | 22540.0401 |
| **M10** | **80** | 8.0 | 7.2 | 9.0 | 4.5 | 83.6 | 82.6 | – | 5 | 36.0 | 22540.0402 |
| **M12** | **60** | 8.0 | 7.2 | 10.0 | 4.5 | 64.6 | 62.6 | – | 6 | 36.0 | 22540.0421 |
| **M12** | **80** | 8.0 | 7.2 | 10.0 | 4.5 | 84.6 | 82.6 | – | 6 | 51.0 | 22540.0422 |
| **M12** | **100** | 8.0 | 7.2 | 10.0 | 4.5 | 104.6 | 102.6 | – | 6 | 66.0 | 22540.0423 |
| **M16** | **80** | 12.0 | 11.0 | 12.0 | 5.0 | 85.4 | 82.9 | – | 8 | 91.0 | 22540.0461 |
| **M16** | **100** | 12.0 | 11.0 | 12.0 | 5.0 | 105.4 | 102.9 | – | 8 | 119.0 | 22540.0462 |
| **M16** | **125** | 12.0 | 11.0 | 12.0 | 5.0 | 130.4 | 127.9 | – | 8 | 154.0 | 22540.0463 |
| **M20** | **100** | 15.5 | 14.4 | 14.0 | 5.5 | 105.5 | – | – | 10 | 178.0 | 22540.0501 |
| **M20** | **125** | 15.5 | 14.4 | 14.0 | 5.5 | 130.5 | – | – | 10 | 230.0 | 22540.0502 |
| **M20** | **150** | 15.5 | 14.4 | 14.0 | 5.5 | 155.5 | – | – | 10 | 284.0 | 22540.0503 |
| **with internal hexagon (IS) – picture 2, Stainless steel** | | | | | | | | | | | |
| **M 6** | **30** | 4.5 | 4.0 | 6.0 | 2.5 | 32.1 | – | – | 3 | 4.1 | 22540.1361 |
| **M 6** | **50** | 4.5 | 4.0 | 6.0 | 2.5 | 52.1 | – | – | 3 | 7.4 | 22540.1362 |
| **M 8** | **40** | 6.0 | 5.4 | 7.5 | 3.0 | 43.0 | 42.5 | – | 4 | 10.0 | 22540.1381 |
| **M 8** | **60** | 6.0 | 5.4 | 7.5 | 3.0 | 63.0 | 62.5 | – | 4 | 16.0 | 22540.1382 |
| **M10** | **60** | 8.0 | 7.2 | 9.0 | 4.5 | 63.6 | 62.6 | – | 5 | 26.0 | 22540.1401 |
| **M10** | **80** | 8.0 | 7.2 | 9.0 | 4.5 | 83.6 | 82.6 | – | 5 | 36.0 | 22540.1402 |
| **M12** | **60** | 8.0 | 7.2 | 10.0 | 4.5 | 64.6 | 62.6 | – | 6 | 36.0 | 22540.1421 |
| **M12** | **80** | 8.0 | 7.2 | 10.0 | 4.5 | 84.6 | 82.6 | – | 6 | 49.0 | 22540.1422 |
| **M12** | **100** | 8.0 | 7.2 | 10.0 | 4.5 | 104.6 | 102.6 | – | 6 | 63.0 | 22540.1423 |
| **M16** | **80** | 12.0 | 11.0 | 12.0 | 5.0 | 85.4 | 82.9 | – | 8 | 93.0 | 22540.1461 |
| **M16** | **100** | 12.0 | 11.0 | 12.0 | 5.0 | 105.4 | 102.9 | – | 8 | 116.0 | 22540.1462 |
| **M16** | **125** | 12.0 | 11.0 | 12.0 | 5.0 | 130.4 | 127.9 | – | 8 | 149.0 | 22540.1463 |
| **M20** | **100** | 15.5 | 14.4 | 14.0 | 5.5 | 105.5 | – | – | 10 | 181.0 | 22540.1501 |
| **M20** | **125** | 15.5 | 14.4 | 14.0 | 5.5 | 130.5 | – | – | 10 | 232.0 | 22540.1502 |
| **M20** | **150** | 15.5 | 14.4 | 14.0 | 5.5 | 155.5 | – | – | 10 | 284.0 | 22540.1503 |

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## Application example



## Compliance

For detailed compliance information please select the desired article number.