

Ball Lock Pins• self-locking, with elastic grip

EH 22370. /EH 22380.



Product Description

All versions are corrosion resistant. When using stainless steel 1.4542: high-strength, hardened, abrasion resistant pin with high load capacity.

Elastic and ergonomic grip with integrated reset (locking). New, modern, patented design.

For quick fastening, locking, adjusting, changing and securing. Various applications in different sectors, e.g. sports, leisure, medical healing and remedial instruments and apparatuses, machine construction and engineering etc. Quickly and easily unlockable for frequently repeated connections.

Material

Pin part

- Stainless Steel 1.4305
- Stainless Steel 1.4542, precipitation-hardened

Handle

- Thermoplastic (PBT/TPE), grey / orange

Operation

The balls are unlocked by pressing the knob.

Characteristic

Types from stainless steel 1.4542 with marking below the balls.

More information

Notes

Special types on request.

- RoHS compliant
- REACH compliant
- Free of conflict minerals

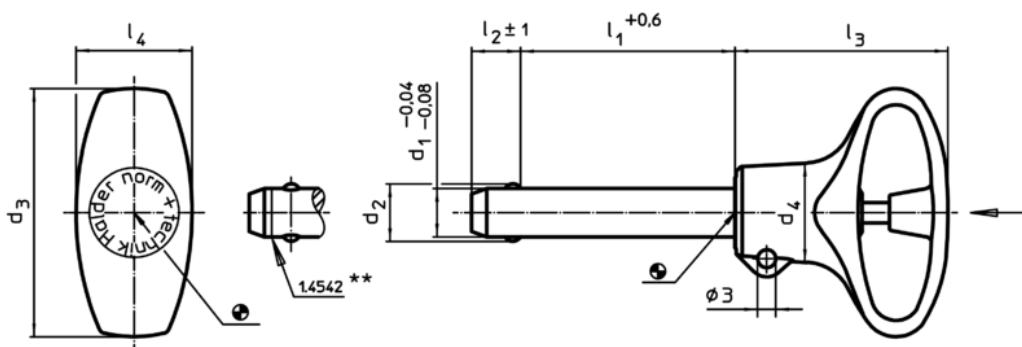
Accessories

Can easily be fitted with retaining cable EH 22400.

Further products

- Locating Bushings, for ball lock pins and socket pins
- Retaining Cables

Drawing





** Types from stainless steel 1.4542 with marking.



Order information

| Dimensions | | | | | | | | Location hole | Temperature | | Weight | Shearing resistance, double ¹⁾ | Art. No. |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-------------|------|--------|---|------------|
| d ₁ | l ₁ | d ₂ | d ₃ | d ₄ | l ₂ | l ₃ | l ₄ | H11 | min. | max. | [g] | [kN] | |
| -0,04 -0,08 | +0,6 | | | | ±1 | | | [mm] | [°C] | | | | |
| [mm] | | | | | | | | | | | | | |
| Stainless Steel 1.4305 | | | | | | | | | | | | | |
| 5 | 10 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 9 | 14 | 22370.0712 |
| 5 | 15 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 10 | 14 | 22370.0713 |
| 5 | 20 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 11 | 14 | 22370.0714 |
| 5 | 25 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 11 | 14 | 22370.0715 |
| 5 | 30 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 12 | 14 | 22370.0716 |
| 6 | 10 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 10 | 21 | 22370.0722 |

¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0,04 -0,08 | l ₁ +0,6 | Dimensions | | | | | | Location hole H11 |  min. max. | |  [g] | Shearing resistance, double ¹⁾ min. [kN] | Art. No. |
|---|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------------|--|------|--|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | [mm] | [°C] | | | |
| 6 | 15 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 11 | 21 | 22370.0723 |
| 6 | 20 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 12 | 21 | 22370.0724 |
| 6 | 25 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 13 | 21 | 22370.0725 |
| 6 | 30 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 14 | 21 | 22370.0726 |
| 6 | 35 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 15 | 21 | 22370.0727 |
| 6 | 40 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 16 | 21 | 22370.0728 |
| 6 | 45 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 18 | 21 | 22370.0729 |
| 6 | 50 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 18 | 21 | 22370.0730 |
| 8 | 20 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 23 | 38 | 22370.0734 |
| 8 | 25 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 25 | 38 | 22370.0735 |
| 8 | 30 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 26 | 38 | 22370.0736 |
| 8 | 35 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 28 | 38 | 22370.0737 |
| 8 | 40 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 30 | 38 | 22370.0738 |
| 8 | 45 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 32 | 38 | 22370.0739 |
| 8 | 50 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 34 | 38 | 22370.0740 |
| 10 | 20 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 30 | 60 | 22370.0744 |
| 10 | 25 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 32 | 60 | 22370.0745 |
| 10 | 30 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 35 | 60 | 22370.0746 |
| 10 | 35 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 38 | 60 | 22370.0747 |
| 10 | 40 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 41 | 60 | 22370.0748 |
| 10 | 45 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 44 | 60 | 22370.0749 |
| 10 | 50 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 47 | 60 | 22370.0750 |
| 10 | 60 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 53 | 60 | 22370.0752 |
| 12 | 25 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 54 | 87 | 22370.0765 |
| 12 | 30 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 59 | 87 | 22370.0766 |
| 12 | 35 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 63 | 87 | 22370.0767 |
| 12 | 40 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 67 | 87 | 22370.0768 |
| 12 | 45 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 71 | 87 | 22370.0769 |
| 12 | 50 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 75 | 87 | 22370.0770 |
| 12 | 60 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 84 | 87 | 22370.0772 |
| 12 | 70 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 93 | 87 | 22370.0774 |
| 12 | 80 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 101 | 87 | 22370.0776 |
| 16 | 30 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 91 | 155 | 22370.0786 |
| 16 | 35 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 98 | 155 | 22370.0787 |
| 16 | 40 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 106 | 155 | 22370.0788 |
| 16 | 45 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 114 | 155 | 22370.0789 |
| 16 | 50 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 121 | 155 | 22370.0790 |
| 16 | 60 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 137 | 155 | 22370.0792 |
| 16 | 70 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 152 | 155 | 22370.0794 |
| 16 | 80 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 167 | 155 | 22370.0796 |
| Stainless Steel 1.4542, precipitation-hardened | | | | | | | | | | | | | |
| 5 | 10 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 9 | 24 | 22380.0712 |
| 5 | 15 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 10 | 24 | 22380.0713 |
| 5 | 20 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 11 | 24 | 22380.0714 |
| 5 | 25 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 11 | 24 | 22380.0715 |
| 5 | 30 | 5,5 | 36 | 12,7 | 6,0 | 31,0 | 15,9 | 5 | -30 | 80 | 12 | 24 | 22380.0716 |
| 6 | 10 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 10 | 35 | 22380.0722 |
| 6 | 15 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 11 | 35 | 22380.0723 |
| 6 | 20 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 12 | 35 | 22380.0724 |
| 6 | 25 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 13 | 35 | 22380.0725 |
| 6 | 30 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 14 | 35 | 22380.0726 |
| 6 | 35 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 15 | 35 | 22380.0727 |
| 6 | 40 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 16 | 35 | 22380.0728 |
| 6 | 45 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 18 | 35 | 22380.0729 |
| 6 | 50 | 7,0 | 36 | 12,7 | 7,0 | 31,0 | 15,9 | 6 | -30 | 80 | 18 | 35 | 22380.0730 |
| 8 | 20 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 23 | 63 | 22380.0734 |
| 8 | 25 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 25 | 63 | 22380.0735 |
| 8 | 30 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 26 | 63 | 22380.0736 |

¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0,04 -0,08 | l ₁ +0,6 | Dimensions | | | | | | Location hole H11 [mm] |  min. max. [°C] | |  [g] | Shearing resistance, double ¹⁾ min. [kN] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|------------------------------|--|----|--|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | [mm] | | | | |
| 8 | 35 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 28 | 63 | 22380.0737 |
| 8 | 40 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 30 | 63 | 22380.0738 |
| 8 | 45 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 32 | 63 | 22380.0739 |
| 8 | 50 | 9,6 | 41 | 16,4 | 8,2 | 34,8 | 19,2 | 8 | -30 | 80 | 34 | 63 | 22380.0740 |
| 10 | 20 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 30 | 100 | 22380.0744 |
| 10 | 25 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 32 | 100 | 22380.0745 |
| 10 | 30 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 35 | 100 | 22380.0746 |
| 10 | 35 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 38 | 100 | 22380.0747 |
| 10 | 40 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 41 | 100 | 22380.0748 |
| 10 | 45 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 44 | 100 | 22380.0749 |
| 10 | 50 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 47 | 100 | 22380.0750 |
| 10 | 60 | 12,0 | 41 | 16,4 | 9,6 | 34,8 | 19,2 | 10 | -30 | 80 | 53 | 100 | 22380.0752 |
| 12 | 25 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 54 | 144 | 22380.0765 |
| 12 | 30 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 59 | 144 | 22380.0766 |
| 12 | 35 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 63 | 144 | 22380.0767 |
| 12 | 40 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 67 | 144 | 22380.0768 |
| 12 | 45 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 71 | 144 | 22380.0769 |
| 12 | 50 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 75 | 144 | 22380.0770 |
| 12 | 60 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 84 | 144 | 22380.0772 |
| 12 | 70 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 93 | 144 | 22380.0774 |
| 12 | 80 | 14,5 | 49 | 21,2 | 10,6 | 40,5 | 24,8 | 12 | -30 | 80 | 101 | 144 | 22380.0776 |
| 16 | 30 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 91 | 257 | 22380.0786 |
| 16 | 35 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 98 | 257 | 22380.0787 |
| 16 | 40 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 106 | 257 | 22380.0788 |
| 16 | 45 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 114 | 257 | 22380.0789 |
| 16 | 50 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 121 | 257 | 22380.0790 |
| 16 | 60 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 137 | 257 | 22380.0792 |
| 16 | 70 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 152 | 257 | 22380.0794 |
| 16 | 80 | 19,0 | 49 | 21,2 | 14,0 | 40,5 | 24,8 | 16 | -30 | 80 | 167 | 257 | 22380.0796 |

¹⁾ Shearing resistance similar to DIN 50141

Application example

