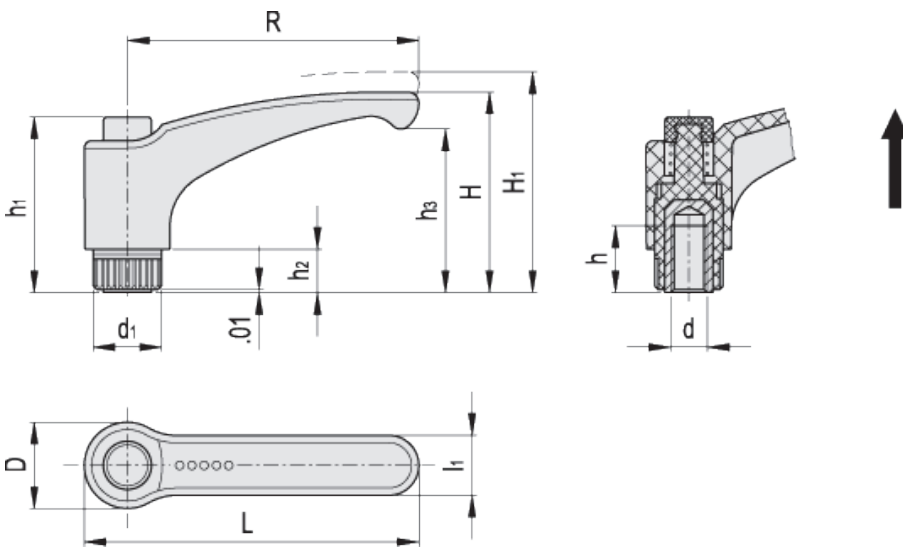


ERX.

Adjustable handles



ELESA Original design



american unit
metric unit



* Complete with colour index, example: 90233071-C2 ERX.30 B-10-24-C2



C1
RAL7021

C2
RAL2004

C3
RAL7035

C4
RAL1021

C5
RAL5024

C6
RAL3000

| Elesa Standards | | Main dimensions | | | | | | | | | | Mounting hole | | Teeth no. | Weight |
|-----------------|-------------------|-----------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------|-----------|-------------|
| Code | Description | R | L | D | H | H ₁ | h ₁ | h ₂ | h ₃ | d ₁ | l ₁ | d _{2B} | h | z | lbs g |
| 90233071-* | ERX.30 B-10-24-* | 1.18 30 | 1.48 37.5 | 0.61 15.5 | 1.18 30 | 1.32 33.5 | 1.16 29.5 | 0.24 6 | 0.91 23 | 0.47 12 | 0.35 9 | 10-24 - | 0.39 10 | - 18 | 0.018 8 |
| 90233073-* | ERX.30 B-10-32-* | 1.18 30 | 1.48 37.5 | 0.61 15.5 | 1.18 30 | 1.32 33.5 | 1.16 29.5 | 0.24 6 | 0.91 23 | 0.47 12 | 0.35 9 | 10-32 - | 0.39 10 | - 18 | 0.018 8 |
| 90233076-* | ERX.30 B-1/4-20-* | 1.18 30 | 1.48 37.5 | 0.61 15.5 | 1.18 30 | 1.32 33.5 | 1.16 29.5 | 0.24 6 | 0.91 23 | 0.47 12 | 0.35 9 | 1/4-20 - | 0.39 10 | - 18 | 0.018 8 |
| 90233101-* | ERX.44 B-10-24-* | 1.73 44 | 2.05 52 | 0.61 15.5 | 1.28 32.5 | 1.42 36 | 1.16 29.5 | 0.24 6 | 0.98 25 | 0.47 12 | 0.43 11 | 10-24 - | 0.39 10 | - 18 | 0.022 10 |
| 90233103-* | ERX.44 B-10-32-* | 1.73 44 | 2.05 52 | 0.61 15.5 | 1.28 32.5 | 1.42 36 | 1.16 29.5 | 0.24 6 | 0.98 25 | 0.47 12 | 0.43 11 | 10-32 - | 0.39 10 | - 18 | 0.022 10 |
| 90233106-* | ERX.44 B-1/4-20-* | 1.73 44 | 2.05 52 | 0.61 15.5 | 1.28 32.5 | 1.42 36 | 1.16 29.5 | 0.24 6 | 0.98 25 | 0.47 12 | 0.43 11 | 1/4-20 - | 0.39 10 | - 18 | 0.022 10 |

| Elesa Standards | | Main dimensions | | | | | | | | | | Mounting hole | | Teeth no. | Weight |
|-----------------|--------------------|-----------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------|-----------|-------------|
| Code | Description | R | L | D | H | H ₁ | h ₁ | h ₂ | h ₃ | d ₁ | l ₁ | d _{2B} | h | z | lbs g |
| 90233131-* | ERX.63 B-1/4-20-* | 2.48 63 | 2.89 73.5 | 0.75 19 | 1.69 43 | 1.85 47 | 1.48 37.5 | 0.31 8 | 1.36 34.5 | 0.59 15 | 0.53 13.5 | 1/4-20 - | 0.47 12 | - 20 | 0.046 21 |
| 90233136-* | ERX.63 B-5/16-18-* | 2.48 63 | 2.89 73.5 | 0.75 19 | 1.69 43 | 1.85 47 | 1.48 37.5 | 0.31 8 | 1.36 34.5 | 0.59 15 | 0.53 13.5 | 5/16-18 - | 0.51 13 | - 20 | 0.044 20 |
| 90233151-* | ERX.78 B-5/16-18-* | 3.07 78 | 3.56 90.5 | 0.91 23 | 2.13 54 | 2.28 58 | 1.85 47 | 0.47 12 | 1.73 44 | 0.75 19 | 0.63 16 | 5/16-18 - | 0.71 18 | - 24 | 0.099 45 |
| 90233156-* | ERX.78 B-3/8-16-* | 3.07 78 | 3.56 90.5 | 0.91 23 | 2.13 54 | 2.28 58 | 1.85 47 | 0.47 12 | 1.73 44 | 0.75 19 | 0.63 16 | 3/8-16 - | 0.67 17 | - 24 | 0.097 44 |
| 90233161-* | ERX.78 B-1/2-13-* | 3.07 78 | 3.56 90.5 | 0.91 23 | 2.13 54 | 2.28 58 | 1.85 47 | 0.47 12 | 1.73 44 | 0.75 19 | 0.63 16 | 1/2-13 - | 0.67 17 | - 24 | 0.095 43 |
| 90233176-* | ERX.95 B-3/8-16-* | 3.74 95 | 4.29 109 | 1.04 26.5 | 2.54 64.5 | 2.72 69 | 2.15 54.5 | 0.51 13 | 2.09 53 | 0.85 21.5 | 0.71 18 | 3/8-16 - | 0.79 20 | - 26 | 0.112 51 |
| 90233181-* | ERX.95 B-1/2-13-* | 3.74 95 | 4.29 109 | 1.04 26.5 | 2.54 64.5 | 2.72 69 | 2.15 54.5 | 0.51 13 | 2.09 53 | 0.85 21.5 | 0.71 18 | 1/2-13 - | 0.79 20 | - 26 | 0.11 50 |
| 90233211-* | ERX.108 B-3/8-16-* | 4.25 108 | 4.84 123 | 1.18 30 | 2.58 65.5 | 2.76 70 | 2.15 54.5 | 0.43 11 | 2.07 52.5 | 0.98 25 | 0.79 20 | 3/8-16 - | 0.79 20 | - 28 | 0.137 62 |
| 90233216-* | ERX.108 B-1/2-13-* | 4.25 108 | 4.84 123 | 1.18 30 | 2.58 65.5 | 2.76 70 | 2.15 54.5 | 0.43 11 | 2.07 52.5 | 0.98 25 | 0.79 20 | 1/2-13 - | 0.87 22 | - 28 | 0.132 60 |

Lever body

Glass-fibre reinforced polyamide based (PA) technopolymer. Resistant to solvents, oils, greases and other chemical agents.

Colour

Grey-black, matte finish.

Push button

Technopolymer in Ergostyle colours, glossy finish.

Standard execution

Glass-fibre reinforced technopolymer, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.

Brass boss, threaded blind hole.

Other executions available

Threaded metric blind holes.

Lever body in orange (C2) with black push button (C1).

Example: code 90233101-C2-C1 description ERX.44-C2 B-10-24-C1.



Features and applications

Particularly suitable when the lever turning angle is limited owing to lack of space.

Compared to other types of adjustable handles with metal retaining screw this solution offers:

- absolute electric insulation for the operator's hand
- no visible steel parts subject to rust
- more comfortable lever release.

Stress resistance

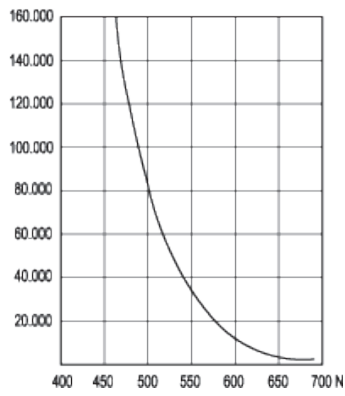
Adjustable handles are generally used for repetitive clamping operations sometimes with very high-frequency.

Therefore, the stress resistance (i.e. the resistance to repeated tightening cycles) of the handle unit is particularly important and, especially, the strength of the toothed element which transmits the tightening force from the handle to the threaded element (boss or stud).

In fact, the results of several laboratory tests, performed with a special instrument that simulates the most severe use conditions, have shown that e.g. ERX.78 adjustable handle can withstand without yielding more than 100,000 tightening cycles, under the action of a force of 490 N (see graphic).

The special glass-fibre reinforced technopolymer enables the ELESA adjustable handles to guarantee stress resistance values which are much higher than the ones generated under normal working conditions.

NUMBER OF TIGHTENINGS



Instructions of use

For clamping, lift the lever to disengage the clamping device toothing and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.



STANDARD MACHINE ELEMENTS WORLDWIDE

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