
**Pliers and nippers — Pliers for gripping
and manipulating — Dimensions and test
values**

*Pinces et tenailles — Pinces de serrage et de manipulation —
Dimensions et valeurs d'essai*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5745 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 10, *Assembly tools for screws and nuts, pliers and nippers*.

This third edition cancels and replaces the second edition (ISO 5745:1988) which has been technically revised.

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Pliers and nippers — Pliers for gripping and manipulating — Dimensions and test values

1 Scope

This International Standard specifies the principal dimensions of pliers for gripping and manipulating and the test values for the pliers in order to verify their aptitude to function in conformity with ISO 5744. General technical requirements are given in ISO 5743.

The pliers for gripping and manipulating illustrated in this International Standard are examples only and are not intended to affect the manufacturer's design.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5743, *Pliers and nippers — General technical requirements*

ISO 5744:2004, *Pliers and nippers — Methods of test*

3 Dimensions and test values

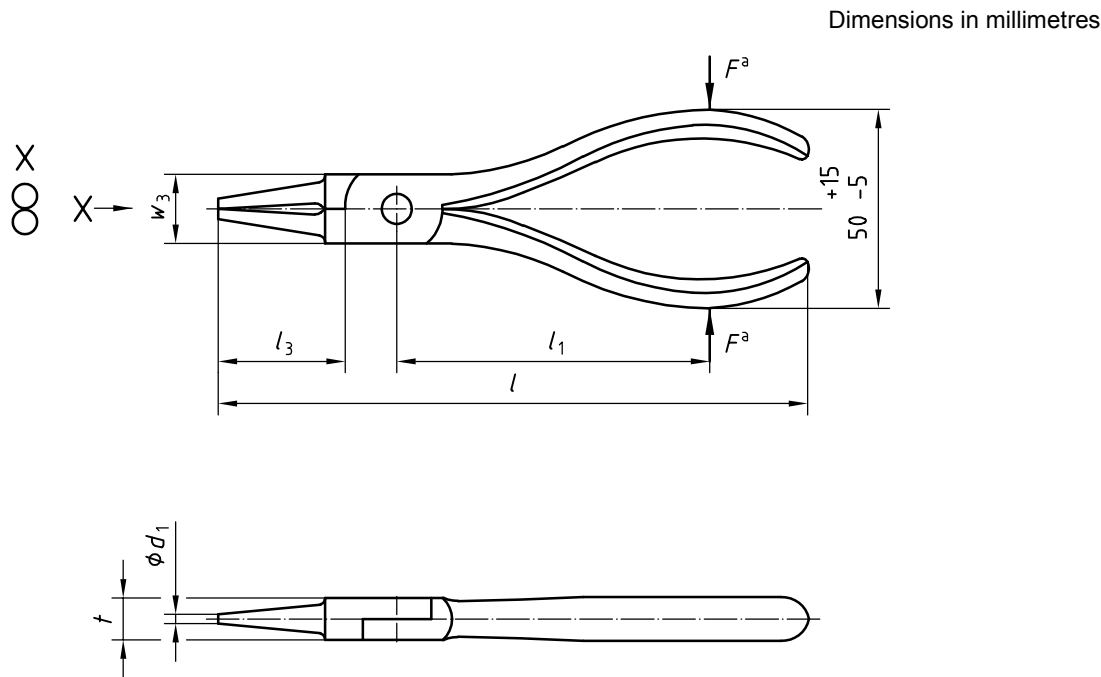
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3.1 Round nose pliers for gripping and manipulating

The principal dimensions for round nose pliers for gripping and manipulating are shown in Figure 1 and given in Table 1.

Round nose pliers shall be tested in accordance with ISO 5744.

After the load test, the permanent set s shall not exceed the value given in Table 2. If distance l_1 is not suitable for the load test, the formula given in ISO 5744:2004, 4.2 shall be used.



a F = Load applied in load test.

Figure 1 — Round nose pliers for gripping and manipulating

Table 1 — Round nose pliers for gripping and manipulating, principal dimensions

Dimensions in millimetres

| Length of nose | l | l_3 | d_1 max. | w_3 max. | t max. |
|----------------|---------------|-----------------|---------------|---------------|-------------|
| Short nose | $125 \pm 6,3$ | 25^{0}_{-5} | 2 | 16 | 9 |
| | 140 ± 8 | $32^{0}_{-6,3}$ | 2,8 | 18 | 10 |
| | 160 ± 8 | 40^{0}_{-8} | 3,2 | 20 | 11 |
| Long nose | 140 ± 7 | 40 ± 4 | 2,8 | 17 | 9 |
| | 160 ± 8 | 50 ± 5 | 3,2 | 19 | 10 |
| | 180 ± 9 | $63 \pm 6,3$ | 3,6 | 20 | 11 |