
**Pliers and nippers — Engineer's and
“Lineman's” pliers — Dimensions and
test values**

*Pinces et tenailles — Pinces universelles et pinces «Lineman's» —
Dimensions et valeurs d'essai*



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Foreword

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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 5746 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 5746:1988) which has been technically revised.

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Pliers and nippers — Engineer's and “Lineman's” pliers — Dimensions and test values

1 Scope

This International Standard specifies the principal dimensions of engineer's and Lineman's pliers 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 engineer's and Lineman's pliers 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

3.1 Engineer's pliers

The main dimensions of engineer's pliers are shown in Figure 1 and given in Table 1.

Engineer's pliers can be made with or without a joint cutter, at the manufacturer's discretion.

Engineer's 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.

The cutting force, F_1 , and the diameter, d , of the test wire shall not exceed the values given in Table 2.

Pliers having a lever ratio differing from the values given in Table 2 shall be checked for compliance using the formula given in ISO 5744:2004, 5.3.2.