International Standard



5749

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXICAL OPPAHUSALUM TO CTAHDAPTUSALUM ORGANISATION INTERNATIONALE DE NORMALISATION

Pliers and nippers — Diagonal cutting nippers — Dimensions

Pinces et tenailles - Pinces coupantes diagonales - Dimensions

First edition - 1982-12-01

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 5749:1982

https://standards.iteh.ai/catalog/standards/sist/1c600740-c283-452f-b93f-4930b274f8f4/iso-5749-1982

UDC 621.881.4

Ref. No. ISO 5749-1982 (E)

Descriptors: tools, cutting tools, hand tools, pliers, dimensions.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5749 was developed by Technical Committee ISO/TC 29, VIEW Small tools, and was circulated to the member bodies in April 1979.

It has been approved by the member bodies of the following countries:

ISO 5749:1982

Australia	httHungarylards.iteh.ai/catalog/sRomania/sist/1c600740-c283-452f-b93f				
Austria	India 4930b274South Africa, Rep. of				
Belgium	Israel	Spain			
Bulgaria	Italy	Sweden			
Canada	Japan	Switzerland			
Chile	Korea, Dem. P. Rep. of	USSR			
France	Libyan Arab Jamahiriya	Yugoslavia			
Germany, F.R.	Poland				

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia United Kingdom USA

Pliers and nippers — Diagonal cutting nippers — Dimensions

iTeh STANDARD PREVIEW (standards.iteh.ai)

1 Scope and field of application

ISO 5749:1982

This International Standard lays down the principal dimensions of diagonal cutting nippers and specifies 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 figures in this International Standard are only examples and are not intended to affect the manufacturer's design.

2 References

ISO 5743, Pliers and nippers — General technical requirements. 1)

ISO 5744, Pliers and nippers — Methods of test. 1)

¹⁾ At present at the stage of draft.

3 Diagonal cutting nippers for hard wire

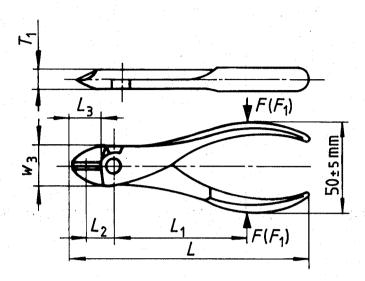


Figure 1

Table 1 iTeh STANDARD PREVIET able 2

1.1	Dimensions in millimetres				
L	L_3 max.	w ₃ max.	T_1 max.		
125 ± 6	18	https:25tandard	10	<u>80 5)</u>	
140 ± 7	20		ls.iteh.µ√catalo	g/stanc	
160 ± 8	22		1 2 930b2	74f8f4	
180 ± 9	25	32	14		
200 ± 10	28	36	16		

Cutting nippers 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 the distance L_1 is not suitable for the load test, the following formula may be applied:

$$F' = \frac{F \times L_1}{L_1'}$$

where

F' is the load which is not given in table 2;

F is the load given in table 2;

 L_1 is the distance from the centre of the joint rivet to the applied load given in table 2;

 L_1' is the measured distance from the centre of the joint rivet to the applied load.

The maximum cutting force (F_1) and the diameter (D) of the test wire shall not exceed the values given in table 2.

A2.10	EII	aij	Hard		Load test		
<i>L</i> 749:1982	L_1	L_2	test Maximum cutting force	load	maximum permanent		
lards/sist /i so-574	/1c60()740-c2	diameter $(D)^{\frac{1}{12}}$ f-b	^{)3f-} (F ₁)	(<i>F</i>)	set (s) 2)	
/ISO-3 /4 mm	mm	mm	mm	N	N	mm	
125 140 160 180 200	80 90 100 112 125	10 11 12,5 14 16	1,25 1,4 1,6 1,8 2	500 575 700 850 1 020	800 900 1 000 1 120 1 250	0,5 0,5 1 1	

¹⁾ Data for hard test wire are given in ISO 5744.

2)
$$s = w_1 - w_2$$
 (See ISO 5744.)

Nippers having a lever ratio differing from the values given in table 2 may be checked for compliance with the following formula:

$$\mathsf{F}_1' = \frac{F_2 \times 2 \times L_2'}{L_1'}$$

where

 F_1' is the maximum cutting force which is not given in table 2;

 F_2 is the cutting force of hard test wire (see ISO 5744);

2 is the correction factor for hard test wire;

 L_1' is the measured distance from the centre of the joint rivet to the applied load;

 L_2' is the measured distance from the centre of the joint rivet to the location of the test wire.

4 Diagonal cutting nippers for medium hard wire

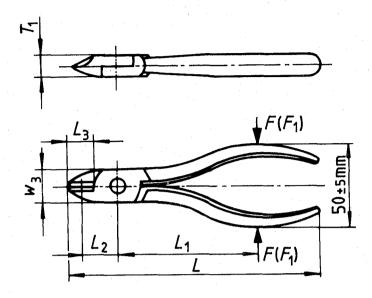


Figure 2

iTeh STANDARD PREVIEW

Table 3

(standards.iteh.ai) Dimensions in millimetres

Table 4

				1
L	L_3 max.	w ₃ max.	TSO 574	19:1982
125 ± 6 160 ± 8	18 22	22 28	1930b424f8f4/	so-574

Cutting nippers shall be tested in accordance with ISO 5744.

After the load test, the permanent set (s) shall not exceed the value given in table 4. If the distance L_1 is not suitable for the load test, the following formula may be applied:

$$F' = \frac{F \times L_1}{L_1'}$$

where

F' is the load which is not given in table 4;

F is the load given in table 4;

 L_1 is the distance from the centre of the joint rivet to the applied load given in table 4;

 L_1' is the measured distance from the centre of the joint rivet to the applied load.

The maximum cutting force (F_1) and diameter (D) of the test wire shall not exceed the values given in table 4.

		Medium		Load test		
1 V1c600 19-1983	ha 00740 ¹ -c283 ⁻² 452f-b	hard test 2f-byvire diameter	Maximum cutting force	load	Maximum permanent set	
17-1702			$(D)^{(1)}$	(F_1)	(F)	(s) 2)
mm	mm	mm	mm	N	N	mm
125 160	80 100	12,5 16	1,6 1,6	450 460	800 1 000	0,5 1

1) Data for medium hard test wire are given in ISO 5744.

2) $s = w_1 - w_2$ (See ISO 5744.)

Nippers having a lever ratio differing from the values given in table 4 may be checked for compliance with the following formula:

$$F_1' = \frac{F_2 \times 1.6 \times L_2'}{L_1'}$$

where

 F'_1 is the maximum cutting force which is not given in table 4:

 F_2 is the cutting force of medium hard test wire (see ISO 5744);

1.6 is the correction factor for medium hard test wire;

 L_1^\prime is the measured distance from the centre of the joint rivet to the applied load;

 L_2^\prime is the measured distance from the centre of the joint rivet to the location of the test wire.

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 5749:1982 https://standards.iteh.ai/catalog/standards/sist/1c600740-c283-452f-b93f-4930b274f8f4/iso-5749-1982

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 5749:1982 https://standards.iteh.ai/catalog/standards/sist/1c600740-c283-452f-b93f-4930b274f8f4/iso-5749-1982

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 5749:1982 https://standards.iteh.ai/catalog/standards/sist/1c600740-c283-452f-b93f-4930b274f8f4/iso-5749-1982