SLOVENSKI STANDARD
SIST ISO 1718:1997

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Oprema za vrtanje kamnin - Vrtalno drogovje s stoģļastim priklјuļkom za udarno vrtanje

Rock drilling equipment -- Drill rods with tapered connection for percussive drilling

Matériel de forage des roches -- Fleurets à raccord conique pour forage percutant

Ta slovenski standard je istoveten z: **ISO 1718:1991**

ICS:

73.100.30	Oprema za vrtanje in izkopavanje	Equipment for drilling and mine excavation

SIST ISO 1718:1997 **en**

INTERNATIONAL STANDARD

ISO 1718

Second edition
1991-01-15

Rock drilling equipment — Drill rods with tapered connection for percussive drilling

Matériel de forage des roches — Fleurets à raccord conique pour forage percutant

Reference number
ISO 1718:1991(E)

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.

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.

International Standard ISO 1718 was prepared by Technical Committee ISO/TC 82, *Mining*.

This second edition cancels and replaces the first edition (ISO 1718:1974), which has been technically revised (addition of sizes 7° × 25 and 12° × 25, amendments of lengths and deletion of tapered bits and thimbles).

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

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Rock drilling equipment — Drill rods with tapered connection for percussive drilling

1 Scope

This International Standard specifies the basic dimensions of drill rods with tapered connection for percussive drilling and the necessary dimensions of the tapered connections.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 722:1990, *Rock drilling equipment — Hollow drill steels in bar form, hexagonal and round.*

ISO 723:1990, *Rock drilling equipment — Forged collared shanks and corresponding chuck bushings for hollow hexagonal drill steels.*

3 Dimensions

The dimensions of the tapered drill rods and the tapered connections shall comply with those given in figure 1 and table 1 and in figure 2 and table 2, respectively.

3.1 Tapered drill rods

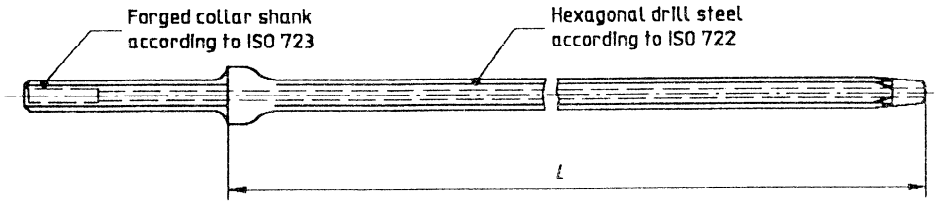


Figure 1

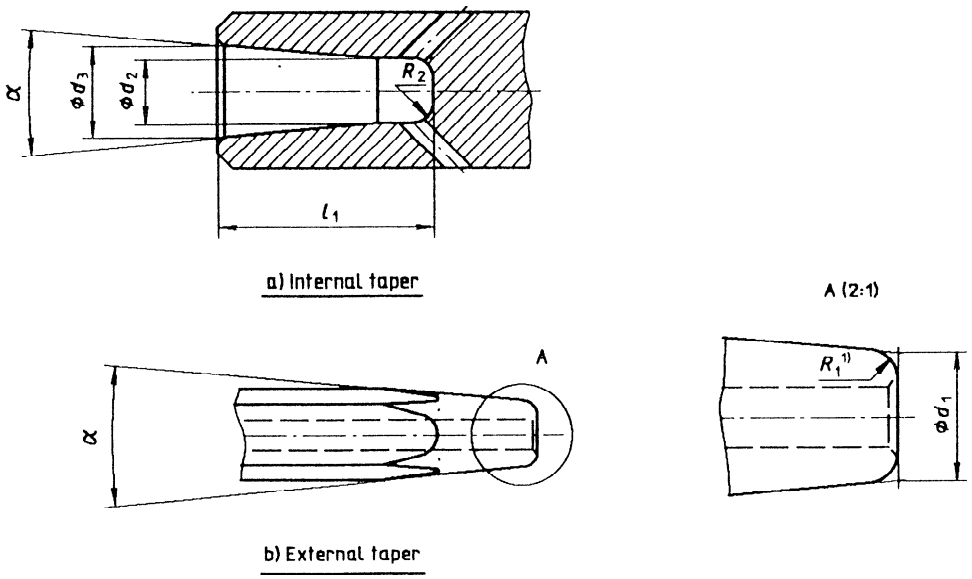
Table 1

Dimensions in millimetres

Nominal size of hexagonal drill steel	L
22	610 1 220 1 830 2 440
25	3 050 3 200[1)] 3 660[1)] 3 965[1)]

1) Drill rods of length 3 200 mm, 3 660 mm and 3 965 mm are mainly intended for size 25.

3.2 Tapers



1) The taper end is allowed to be chamfered within the limits of R_1.

Figure 2

Table 2

Dimensions in millimetres

Designation	Taper angle α degrees	d_1 Size	d_1 Tolerance	d_2 Size	d_2 Tolerance	d_3 Size	d_3 Tolerance	l_1 min.	R_1	R_2
4,8° × 22	4,8	19,1	$^{0}_{-0,2}$	19,3	$^{+0,2}_{0}$	22	$^{+0,2}_{0}$	51	1,5	6,3
7° × 22	7	16	$^{0}_{-0,2}$	16,2	$^{+0,2}_{0}$	21,8	$^{+0,2}_{0}$	54	6	6,3
12° × 22	12	14,9	$^{0}_{-0,2}$	15,4	$^{+0,2}_{0}$	22	$^{+0,2}_{0}$	48	6	6,3
7° × 25	7	19,7	$^{0}_{-0,2}$	20	$^{+0,2}_{0}$	24,4	$^{+0,2}_{0}$	54	6	6,3
12° × 25	12	17,9	$^{0}_{-0,2}$	18,4	$^{+0,2}_{0}$	25,1	$^{+0,2}_{0}$	48	6	6,3