

INTERNATIONAL STANDARD

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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).

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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 ap-

plying 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

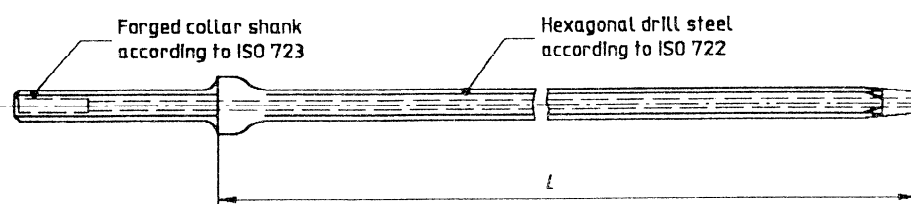


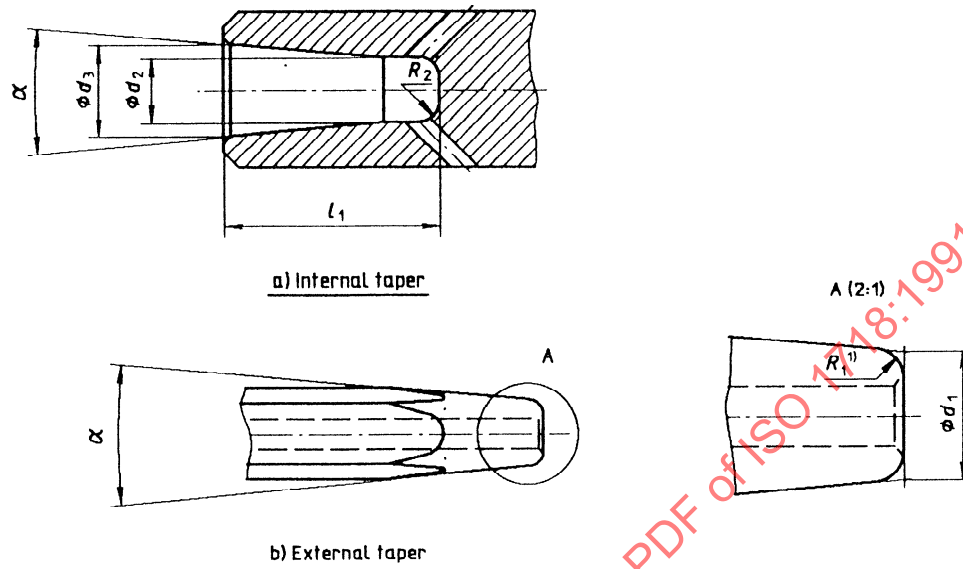
Figure 1

Table 1

Dimensions in millimetres

Nominal size of hexagonal drill steel	<i>L</i>
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		d_2		d_3		l_1 min.	R_1	R_2
		Size	Tolerance	Size	Tolerance	Size	Tolerance			
$4,8^\circ \times 22$	4,8	19,1	$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	19,3	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	22	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	51	1,5	6,3
$7^\circ \times 22$	7	16	$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	16,2	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	21,8	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	54	6	6,3
$12^\circ \times 22$	12	14,9	$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	15,4	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	22	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	48	6	6,3
$7^\circ \times 25$	7	19,7	$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	20	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	24,4	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	54	6	6,3
$12^\circ \times 25$	12	17,9	$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	18,4	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	25,1	$\begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$	48	6	6,3

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