INTERNATIONAL STANDARD 1717

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Rock drilling — Rotary drill-rods and rotary drill-bits for dry drilling — Connecting dimensions

Forage des roches — Fleurets et taillants rotatifs de forage à sec — Dimensions de raccordement

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Descriptors : mining, drilling equipment, drilling stem, drill bits, connecting dimensions.

Price based on 5 pages

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 82 has reviewed ISO Recommendation R 1717 and found it suitable for transformation. International Standard ISO 1717 therefore replaces ISO Recommendation R 1717-1970.

ISO Recommendation R 1717 was approved by the Member Bodies of the following countries :

Australia	Hungary	Poland
Austria	India	South Africa, Rep. of
Belgium	Iran	Spain
Chile	Israel	Sweden
Czechoslovakia	Italy	Thailand
Egypt, Arab Rep. of	Korea, Rep. of	United Kingdom
France	Netherlands	Yugoslavia
Germany	New Zealand	
Greece	Peru	

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

Turkey

No Member Body disapproved the transformation of ISO/R 1717 into an International Standard.

Printed in Switzerland

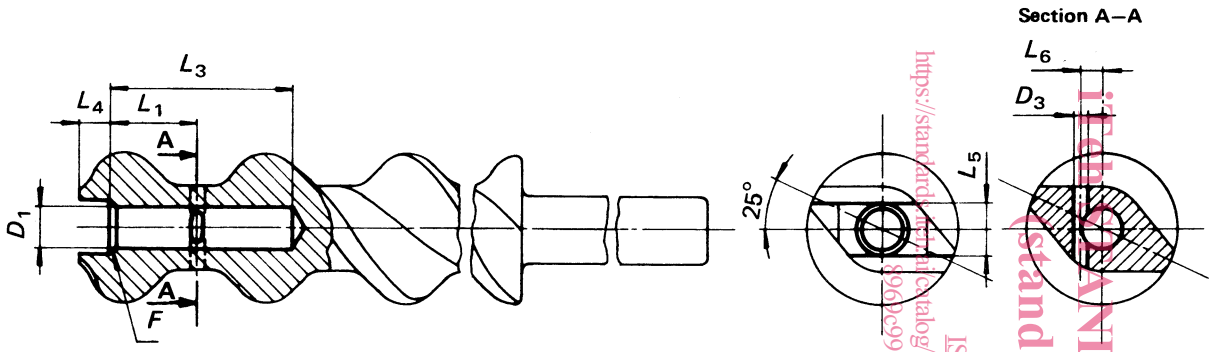
Rock drilling — Rotary drill-rods and rotary drill-bits for dry drilling — Connecting dimensions

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the connecting dimensions for rotary drill-rods and the shanks of drill-bits for dry drilling. In addition, an example is given of drill-rods and drill-bits for one method of wet drilling.

The dimensions of the drill-rods and drill-bits are not specified in this International Standard.

2 DRILL-ROD FOR DRY DRILLING-DIAMOND SECTION



Eccentricity :

The distance between the centre of diameter D_1 and the centre of the rod shall not exceed 0,8 mm (0.031 in).

The centre of diameter D_1 may deviate by a maximum of 0,13 mm (0,005 in) from the centre line between the driving flats (L_5).

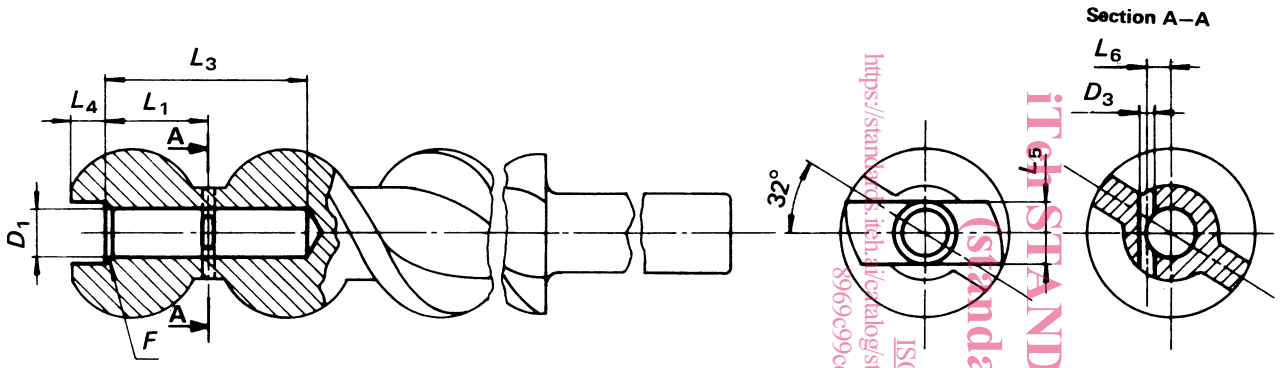
Dimensions in millimetres

D_1 $^{+0,2}_{0}$	D_3 $^{+0,3}_{0}$	L_1 ± 0,15	L_3 ± 1,6	L_4 ± 0,2	L_5 $^{+0,8}_{0}$	L_6 ± 0,2	F (in hole) min.
12,8	4,5	23	49,2	8,5	13,5	6,5	0,25 × 45°

Dimensions in inches

D_1 $^{+0.008}_{0}$	D_3 $^{+0.012}_{0}$	L_1 ± 0.006	L_3 ± 0.063	L_4 ± 0.008	L_5 $^{+0.032}_{0}$	L_6 ± 0.008	F (in hole) min.
0.504	0.177	0.907	1.938	0.335	0.531	0.256	0.010 × 45°

3 DRILL-ROD FOR DRY DRILLING-TURBINE SECTION



Eccentricity :

The distance between the centre of diameter D_1 and the centre of the rod shall not exceed 0,8 mm (0.031 in).

The distance between the centre of diameter D_1 and the centre line between the driving flats (L_5) shall not exceed 0,13 mm (0.005 in).

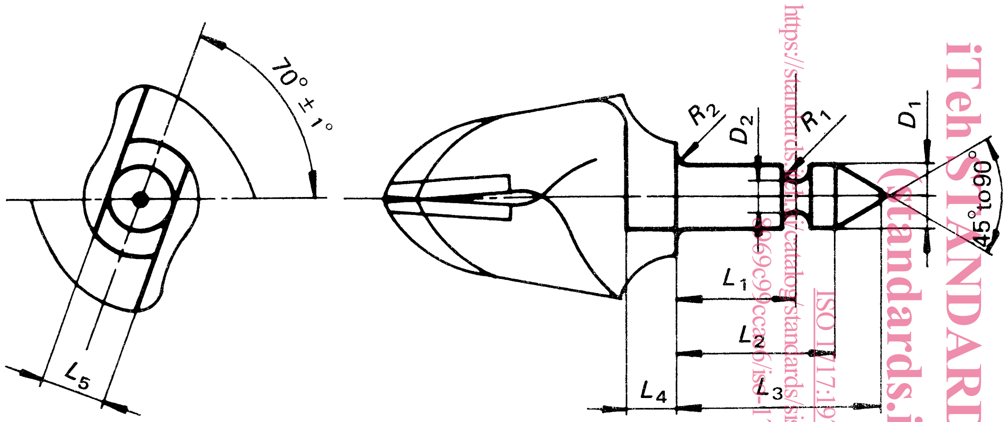
Dimensions in millimetres

D_1 $^{+0,2}_{0}$	D_3 $^{+0,3}_{0}$	L_1 ± 0,15	L_3 ± 1,6	L_4 ± 0,2	L_5 $^{+0,8}_{0}$	L_6 ± 0,2	F (in hole) min.
12,8	4,5	23	49,2	8,5	13,5	6,5	0,25 × 45°

Dimensions in inches

D_1 $^{+0.008}_{0}$	D_3 $^{+0.012}_{0}$	L_1 ± 0.006	L_3 ± 0.063	L_4 ± 0.008	L_5 $^{+0.032}_{0}$	L_6 ± 0.008	F (in hole) min.
0.504	0.177	0.907	1.938	0.355	0.531	0.256	0.010 × 45°

4 DRILL-BITS FOR DRY DRILLING



Eccentricity :

The distance between the centre of diameter D_1 and the centre line between the driving flats (L_5) shall not exceed 0,13 mm (0.005 in).

Dimensions in millimetres

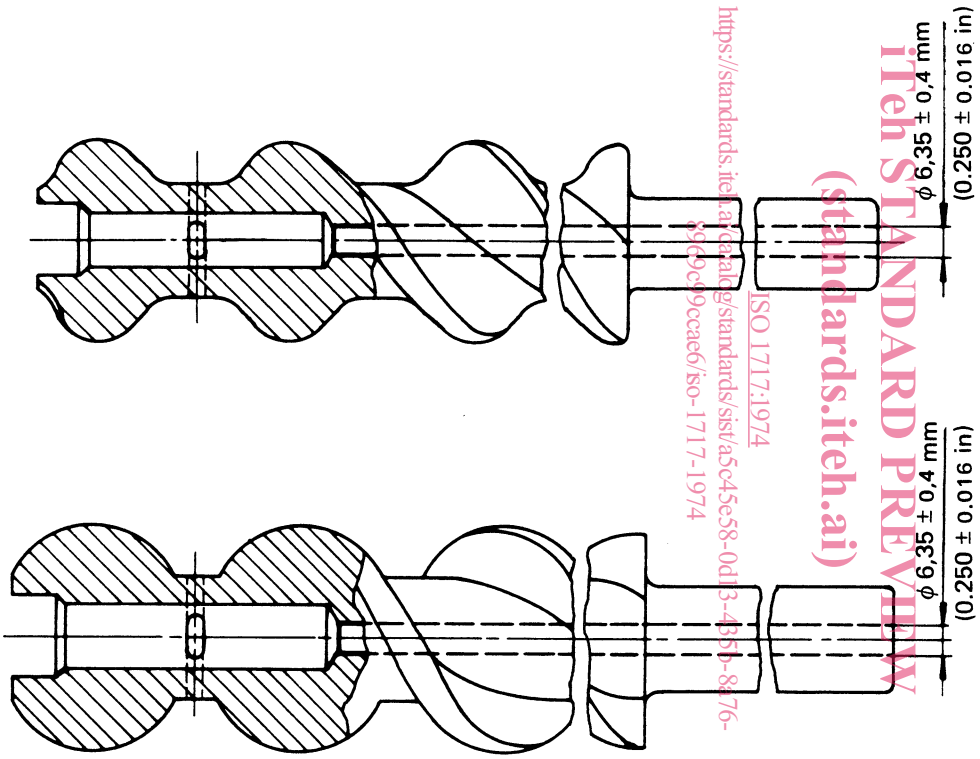
D_1 0 − 0,10	D_2 0 − 0,25	L_1 ± 0,15	L_2 ± 0,4	L_3 max.	L_4 ± 0,2	L_5 0 − 0,3	R_1 ± 0,13	R_2 max.
12,7	8,6	23	29,9	39,3	9,7	13,1	3,2	0,3

Dimensions in inches

D_1 0 − 0.004	D_2 0 − 0.01	L_1 ± 0.006	L_2 ± 0.016	L_3 max.	L_4 ± 0.008	L_5 0 − 0.012	R_1 ± 0.005	R_2 max.
0.500	0.340	0.907	1.177	1.547	0.382	0.516	0.125	0.012

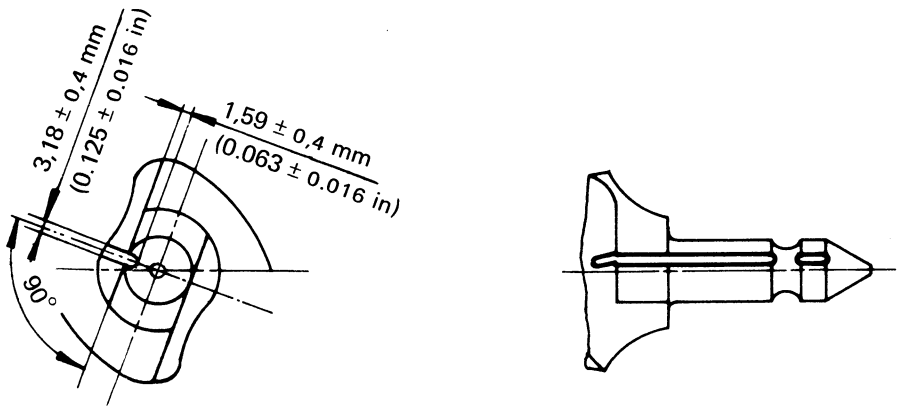
5 EXAMPLES OF DRILL-RODS FOR ONE METHOD OF WET DRILLING

Detailed information on dimensions is given in clauses 2 and 3.



6 EXAMPLE OF A DRILL-BIT FOR ONE METHOD OF WET DRILLING

Detailed information on dimensions is given in clause 4.



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