
INTERNATIONAL STANDARD



1719

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

Rock drilling — Extension drill-steel equipment for percussive long-hole drilling — Rope-threaded equipments 7/8 to 1 1/4 in (22 to 32 mm)

Forage des roches — Matériels pour forage percutant de longs trous — Équipements à filetage corde 7/8 à 1 1/4 in (22 à 32 mm)

First edition — 1974-09-15

UDC 622.233.5

Ref. No. ISO 1719-1974 (E)

Descriptors : mining, drilling equipment, percussion drilling.

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 1719 and found it suitable for transformation. International Standard ISO 1719 therefore replaces ISO Recommendation R 1719-1970.

ISO Recommendation R 1719 was approved by the Member Bodies of the following countries :

Belgium	India	South Africa, Rep. of
Canada	Iran	Spain
Czechoslovakia	Israel	Sweden
Egypt, Arab Rep. of	Italy	Thailand
France	Japan	Turkey
Germany	Netherlands	United Kingdom
Greece	New Zealand	Yugoslavia
Hungary	Poland	

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

Austria*

The Member Body of the following country disapproved the transformation of ISO/R 1719 into an International Standard :

Canada

* Subsequently, this Member Body approved the Recommendation.

Rock drilling — Extension drill-steel equipment for percussive long-hole drilling — Rope-threaded equipments 7/8 to 1 1/4 in (22 to 32 mm)

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the basic dimensions for rope-threaded extension drill-steel equipment for percussive long-hole drilling, of the following nominal sizes :

- 7/8 in (22 mm)
- 1 in light (25 mm)
- 1 in (25 mm)
- 1 1/4 in light (32 mm)
- 1 1/4 in (32 mm)

2 REFERENCE

ISO 723, *Rock drilling — Forged collared shanks and chuck bushings for hollow hexagonal drill-steels.*

3 LIST OF COMPONENTS

Equipment	7/8 in (22 mm)		1 in light (25 mm)		1 in (25 mm)		1 1/4 in light (32 mm)		1 1/4 in (32 mm)	
Thread diameter	7/8 in		1 in		1 in		1 1/4 in		1 1/4 in	
Size of drill-steel in bar form	7/8 in hexagonal (22 mm)		7/8 in hexagonal (22 mm)		1 in hexagonal (25 mm)		1 in hexagonal (25 mm)		1 1/4 in round (32 mm)	
Lengths of shank rods (clause 4)	mm	ft in	—		—		—		—	
	1 000	3 3								
	1 800	5 11								
	2 600	8 6								
	3 400	11 2								
Lengths of shank adapters, hexagon type (clause 5)	—		mm	in	mm	in	—		—	
			255	10	255	10				
Shank adapter, lug-shank type (clause 6)	—		Shank-end diameter 1 1/4 in		Shank-end diameter 1 1/4 in		Shank-end diameter 1 1/4 in		Shank-end diameter 1 1/4 in (1 1/2 in)	
Lengths of extension rods (clause 7)	mm	ft in	mm	ft	mm	ft	mm	ft	mm	ft
	800	2 7	915	3	915	3	915	3	915	3
	—	— —	1 220	4	1 220	4	1 220	4	1 220	4
	1 600	5 3	—	—	—	—	1 525	5	—	—
	—	— —	1 830	6	1 830	6	1 830	6	1 830	6
	2 400	7 10	2 435	8	2 435	8	2 435	8	2 435	8
	3 200	10 6	—	—	—	—	—	—	3 050	10
Wrench flats for extension rods	See clause 8									
Coupling sleeves	See clause 9									
Bit diameter (chisel bits) (clause 10)	mm	in	mm	in	mm	in	mm	in	mm	in
	36	1 7/16	—	—	—	—	—	—	—	—
	38	1 1/2	—	—	—	—	—	—	—	—
	41	1 5/8	—	—	—	—	—	—	—	—
Bit diameter (four-wing bits) (clause 11)	35	1 3/8	—	—	—	—	—	—	—	—
	38	1 1/2	—	—	—	—	—	—	—	—
	41	1 5/8	41	1 5/8	41	1 5/8	—	—	—	—
	—	—	45	1 3/4	45	1 3/4	—	—	—	—
	—	—	—	—	—	—	48	1 7/8	48	1 7/8
	—	—	51	2	51	2	51	2	51	2
	—	—	—	—	—	—	57	2 1/4	57	2 1/4
	—	—	—	—	—	—	64	2 1/2	64	2 1/2
Rope threads	See clause 12									
Hollow hexagonal bars for extension rods	See clause 13									
Hollow round bars for extension rods	See clause 14									