

# INTERNATIONAL STANDARD

**ISO**  
**723**

Second edition  
1991-02-15

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## Rock drilling equipment — Forged collared shanks and corresponding chuck bushings for hollow hexagonal drill steels

### iTeh STANDARD PREVIEW

*Matériel de forage des roches — Emmanchements à collerette forgée et  
douilles porte-outils pour fleurets hexagonaux creux*

ISO 723:1991

<https://standards.iteh.ai/catalog/standards/sist/f30ba843-7f99-4aba-865a-9ea62e904751/iso-723-1991>

INTERNATIONAL

ISO



Reference number  
ISO 723:1991(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 723 was prepared by Technical Committee ISO/TC 82, *Mining*.

This second edition cancels and replaces the first edition (ISO 723:1974), which has been technically revised (extension of the range of sizes and specification of the size of the internal diameter at the forged collar).

# Rock drilling equipment — Forged collared shanks and corresponding chuck bushings for hollow hexagonal drill steels

## 1 Scope

This International Standard specifies the dimensions of forged collared shanks for hollow hexagonal drill steels in bar form for rock drilling, which comply with ISO 722. It also specifies the dimensions for the corresponding chuck bushings.

## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encour-

aged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

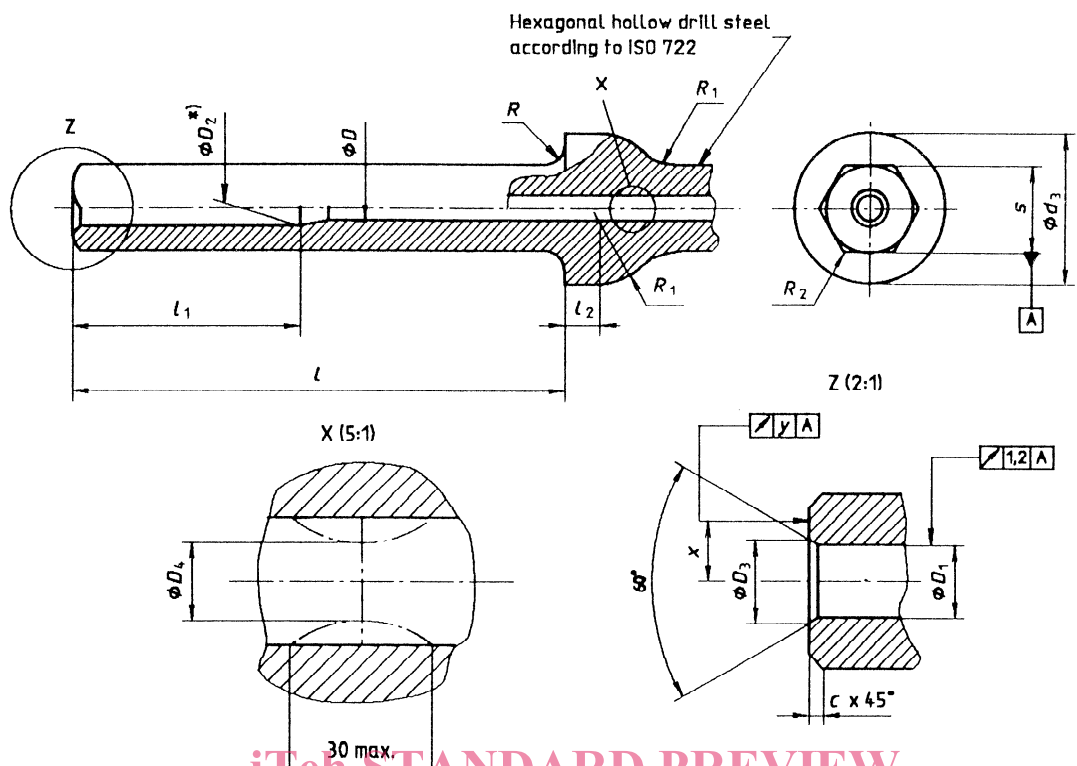
ISO 722:1991, *Rock drilling equipment — Hollow drill steels in bar form, hexagonal and round*.

## 3 Dimensions

### 3.1 Forged collar shanks

The dimensions of the forged collared shanks and corresponding chuck bushings shall comply with the dimensions given in figure 1 and table 1 and in figure 2 and table 2, respectively.

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\*) Diameter measured at the entry point of the cone.  
**Figure 1**  
**ISO 723:1991**  
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**Table 1**

Dimensions in millimetres

| Nominal size | $s$            | $l$<br>$\pm 1$ | $l_1$<br>min. | $l_2$ | $d_3$<br>$\pm 1$ | $D$<br>min. | $D_1$<br>$\pm 0,3$ | $D_2$<br>$+0,3$<br>$-0,6$ | $D_3$<br>$\pm 0,4$ | $D_4$<br>min. | $R$<br>max. | $R_1$ | $R_2$<br>$+1$<br>$0$ | $c$<br>$\pm 0,2$ | $x$ | $y$  |
|--------------|----------------|----------------|---------------|-------|------------------|-------------|--------------------|---------------------------|--------------------|---------------|-------------|-------|----------------------|------------------|-----|------|
| 19           | 19,2<br>$-0,4$ | 108            | 50            | 6,5   | 33               | 5,5         | 8                  | 8                         | 9,4                | 3,5           | 4,5         | 16    | 1,5                  | 1                | 7   | 0,15 |
| 22           | 22,4<br>$-0,4$ | 108            | 50            | 6,5   | 35               | 6,1         | 9                  | 9                         | 10,4               | 4             | 4,5         | 16    | 2                    | 1                | 9   | 0,2  |
| 25           | 25,6<br>$-0,6$ | 108            | 50            | 6,5   | 38               | 6,8         | 9,5                | 9,5                       | 10,9               | 4,5           | 4,5         | 16    | 2                    | 1                | 9   | 0,2  |
| 25           | 25,6<br>$-0,6$ | 159            | 70            | 6,5   | 38               | 6,8         | 9,5                | 9,5                       | 10,9               | 4,5           | 4,5         | 16    | 2                    | 1                | 9   | 0,2  |
| 28           | 28,9<br>$-0,6$ | 159            | 75            | 6,5   | 43               | 8,3         | 9,5                | 9,5                       | 10,9               | 6,5           | 4,5         | 16    | 3                    | 1                | 11  | 0,2  |

### 3.2 Chuck bushings

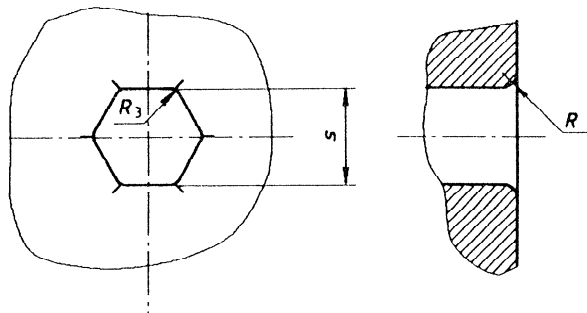


Figure 2

Table 2

Dimensions in millimetres

| Nominal size | $l$ 1) | $s$   | $R$<br>$\begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$ | $R_3$<br>max. |
|--------------|--------|---|--|---------------|
| 19           | 108    | 19,2 $\begin{smallmatrix} +0,25 \\ +0,05 \end{smallmatrix}$ | 4,5  | 1,2           |
| 22           | 108    | 22,4 $\begin{smallmatrix} +0,25 \\ +0,05 \end{smallmatrix}$ | 4,5  | 1,2           |
| 25           | 108    | 25,6 $\begin{smallmatrix} +0,25 \\ +0,05 \end{smallmatrix}$ | 4,5  | 1,2           |
| 25           | 159    | 25,6 $\begin{smallmatrix} +0,35 \\ +0,05 \end{smallmatrix}$ | 4,5  | 1,2           |
| 28           | 159    | 28,9 $\begin{smallmatrix} +0,35 \\ +0,05 \end{smallmatrix}$ | 4,5  | 1,2           |

1) See table 1 and figure 1.

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### UDC 622.233.7

**Descriptors:** mining equipment, drilling equipment, rock drills, drill steels, hollow profiles, hexagonal bars, bushings, shanks, dimensions.

Price based on 3 pages

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