

**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा

**कंटशर नेल के लिए ड्राइवर — विशिष्टि**

*(IS 7055 का पहला पुनरीक्षण)*

***Draft Indian Standard***

**Drivers for Kuntscher Nail — Specification**

*(First Revision of IS 7055)*

ICS 11.040.40

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Orthopaedic Instruments, Implants and  
Accessories Sectional Committee, MHD 02

Last date for comments: **22 November 2024**

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**FOREWORD**

*(Formal clauses will be added later)*

This standard was first published in 1973. The first revision of this standard has been brought out to align the cross references to latest standards.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'

## 1 SCOPE

This standard covers dimensional and other requirements of Kuntscher nail drivers used in orthopaedic surgery.

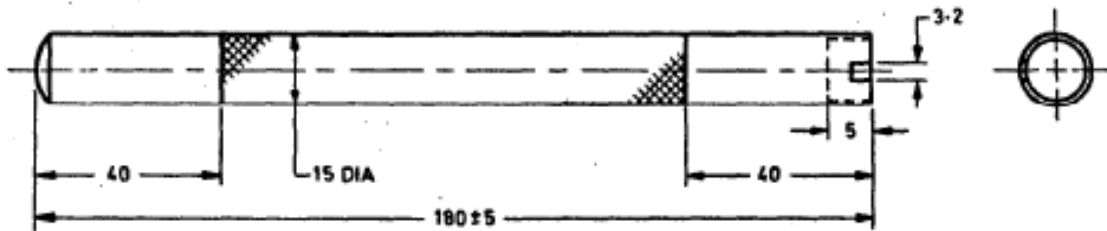
## 2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

<i>IS No.</i>	<i>Title</i>
IS 6603 : 2001	Stainless steel bars and flats - Specification ( <i>first revision</i> )
IS 1070 : 2023	Reagent Grade Water Specification ( <i>fourth revision</i> )

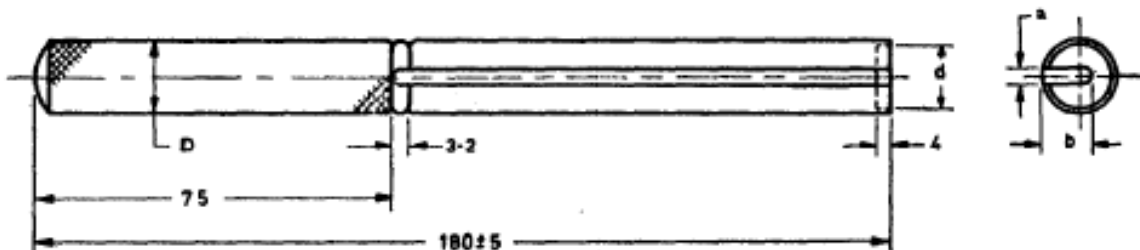
## 3 SHAPE AND DIMENSIONS

As shown in Fig. 1, 2 and 3.



All dimensions in millimetres.

FIG. 1 ORTHDPAEDIC KUNTSCHER NAIL DRIVER

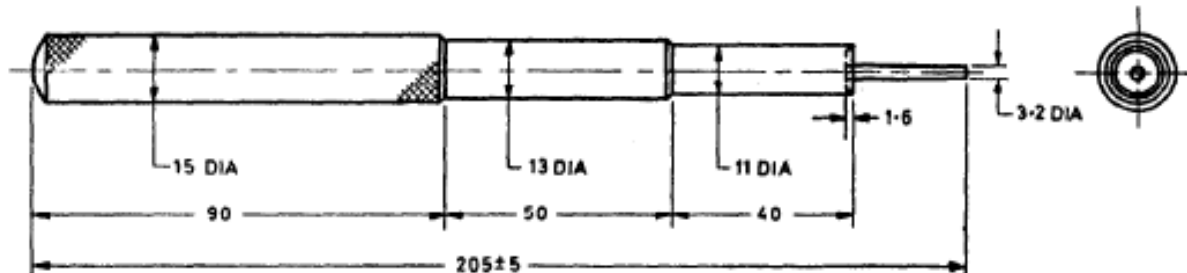


<b>D</b>	<b>d</b>	<b>a</b>	<b>b</b>
± 0.2	± 0.2	± 0.2	± 0.2
16	12	3.2	9.3

20	17	5.2	12.6
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All dimensions in millimetres.

Fig, 2, ORTHOPAEDIC KUNTSCHER NAIL SLOTTED DRIVER



All dimensions in millimetres.

FIG. 3 ORTHOPAEDIC KUNTSCHER NAIL SET

#### 4 MATERIAL

Stainless steel conforming to Designation 30Cr13 of IS 6603.

#### 5 WORKMANSHIP AND FINISH

5.1 The driver shall be free from rough edges, pits, burrs, cracks and blemishes of any kind.

5.2 The knurling and serrations, wherever provided, shall be well formed and clean.

5.3 The driver shall be passivated and polished bright to give a mirror or satin finish.

#### 6 HEAT TREATMENT

The driver shall be hardened and tempered to 420 to 460 HV.

#### 7 TESTS

##### 7.1 Performance Test

Drive a 25 mm long flat head wire nail into a piece of hard wood about 25 mm thick. Put the nail driver on the flat head of the nail and strike it 5 times with a hammer. The nail driver shall not bend or show any sign of damage.

##### 7.2 Corrosion Resistance Test

Scrub the sample with soap and warm water, rinse in hot water and then dip in 95-percent ethyl alcohol. Dry the sample. Immerse in copper room temperature for 6 minutes and wash with fresh water or wet cotton wool. Make up the solution as follows:

Copper Sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	4.0 g
Sulphuric acid ( $\text{H}_2\text{SO}_4$ ) (sp gr 1.84)	10.0 g
Distilled water [ <i>see</i> IS 1070]	90.0 ml

There shall be no red stains or spots on the sample but dulling of the polished surface may be permitted.

## **8 MARKING**

Each driver shall be marked with the manufacturer's name, initials or recognized trade-mark.

### **8.1 BIS Certification Marking**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

## **9 PACKING**

As agreed to between the purchaser and the supplier.