
INTERNATIONAL STANDARD



2339

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

Taper pins, unhardened — Metric series

Goupilles coniques non trempées — Série métrique

First edition — 1974-10-01

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[ISO 2339:1974](#)

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UDC 621.886.5

Ref. No. ISO 2339-1974 (E)

Descriptors : fasteners, taper pins, specifications, dimensions, dimensional tolerances.

Price based on 2 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.

International Standard ISO 2339 was drawn up by Technical Committee ISO/TC 2, *Bolts, nuts and accessories*, and circulated to the Member Bodies in April 1972.

It has been approved by the Member Bodies of the following countries :

| | | | |
|---------------------|-------------|--|-----------------------|
| Australia | Ireland | ISO 2339:1974 | South Africa, Rep. of |
| Belgium | Italy | standards.iteh.ai/catalog/standards/si/11b4-c65e02a-c0fe/iso-2339-1974 | Spain |
| Canada | Japan | | Sweden |
| Denmark | Netherlands | | Switzerland |
| Egypt, Arab Rep. of | New Zealand | | Thailand |
| Finland | Norway | | Turkey |
| Germany | Poland | | United Kingdom |
| Hungary | Portugal | | U.S.S.R. |
| India | Romania | | |

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

France
U.S.A.

Taper pins, unhardened – Metric series

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions and tolerances for unhardened taper pins of the metric series, classified as Type A ground and Type B turned.

2 REFERENCES

ISO/R 888, *Nominal lengths for bolts, screws and studs – Thread lengths for general purpose bolts.*

ISO 1947, *System of cone tolerances for conical work pieces from $C = 1 : 3$ to $1 : 500$ and lengths from 6 to 630 mm.*

3 DIMENSIONS

Type A : ground,
angle tolerance : AT 8

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Type B : turned,
angle tolerance : AT 10

Taper 1 : 50

ISO 2339:1974 Taper 1 : 50

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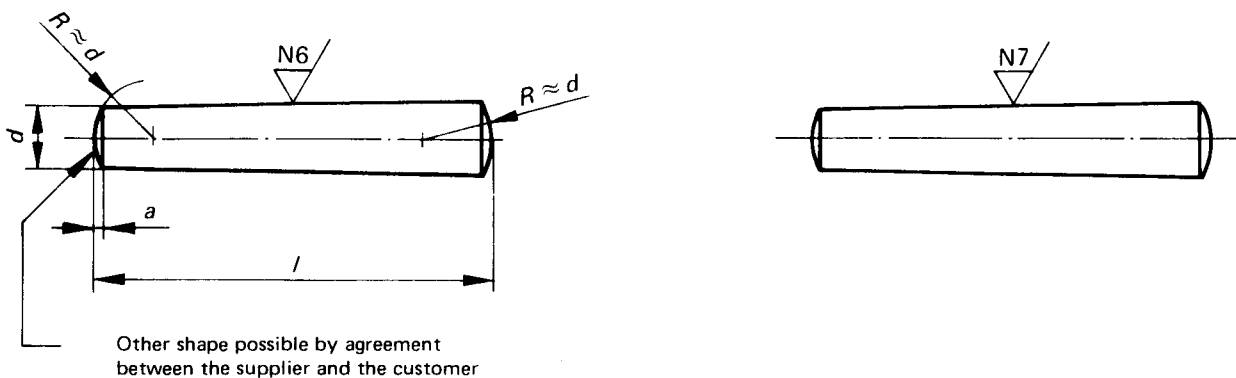


TABLE 1 – Dimensions (except length l ; see table 2)

Values in millimetres

| d h10 | 0,6 | 0,8 | 1 | 1,2 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | 50 |
|-------------|------|-----|------|------|-----|------|-----|-----|-----|------|-----|---|-----|-----|----|-----|----|----|----|-----|
| $a \approx$ | 0,08 | 0,1 | 0,12 | 0,16 | 0,2 | 0,25 | 0,3 | 0,4 | 0,5 | 0,63 | 0,8 | 1 | 1,2 | 1,6 | 2 | 2,5 | 3 | 4 | 5 | 6,3 |

NOTE – Angle tolerances AT 8 and AT 10 only for taper pins with nominal lengths larger than 6 mm (see ISO 1947).

TABLE 2 – Standard lengths

Values in millimetres

| Length / i_{s15} | Diameter d | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------|-----|---|-----|-----|---|-----|---|---|---|---|---|----|----|----|----|----|----|----|----|--|
| | 0,6 | 0,8 | 1 | 1,2 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | 50 | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | | | | | | | | |
| 150 | | | | | | | | | | | | | | | | | | | | | |
| 160 | | | | | | | | | | | | | | | | | | | | | |
| 170 | | | | | | | | | | | | | | | | | | | | | |
| 180 | | | | | | | | | | | | | | | | | | | | | |
| 190 | | | | | | | | | | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | | | | |

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For lengths above 200 mm, use steps of 20 mm.

For special circumstances, intermediate lengths selected from ISO/R 888 are acceptable.