
International Standard



8404

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

Angle pins — Basic dimensions

Doigts de démoulage — Dimensions

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[ISO 8404:1986](#)

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Ref. No. ISO 8404-1986 (E)

Descriptors : tools, moulds, components, pins (mechanics), dimensions, materials, designation.

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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8404 was prepared by Technical Committee ISO/TC 29
Small tools.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Angle pins — Basic dimensions

1 Scope and field of application

This International Standard specifies the basic dimensions in millimetres of angle pins intended for use in diecast dies and moulds.

2 References

ISO 4957, *Tool steels*.

ISO 8404:1986

<https://standards.iteh.ai/catalog/standards/sist/13c209ac-06ca-4b41-8ccb-30c72c301198>

ISO 6508, *Metallic materials — Hardness test — Rockwell test (scales A — B — C — D — E — F — G — H — K)*.¹⁾

3 Dimensions

See the figure and the table.

4 Material and hardness

Angle pins shall be made from tool steel in accordance with ISO 4957. The hardness values shall be as follows:

shaft: 62 ± 2 HRC

head: 45 ± 5 HRC

5 Designation

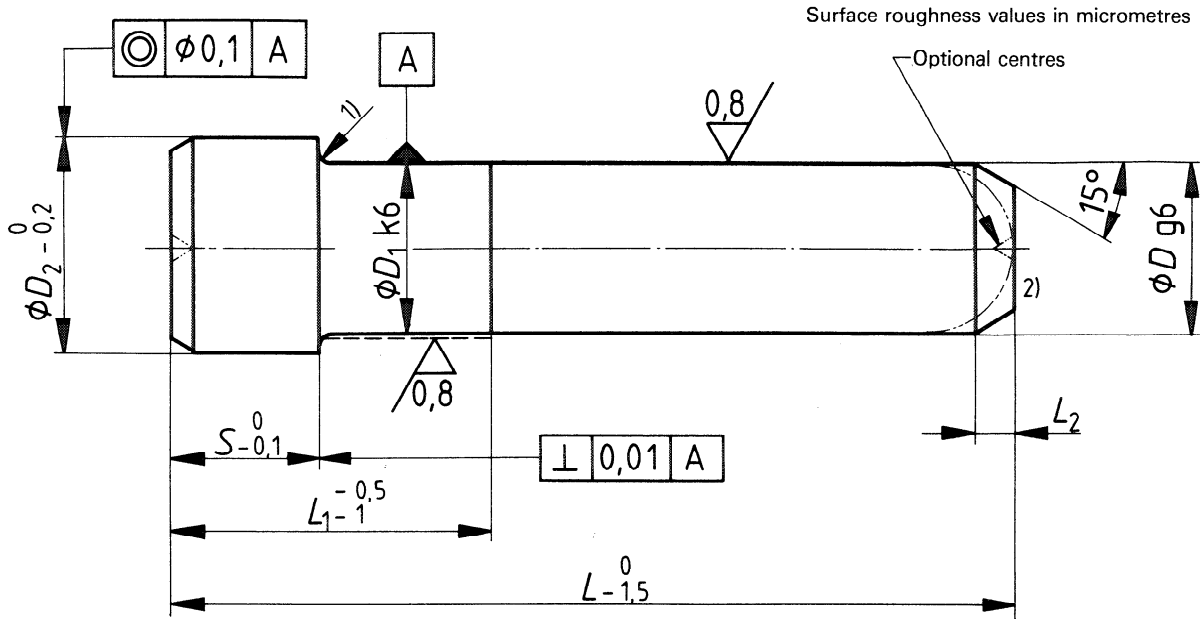
An angle pin in accordance with this International Standard shall be designated by

- reference to this International Standard;
- its diameter, D_1 ;
- its length, L .

Example:

Angle pin ISO 8404 - 10×63

1) At present at the stage of draft. (Revision of ISO/R 80-1968 and ISO 2713-1973.)



Figure

- 1) Standing radius or a recess.
- 2) The leading end may be rounded. The choice of shape is left to the manufacturer.

Table

D	10	12	16	20	25	32	40
D_1							
S	12	14	14	16	20	25	25
D_2	14	16	20	25	30	38	46
L_2	2.5	3	4	5	6	8	10
L	L_1						
63	22	22					
80	22	22	30				
100	28	28	30	36			
125	28	28	30	36			
140		28	30	36			
160			40	36			
180			40	36	46		
200			40	46	46	56	63
224			40	46	46	56	63
250				46	46	56	71
280				46	46	56	71
315					46	63	71
355						63	71
400						63	71
450						63	80
500							80