

ISO/TC 149

Secretariat: DIN

Voting begins on:
2015-09-07

Voting terminates on:
2015-11-07

Cycles — Pedal axle and crank assembly with square end fitting — Assembly dimensions

*Cycles — Axe de pédalier et manivelle à emmanchement carré —
Dimensions d'assemblage*

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 149, *Cycles*.

This second edition cancels and replaces the first edition (ISO 6695:1991), which has been technically revised.

Cycles — Pedal axle and crank assembly with square end fitting — Assembly dimensions

1 Scope

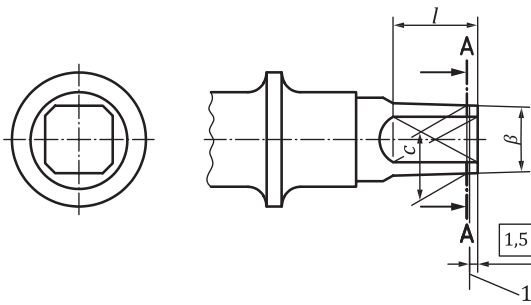
This International Standard specifies the dimensions for the assembly of cranks on bottom bracket spindles with square end fittings.

2 Dimensions

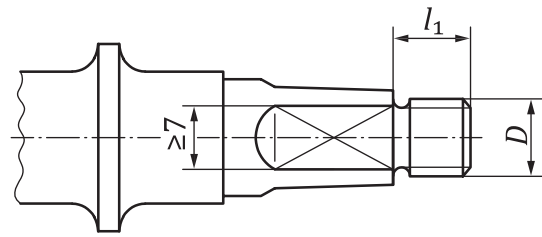
Dimensions for the assembly of cranks on bottom bracket spindles with square end fittings shall be as given in [Figure 1](#) and [Table 1](#).

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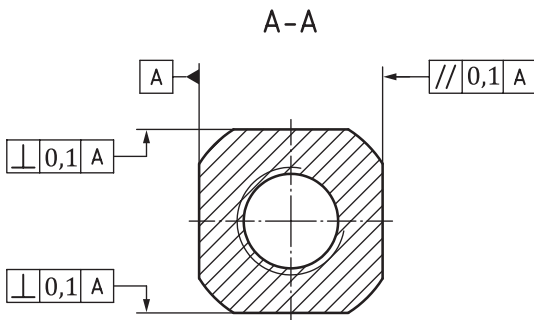
Dimensions in millimetres



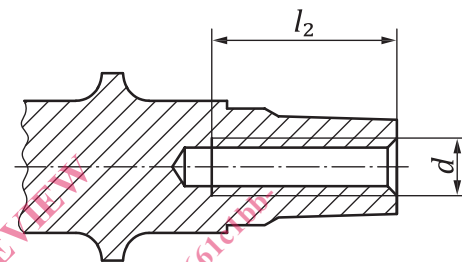
a) Bottom bracket spindle – Square end dimensions



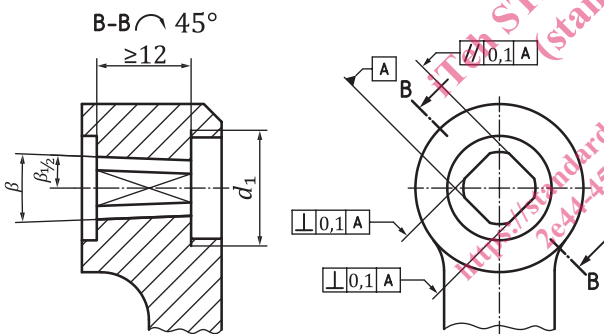
b) Bottom bracket spindle with external thread



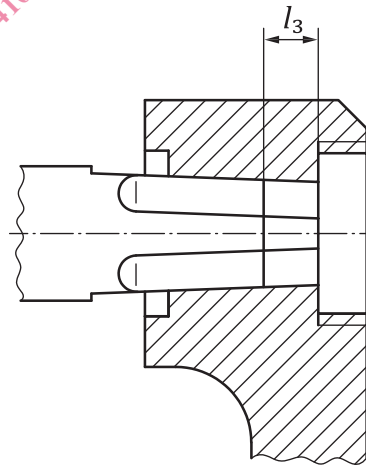
c) Bottom bracket spindle – Cross section A-A



d) Bottom bracket spindle with internal thread



e) Crank



f) Assembly

Key

1 reference plane (section plane)

Figure 1 — Dimensions for the assembly of cranks on bottom bracket spindles with square end fittings

Table 1 — Dimensions and tolerances

Dimensions in millimetres

Spindle									Crank	Assem- bly
<i>l</i>		β	$\beta_{1/2}$	<i>c</i>	<i>D</i>	<i>l</i> ₁	<i>d</i>	<i>l</i> ₂	<i>d</i> ₁	<i>l</i> ₃ ^a
Right side	Left side									
$18,0^{+2}_0$	$18,0^{+2}_0$	$4^{\circ+10}_0$	$2^{\circ+5}_0$	$12,73^{+0,020}_{-0,050}$	M10 × 1,25 -6H/6g	$10^0_{-0,5}$	M8 × 1 -6H/6g	20,0 min.	M22 × 1 -6H/6g	$1,5^{2,0}_0$

^a After tightening once to the supplier's recommended tightening torque.

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