INTERNATIONAL STANDARD

ISO 6695

Second edition
2015-12-15

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

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

Reference number
ISO 6695:2015(E)

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Contents

Page

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 with the following modifications:

a) in Figure 1, illustration of cross section of bottom bracket spindle added;

b) in Figure 1, illustration of crank revised and front-view added;

c) in Figure 1, dimensions added and revised;

d) in Figure 1 and Table 1, half wedge angle $\beta 1/2$ added;

e) in Table 1, dimensions and tolerances revised and specified;

f) editorial changes.

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

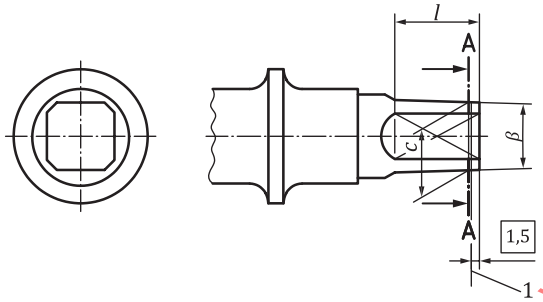
1 Scope

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

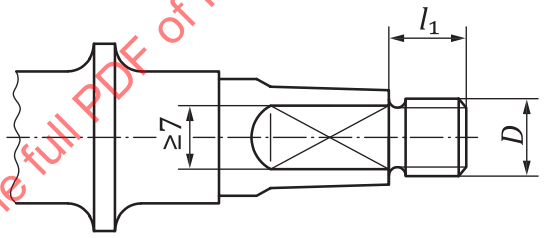
2 Dimensions

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

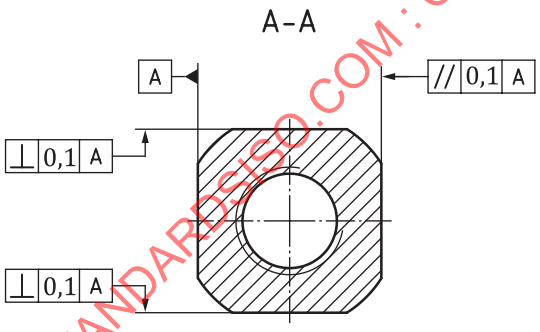
Dimensions in millimetres



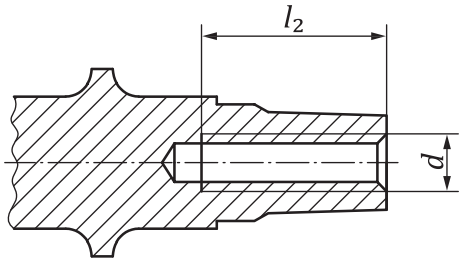
a) Bottom bracket spindle – Square end dimensions



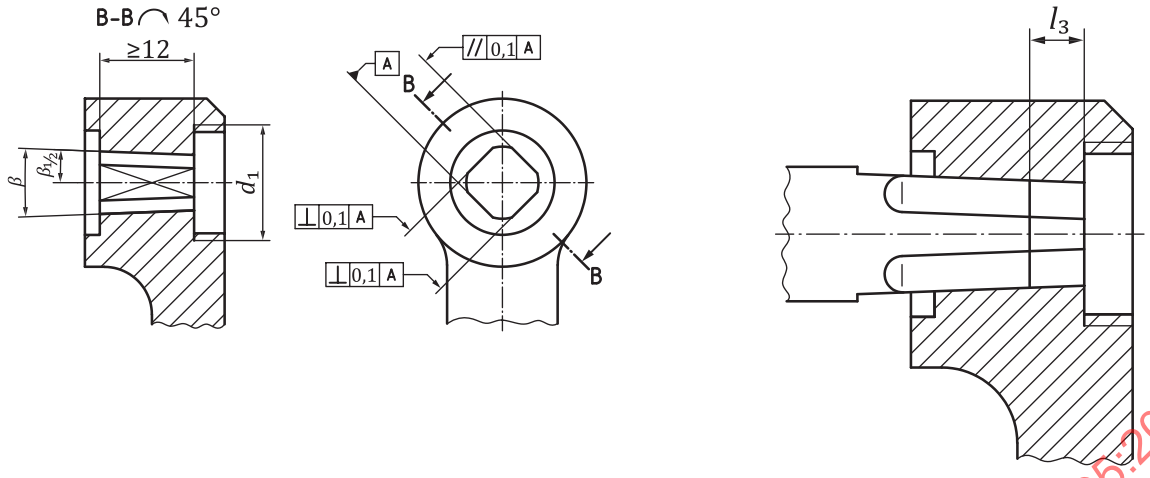
b) Bottom bracket spindle with external thread



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	Assembly
l		β	$\beta_{1/2}$	c	D	l_1	d	l_2	d_1	l_3[a]
Right side	Left side									
$18{,}0^{+2}_{0}$	$18{,}0^{+2}_{0}$	$4°^{+10'}_{0'}$	$2°^{+5'}_{0'}$	$12{,}73^{+0{,}020}_{-0{,}050}$	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.