INTERNATIONAL STANDARD

ISO 603-17

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Bonded abrasive products — Dimensions —

Part 17: **Spindle mounted wheels (ISO type 52)**

Produits abrasifs agglomérés — Dimensions —

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 29, *Small tools*, Subcommittee SC 5, *Grinding wheels and abrasives*.

ISO 603-17:2014

ISO 603 consists of the following parts; under the general title Bonded abrásive products — Dimensions: 890be5e685cc/iso-603-17-2014

- Part 1: Grinding wheels for external cylindrical grinding between centres
- Part 2: Grinding wheels for centreless external cylindrical grinding
- Part 3: Grinding wheels for internal cylindrical grinding
- Part 4: Grinding wheels for surface grinding/peripheral grinding
- Part 5: Grinding wheels for surface grinding/face grinding
- Part 6: Grinding wheels for tool and tool room grinding
- Part 7: Grinding wheels for manually guided grinding
- Part 8: Grinding wheels for deburring and fettling/snagging
- Part 9: Grinding wheels for high-pressure grinding
- Part 10: Stones for honing and superfinishings
- Part 11: Hand finishing sticks
- Part 12: Grinding wheels for deburring and fettling on a straight grinder
- Part 13: Grinding wheels for deburring and fettling on a vertical grinder
- Part 14: Grinding wheels for deburring and fettling/snagging on an angle grinder
- Part 15: Grinding wheels for cutting-off on stationary or mobile cutting-off machines
- Part 16: Grinding wheels for cutting-off on hand-held power tools

- Part 17: Spindle mounted wheels (ISO type 52)
- Part 18: Grinding wheels for flat glass edge grinding machines

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Bonded abrasive products — Dimensions —

Part 17:

Spindle mounted wheels (ISO type 52)

1 Scope

 $This \, part \, of \, ISO \, 603 \, specifies \, the \, current \, shapes, \, nominal \, dimensions \, and \, limit \, deviations, \, in \, millimetres, \, of \, constant \, constan$

Type 52: Spindle mounted wheels.

These bonded abrasive products are intended to be used for hand-held grinding and manually guided or on hand-held power tools guided by hand.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 525, Bonded abrasive products General requirements ai)

3 Shapes and dimensions hai/catalog/standards/sist/f6fc14d6-3b0e-464d-8627-

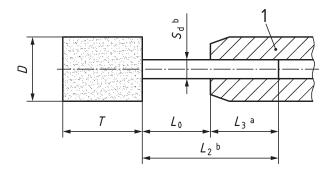
NOTE 1 In all tables below, the "Designation" given in the first column is generated according to the following principle: Shape (= three letter code), D (mm), T (mm), and S_d (mm). For example, the designation for a spindle mounted wheel, shape WPL with D=10 mm, T=13 mm, and $S_d=6$ mm the designation is "WPL 10 13 06". As an exception, this rule can only be applied equivalently to 3.11, Table 11, because dimension T does not exist for the spherical shape.

NOTE 2 In all tables below, the former code is given in the second column for information only.

3.1 Wheel plain, Shape WPL

See Figure 1 and Table 1.

Dimensions in millimetres



Key

- 1 collet
- a $L_3 \ge 10$.
- b $S_d = 3$ and $L_2 = 30$ or $S_d = 6$ and $L_2 = 40$ or $S_d = 8$ and $L_2 = 40$.

Figure 1 — Wheel plain, Shape WPL

Table 1 — Wheel plain, Shape WPL, $S_{\rm d}$ = 3 mm and L_2 = 30 mm or $S_{\rm d}$ = 6 mm and L_2 = 40 mm or $S_{\rm d}$ = 8 mm and L_2 = 40 mm

Dimensions in millimetres				
Designation (stone)	Former code		T	W
WPL 03 06 03	W144	ten.a	6	
WPL 03 10 03 ISO	603-145 ₂₀	14 3	10	
https://sWPLr03.143r.03catalog/s	tanWa146/sis	t/f6fc14d6-	3b0 ₺3 464	1-8627-
WPL 05 06 03 be 5 e 6 8	5covisp5203	-17-2014	6	
WPL 05 10 03	W153	5	10	
WPL 05 13 03	W154		13	
WPL 06 06 03	W160		6	
WPL 06 10 03 WPL 06 10 06	W162	6	10	
WPL 06 13 03 WPL 06 13 06	W163		13	
WPL 06 20 03	W164		20	
WPL 08 10 03 WPL 08 10 06	W169		10	
WPL 08 13 03	W170	8	13	
WPL 08 20 03	W171		20	
WPL 10 10 03 WPL 10 10 06	W175		10	
WPL 10 13 03 WPL 10 13 06	W176	10	13	
WPL 10 20 03 WPL 10 20 06	W177		20	
WPL 10 25 03 WPL 10 25 06	W178		25	
WPL 10 32 06	W179		32	

 Table 1 (continued)

	Designation	Former code	D	Т
	WPL 13 03 03	W182		3
	WPL 13 03 06 WPL 13 06 03	W183		6
	WPL 13 06 06 WPL 13 13 03	W 103		0
	WPL 13 13 06	W185	13	13
	WPL 13 20 03 WPL 13 20 06	W186		20
	WPL 13 25 03 WPL 13 25 06	W187		25
	WPL 13 40 06	W188		40
	WPL 16 20 03 WPL 16 20 06	W195		20
	WPL 16 25 03 WPL 16 25 06	W196	16	25
	WPL 16 50 06	W197		50
	WPL 20 06 03 WPL 20 06 06	W201		6
iΤ	WPL 20 10 03 eh SWPL 20 10 06 A R	W202	EVIE	10
	WPL 20 20 03 WPL 20 20 06 rds.	i (W204.	1i) ₂₀	20
	WPL 20 25 06	W205		25
https://st	WPL 20 32 06	W206	6-3b0e-46	32
пиралла	WPL 20.38.06 cc/iso-6	03-W20701	1	38
	WPL 20 50 06	W208		50
	WPL 25 03 03 WPL 25 03 06	W215		3
	WPL 25 06 03 WPL 25 06 06	W216		6
	WPL 25 10 06	W217	25	10
	WPL 25 13 06	W218		13
	WPL 25 20 06	W219		20
	WPL 25 25 06	W220		25
	WPL 25 32 06 WPL 25 32 08	W221		32
	WPL 25 50 06 WPL 25 50 08	W222		50
	WPL 32 06 06	W225		6
	WPL 32 10 06	W226		10
	WPL 32 20 06	W228	32	20
	WPL 32 32 06 WPL 32 32 08	W230		32
	WPL 32 50 06	W232		50
	WPL 38 06 06	W235		6
	WPL 38 13 06	W236	38	13
	WPL 38 38 06 WPL 38 38 08	W238		38

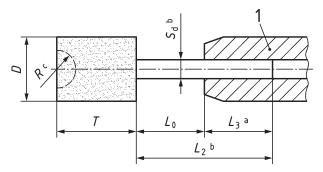
Table 1 (continued)

Designation	Former code	D	T
WPL 40 20 06 WPL 40 20 08	W237	40	20
WPL 50 25 06 WPL 50 25 08	W242	50	25

3.2 Wheel concave end, Shape WCC

See Figure 2 and Table 2.

Dimensions in millimetres



Key

1 collet

 $L_3 \ge 10$.

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b $S_d = 3$ and $L_2 = 30$ or $S_d = 6$ and $L_2 = 40$.

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R is specified by the manufacturer. https://standards.iteh.ai/catalog/standards/sist/f6fc14d6-3b0e-464d-8627-890be5e685cc/iso-603-17-2014

Figure 2 — Wheel concave end, Shape WCC

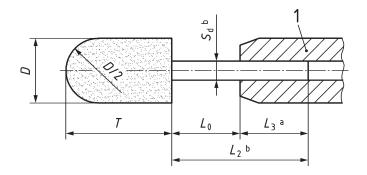
Table 2 — Wheel concave end, Shape WCC, S_d = 3 mm and L_2 = 30 mm or S_d = 6 mm and $L_2 = 40 \text{ mm}$

Designation	Former code	D	T
WCC 06 13 03	B135	6	13
WCC 10 13 06	B132	10	13
WCC 10 10 03	B133		10
WCC 10 13 03	B132		13
WCC 13 13 03 WCC 13 13 06	B131	13	13
WCC 20 30 06	A39	20	30
WCC 25 25 06	A38	25	25

Dimensions in millimetres

3.3 Wheel round end, Shape WRE

See Figure 3 and Table 3.



Key

- 1 collet
- a $L_3 \ge 10$.
- b $S_d = 6$ and $L_2 = 40$.

Figure 3 — Wheel round end, Shape WRE

Table 3 — Wheel round end, Shape WRE, S_d = 6 mm and L_2 = 40 mm

Dimensions in millimetres

iT	Designation WRE 06 20 06	Former code A24	D CV	T 20
	WRE252506 r C S.	itaza.	25	25

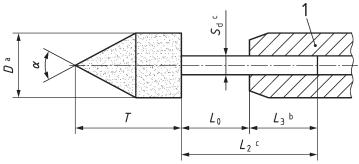
3.4 Wheel conical end, Shape WCE SO 603-17:2014

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See Figure 4 and Table 4.

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Dimensions in millimetres



Key

- 1 collet
- a For $D \le 20$ mm is $\alpha = 60^{\circ}$. For D > 20 mm is $\alpha = 90^{\circ}$.
- b $L_3 \ge 10$.
- c $S_d = 3$ and $L_2 = 40$ or $S_d = 6$ and $L_2 = 40$.
- d α is specified by the manufacturer.

Figure 4 — Wheel conical end, Shape WCE