INTERNATIONAL STANDARD

ISO 5610-7

First edition 2010-08-01

Tool holders with rectangular shank for indexable inserts —

Part 7: **Style J**

Porte-plaquette à queue rectangulaire pour plaquettes amovibles —

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 5610-7 was prepared by Technical Committee ISO/TC 29, Small tools, Subcommittee SC 9, Tools with cutting edges made of hard cutting materials.

This first edition of ISO 5610-7, together with ISO 5610-1, ISO 5610-2, ISO 5610-3, ISO 5610-4, ISO 5610-5, ISO 5610-6, ISO 5610-8, ISO 5610-9, ISO 5610-10, ISO 5610-11, ISO 5610-12, ISO 5610-13, ISO 5610-14 and ISO 5610-15, cancels and replaces ISO 5610-1998.

ISO 5610 consists of the following parts, under the general title *Tool holders with rectangular shank for indexable inserts*:

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- Part 1: General survey, correlation and determination of dimensions
- Part 2: Style A
- Part 3: Style B
- Part 4: Style D
- Part 5: Style F
- Part 6: Style G
- Part 7: Style J
- Part 8: Style K
- Part 9: Style L
- Part 10: Style N
- Part 11: Style R
- Part 12: Style S
- Part 13: Style T
- Part 14: Style H
- Part 15: Style V

Tool holders with rectangular shank for indexable inserts —

Part 7: Style J

1 Scope

This part of ISO 5610 specifies tool holders with rectangular shank, style J, i.e. with offset shank and cutting edge angle $\kappa_r = 93^{\circ}$ for side cutting.

These tool holders are primarily intended for indexable inserts made of hardmetal or other cutting materials to be mounted by clamping and to be used for turning operations.

NOTE The symbols for the dimensions shown in the tables of this part of ISO 5610 and the corresponding preferred symbols of properties defined in ISO/TS 13399-2 and ISO/TS 13399-3 are given in ISO 5610-1:2010, Table A.1.

2 Normative references STANDARD PREVIEW

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. 5610-7:2010

https://standards.iteh.ai/catalog/standards/sist/7f5fdbaa-0b83-4019-b52c-

ISO 5608:1995, Turning and copying tool holders and cartridges for indexable inserts — Designation

ISO 5610-1:2010, Tool holders with rectangular shank for indexable inserts — Part 1: General survey, correlation and determination of dimensions

3 Dimensions

3.1 General

It is not necessary for tool holders to comply with the pictorial representation; only the dimensions given shall be observed.

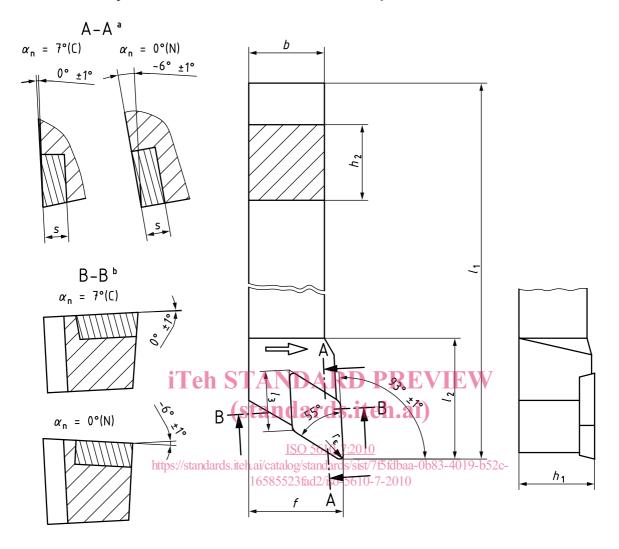
For determination of dimensions h_1 , f and l_1 , see ISO 5610-1.

For explanation of the designation code for tool holders, see ISO 5608.

NOTE The values of rake angles and inclination angles shown in the figures are recommended values; they can vary according to the application.

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3.2 Tool holder style J for rhombic indexable insert shape D



NOTE The figure shows a right-hand tool holder (R); left-hand tool holder (L) laterally reversed.

- a Inclination angle λ_n .
- b Rake angle γ_n .

Figure 1 — Tool holder style J for rhombic indexable insert — D

Table 1

Dimensions in millimetres

						L	imensions ir	i iiiiiiiiiieu es
Symbol ^a	h ₁	b	l_3	f	h_2	l ₁ a	l_2	$_S$ b
Symbol*	js13	h13	*	+0,5 0	h13	k16	max.	
SDJCR 0808 — 07	0	8	7,75	10	8	_	25	2.20
SDJCL 0808 — 07	- 8							2,38
SDJCR 1010 — 07	- 10	10	7,75	12	10	_	25	2,38
SDJCL 1010 — 07								2,50
SDJCR 1212 — 07	- 12	12	7,75	16	12		25	2,38
SDJCL 1212 — 07								
SDJCR 1616 — 11	16	16	11,6	20	16	_	32	3,97
SDJCL 1616 — 11								
SDJCR 2020 — 11	20	20	11,6	- 25	20	_	32	3,97
SDJCL 2020 — 11								0,01
PDJNR 2020 — 15			15,5				40	6,35
PDJNL 2020 — 15								0,00
CDJNR 2525 — 15	25	25	15,5	32	25	_	40	7,95
CDJNL 2525 — 15	25	25 <u>IS</u> s.iteh.ai/catalo	15,5 SO 5610-7:2	ist/7f5fdbaa-(25	— 52c-	40	7,00
SDJCR 2525 — 15								4,76
SDJCL 2525 — 15								1,70
PDJNR 2525 — 15								6,35
PDJNL 2525 — 15								
CDJNR 3225 — 15		25	15,5	32	32	_	40	7,95
CDJNL 3225 — 15								.,55
SDJCR 3225 — 15	32							4,76
SDJCL 3225 — 15								4,70
PDJNR 3225 — 15								6,35
PDJNL 3225 — 15								5,50
SDJCR 4032 — 15	40	32	15,5	40	40	_	40	4,76
SDJCL 4032 — 15								.,. 0
PDJNR 4032 — 15								6,35
PDJNL 4032 — 15								0,00

^a For the selection of length, l_1 , the en-dash may be replaced by the dimensions of ISO 5610-1:2010, Table 2. For letter symbols identifying the tool length, see ISO 5608:1995, Table 6.

b Insert thickness without shim, if any.

A-A³ $\alpha_n = 7^{\circ}(C)$ $\alpha_n = 0^{\circ}(N)$ $0^{\circ} \pm 1^{\circ}$ $\alpha_n = 7^{\circ}(C)$ $\alpha_n = 7^{\circ}(C)$

3.3 Tool holder style J for triangular indexable insert shape T

Key

- 1 style of tool holder with indexable insert contact on both sides
- a Inclination angle λ_n .

 $\alpha_n = 0^{\circ}(N)$

b Rake angle γ_h .

NOTE The figure shows a right-hand tool holder (R); left-hand tool holder (L) laterally reversed.

Figure 2 — Tool holder style J for triangular indexable insert — T

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 h_1

Table 2

Dimensions in millimetres

	Dimensions in millimetres								
Symbol ^a	h ₁	b	l_3	f	h ₂	l ₁ a	l_2	<i>s</i> b	
	js13	h13	≈	+0,5 0	h13	k16	max.		
STJCR 2020 — 16								3,97	
STJCL 2020 — 16	20	20	16,5	25	20	_	32	5,91	
PTJNR 2020 — 16		20	10,5	25	20	_	32	4,76	
PTJNL 2020 — 16								4,70	
CTJNR 2525 — 16								7,94	
CTJNL 2525 — 16								7,04	
STJCR 2525 — 16	25	25	16,5	32	25	_	32	3,97	
STJCL 2525 — 16		20	10,0	02	20		02	0,01	
PTJNR 2525 — 16								4,76	
PTJNL 2525 — 16								1,70	
STJCR 2525 — 22									
STJCL 2525 — 22	25	25	22	32	25	_	36	4,76	
PTJNR 2525 — 22			DADI			7		1,70	
PTJNL 2525 — 22	iTeh S	STAN	DARI) PRE	AIRM	/			
CTJNR 3225 — 16		(stand	lards.i	teh.ai				7,94	
CTJNL 3225 — 16	ns://st ao dard	<u>IS</u> s.iteh. ais catalo	SO 5610-7:20 og/sta rdæ ds/s	<u>010</u> ist/7f 32 baa-0	0b83- 32 19-b	052c- <u> </u>	32	7,01	
STJCR 3225 — 16								3,97	
STJCL 3225 — 16		1658552	3 fad 2/iso-56	10-7-2010	02		02	0,07	
PTJNR 3225 — 16								4,76	
PTJNL 3225 — 16								.,,,	
STJCR 3225 — 22									
STJCL 3225 — 22	32	25	22	32	32	_	36	4,76	
PTJNR 3225 — 22	"-	20		<u> </u>	02			.,	
PTJNL 3225 — 22									
STJCR 4032 — 22	- 40	32	22	40	40	_	36		
STJCL 4032 — 22								4,76	
PTJNR 4032 — 22								.,,, 0	
PTJNL 4032 — 22									
PTJNR 4032 — 27	40	32	27,5	40	40	_	40	6,35	
PTJNL 4032 — 27			_ , , •	. •			. •	-,	
^a See Table 1.									

See Table 1.