# INTERNATIONAL STANDARD

ISO 5610-6

First edition 2010-08-01

## Tool holders with rectangular shank for indexable inserts —

Part 6: Style G

Porte-plaquette à queue rectangulaire pour plaquettes amovibles —

iTeh STPartie 6 Forme 6 PREVIEW (standards.iteh.ai)

ISO 5610-6:2010 https://standards.iteh.ai/catalog/standards/sist/83e4fd8a-90ce-4fce-b3a2-2f663cfa2893/iso-5610-6-2010



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### **Foreword**

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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 5610-6 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 5610-6, together with ISO 5610-1, ISO 5610-2, ISO 5610-3, ISO 5610-4, ISO 5610-5, ISO 5610-7, 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*:

https://standards.iteh.ai/catalog/standards/sist/83e4fd8a-90ce-4fce-b3a2-

- 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

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### Tool holders with rectangular shank for indexable inserts —

## Part 6: Style G

### 1 Scope

This part of ISO 5610 specifies tool holders with rectangular shank, style G, i.e. with offset shank and cutting edge angle  $\kappa_r = 90^{\circ}$  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.

### iTeh STANDARD PREVIEW

### 2 Normative references (standards.iteh.ai)

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. Pool undated references, the latest edition of the referenced document (including any amendments) applies: standards/sist/83e4fd8a-90ce-4fce-b3a2-2f663cfa2893/iso-5610-6-2010

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.

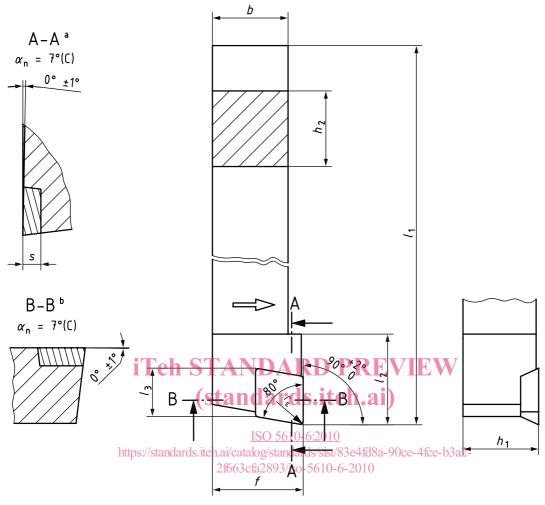
For determination of dimensions  $h_1$ , f and  $l_1$ , see ISO 5610-1.

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 G for rhombic indexable insert shape C



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

- a Inclination angle  $\lambda_n$ .
- b Rake angle <sub>ħ</sub>.

Figure 1 — Tool holder style G for rhombic indexable insert — C

Table 1

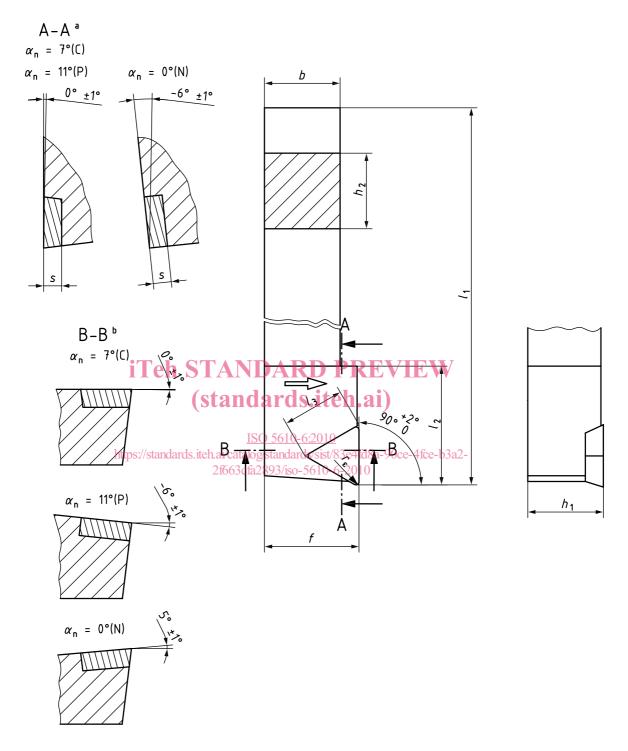
Dimensions in millimetres

Symbol <sup>a</sup>	h <sub>1</sub>	b	$l_3$	f	$h_2$	l <sub>1</sub> a	$l_2$	<i>s</i> b
	js13	h13	≈	+0,5 0	h13	k16	max.	
SCGCR 0808 — 06	- 8	8	6,4	10	8	_	12	2,38
SCGCL 0808 — 06								
SCGCR 1010 — 06	10	10	6,4	12	10	_	12	2,38
SCGCL 1010 — 06								

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.

### 3.3 Tool holder style G for triangular indexable insert shape T



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

- a Inclination angle  $\lambda_n$ .
- b Rake angle  $\gamma_n$ .

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

Table 2

Dimensions in millimetres

								1 millimetres
Symbol <sup>a</sup>	$h_1$	b	$l_3$	f	$h_2$	$l_1^{a}$	$l_2$	<i>s</i> b
	js13	h13	≈	+0,5 0	h13	k16	max.	
STGCR 1212 — 11			11	16		_	25	2,38
STGCL 1212 — 11	12	12			12			2,30
PTGNR 1212 — 11								
PTGNL 1212 — 11								3,18
CTGPR 1212 — 11								3,10
CTGPL 1212 — 11								
STGCR 1616 — 11		16	11		16	_	25	2,38
STGCL 1616 — 11								2,00
PTGNR 1616 — 11	16			20				
PTGNL 1616 — 11	10							3,18
CTGPR 1616 — 11								0,10
CTGPL 1616 — 11								
STGCR 1616 — 16	i		CAND			<b>IEW</b>		3,97
STGCL 1616 — 16								0,07
PTGNR 1616 — 16	16	16 <b>(S</b>	tanda 16,5	rds.ite	<b>h.al)</b>	_	32	4,76
PTGNL 1616 — 16	<u> </u>  -	/standards.ite	<u>ISO</u> : h.ai/catalog/st	5610-6:2010	3e4fd8a-90c	e-4fce-b3a2-		1,70
CTGPR 1616 — 16								3,18
CTGPL 1616 — 16								0,10
STGCR 2020 — 16		20	16,5	25	20	_	32	3,97
STGCL 2020 — 16	- 20							
PTGNR 2020 — 16								4,76
PTGNL 2020 — 16								.,. 0
CTGPR 2020 — 16								3,18
CTGPL 2020 — 16								5,.5
STGCR 2525 — 16		25	16,5	32	25	_	32	3,97
STGCL 2525 — 16								-,
PTGNR 2525 — 16	25							4,76
PTGNL 2525 — 16								.,. 0
CTGPR 2525 — 16								3,18
CTGPL 2525 — 16								-,
STGCR 2525 — 22	25	25	22	32	25	_	36	
STGCL 2525 — 22								
PTGNR 2525 — 22								4,76
PTGNL 2525 — 22								.,. 5
CTGPR 2525 — 22								
CTGPL 2525 — 22								

Table 2 (continued)

Dimensions in millimetres

I	,	7		C	7	, 3	7	h
Symbol <sup>a</sup>	<i>h</i> <sub>1</sub>	b	$l_3$	f	h <sub>2</sub>	l <sub>1</sub> a	$l_2$	<sup>2</sup> p
	js13	h13	*	+0,5 0	h13	k16	max.	
STGCR 3225 — 16		25		32		_	32	3,97
STGCL 3225 — 16	32		16,5		32			0,07
PTGNR 3225 — 16								4,76
PTGNL 3225 — 16								
CTGPR 3225 — 16								2 10
CTGPL 3225 — 16								3,18
STGCR 3225 — 22		25	22	32	32	_	36	
STGCL 3225 — 22								4,76
PTGNR 3225 — 22	20							
PTGNL 3225 — 22	32							
CTGPR 3225 — 22								
CTGPL 3225 — 22								
STGCR 3232 — 22	iTeh S	32 <u>IS</u> Is.iteh.ai/catalo	lards.i 22 80 5610-6:20	iteh.ai 40 010 sist/83e4fd8a-	32	/  3a2-	36	
STGCL 3232 — 22								4,76
PTGNR 3232 — 22								
PTGNL 3232 — 22								
CTGPR 3232 — 22 ht	tps://standard							
CTGPL 3232 — 22								
STGCR 4040 — 22	40	40	22	50	40	_	36	4,76
STGCL 4040 — 22								
PTGNR 4040 — 22								
PTGNL 4040 — 22								
CTGPR 4040 — 22								
CTGPL 4040 — 22								
PTGNR 4040 — 27	40	40	27,5	50	40	_	40	6,35
PTGNL 4040 — 27								
PTGNR 5050 — 27	- 50	50	27,5	60	50	_	40	6,35
PTGNL 5050 — 27								
<sup>a</sup> See Table 1.								

b See Table 1.