

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

Ceramic tools

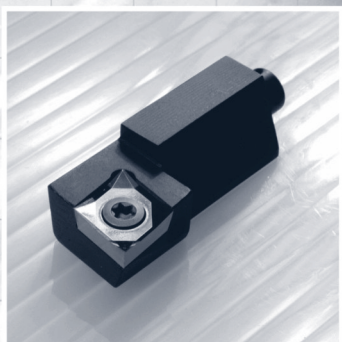
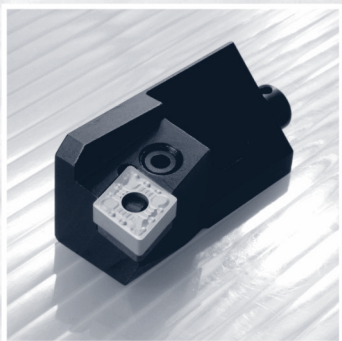
Parting and
grooving

Threading

Drills

Cartridges

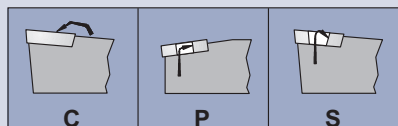
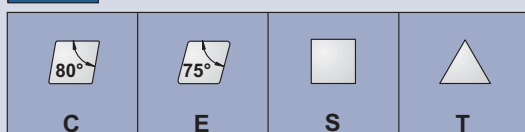
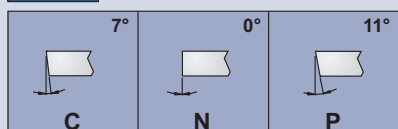
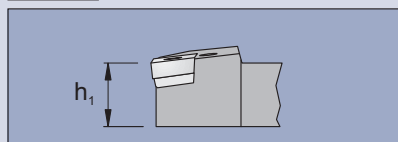
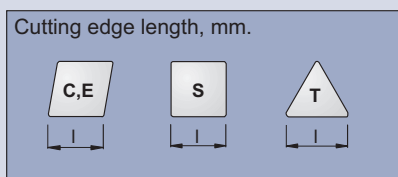
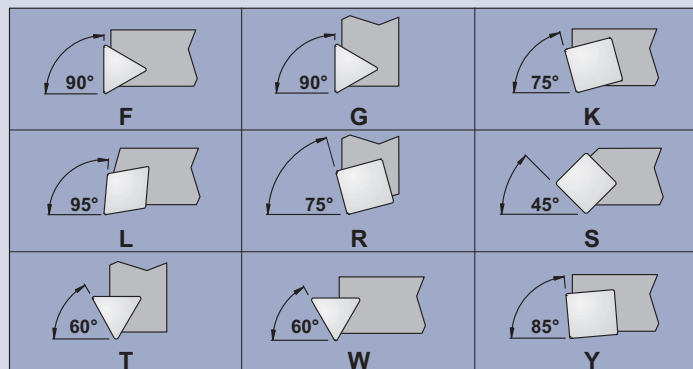
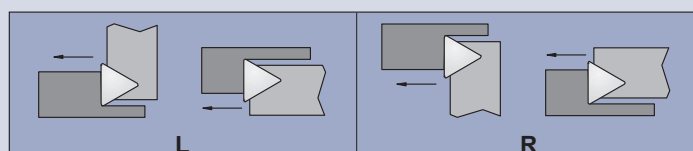
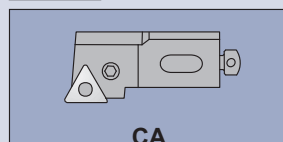
Cartridges



Cartridges

Code key	J.02
Applications index	J.03
Top clamp cartridges	J.04
Lever lock cartridges	J.08
Center screw cartridges	J.13

P	C	L	N	R	16	CA	-	12
1	2	3	4	5	6	7		8

1**2****4****6****8****3****5****7****CA**

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

Ceramic tools

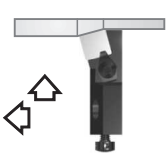
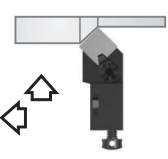
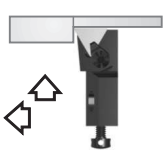
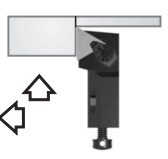
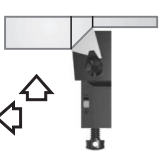
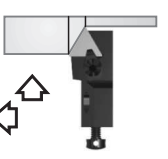
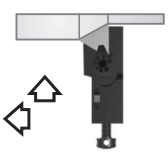
Parting and
grooving

Threading

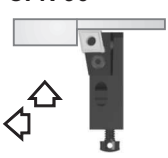
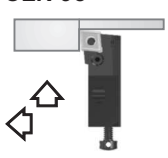
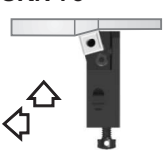
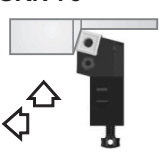
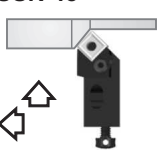
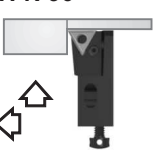
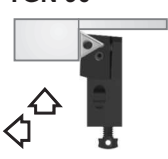
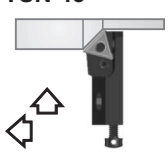
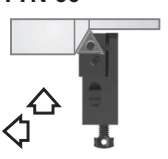
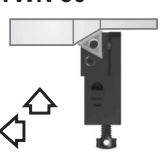
Drills

Cartridges

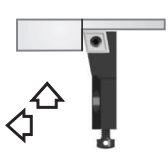
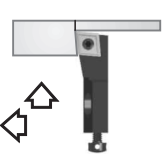
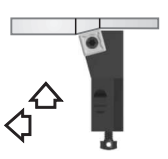
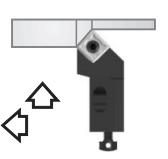
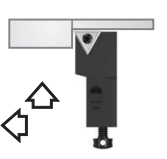
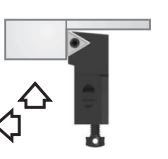
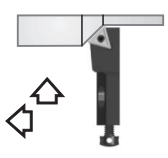
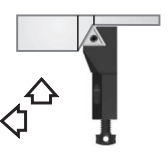
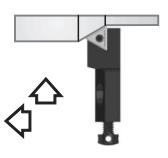
Top clamp cartridges

CSKP 75°  Page J.04 SP.. 0903.. SP.. 1203..	CSSP 45°  Page J.04 SP.. 0903.. SP.. 1203..	CTFP 90°  Page J.05 TP.. 1103.. TP.. 1603..	CTGP 90°  Page J.05 TP.. 1103.. TP.. 1603..	CTSP 45°  Page J.06 TP.. 1103.. TP.. 1603..	CTTP 60°  Page J.06 TP.. 1103.. TP.. 1603..
CTWP 30°  Page J.07 TP.. 1103.. TP.. 1603..					

Lever lock cartridges

PCFN 90°  Page J.08 CN.. 1204.. CN.. 1606..	PCLN 95°  Page J.08 CN.. 1204.. CN.. 1606..	PSKN 75°  Page J.09 SNM.. 1204.. SNM.. 1506..	PSRN 75°  Page J.09 SNM.. 1204..	PSSN 45°  Page J.10 SNM.. 1204..	PTFN 90°  Page J.10 TNM.. 1604.. TNM.. 2204..
PTGN 90°  Page J.11 TNM.. 1604.. TNM.. 2204..	PTSN 45°  Page J.11 TNM.. 1604.. TNM.. 2204..	PTTN 60°  Page J.12 TNM.. 1604.. TNM.. 2204..	PTWN 30°  Page J.12 TNM.. 1604.. TNM.. 2204..		

Center screw cartridges

SCFC 90°  Page J.13 CC.. 0602.. CC.. 09T3.. CC.. 1204..	SCLC 95°  Page J.13 CC.. 0602.. CC.. 09T3.. CC.. 1204..	SSKC 75°  Page J.14 SC.. 09T3.. SC.. 1204..	SSSC 45°  Page J.14 SC.. 09T3.. SC.. 1204..	STFC 90°  Page J.15 TC.. 0902.. TC.. 1102.. TC.. 16T3..	STGC 90°  Page J.15 TC.. 1102.. TC.. 16T3..
STSC 45°  Page J.16 TC.. 0902.. TC.. 1102.. TC.. 16T3..	STTC 60°  Page J.16 TC.. 0902.. TC.. 1102.. TC.. 16T3..	STWC 30°  Page J.17 TC.. 1102.. TC.. 16T3..			

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

Ceramic tools

Parting and
grooving

Threading

Drills

Cartridges



Characteristics: Cartridge equipped with square positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PSKN (Page: J.09).

Axial: 5.75°
Radial: 1.50°

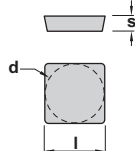


CSKP 75°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
CSKP R/L 10CA-09		40	15	10	50	30	14	11	SP..0903..	0,035
CSKP R/L 12CA-12		50	20	12	55	35	20	16	SP..1203..	0,075
CSKP R/L 16CA-12		55	25	16	63	38	25	20	SP..1203..	0,125

											
Ref.		2304	5025	-	-	1405	1504	5002	2806	1816	5004
	CSKP R/L 10CA-09	2305	5003	-	-	1405	1505	5025	2806	1806	5004
	CSKP R/L 12CA-12	2305	5003	3112	4002	1406	1505	5025	2808	1808	5005
	CSKP R/L 16CA-12										

Ref.	SP..	l	s	d	SPMR-33	SPUN
SP.. 0903..		9,52	3,18	9,52		
SP.. 1203..		12,70	3,18	12,70		
For more information see page: A.28					Positive 11° clearance - Square inserts	



Characteristics: Cartridge equipped with square positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PSSN (Page: J.10).

Axial: 5°
Radial: 0°

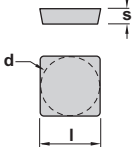


CSSP 45°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
CSSP R/L 10CA-09		40	15	10	44	24	14	11	SP..0903..	0,035
CSSP R/L 12CA-12		50	20	12	47	27	20	16	SP..1203..	0,065
CSSP R/L 16CA-12		55	25	16	53	28	25	20	SP..1203..	0,090

											
Ref.		2304	5025	-	-	1405	1504	5002	2806	1816	5004
	CSSP R/L 10CA-09	2305	5003	-	-	1405	1505	5025	2806	1806	5004
	CSSP R/L 12CA-12	2305	5003	3112	4002	1406	1505	5025	2808	1808	5005
	CSSP R/L 16CA-12										

Ref.	SP..	l	s	d	SPMR-33	SPUN
SP.. 0903..		9,52	3,18	9,52		
SP.. 1203..		12,70	3,18	12,70		
For more information see page: A.28					Positive 11° clearance - Square inserts	

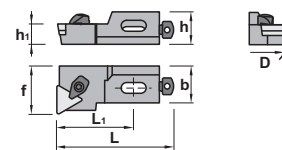
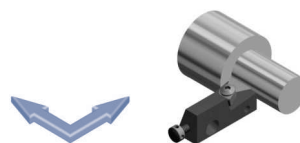




Characteristics: Cartridge equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PTFN (Page: J.10).

Axial: 6°
Radial: 0°



CTFP 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
CTFP R/L 10CA-11		40	15	10	50	30	14	11	TP..1103..	0,035
CTFP R/L 12CA-16		50	20	12	55	35	20	16	TP..1603..	0,080
CTFP R/L 16CA-16		55	25	16	63	38	25	20	TP..1603..	0,120

											
Ref.		2304	5025	-	-	1405	1504	5002	2806	1816	5004
	CTFP R/L 10CA-11	2305	5003	-	-	1405	1505	5025	2806	1806	5004
	CTFP R/L 12CA-16	2305	5003	3116	4002	1406	1505	5025	2808	1808	5005
	CTFP R/L 16CA-16										

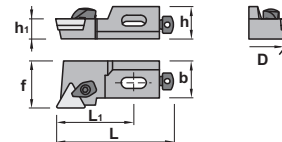
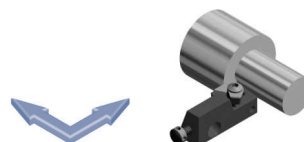
	TP..				TPMN	TPMR-33	TPUN	TPUX R/L	
	Ref.	TP.. 1103..	11,00	3,18	6,35				
		TP.. 1603..	16,50	3,18	9,52				
For more information see page: A.31					Positive 11° clearance - Triangular inserts.				



Characteristics: Cartridge equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PTGN (Page: J.11).

Axial: 0°
Radial: 4°



CTGP 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
CTGP R/L 10CA-11		40	15	10	50	30	14	11	TP..1103..	0,035
CTGP R/L 12CA-16		50	20	12	55	35	20	16	TP..1603..	0,070
CTGP R/L 16CA-16		60	25	16	63	38	25	20	TP..1603..	0,115

											
Ref.		2304	5025	-	-	1405	1504	5002	2806	1816	5004
	CTGP R/L 10CA-11	2305	5003	-	-	1405	1505	5025	2806	1806	5004
	CTGP R/L 12CA-16	2305	5003	3116	4002	1406	1505	5025	2808	1808	5005
	CTGP R/L 16CA-16										

	TP..				TPMN	TPMR-33	TPUN	TPUX R/L	
	Ref.	TP.. 1103..	11,00	3,18	6,35				
		TP.. 1603..	16,50	3,18	9,52				
For more information see page: A.31					Positive 11° clearance - Triangular inserts.				

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

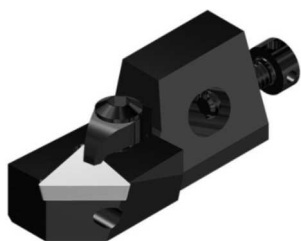
Ceramic tools

Parting and
grooving

Threading

Drills

Cartridges



Characteristics: Cartridge equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PTSN (Page: J.11).

Axial: 3.50°
Radial: 3.50°



CTSP 45°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
CTSP R/L 10CA-11		40	15	10	44	24	14	11	TP..1103..	0,035
CTSP R/L 12CA-16		50	20	12	47	27	20	16	TP..1603..	0,075
CTSP R/L 16CA-16		55	25	16	53	28	25	20	TP..1603..	0,140

Ref.	CTSP R/L 10CA-11	CTSP R/L 12CA-16	CTSP R/L 16CA-16
	2304	2305	2305
	5025	5003	5003
	-	-	3116
	-	-	4002
	1405	1405	1406
	1504	1505	1505
	5002	5025	5025
	2806	2806	2808
	1816	1806	1808
	5004	5004	5005

TP..	l	s	d	TPMN	TPMR-33	TPUN	TPUX R/L
Ref. TP.. 1103..	11,00	3,18	6,35				
TP.. 1603..	16,50	3,18	9,52				

For more information see page: A.31

Positive 11° clearance - Triangular inserts.



Characteristics: Cartridge equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PTTN (Page: J.12).

Axial: 2.5°
Radial: 4.3°



CTTTP 60°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
CTTTP R/L 10CA-11		40	15	10	50	30	9	11	TP..1103..	0,040
CTTTP R/L 12CA-16		50	20	12	55	35	13	16	TP..1603..	0,075
CTTTP R/L 16CA-16		55	25	16	63	38	15	20	TP..1603..	0,115

Ref.	CTTTP R/L 10CA-11	CTTTP R/L 12CA-16	CTTTP R/L 16CA-16
	2304	2305	2305
	5025	5003	5003
	-	-	3116
	-	-	4002
	1405	1405	1406
	1504	1505	1505
	5002	5025	5025
	2806	2806	2808
	1816	1806	1808
	5004	5004	5005

TP..	l	s	d	TPMN	TPMR-33	TPUN	TPUX R/L
Ref. TP.. 1103..	11,00	3,18	6,35				
TP.. 1603..	16,50	3,18	9,52				

For more information see page: A.31

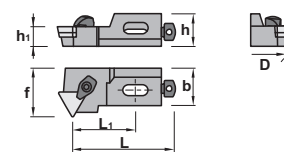
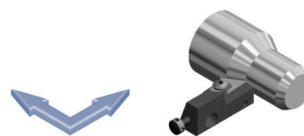
Positive 11° clearance - Triangular inserts.



Characteristics: Cartridge equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

For interrupted cut choose cartridge Ref. PTWN (Page: J.12).

Axial: 5.25°
Radial: 3°



CTWP 30°

		D	h	h1	L	L1	f	b	Insert size	Kg
Ref.	CTWP R/L 10CA-11	40	15	10	44	24	14	11	TP..1103..	0,035
	CTWP R/L 12CA-16	50	20	12	47	27	20	16	TP..1603..	0,065
	CTWP R/L 16CA-16	55	25	16	53	28	25	20	TP..1603..	0,105

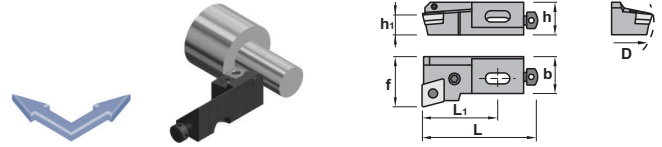
											
Ref.		2304	5025	-	-	1405	1504	5002	2806	1816	5004
	CTWP R/L 10CA-11	2305	5003	-	-	1405	1505	5025	2806	1806	5004
	CTWP R/L 12CA-16	2305	5003	3116	4002	1406	1505	5025	2808	1808	5005
	CTWP R/L 16CA-16										

	TP..				TPMN	TPMR-33	TPUN	TPUX R/L	
	Ref.	TP.. 1103..	11,00	3,18	6,35				
		TP.. 1603..	16,50	3,18	9,52				
For more information see page: A.31					Positive 11° clearance - Triangular inserts.				

Characteristics: Cartridge equipped with rhombic negative inserts (angle 80°) and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. SCFC (Page: J.13).

Axial: -6°
Radial: -8°



PCFN 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
PCFN R/L 16CA-12		60	25	16	63	38	25	20	CNM.. 1204..	0,140
PCFN R/L 20CA-12		70	30	20	70	40	25	20	CNM.. 1204..	0,170
PCFN R/L 25CA-16		100	35	25	100	50	32	25	CNM.. 1606..	0,380

Ref.		8312	1648	5003	3612	4112	1406	1505	0012	5025	2808	1808	5005
PCFN R/L 16CA-12		8312	1648	5003	3612	4112	1406	1505	0012	5025	2808	1808	5005
PCFN R/L 20CA-12		8012	1608	5003	3612	4112	1406	1506	0012	5003	2808	1808	5005
PCFN R/L 25CA-16		8016	1618	5003	3616	4115	1408	1508	0015	5004	2810	1810	5006

Ref.	CN..	l	s	d	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
CN.. 1204..		12,90	4,76	12,70				
CN.. 1606..		16,10	6,35	15,88				

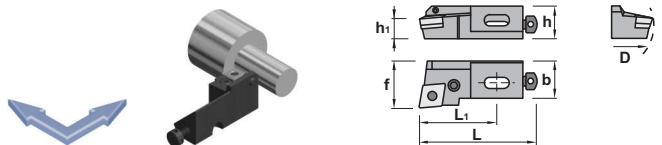
Negative 80° rhombic inserts For more information see page: A.18

More inserts: CNMG-CFM, CNMG-CFC, CNMG-CMC, CNMG-CMF, CNMG-CMR, CNMM.

Characteristics: Cartridge equipped with rhombic negative double sided insert (angle 80°) with strong cutting edge. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. SCLC (Page: J.13).

Axial: -6°
Radial: -6°



PCLN 95°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
PCLN R/L 16CA-12		60	25	16	63	38	25	20	CNM.. 1204..	0,135
PCLN R/L 20CA-12		70	30	20	70	40	25	20	CNM.. 1204..	0,160
PCLN R/L 25CA-16		100	35	25	100	50	32	25	CNM.. 1606..	0,375

Ref.		8312	1648	5003	3612	4112	1406	1505	0012	5025	2808	1808	5005
PCLN R/L 16CA-12		8312	1648	5003	3612	4112	1406	1505	0012	5025	2808	1808	5005
PCLN R/L 20CA-12		8012	1608	5003	3612	4112	1406	1506	0012	5003	2808	1808	5005
PCLN R/L 25CA-16		8016	1618	5003	3616	4115	1408	1508	0015	5004	2810	1810	5006

Ref.	CN..	l	s	d	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
CN.. 1204..		12,90	4,76	12,70				
CN.. 1606..		16,10	6,35	15,88				

Negative 80° rhombic inserts For more information see page: A.18

More inserts: CNMG-CFM, CNMG-CFC, CNMG-CMC, CNMG-CMF, CNMG-CMR, CNMM.



Characteristics: Cartridge equipped with square negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CSKP (Page: J.04) or SSKC (Page: J.14).

Axial: -4°
Radial: -4°



PSKN 75°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	Kg
PSKN R/L 12CA-12		50	20	12	55	35	20	16	SNM.. 1204..	0,080
PSKN R/L 16CA-12		60	25	16	63	38	25	20	SNM.. 1204..	0,135
PSKN R/L 20CA-12		70	30	20	70	40	25	20	SNM.. 1204..	0,180
PSKN R/L 25CA-15		100	35	25	100	50	32	25	SNM.. 1506..	0,400

													
Ref.	PSKN R/L 12CA-12	8212	1626	5025	-	-	1405	1505	-	5025	2806	1806	5004
	PSKN R/L 16CA-12	8312	1648	5003	3512	4112	1406	1505	0012	5025	2808	1808	5005
	PSKN R/L 20CA-12	8012	1608	5003	3512	4112	1406	1506	0012	5003	2808	1808	5005
	PSKN R/L 25CA-15	8016	1618	5003	3515	4115	1408	1508	0015	5004	2810	1810	5006

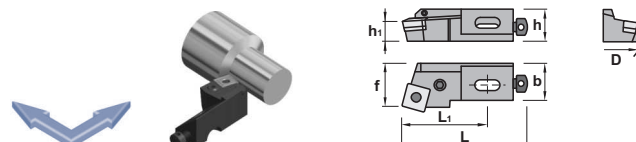
Ref.	SNM..	l	s	d	SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR
SNM.. 1204..	12,70	4,76	12,70					
SNM.. 1506..	15,88	6,35	15,88					

Negative square inserts For more information see page: A.27 Negative square insert



Characteristics: Cartridge for face turning applications equipped with square negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

Axial: -11.25°
Radial: -3.25°



PSRN 75°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	Kg
PSRN R/L 16CA-12		60	25	16	63	38	25	20	SNM.. 1204..	0,135
PSRN R/L 20CA-12		70	30	20	70	40	25	20	SNM.. 1204..	0,180

													
Ref.	PSRN R/L 16CA-12	8312	1648	5003	3512	4112	1406	1505	0012	5025	2808	1808	5005
	PSRN R/L 20CA-12	8012	1608	5003	3512	4112	1406	1506	0012	5003	2808	1808	5005

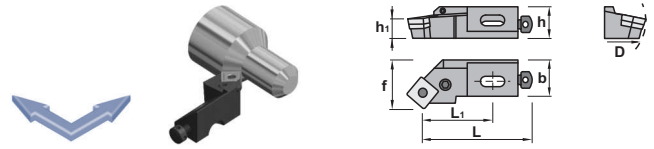
Ref.	SNM..	l	s	d	SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR
SNM.. 1204..	12,70	4,76	12,70					

Negative square inserts For more information see page: A.27 Negative square insert

Characteristics: Cartridge equipped with square negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CSSP (Page: J.04) or SSSC (Page: J.14).

Axial: -7°
Radial: -7°



PSSN 45°

Ref.		D	h	h1	L	L1	f	b	Insert size	Kg
PSSN R/L 12CA-12		50	20	12	47	27	20	16	SNM.. 1204..	0,070
PSSN R/L 16CA-12		60	25	16	53	28	25	20	SNM.. 1204..	0,110
PSSN R/L 20CA-12		70	30	20	60	30	25	20	SNM.. 1204..	0,140

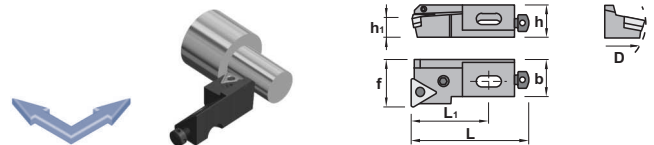
Ref.	PSSN R/L 12CA-12	PSSN R/L 16CA-12	PSSN R/L 20CA-12	8212	1626	5025	-	-	1405	1505	-	5025	2806	1806	5004
				8312	1648	5003	3512	4112	1406	1505	0012	5025	2808	1808	5005
				8012	1608	5003	3512	4112	1406	1506	0012	5003	2808	1808	5005

Ref.	SNM.. 1204..	l	s	d	SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR
	SNM.. 1204..	12,70	4,76	12,70				
Negative square inserts					For more information see page: A.27			
					Negative square insert			

Characteristics: Cartridge equipped with triangular negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CTFP (Page: J.05) or STFC (Page: J.15).

Axial: -6°
Radial: -8°



PTFN 90°

Ref.		D	h	h1	L	L1	f	b	Insert size	Kg
PTFN R/L 12CA-16		50	20	12	55	35	20	16	TNM.. 1604..	0,080
PTFN R/L 16CA-16		60	25	16	63	38	25	20	TNM.. 1604..	0,120
PTFN R/L 20CA-22		70	30	20	70	40	25	20	TNM.. 2204..	0,160
PTFN R/L 25CA-22		100	35	25	100	50	32	25	TNM.. 2204..	0,400

													
Ref.	PTFN R/L 12CA-16	8216	1605	5002	-	-	1405	1505	-	5025	2806	1806	5004
	PTFN R/L 16CA-16	8009	1606	5025	3416	4109	1406	1505	0009	5025	2808	1808	5005
	PTFN R/L 20CA-22	8012	1608	5003	3422	4112	1406	1506	0012	5003	2808	1808	5005
	PTFN R/L 25CA-22	8012	1608	5003	3422	4112	1408	1508	0012	5004	2810	1810	5006

Ref.	TNM.. 1604..	l	s	d	TNMG-CF	TNMG-CM	TNMG-CS
	TNM.. 2204..	22,00	4,76	12,70			
More inserts: TNMA, TNMG-CFC, TNMG-CFM, TNMG-CMC, TNMG-CMF, TNMG-CMR, TNMX							

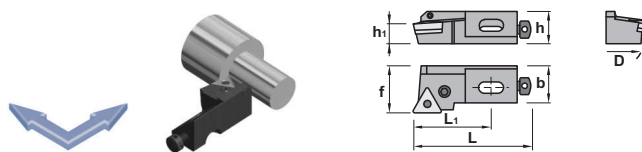
For more information see page: A.29



Characteristics: Cartridge equipped with triangular negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CTGP (Page: J.05) or STGC (Page: J.15).

Axial: -6°
Radial: -10°



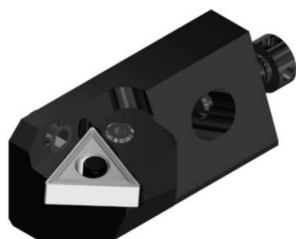
PTGN 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
PTGN R/L 12CA-16		50	20	12	55	35	20	16	TNM.. 1604..	0,080
PTGN R/L 16CA-16		60	25	16	63	38	25	20	TNM.. 1604..	0,120
PTGN R/L 20CA-22		70	30	20	70	40	25	20	TNM.. 2204..	0,160

Ref.	PTGN R/L 12CA-16	8216	1605	5002	-	-	1405	1505	-	5025	2806	1806	5004
PTGN R/L 16CA-16		8009	1606	5025	3416	4109	1406	1505	0009	5025	2808	1808	5005
PTGN R/L 20CA-22		8012	1608	5003	3422	4112	1406	1506	0012	5003	2808	1808	5005

	TNM..	l	s	d	TNMG-CF	TNMG-CM	TNMG-CS	
Ref.	TNM.. 1604..	16,50	4,76	9,52				
	TNM.. 2204..	22,00	4,76	12,70				
More inserts: TNMA, TNMG-CFC, TNMG-CFM, TNMG-CMC, TNMG-CMF, TNMG-CMR, TNMX								

For more information see page: A.29



Characteristics: Cartridge equipped with triangular negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CTSP (Page: J.06) or STSC (Page: J.16).

Axial: -7,75°
Radial: -7,75°



PTSN 45°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
PTSN R/L 12CA-16		50	20	12	47	27	20	16	TNM.. 1604..	0,070
PTSN R/L 16CA-16		60	25	16	53	28	25	20	TNM.. 1604..	0,130
PTSN R/L 20CA-22		70	30	20	60	30	25	20	TNM.. 2204..	0,165
PTSN R/L 25CA-22		100	35	25	67	37	32	25	TNM.. 2204..	0,330

Ref.	PTSN R/L 12CA-16	8216	1605	5002	-	-	1405	1505	-	5025	2806	1806	5004
PTSN R/L 16CA-16		8009	1606	5025	3416	4109	1406	1505	0009	5025	2808	1808	5005
PTSN R/L 20CA-22		8012	1608	5003	3422	4112	1406	1506	0012	5003	2808	1808	5005
PTSN R/L 25CA-22		8012	1608	5003	3422	4112	1408	1508	0012	5004	2810	1810	5006

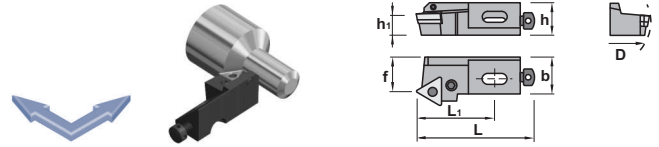
	TNM..	l	s	d	TNMG-CF	TNMG-CM	TNMG-CS	
Ref.	TNM.. 1604..	16,50	4,76	9,52				
	TNM.. 2204..	22,00	4,76	12,70				
More inserts: TNMA, TNMG-CFC, TNMG-CFM, TNMG-CMC, TNMG-CMF, TNMG-CMR, TNMX								

For more information see page: A.29

Characteristics: Cartridge equipped with triangular negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CTPP (Page: J.06) or STTC (Page: J.16).

Axial: -6°
Radial: -10°



PTTN 60°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
PTTN R/L 12CA-16		50	20	12	55	35	13	16	TNM.. 1604..	0,135
PTTN R/L 16CA-16		60	25	16	63	38	15	20	TNM.. 1604..	0,120
PTTN R/L 20CA-22		70	30	20	70	40	15	20	TNM.. 2204..	0,160

Ref.	PTTN R/L 12CA-16	PTTN R/L 16CA-16	PTTN R/L 20CA-22	8216	1605	5002	-	-	1405	1505	-	5025	2806	1806	5004
				8009	1606	5025	3416	4109	1406	1505	0009	5025	2808	1808	5005
				8012	1608	5003	3422	4112	1406	1506	0012	5003	2808	1808	5005

Ref.	TNM..	l	s	d	TNMG-CF	TNMG-CM	TNMG-CS
TNM.. 1604..	16,50	4,76	9,52				
TNM.. 2204..	22,00	4,76	12,70				

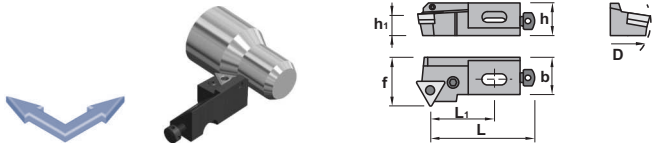
For more information see page: A.29

More inserts: TNMA, TNMG-CFC, TNMG-CFM, TNMG-CMC, TNMG-CMF, TNMG-CMR, TNMX

Characteristics: Cartridge equipped with triangular negative inserts and strong cutting edges. The lever lock ensures good rigidity and chip flow in roughing applications.

For low powered machines and small pieces choose cartridge Ref. CTWP (Page: J.07) or STWC (Page: J.17).

Axial: -2.25°
Radial: -8.50°



PTWN 30°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
PTWN R/L 12CA-16		50	20	12	47	27	20	16	TNM.. 1604..	0,080
PTWN R/L 16CA-16		60	25	16	53	28	25	20	TNM.. 1604..	0,130
PTWN R/L 20CA-22		70	30	20	60	30	25	20	TNM.. 2204..	0,165

Ref.	PTWN R/L 12CA-16	PTWN R/L 16CA-16	PTWN R/L 20CA-22	8216	1605	5002	-	-	1405	1505	-	5025	2806	1806	5004
				8009	1606	5025	3416	4109	1406	1505	0009	5025	2808	1808	5005
				8012	1608	5003	3422	4112	1406	1506	0012	5003	2808	1808	5005

Ref.	TNM..	l	s	d	TNMG-CF	TNMG-CM	TNMG-CS
TNM.. 1604..	16,50	4,76	9,52				
TNM.. 2204..	22,00	4,76	12,70				

For more information see page: A.29

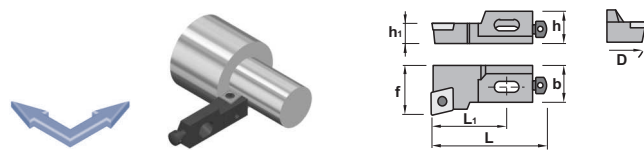
More inserts: TNMA, TNMG-CFC, TNMG-CFM, TNMG-CMC, TNMG-CMF, TNMG-CMR, TNMX



Characteristics: Cartridge equipped with rhombic positive insert (angle 80°).
The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PCFN (Page: J.08).

Axial: 0°
Radial: 0°



SCFC 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	Kg
SCFC R/L 06CA-06		20	8	6	25	13,5	10	5	CCM.. 0602..	0,005
SCFC R/L 08CA-06		25	11	8	27	15	10	7,5	CCM.. 0602..	0,010
SCFC R/L 10CA-09		30	14	10	42	24	14	10	CCM.. 09T3..	0,030
SCFC R/L 12CA-12		40	16	12	47	35	20	14	CCM.. 1204..	0,060

Ref.									
SCFC R/L 06CA-06		1425	5507	1403	1503	5015	2803	1803	5002
SCFC R/L 08CA-06		1425	5507	1403	1503	5015	2804	1804	5025
SCFC R/L 10CA-09		1440	5515	1405	1504	5002	2806	1806	5004
SCFC R/L 12CA-12		1250	5520	1405	1505	5025	2806	1806	5004

Ref.	CC..	l	s	d	CCGT-AL	CCGT-AP	CCMT-03	CCMW
CC.. 0602..		6,45	2,38	6,35				
CC.. 09T3..		9,65	3,97	9,52				
CC.. 1204..		12,90	4,76	12,70				

For more information see page: A.18

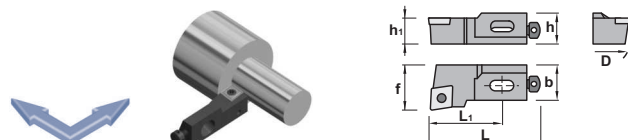
Positive 7° clearance - 80° Rhombic inserts



Characteristics: Cartridge equipped with rhombic positive insert (angle 80°).
The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PCLN (Page: J.08).

Axial: 0°
Radial: 0°



SCLC 95°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	Kg
SCLC R/L 06CA-06		20	8	6	25	13,5	10	5	CCM.. 0602..	0,005
SCLC R/L 08CA-06		25	11	8	27	15	12	7,5	CCM.. 0602..	0,010
SCLC R/L 10CA-09		30	14	10	42	24	14	10	CCM.. 09T3..	0,030
SCLC R/L 12CA-12		40	16	12	47	35	20	14	CCM.. 1204..	0,060

Ref.									
SCLC R/L 06CA-06		1425	5507	1403	1503	5015	2803	1803	5002
SCLC R/L 08CA-06		1425	5507	1403	1503	5015	2804	1804	5025
SCLC R/L 10CA-09		1440	5515	1405	1504	5002	2806	1806	5004
SCLC R/L 12CA-12		1250	5520	1405	1505	5025	2806	1806	5004

Ref.	CC..	l	s	d	CCGT-AL	CCGT-AP	CCMT-03	CCMW
CC.. 0602..		6,45	2,38	6,35				
CC.. 09T3..		9,65	3,97	9,52				
CC.. 1204..		12,90	4,76	12,70				

For more information see page: A.18

Positive 7° clearance - 80° Rhombic inserts

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

Ceramic tools

Parting and
grooving

Threading

Drills

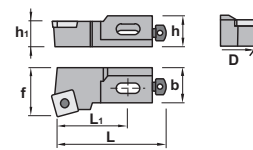
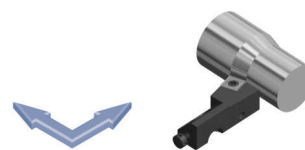
Cartridges



Characteristics: Cartridge equipped with square positive inserts.
The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PSKN (Page: J.09).

Axial: -1°
Radial: -3.75°



SSKC 75°

Ref.		D	h	h1	L	L1	f	b	Insert size	kg
	SSKC R/L 10CA-09	30	14	10	50	30	14	10,0	SC.. 09T3..	0,030
	SSKC R/L 12CA-12	40	16	12	55	35	20	14,0	SC.. 1204..	0,065
	SSKC R/L 16CA-12	50	20	16	63	38	25	17,5	SC.. 1204..	0,115

Ref.									
	SSKC R/L 10CA-09	1440	5515	1405	1504	5002	2806	1816	5004
	SSKC R/L 12CA-12	1250	5520	1405	1505	5025	2806	1806	5004
	SSKC R/L 16CA-12	1250	5520	1406	1505	5025	2808	1808	5005

Ref.	SC..	l	s	d	SCGT-AL	SCMT-03	SCMT-39	SCMW
	SC.. 09T3..	9,52	3,97	9,52				
	SC.. 1204..	12,70	4,76	12,70				

For more information see page: A.26

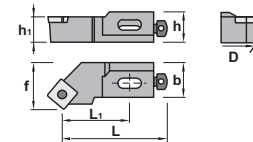
Positive 7° clearance - Square inserts.



Characteristics: Cartridge equipped with square positive inserts.
The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PSSN (Page: J.10).

Axial: -3.5°
Radial: -3.5°



SSSC 45°

Ref.		D	h	h1	L	L1	f	b	Insert size	kg
	SSSC R/L 10CA-09	30	14	10	44	24	14	10,0	SC.. 09T3..	0,030
	SSSC R/L 12CA-12	40	16	12	47	27	20	14,0	SC.. 1204..	0,055
	SSSC R/L 16CA-12	50	20	16	53	28	25	17,5	SC.. 1204..	0,090

Ref.									
	SSSC R/L 10CA-09	1240	5515	1405	1504	5002	2806	1816	5004
	SSSC R/L 12CA-12	1250	5520	1405	1505	5025	2806	1806	5004
	SSSC R/L 16CA-12	1250	5520	1406	1505	5025	2808	1808	5005

Ref.	SC..	l	s	d	SCGT-AL	SCMT-03	SCMT-39	SCMW
	SC.. 09T3..	9,52	3,97	9,52				
	SC.. 1204..	12,70	4,76	12,70				

For more information see page: A.26

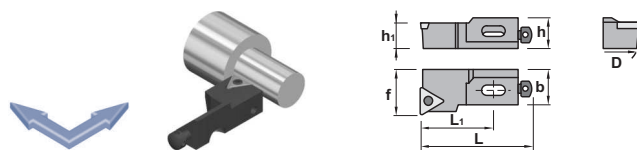
Positive 7° clearance - Square inserts.



Characteristics: Cartridge for face turning applications equipped with triangular positive inserts. The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PTFN (Page: J.10).

Axial: 0°
Radial: -3°



STFC 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	Kg
STFC R/L 08CA-09		25	11	8	32	15	10	7,5	TC.. 0902..	0,010
STFC R/L 08CA-11		25	11	8	32	15	11	7,5	TC.. 1102..	0,010
STFC R/L 10CA-11		30	14	10	50	30	14	10,0	TC.. 1102..	0,035
STFC R/L 12CA-16		40	16	12	55	35	20	14,0	TC.. 16T3..	0,065
STFC R/L 16CA-16		50	20	16	63	38	25	17,5	TC.. 16T3..	0,125

Ref.									
STFC R/L 08CA-09		1222	5506	1403	1503	5015	2804	1804	5025
STFC R/L 08CA-11		1225	5507	1403	1503	5015	2804	1804	5025
STFC R/L 10CA-11		1225	5507	1405	1504	5002	2806	1816	5004
STFC R/L 12CA-16		1240	5515	1405	1505	5025	2806	1806	5004
STFC R/L 16CA-16		1240	5515	1406	1505	5025	2808	1808	5005

TC..	l	s	d	TCGT-AL	TCMT-03	TCMW
Ref. TC.. 0902..	9,62	2,38	5,55			
TC.. 1102..	11,00	2,38	6,35			
TC.. 16T3..	16,50	3,97	9,52			

For more information see page: A.28

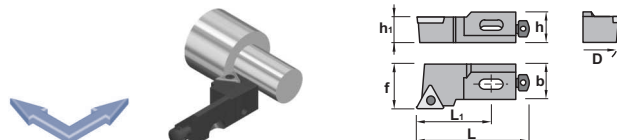
Positive 7° clearance - Triangular inserts.



Characteristics: Cartridge for face turning applications equipped with triangular positive inserts. The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PTGN (Page: J.11).

Axial: 0°
Radial: -3°



STGC 90°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	Kg
STGC R/L 10CA-11		30	14	10	50	30	14	10,0	TC.. 1102..	0,035
STGC R/L 12CA-16		40	16	12	55	35	20	14,0	TC.. 16T3..	0,065
STGC R/L 16CA-16		50	20	16	63	38	25	17,5	TC.. 16T3..	0,125

Ref.									
STGC R/L 10CA-11		1225	5507	1405	1504	5002	2806	1816	5004
STGC R/L 12CA-16		1240	5515	1405	1505	5025	2806	1806	5004
STGC R/L 16CA-16		1240	5515	1406	1505	5025	2808	1808	5005

TC..	l	s	d	TCGT-AL	TCMT-03	TCMW
Ref. TC.. 1102..	11,00	2,38	6,35			
TC.. 16T3..	16,50	3,97	9,52			

For more information see page: A.28

Positive 7° clearance - Triangular inserts.

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

Ceramic tools

Parting and
grooving

Threading

Drills

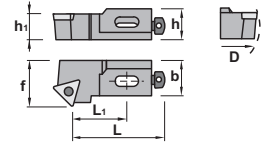
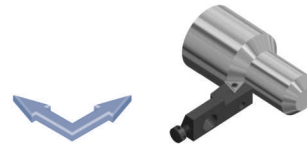
Cartridges



Characteristics: Cartridge for face turning applications equipped with triangular positive inserts. The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PTSN (Page: J.11).

Axial: -3.5°
Radial: -3.5°



STSC 45°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
STSC R/L 08CA-09		25	8	8	27	16	10	7,0	TC.. 0902..	0,005
STSC R/L 08CA-11		25	11	8	27	10	11	7,5	TC.. 1102..	0,005
STSC R/L 10CA-11		30	14	10	44	24	14	10,0	TC.. 1102..	0,035
STSC R/L 12CA-16		40	16	12	47	27	20	14,0	TC.. 16T3..	0,065
STSC R/L 16CA-16		50	20	16	53	28	25	17,5	TC.. 16T3..	0,110

Ref.									
STSC R/L 08CA-09		1222	5506	1403	1503	5015	2804	1804	5025
STSC R/L 08CA-11		1225	5507	1403	1503	5015	2804	1804	5025
STSC R/L 10CA-11		1225	5507	1405	1504	5002	2806	1816	5004
STSC R/L 12CA-16		1240	5515	1405	1505	5025	2806	1806	5004
STSC R/L 16CA-16		1240	5515	1406	1505	5025	2808	1808	5005

TC..	l	s	d	TCGT-AL	TCMT-03	TCMW
Ref. TC.. 0902..	9,62	2,38	5,55			
TC.. 1102..	11,00	2,38	6,35			
TC.. 16T3..	16,50	3,97	9,52			

For more information see page: A.28

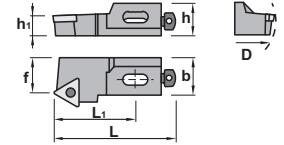
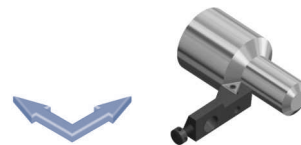
Positive 7° clearance - Triangular inserts.



Characteristics: Cartridge for face turning applications equipped with triangular positive inserts. The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PTTN (Page: J.12).

Axial: -1.5°
Radial: -2.5°



STTC 60°

Ref.		D	h	h ₁	L	L ₁	f	b	Insert size	kg
STTC R/L 08CA-09		25	8	8	27	15	6	7,0	TC.. 0902..	0,010
STTC R/L 08CA-11		25	8	8	27	15	6	7,0	TC.. 1102..	0,010
STTC R/L 10CA-11		30	14	10	50	30	14	10,0	TC.. 1102..	0,035
STTC R/L 12CA-16		40	16	12	55	35	13	14,0	TC.. 16T3..	0,065
STTC R/L 16CA-16		50	20	16	63	38	15	17,5	TC.. 16T3..	0,105

Ref.									
STTC R/L 08CA-09		1222	5506	1403	1503	5015	2804	1804	5025
STTC R/L 08CA-11		1225	5507	1403	1503	5015	2804	1804	5025
STTC R/L 10CA-11		1225	5507	1405	1504	5002	2806	1816	5004
STTC R/L 12CA-16		1240	5515	1405	1505	5025	2806	1806	5004
STTC R/L 16CA-16		1240	5515	1406	1505	5025	2808	1808	5005

TC..	l	s	d	TCGT-AL	TCMT-03	TCMW
Ref. TC.. 0902..	9,62	2,38	5,55			
TC.. 1102..	11,00	2,38	6,35			
TC.. 16T3..	16,50	3,97	9,52			

For more information see page: A.28

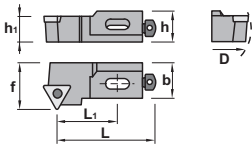
Positive 7° clearance - Triangular inserts.



Characteristics: Cartridge for face turning applications equipped with triangular positive inserts. The center screw ensures good rigidity and chip flow.

Negative inserts cartridge Ref. PTWN (Page: J.12).

Axial: -1.5°
Radial: -2.5°



STWC 30°										
		D	h	h1	L	L1	f	b	Insert size	kg
Ref.	STWC R/L 08CA-11	25	11	8	27	10	10	7,5	TC.. 1102..	0,005
	STWC R/L 10CA-11	30	14	10	44	24	14	10,0	TC.. 1102..	0,035
	STWC R/L 12CA-16	40	16	12	47	27	20	14,0	TC.. 16T3..	0,065
	STWC R/L 16CA-16	50	20	16	53	28	25	17,5	TC.. 16T3..	0,110

									
Ref.	STWC R/L 08CA-11	1225	5507	1403	1503	5015	2804	1804	5025
	STWC R/L 10CA-11	1225	5507	1405	1504	5002	2806	1816	5004
	STWC R/L 12CA-16	1240	5515	1405	1505	5025	2806	1806	5004
	STWC R/L 16CA-16	1240	5515	1406	1505	5025	2808	1808	5005

	TC..				TCGT-AL	TCMT-03	TCMW	
	Ref.	TC.. 1102..	11,00	2,38	6,35			
		TC.. 16T3..	16,50	3,97	9,52			
For more information see page: A.28					Positive 7° clearance - Triangular inserts.			

Inserts

General turning

Aluminium
wheel turning

Automatic lathes

Ceramic tools

Parting and
grooving

Threading

Drills

Cartridges



