

CANELLA

PSC



CANELA



Badalona Headquarters



Arenys de Munt Plant





Arenys de Mar Plant



Oliveira de Azeméis Plant



Pinheiro Plant

MANUFACTURED FROM FORGED PARTS

Material:

- Alloyed carburized steel at chrome-manganese 1.7131 (16MnCr5).

Execution:

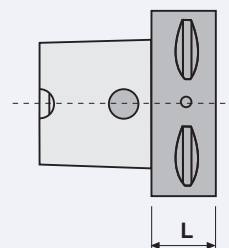
- Carburized, hardness.
- Surface hardness HRC 58±2 (670±40 HV30)
- Depth minimum 0,5 mm.
- Tensile strength in core minimum 800 N/mm² after carburizing.

Accuracy:

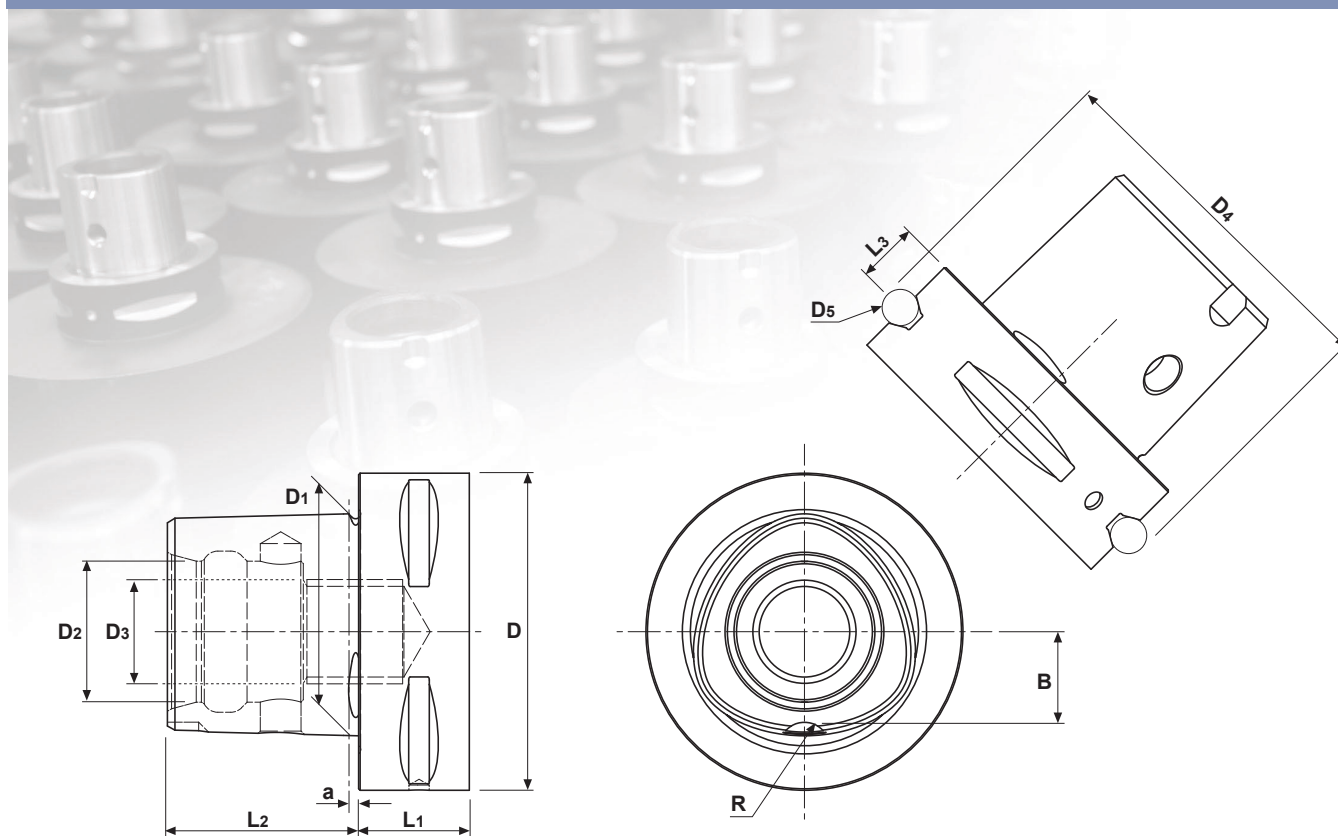
- Taper according to DIN 254
- Taper angle: tolerance AT 3 DIN 7178 part 1 and DIN 2080 part 1.
- Other tolerances according to DIN 7160 and 7168.
- Taper surface roughness RZ<0,001 mm.

Tolerance:

- Indicates the tolerance of size D surface between the real and the theoretical value of the taper conicity.
- This value of surface D must always be less (negative), never more (positive) in order to GUARANTEE a good toolholder fixation at the bigger taper diameter.



Continuing demand for higher productivity, better machining quality and lower tool cost is a challenge which we take seriously. We have developed a full range of ISO 26623-1 PSC quick change cutting tools to fulfill all machining needs.



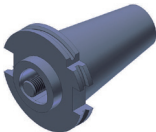
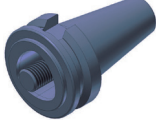
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32	32	22	15	M12 x 1,5	39,0	5	15	19	6	2,5	9,0	3
40	40	28	18	M14 x 1,5	46,0	5	20	24	8	2,5	11,0	3
50	50	35	21	M16 x 1,5	59,3	7	20	30	10	3,0	14,0	4
63	63	44	28	M20 x 2,0	70,7	7	22	38	12	3,0	18,0	5
80	80	55	32	M20 x 2,0	86,0	7	30	48	12	3,0	22,2	6
100	100	72	43	M24 x 2,0	110,0	10	32	60	16	3,0	29,2	6

PSC

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Arbors and adaptors

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23.218  Page 37						

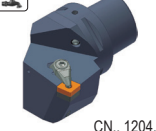
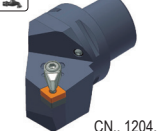
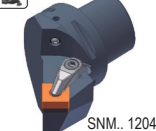
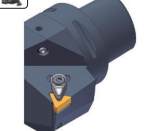
CAP

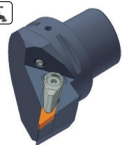
MC  Page 35 Manual CAP	AC  Page 35 Automatic CAP	
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Drills

45..  Page 42 SPMT 0603.. ... SPMT 1204..		
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Toolholders (Dimple clamp D)

DCKN 75°  Page 46 CN.. 1204.. CN.. 1606.. CN.. 1906..	DCLN 95°  Page 47 CN.. 0903.. .. CN.. 1906..	DCRN 75°  Page 48 CN.. 1204.. CN.. 1606.. CN.. 1906..	DDHN 107° 30'  Page 49 DN.. 1506..	DDJN 93°  Page 50 DN.. 1104.. DN.. 1506..	DDNN 63°  Page 51 DN.. 1104.. DN.. 1506..	DDUN 93°  Page 52 DN.. 1506..
DRSN  Page 53 RNMG 1204..	DSDN 45°  Page 54 SNM.. 1204.. SNM.. 1506.. SNM.. 1906..	DSKN 75°  Page 55 SNM.. 1204.. SNM.. 1506.. SNM.. 1906..	DSRN 75°  Page 56 SNM.. 1204.. SNM.. 1506.. SNM.. 1906..	DSSN 45°  Page 57 SNM.. 1204.. SNM.. 1506.. SNM.. 1906..	DTFN 90°  Page 58 TNM.. 1604.. TNM.. 2204..	DTGN 90°  Page 59 TNM.. 1604.. TNM.. 2204..

DVJN 93°

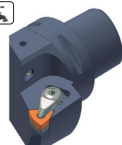
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VN.. 1604..

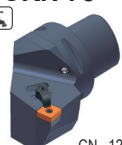
DVVN 72° 30'

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VN.. 1604..

DWLN 95°

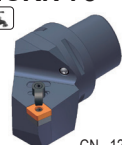
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WNMG 0604..
WNMG 0804..**Toolholders (Wedge clamp / Double lock M)****MCKN 75°**

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CN.. 1204..
CN.. 1606..
CN.. 1906..**MCLN 95°**

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CN.. 1204..
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CN.. 1906..**MCRN 75°**

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CN.. 1204..
CN.. 1606..
CN.. 1906..**MDJN 93°**

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DN.. 1104..
DN.. 1506..**MDNN 63°**

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DN.. 1104..
DN.. 1506..**MDUN 93°**

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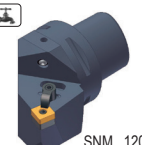
DN.. 1506..

MSDN 45°

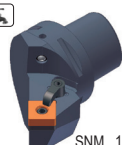
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SNM.. 1204..
SNM.. 1506..
SNM.. 1906..**MSKN 75°**

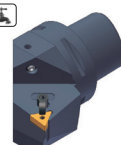
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SNM.. 1204..
SNM.. 1506..
SNM.. 1906..**MSRN 75°**

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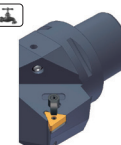
SNM.. 1204..
SNM.. 1506..
SNM.. 1906..**MSSN 45°**

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SNM.. 1204..
SNM.. 1506..
SNM.. 1906..**MTFN 90°**

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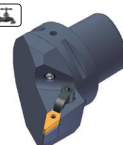
TNM.. 1604..

MTGN 90°

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TNM.. 1604..
TNM.. 2204..**MTJN 93°**

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TNM.. 1604..
TNM.. 2204..**MVJN 93°**

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VN.. 1604..

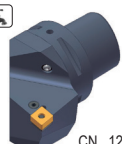
MVVN 72° 30'

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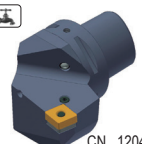
VN.. 1604..

MWLN 95°

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WNMG 0604..
WNMG 0804..**Toolholders (Lever lock P)****PCLN 95°**

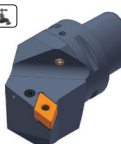
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CN.. 1204..
.. CN.. 2509..**PCRN 75°**

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CN.. 1204..
.. CN.. 1906..**PDJN 93°**

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DN.. 1504..
DN.. 1506..**PDUN 93°**

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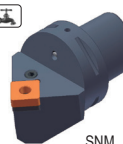
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PRDC

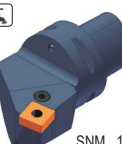
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RC.. 2507M0
RC.. 3209M0**PRSC**

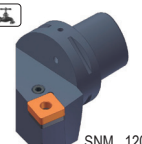
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RC.. 2006M0
RC.. 2507M0
RC.. 3209M0**PSDN 45°**

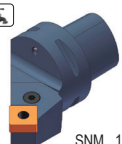
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SNM.. 1204..
.. SNM.. 2507..**PSKN 75°**

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SNM.. 1204..
.. SNM.. 2507..**PSRN 75°**

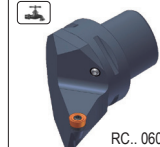
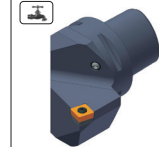
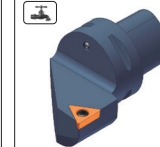
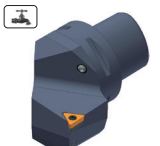
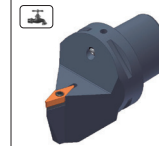
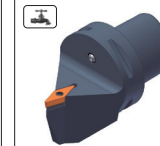
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SNM.. 1204..
.. SNM.. 2507..**PSSN 45°**

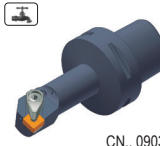
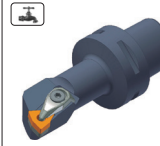
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SNM.. 1204..
.. SNM.. 2507..

Toolholders (Center screw S)

SCLC 95°  CC.. 09T3.. CC.. 1204.. Page 89	SDJC 93°  DC.. 0702.. DC.. 11T3.. Page 90	SDNC 62° 30'  DC.. 11T3.. Page 91	SRDC  RC.. 0602M0 RC.. 2006M0 Page 92	SRSC 45°  RC.. 0602M0 RC.. 2006M0 Page 93	SSRC 75°  SC.. 1204.. Page 94	STGC 90°  TC.. 1102.. TC.. 16T3.. Page A95
STJC 93°  TC.. 1102.. TC.. 16T3.. Page 96	SVHB 107° 30'  VBMT 1604.. Page 97	SVHC 107° 30'  VC.. 1103.. VC.. 1604.. Page 98	SVJB 93°  VBMT 1604.. Page 99	SVJC 93°  VC.. 1103.. VC.. 1604.. Page 100	SVVB 72° 30'  VBMT 1604.. Page 101	SVVC 72° 30'  VC.. 1103.. VC.. 1604.. Page 102

Boring bars (Dimple clamp D)

DCLN 95°  CN.. 0903.. CN.. 1606.. Page 104	DDUN 93°  DN.. 1104.. DN.. 1506.. Page 105	DWLN 95°  WNMG 0604.. WNMG 0804.. Page 106				
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Boring bars (Wedge clamp / Double lock M)

MTFN 90°  TNM.. 1604.. Page 107	MVUN 93°  VN.. 1604.. Page 108	MWLN 95°  WNMG 0604.. WNMG 0804.. Page 109				
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Boring bars (Lever lock P)

PCLN 95°  CN.. 0903.. CN.. 1204.. CN.. 1606.. Page 110	PDUN 93°  DN.. 1104.. DN.. 1506.. Page 111	PSKN 75°  SNM.. 1204.. Page 112				
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Boring bars (Center screw S)

SCLC 95°  CC.. 09T3.. CC.. 1204.. Page 113	SDUC 93°  DC.. 0702.. DC.. 11T3.. Page 114	SDUC-X 93°  DC.. 0702.. Page 115	SSKC 75°  SC.. 09T3.. Page 116	STFC 90°  TC.. 1102.. TC.. 16T3.. Page 117	SVQB 107° 30'  VBMT 1604.. Page 118	SVQC 107° 30'  VC.. 1103.. VC.. 1604.. Page 119
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Threading

SE 90°

Page 121 16 ER/L
22 ER/L

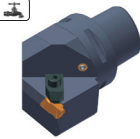
SI 90°

Page 122 16 NR/L
22 NR/L

Parting and grooving

CZCD

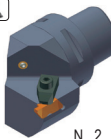
Page 124 WDM.. 2
WDM.. 6

NE 93°

Page 125 N.. 3

NR 45°

Page 126 N.. 3

NS 93°

Page 127 N.. 2
N.. 4

NNTD 93°

Page 128 N.. 2
N.. 4

Ceramic tools

CCKN 75°

Page 130 CNG.. 1204..
CNG.. 1907..

CCLN 95°

Page 131 CNG.. 1204..
CNG.. 1907..

CCRN 75°

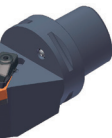
Page 132 CNG.. 1204..
CNG.. 1907..

CDHN 107° 30'

Page 133 DNG.. 1507..

CDJN 93°

Page 134 DNG.. 1507..

CDNN 63°

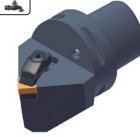
Page 135 DNG.. 1507..

CDUN 93°

Page 136 DNG.. 1507..

CRSN

Page 137 RNGN 1204..
RNGN 1207..

CSDN 45°

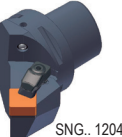
Page 138 SNG.. 1204..
SNG.. 1207..

CSKN 75°

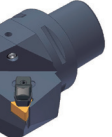
Page 139 SNG.. 1204..
SNG.. 1207..

CSRN 75°

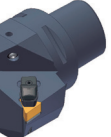
Page 140 SNG.. 1204..
SNG.. 1907..

CSSN 45°

Page 141 SNG.. 1204..
SNG.. 1907..

CTFN 90°

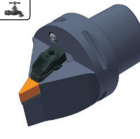
Page 142 TNGN 1604..
TNGN 1607..

CTGN 90°

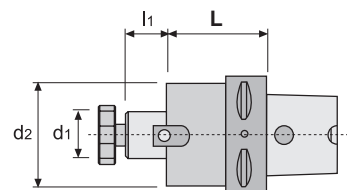
Page A143 TNGN 1604..
TNGN 1607..

CVJN 93°

Page 144 VNGN 1604..
VNGN 1607..

CVVN 72° 30'

Page 145 VNGN 1604..
VNGN 1607..

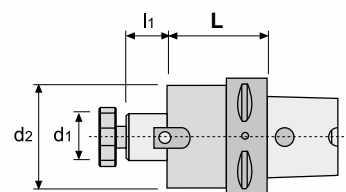


18.160

DIN
2079

Ref.

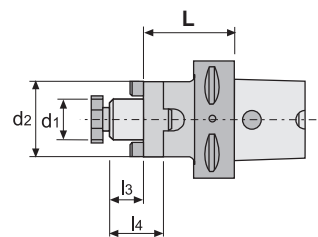
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18.160.050.32	50	32	60	24	63	10016	86032	11105	-
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18.160.080.22	80	22	30	19	47	10010	86122	11004	-
18.160.080.22/100	80	22	100	19	47	10010	86022	11004	-
18.160.080.27	80	27	30	21	58	10012	86127	11005	-
18.160.080.27/100	80	27	100	21	58	10012	86027	11005	-
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18.160.080.40/100	80	40	100	27	70	10020	86040	11006	-
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18.160.100.16	100	16	50	17	37	10008	86016	11103	-
18.160.100.22	100	22	50	19	47	10010	86022	11004	-
18.160.100.22/100	100	22	100	19	47	10010	86022	11004	-
18.160.100.27	100	27	50	21	58	10012	86027	11005	-
18.160.100.27/100	100	27	100	21	58	10012	86027	11005	-
18.160.100.32	100	32	50	24	63	10016	86032	11105	-
18.160.100.32/100	100	32	100	24	63	10016	86032	11105	-
18.160.100.40	100	40	50	27	63	10020	86040	11006	-
18.160.100.40/100	100	40	100	27	63	10020	86040	11006	-
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INCH

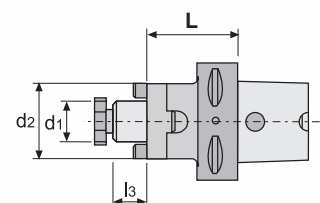
18.160

Ref.	PSC									 DIN 2079
	PSC	d1	L	l1	d2					
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18.160.040.0100	40	1.000	1.378	0.709	1.968	10110		86210	11004	-
18.160.050.0075	50	0.750	0.984	0.709	1.968	10107		86207	11103	-
18.160.050.0100	50	1.000	0.984	0.709	2.126	10110		86210	11004	-
18.160.050.0125	50	1.250	1.575	0.709	2.480	10112		86212	11105	-
18.160.050.0150	50	1.500	1.772	0.906	3.150	10115		86215	11006	-
18.160.063.0075	63	0.750	1.181	0.709	2.480	10107		86207	11103	-
18.160.063.0100	63	1.000	1.181	0.709	2.480	10110		86210	11004	-
18.160.063.0125	63	1.250	1.181	0.709	2.559	10112		86212	11105	-
18.160.063.0150	63	1.500	1.969	0.906	3.425	10115		86215	11006	-
18.160.080.0075	80	0.750	1.181	0.709	3.150	10107		86207	11103	-
18.160.080.0100	80	1.000	1.181	0.709	3.150	10110		86210	11004	-
18.160.080.0125	80	1.250	1.181	0.709	3.150	10112		86212	11105	-
18.160.080.0150	80	1.500	2.362	0.906	3.425	10115		86215	11006	-
18.160.080.0200	80	2.000	2.362	1.142	5.118	-		86220	11008	-
18.160.080.0250	80	2.500	2.362	1.142	5.118	-		86225	11012	-
18.160.100.0150	100	1.500	1.575	0.906	3.937	10115		86215	11006	-
18.160.100.0250	100	2.500	2.953	1.142	5.118	-		86225	11012	-



18.180

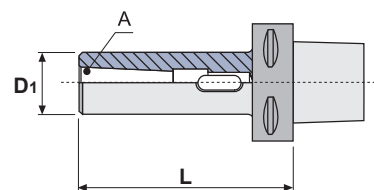
										
Ref.		PSC	d1	L	l3	l4	d2			
18.180.040.16		40	16	50	17	27	32	10008	60116	88016
18.180.040.22		40	22	50	19	31	40	10010	60122	88022
18.180.050.16		50	16	50	17	27	32	10008	60116	88016
18.180.050.22		50	22	50	19	31	40	10010	60122	88022
18.180.050.27		50	27	50	21	33	48	10012	60127	88027
18.180.050.32		50	32	60	24	38	58	10016	60132	88032
18.180.063.16		63	16	90	17	27	32	10008	60116	88016
18.180.063.22		63	22	90	19	31	40	10010	60122	88022
18.180.063.27		63	27	90	21	33	48	10012	60127	88027
18.180.063.32		63	32	90	24	38	58	10016	60132	88032
18.180.063.40		63	40	90	27	41	70	10020	60140	88040
18.180.080.16		80	16	100	17	27	32	10008	60116	88016
18.180.080.22		80	22	100	19	31	40	10010	60122	88022
18.180.080.27		80	27	100	21	33	48	10012	60127	88027
18.180.080.32		80	32	100	24	38	58	10016	60132	88032
18.180.080.40		80	40	100	27	41	70	10020	60140	88040
18.180.080.50		80	50	100	30	46	90	10024	60150	88050
18.180.100.16		100	16	100	17	27	32	10008	60116	88016
18.180.100.22		100	22	100	19	31	40	10010	60122	88022
18.180.100.27		100	27	100	21	33	48	10012	60127	88027
18.180.100.32		100	32	100	24	38	58	10016	60132	88032
18.180.100.40		100	40	100	27	41	70	10020	60140	88040
18.180.100.50		100	50	100	30	46	90	10024	60150	88050



INCH

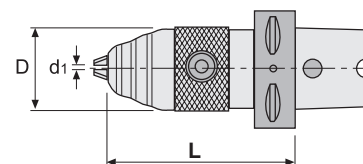
18.180

									
Ref.		PSC	d1	L	l3	d2			
	18.180.040.0100	40	1.000	1.969	0.984	1.575	10110	60210	88110
	18.180.040.0125	40	1.250	2.362	1.378	1.969	10112	60212	88112
	18.180.050.0100	50	1.000	1.969	0.984	1.693	10110	60210	88210
	18.180.050.0125	50	1.250	2.362	0.984	1.969	10112	60212	88212
	18.180.050.0150	50	1.500	2.362	1.181	2.244	10115	60215	88215
	18.180.063.0100	63	1.000	1.969	1.181	1.693	10110	60210	88210
	18.180.063.0125	63	1.250	2.362	0.984	1.890	10112	60212	88212
	18.180.063.0150	63	1.500	2.362	0.984	2.205	10115	60215	88215
	18.180.080.0100	80	1.000	1.969	1.181	1.693	10110	60210	88210
	18.180.080.0125	80	1.250	2.362	1.181	1.890	10112	60212	88212
	18.180.080.0150	80	1.500	2.362	1.181	2.205	10115	60215	88215
	18.180.080.0200	80	2.000	2.362	1.181	2.756	10120	60220	88220
	18.180.080.0250	80	2.500	2.362	1.575	3.346	10125	60225	88225



18.215

	PSC	D1	A	L
Ref. 18.215.050.02	50	32	MK2	110
18.215.050.03	50	40	MK3	130
18.215.063.02	63	32	MK2	110
18.215.063.03	63	40	MK3	130
18.215.063.04	63	52	MK4	150
18.215.080.03	80	40	MK3	120
18.215.080.04	80	52	MK4	145
18.215.080.05	80	63	MK5	180
18.215.100.03	100	40	MK3	130
18.215.100.04	100	52	MK4	150
18.215.100.05	100	63	MK5	175



18.296

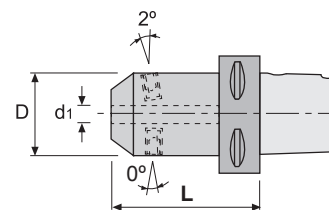
	PSC	D	d1	L
Ref. 18.296.040.13	40	50	0.5 - 13	112
18.296.050.13	50	50	0.5 - 13	112
18.296.063.13	63	50	0.5 - 13	112
18.296.063.16	63	57	3.0 - 16	112
18.296.080.13	80	50	0.5 - 13	125
18.296.080.16	80	57	3.0 - 16	125
18.296.100.13	100	50	0.5 - 13	135
18.296.100.16	100	57	3.0 - 16	135

* SUPPLIED WITH WRENCH



3 x 

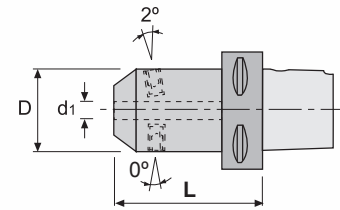
Ref.		
18.296.040.13	50706	60313
18.296.050.13	50706	60313
18.296.063.13	50706	60313
18.296.063.16	50706	60313
18.296.080.13	50706	60313
18.296.080.16	50706	60313
18.296.100.13	50706	60313
18.296.100.16	50706	60313



18.306

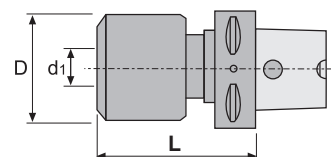
2 x

Ref.	PSC	d1	D	L	
18.306.040.06	40	06	25	50	15106
18.306.040.08	40	08	28	50	15108
18.306.040.10	40	10	35	50	15110
18.306.040.12	40	12	42	55	15212
18.306.040.16	40	16	48	55	15314
18.306.050.06	50	06	25	55	15106
18.306.050.08	50	08	28	55	15108
18.306.050.10	50	10	35	65	15110
18.306.050.12	50	12	42	65	15212
18.306.050.14	50	14	42	65	15212
18.306.050.16	50	16	48	65	15314
18.306.050.18	50	18	48	65	15314
18.306.050.20	50	20	52	65	15216
18.306.050.25	50	25	65	80	4 x 15218
18.306.063.06	63	06	25	80	15106
18.306.063.08	63	08	28	80	15108
18.306.063.10	63	10	35	80	15110
18.306.063.12	63	12	42	80	15212
18.306.063.14	63	14	42	80	15212
18.306.063.16	63	16	48	80	15314
18.306.063.18	63	18	48	80	15314
18.306.063.20	63	20	52	80	15216
18.306.063.25	63	25	65	90	4 x 15218
18.306.063.32	63	32	72	90	4 x 15220
18.306.063.40	63	40	80	95	4 x 15220
18.306.080.06	80	06	25	80	15106
18.306.080.08	80	08	28	80	15108
18.306.080.10	80	10	35	80	15110
18.306.080.12	80	12	42	80	15212
18.306.080.14	80	14	42	80	15212
18.306.080.16	80	16	48	80	15314
18.306.080.20	80	20	52	80	15216
18.306.080.25	80	25	65	90	4 x 15218
18.306.080.32	80	32	72	90	4 x 15220
18.306.080.40	80	40	80	110	4 x 15220
18.306.080.50	80	50	100	120	4 x 15024
18.306.100.12	100	12	42	100	15212
18.306.100.16	100	16	48	100	15314
18.306.100.20	100	20	52	100	15216
18.306.100.25	100	25	65	100	4 x 15218
18.306.100.32	100	32	72	100	4 x 15220
18.306.100.40	100	40	80	120	4 x 15220
18.306.100.50	100	50	100	130	4 x 15024



18.306

		PSC	d1	D	L	2 x 
Ref.	18.306.040.0037	40	0.375	1.000	2.008	15403
	18.306.040.0050	40	0.500	1.250	2.205	15405
	18.306.040.0062	40	0.625	1.625	2.165	15406
	18.306.040.0075	40	0.750	1.752	2.362	15407
	18.306.050.0037	50	0.375	1.000	2.165	15403
	18.306.050.0050	50	0.500	1.250	2.362	15405
	18.306.050.0062	50	0.625	1.625	2.362	15406
	18.306.050.0075	50	0.750	1.752	2.362	15407
	18.306.050.0087	50	0.875	1.969	2.953	15408
	18.306.050.0100	50	1.000	2.248	3.346	4 x 15410
	18.306.050.0125	50	1.250	2.480	3.347	4 x 15412
	18.306.063.0037	63	0.375	1.000	2.362	15403
	18.306.063.0050	63	0.500	1.250	2.362	15405
	18.306.063.0062	63	0.625	1.625	2.560	15406
	18.306.063.0075	63	0.750	1.752	2.560	15407
	18.306.063.0087	63	0.875	1.969	2.560	15408
	18.306.063.0100	63	1.000	2.248	3.347	4 x 15410
	18.306.063.0125	63	1.250	2.480	3.347	4 x 15412
	18.306.063.0150	63	1.500	2.756	3.543	4 x 15412
	18.306.080.0037	80	0.375	1.000	2.756	15403
	18.306.080.0050	80	0.500	1.248	2.756	15405
	18.306.080.0062	80	0.625	1.614	2.756	15406
	18.306.080.0075	80	0.750	1.752	2.953	15407
	18.306.080.0087	80	0.875	1.968	3.150	15408
	18.306.080.0100	80	1.000	2.248	3.150	4 x 15410
	18.306.080.0125	80	1.250	2.480	3.150	4 x 15412
	18.306.080.0150	80	1.500	2.756	3.346	4 x 15412
	18.306.080.0200	80	2.000	3.681	4.528	4 x 15420

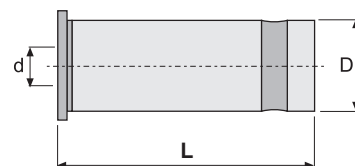


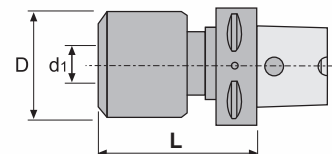
18.400

Ref.		PSC	d1	D	L
	18.400.063.20	63	20	54	93
	18.400.080.20	80	20	72	89
	18.400.080.32	80	32	72	101
	18.400.100.32	100	32	72	120

COMPLEMENTS (Collets type C)

Ref.		d	D	L
	C2006	6	20	55
	C2008	8	20	55
	C2010	10	20	55
	C2012	12	20	55
	C2016	16	20	55
	C3206	6	32	65
	C3208	8	32	65
	C3210	10	32	65
	C3212	12	32	65
	C3216	16	32	65
	C3220	20	32	65
	C3225	25	32	65



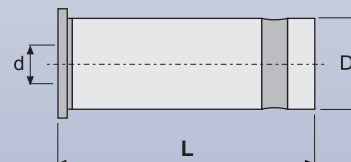


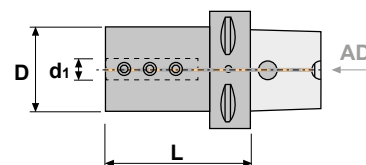
18.400

Ref.		PSC	d1	D	L
	18.400.063.0075	63	0.750	2.125	3.661
	18.400.080.0075	80	0.750	2.834	3.503
	18.400.080.0125	80	1.250	2.834	3.976
	18.400.100.0125	100	1.250	2.834	4.724

COMPLEMENTS (Collets type C)

Ref.		d	D	L
	C2006	0.236	0.787	2.165
	C2008	0.314	0.787	2.165
	C2010	0.393	0.787	2.165
	C2012	0.472	0.787	2.165
	C2016	0.629	0.787	2.165
	C3206	0.236	0.259	2.559
	C3208	0.314	0.259	2.559
	C3210	0.393	0.259	2.559
	C3212	0.472	0.259	2.559
	C3216	0.629	0.259	2.559
	C3220	0.787	0.259	2.559
	C3225	0.984	0.259	2.559

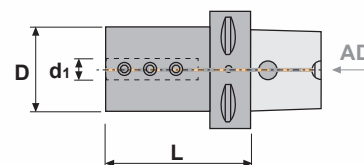




18.406

3 x

	PSC	d1	D	L	
Ref.					
18.406.040.08	40	08	44	50	14206
18.406.040.10	40	10	44	50	14208
18.406.040.12	40	12	44	50	14208
18.406.040.16	40	16	44	50	14210
18.406.050.08	50	08	44	52	14206
18.406.050.10	50	10	44	52	14208
18.406.050.12	50	12	44	52	14208
18.406.050.16	50	16	44	52	14210
18.406.050.20	50	20	50	52	14210
18.406.050.25	50	25	55	60	14210
18.406.063.08	63	08	44	60	14206
18.406.063.10	63	10	44	60	14208
18.406.063.12	63	12	44	60	14208
18.406.063.16	63	16	44	60	14210
18.406.063.20	63	20	50	60	14210
18.406.063.25	63	25	55	72	14210
18.406.063.32	63	32	55	75	14210
18.406.063.40	63	40	65	85	14210
18.406.080.16	80	16	44	85	14210
18.406.080.20	80	20	50	85	14210
18.406.080.25	80	25	55	85	14210
18.406.080.32	80	32	72	85	14310
18.406.080.40	80	40	65	95	14310
18.406.080.50	80	50	75	100	14310
18.406.100.16	100	16	44	100	14210
18.406.100.20	100	20	50	100	14210
18.406.100.25	100	25	55	100	14210
18.406.100.32	100	32	55	100	14310
18.406.100.40	100	40	65	110	14310
18.406.100.50	100	50	75	120	14310



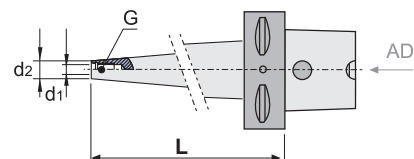
18.406

3 x



Ref.		PSC	d1	D	L	
	18.406.040.0025	40	0.250	1.420	1.970	14302
	18.406.040.0037	40	0.375	1.420	1.970	14303
	18.406.040.0050	40	0.500	1.420	1.970	14303
	18.406.040.0062	40	0.625	1.420	1.970	14306
	18.406.040.0075	40	0.750	1.420	2.360	14306
	18.406.040.0100	40	1.000	2.284	3.583	14306
	18.406.050.0037	50	0.375	1.420	2.360	14303
	18.406.050.0050	50	0.500	1.420	2.360	14303
	18.406.050.0062	50	0.625	1.420	2.360	14306
	18.406.050.0075	50	0.750	1.420	2.360	14306
	18.406.050.0100	50	1.000	2.130	2.760	14306
	18.406.050.0150	50	1.500	2.870	4.528	14306
	18.406.063.0037	63	0.375	1.420	2.560	14303
	18.406.063.0050	63	0.500	1.420	2.560	14303
	18.406.063.0062	63	0.625	1.420	2.560	14306
	18.406.063.0075	63	0.750	1.420	2.660	14306
	18.406.063.0100	63	1.000	2.130	2.950	14306
	18.406.063.0150	63	1.500	2.870	4.130	14306
	18.406.080.0062	80	0.625	1.420	3.350	14306
	18.406.080.0075	80	0.750	1.420	3.350	14306
	18.406.080.0100	80	1.000	2.130	3.350	14306
	18.406.080.0150	80	1.500	2.870	3.350	14306

INCH



18.315

PSC		L	d1	d2	
Ref.	18.315.040.08	40	70	M8	13
	18.315.040.10	40	80	M10	18
	18.315.040.12	40	80	M12	21
	18.315.050.08	50	70	M8	13
	18.315.050.10	50	80	M10	18
	18.315.050.12	50	80	M12	21
	18.315.050.16	50	80	M16	29
	18.315.063.08	63	70	M8	13
	18.315.063.10	63	90	M10	18
	18.315.063.12	63	100	M12	21
	18.315.063.16	63	100	M16	29
	18.315.080.12	80	100	M12	21
	18.315.080.16	80	100	M16	29
18.315.100.12	100	120	M12	21	
18.315.100.16	100	120	M16	29	

ACCESSORIES

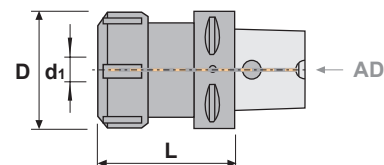
Ref.	06.315	Front contact extensions for modular tools.
	06.315	Front contact reducers for modular tools.



06.315



06.315



18.453		PSC		L	d1	D		
Ref.								
18.453.040.16	40	ER16	60	0,5-10	28	45316	50216	
18.453.040.20	40	ER20	60	1-13	34	45320	50220	
18.453.040.25	40	ER25	60	1-16	42	45325	50225	
18.453.040.32	40	ER32	60	2-20	50	45332	50232	
18.453.050.16	50	ER16	60	0,5-10	28	45316	50216	
18.453.050.16/100	50	ER16	100	0,5-10	28	45316	50216	
18.453.050.20	50	ER20	60	1-13	34	45320	50220	
18.453.050.20/100	50	ER20	100	1-13	34	45320	50220	
18.453.050.25	50	ER25	60	1-16	42	45325	50225	
18.453.050.25/100	50	ER25	100	1-16	42	45325	50225	
18.453.050.32	50	ER32	60	2-20	50	45332	50232	
18.453.050.32/100	50	ER32	100	2-20	50	45332	50232	
18.453.050.40	50	ER40	65	3-30	63	45340	50240	
18.453.050.40/100	50	ER40	100	3-30	63	45340	50240	
18.453.063.16	63	ER16	60	0,5-10	28	45316	50216	
18.453.063.16/100	63	ER16	100	0,5-10	28	45316	50216	
18.453.063.20	63	ER20	60	1-13	34	45320	50220	
18.453.063.20/100	63	ER20	100	1-13	34	45320	50220	
18.453.063.25	63	ER25	60	1-16	42	45325	50225	
18.453.063.25/100	63	ER25	100	1-16	42	45325	50225	
18.453.063.32	63	ER32	60	2-20	50	45332	50232	
18.453.063.32/100	63	ER32	100	2-20	50	45332	50232	
18.453.063.40	63	ER40	70	3-30	63	45340	50240	
18.453.063.40/120	63	ER40	120	3-30	63	45340	50240	
18.453.080.32	80	ER32	70	2-20	50	45332	50232	
18.453.080.32/160	80	ER32	160	2-20	50	45332	50232	
18.453.080.40	80	ER40	70	3-30	63	45340	50240	
18.453.080.40/160	80	ER40	160	3-30	63	45340	50240	
18.453.100.32	100	ER32	100	2-20	50	45332	50232	
18.453.100.32/160	100	ER32	160	2-20	50	45332	50232	
18.453.100.40	100	ER40	100	3-30	63	45340	50240	
18.453.100.40/160	100	ER40	160	3-30	63	45340	50240	
18.453.100.50	100	ER50	100	6-34	78	45350	50250	
18.453.100.50/160	100	ER50	160	6-34	78	45350	50250	

* SUPPLIED WITHOUT WRENCH

ACCESSORIES

Ref.	
ERXX	Collets double slot DIN 6499 - Form B (ER)
ERCXX	Sealed collets DIN 6499 (ER)
ERTXX	Collets DIN 6499 - Form Canela (ER)
40.453..	Collet chucks for DIN 6499 (ER) collets
40.455..	Long collet chucks for DIN 6499 (ER) collets



ERXX



ERCXX



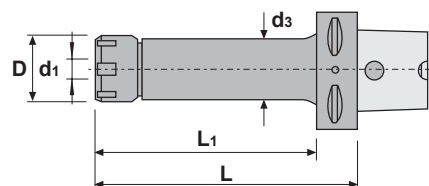
ERTXX



40.453..



40.455..



18.455

18.455											
		PSC		d1	L	D	L1	d3			
Ref.	18.455.063.16	63	ER16	0,5-10	60	22	-	-	45516	50916	19210
	18.455.063.16/100	63	ER16	0,5-10	100	22	78	30	45516	50916	19210
	18.455.063.20	63	ER20	1-13	60	28	-	-	45520	50920	19212
	18.455.063.20/100	63	ER20	1-13	100	28	78	30	45520	50920	19212

* SUPPLIED WITHOUT WRENCH

ACCESSORIES

Ref.	ERXX	Collets double slot DIN 6499 - Form B (ER)
	ERCXX	Sealed collets DIN 6499 (ER)
	ERTXX	Collets DIN 6499 - Form Canela (ER)



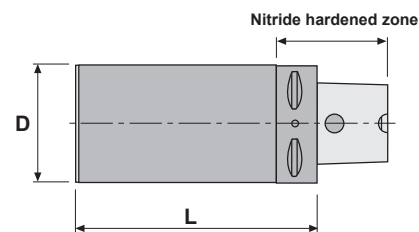
ERXX



ERCXX

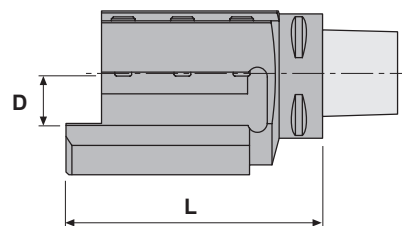


ERTXX



18.470

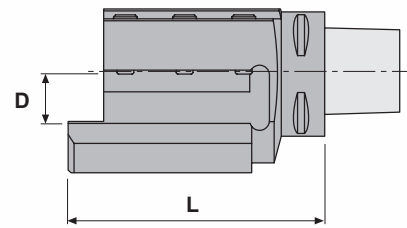
	PSC	D	L
Ref.			
18.470.032.032/090	32	32	90
18.470.032.060/090	32	60	90
18.470.032.040/110	32	40	110
18.470.032.050/125	32	50	125
18.470.032.070/060	32	70	60
18.470.032.090/070	32	90	70
18.470.040.040/095	40	40	95
18.470.040.040/120	40	40	120
18.470.040.060/165	40	60	165
18.470.040.080/075	40	80	75
18.470.040.080/120	40	80	120
18.470.040.100/085	40	100	85
18.470.050.050/125	50	50	125
18.470.050.050/150	50	50	150
18.470.050.075/175	50	75	175
18.470.050.090/080	50	90	80
18.470.050.095/150	50	95	150
18.470.050.063/180	50	63	180
18.470.050.110/090	50	110	90
18.470.063.110/120	63	110	120
18.470.063.063/180	63	63	180
18.470.063.075/195	63	75	195
18.470.063.110/085	63	110	85
18.470.063.120/180	63	120	180
18.470.063.130/095	63	130	95
18.470.080.080/200	80	80	200
18.470.080.100/200	80	100	200
18.470.080.120/160	80	120	160
18.470.080.130/090	80	130	90
18.470.080.145/200	80	145	200
18.470.080.150/200	80	150	200
18.470.100.100/100	100	100	100
18.470.100.100/200	100	100	200
18.470.100.150/100	100	150	100
18.470.100.150/200	100	150	200
18.470.100.200/100	100	200	100



18.500

	PSC	Type	D	L
Ref. 18.500.050.20 R/L	50	Turning toolholder for square tool left/right hand	20	98
18.500.063.20 R/L	63		20	100
18.500.063.25 R/L	63		25	130
18.500.063.32 R/L	63		32	134
18.500.080.32 R/L	80		32	140
18.500.100.32 R/L	100		32	160

		
Ref. 18.500.050.20 R/L	17010	29708
18.500.063.20 R/L	17110	29708
18.500.063.25 R/L	17012	29708
18.500.063.32 R/L	17012	29708
18.500.080.32 R/L	17012	29710
18.500.100.32 R/L	17012	29710

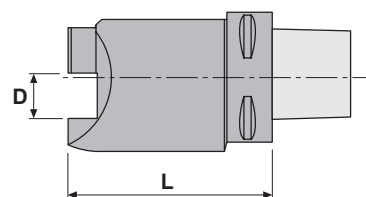
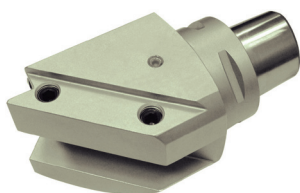


18.500

	PSC	Type	D	L
Ref. 18.500.050.0075 R/L	50	Turning toolholder for square tool left/right hand	0.750	3.858
18.500.063.0075 R/L	63		0.750	3.937
18.500.063.0100 R/L	63		1.000	5.118
18.500.080.0125 R/L	80		1.250	5.512

		
Ref. 18.500.050.0075 R/L	17207	29708
18.500.063.0075 R/L	17207	29708
18.500.063.0100 R/L	17210	29708
18.500.080.0150 R/L	17210	29710

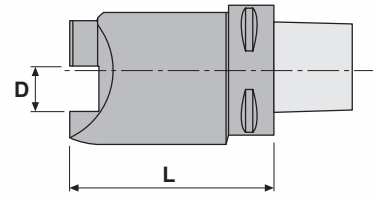
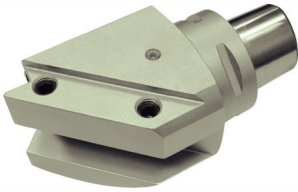
INCH



18.510

	PSC	Type	D	L
Ref. 18.510.050.20 R/L	50	Turning toolholder for square tool left/right hand	20	100
18.510.063.20 R/L	63		20	100
18.510.063.25 R/L	63		25	130
18.510.080.32 R/L	80		32	135
18.510.100.32 R/L	100		32	145

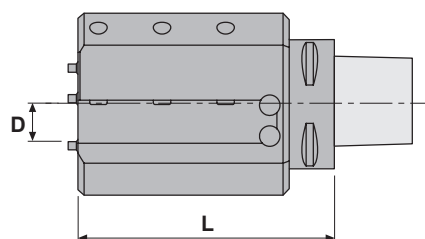
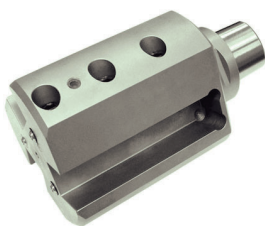
		
Ref. 18.510.050.20 R/L	17110	29708
18.510.063.20 R/L	17110	29708
18.510.063.25 R/L	17012	29708
18.510.080.32 R/L	17012	29710
18.510.100.32 R/L	17012	29710



18.510

	PSC	Type	D	L
Ref.	18.510.050.0075 R/L	Turning toolholder for square tool left/right hand	0.750	3.791
	18.510.063.0075 R/L		0.750	3.870
	18.510.080.0125 R/L		1.250	5.307

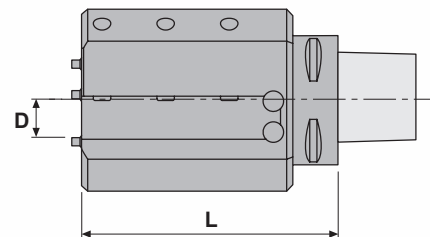
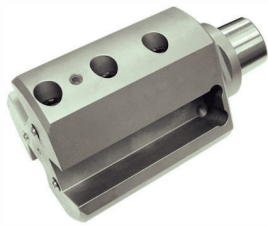
			
Ref.	18.510.050.0075 R/L	17207	29708
	18.510.063.0075 R/L	17207	29708
	18.510.080.0125 R/L	17212	29710



18.520

		PSC	Type	D	L
Ref.	18.520.050.20 R/L	50	Multi purpose square toolholder	20	100
	18.520.063.20 R/L	63		20	125
	18.520.063.25 R/L	63		25	130
	18.520.080.32 R/L	80		32	150
	18.520.100.32 R/L	100		32	160

			
Ref.	18.520.050.20 R/L	17012	29708
	18.520.063.20 R/L	17012	29708
	18.520.063.25 R/L	17012	29708
	18.520.080.32 R/L	17012	29710
	18.520.100.32 R/L	17012	29710

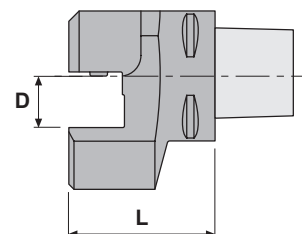


18.520

Ref.		PSC	Type	D	L
	18.520.050.0075 R/L	50	Multi purpose square toolholder	0.750	4.842
	18.520.063.0075 R/L	63		0.750	4.921
	18.520.080.0125 R/L	80		1.250	5.906

Ref.			
	18.520.050.0075 R/L	17207	29708
	18.520.063.0075 R/L	17207	29708
	18.520.080.0125 R/L	17212	29710

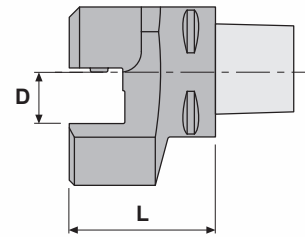
INCH



18.530

	PSC	Type	D	L
Ref.	18.530.050.20	Multi purpose square toolholder	20	58
	18.530.063.20		20	60
	18.530.063.25		25	71
	18.530.063.32		32	71
	18.530.080.32		32	85
	18.530.100.32		32	90

		
Ref.	18.530.050.20	17112
	18.530.063.20	17112
	18.530.063.25	17012
	18.530.063.32	17012
	18.530.080.32	17012
	18.530.100.32	17012

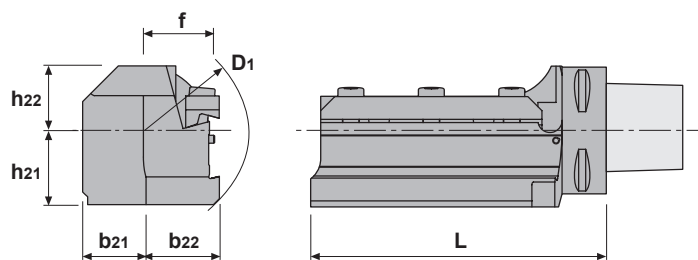


18.530

	PSC	Type	D	L
Ref. 18.530.050.0075	50	Multi purpose square toolholder	0.750	2.244
18.530.063.0075	63		0.750	2.323
18.530.063.0100	63		1.000	2.795
18.530.080.0125	80		1.250	3.337

		
Ref. 18.530.050.0075	17307	29708
18.530.063.0075	17307	29708
18.530.063.0100	17207	29708
18.530.080.0125	17207	29710

INCH

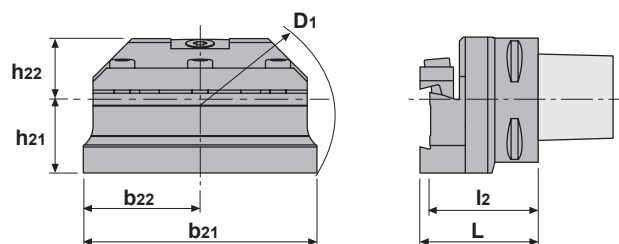
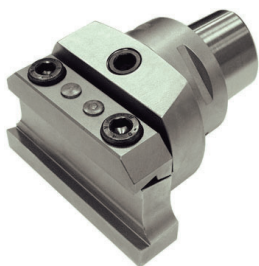


18.540

		PSC	D1	b21	b22	f	h21	h22	L
Ref.	18.540.050.26 R/L	50	87	25.5	31.0	26.0	30.0	26.0	95
	18.540.063.32 R/L	63	106	32.0	37.0	32.0	38.0	32.0	147
	18.540.080.32 R/L	80	122	40.0	45.5	40.5	40.5	40.5	155
	18.540.100.32 R/L	100	160	50.0	55.5	50.5	60.5	50.0	175
	18.540.100.52 R/L	100	180	50.0	55.5	50.5	65.5	50.0	300



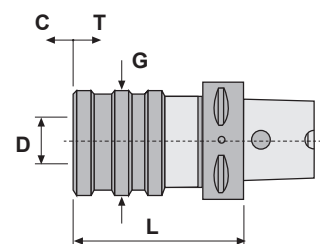
Ref.			
	18.540.050.26 R/L	80526	11308
	18.540.063.32 R/L	80632	11308
	18.540.080.32 R/L	80632	11308
	18.540.100.32 R/L	80632	11308
	18.540.100.52 R/L	81052	11308



18.550

		PSC	D1	b21	b22	h21	h22	L	l2
Ref.	18.550.050.26	50	100	80	40.0	30.0	25.2	58	53
	18.550.063.32	63	141	120	60.0	37.0	32.0	60	55
	18.550.080.32	80	145	120	60.0	40.5	40.0	68	63
	18.550.100.32	100	145	120	60.0	40.5	40.0	83	78
	18.550.100.52	100	165	135	67.5	65.5	50.0	83	78

			
Ref.	18.550.050.26	80526	11308
	18.550.063.32	81632	11308
	18.550.080.32	81632	11308
	18.550.100.32	81632	11308
	18.550.100.52	81052	11308



18.620		PSC	G Nº. Ø		L	D	C	T		
Ref.	18.620.040.12	40	1 19	M3-M12	65	38	9	9	710XX	750XX
	18.620.050.12	50	1 19	M3-M12	65	38	9	9	710XX	750XX
	18.620.063.12	63	1 19	M3-M12	70	38	9	9	710XX	750XX
	18.620.063.20	63	2 31	M8-M20	95	55	15	15	720XX	760XX
	18.620.063.33	63	3 48	M14-M33	140	79	24	24	730XX	770XX
	18.620.080.12	80	1 19	M3-M12	80	38	9	9	710XX	750XX
	18.620.080.20	80	2 31	M8-M20	100	55	15	15	720XX	760XX
	18.620.080.33	80	3 48	M14-M33	150	79	24	24	730XX	770XX
	18.620.100.12	100	1 19	M3-M12	90	38	9	9	710XX	750XX
	18.620.100.20	100	2 31	M8-M20	110	55	15	15	720XX	760XX
	18.620.100.33	100	3 48	M14-M33	160	79	24	24	730XX	770XX

COMPENSATION IN COMPRESSION (C) AND TENSION (T)

ACCESSORIES

Ref.	710XX..730XX	Quick change adapters without overload clutch.
	750XX..770XX	Quick change adapters with overload clutch.



710XX..730XX



750XX..770XX



MC

Manual CAP

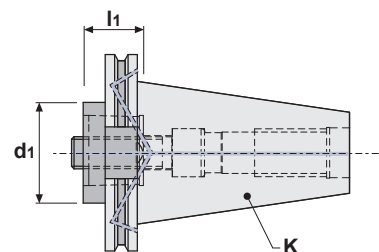
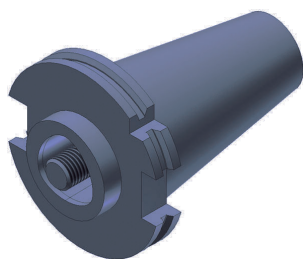
Ref.		
PSC32-MC		32
PSC40-MC		40
PSC50-MC		50
PSC63-MC		63
PSC80-MC		80



AC

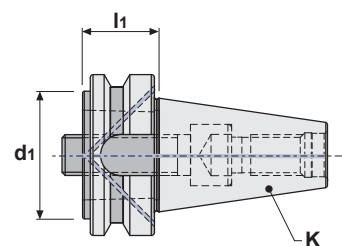
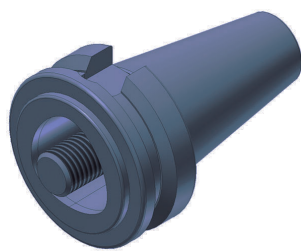
Automatic CAP

Ref.		
PSC40-AC		40
PSC50-AC		50
PSC63-AC		63
PSC80-AC		80



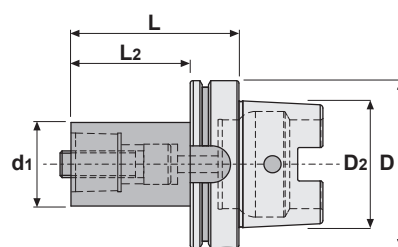
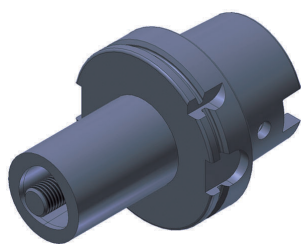
13.218

		K ISO	PSC	d1	l1
Ref.	13.218.30.32/030	30	32	32	30
	13.218.30.32/060	30	32	32	60
	13.218.40.32/030	40	32	32	30
	13.218.40.32/060	40	32	32	60
	13.218.50.32/030	50	32	32	30
	13.218.50.32/060	50	32	32	60
	13.218.40.40/030	40	40	40	30
	13.218.40.40/060	40	40	40	60
	13.218.50.40/030	50	40	40	30
	13.218.50.40/060	50	40	40	60
	13.218.40.50/030	40	50	50	30
	13.218.40.50/070	40	50	50	70
	13.218.50.50/030	50	50	50	30
	13.218.50.50/070	50	50	50	70
	13.218.40.63/085	40	63	63	85
	13.218.50.63/030	50	63	63	30
	13.218.50.63/080	50	63	63	80
	13.218.50.80/070	50	80	80	70
	13.218.50.80/120	50	80	80	120



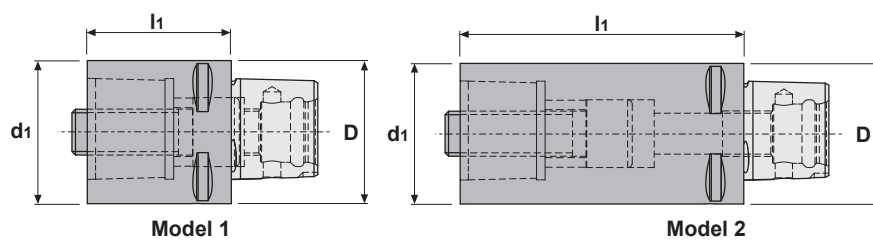
23.218

		K ISO	PSC	d1	l1
Ref.	23.218.30.32/030	30	32	30	30
	23.218.30.32/060	30	32	30	60
	23.218.40.32/030	40	32	40	30
	23.218.40.32/060	40	32	40	60
	23.218.50.32/040	50	32	50	40
	23.218.50.32/070	50	32	50	70
	23.218.40.40/030	40	40	40	30
	23.218.40.40/060	40	40	40	60
	23.218.50.40/040	50	40	50	40
	23.218.50.40/070	50	40	50	70
	23.218.40.50/030	40	50	40	30
	23.218.40.50/070	40	50	40	70
	23.218.50.50/040	50	50	50	40
	23.218.50.50/080	50	50	50	80
	23.218.40.63/075	40	63	40	75
	23.218.50.63/040	50	63	50	40
	23.218.50.63/090	50	63	50	90
	23.218.50.80/070	50	80	50	70
	23.218.50.80/120	50	80	50	120



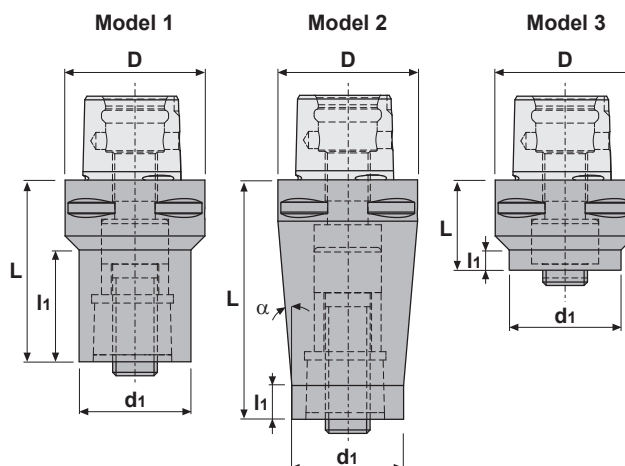
16.218

		HSK	PSC	d1	D	D2	L	L2
Ref.	16.218.63.32/075	63	32	32	63	48	75	49
	16.218.100.32/080	100	32	32	100	75	80	51
	16.218.63.40/080	63	40	40	63	48	80	54
	16.218.100.40/090	100	40	40	100	75	90	61
	16.218.63.50/090	63	50	50	63	48	90	64
	16.218.100.50/100	100	50	50	100	75	100	71
	16.218.100.63/110	100	63	63	100	75	110	81
	16.218.100.80/120	100	80	80	100	75	120	91



18.218

		Side				
		Model	PSC / Machine	d1	D	l1
Ref.	18.218.32.32/035	1	32	32	32	35
	18.218.32.32/060	2	32	32	32	60
	18.218.32.32/080	2	32	32	32	80
	18.218.40.40/040	1	40	40	40	40
	18.218.40.40/060	2	40	40	40	60
	18.218.40.40/080	2	40	40	40	80
	18.218.50.50/050	1	50	50	50	50
	18.218.50.50/080	2	50	50	50	80
	18.218.50.50/100	2	50	50	50	100
	18.218.63.63/060	1	63	63	63	60
	18.218.63.63/100	2	63	63	63	100
	18.218.63.63/140	2	63	63	63	140
	18.218.80.80/065	1	80	80	80	65
	18.218.80.80/100	2	80	80	80	100
	18.218.80.80/125	2	80	80	80	125

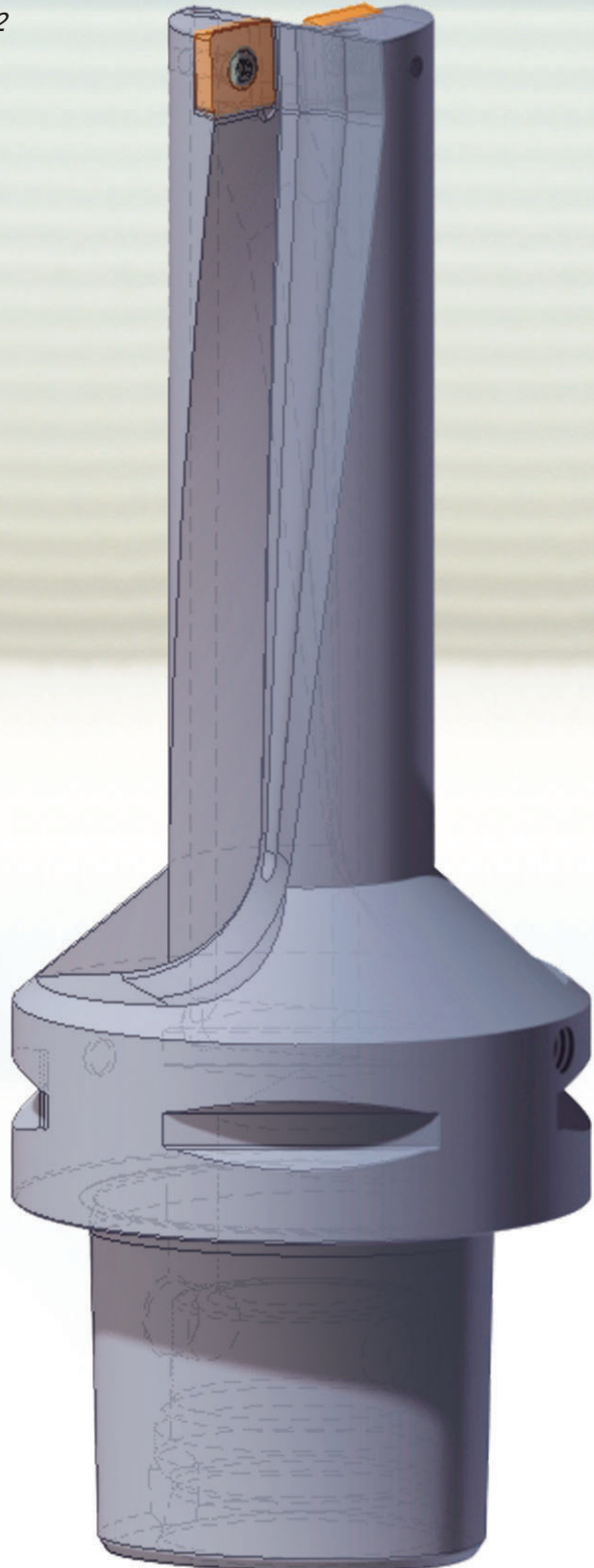


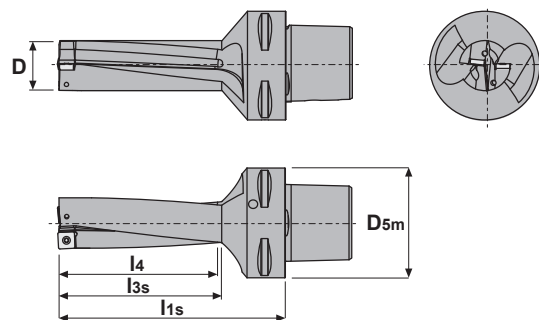
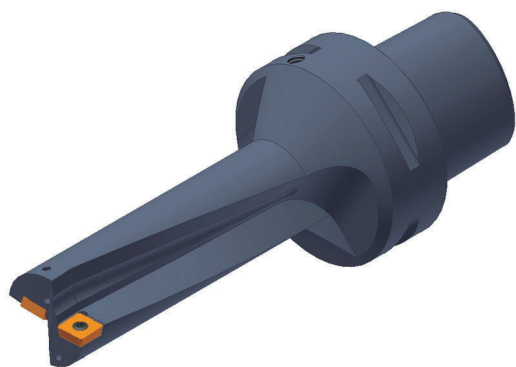
18.218

		Model	Side Machine	Side PSC	D	d1	L	l1	α
Ref.	18.218.40.32/055	1	40	32	40	32	55	31.0	-
	18.218.40.32/070	2	40	32	40	32	70	12.0	6.0°
	18.218.50.32/060	1	50	32	50	32	60	34.8	-
	18.218.50.40/065	1	50	40	50	40	65	40.0	-
	18.218.50.40/085	2	50	40	50	40	85	12.0	5.4°
	18.218.50.32/033	3	50	32	50	32	33	10.0	-
	18.218.50.40/040	3	50	40	50	40	40	18.0	-
	18.218.63.32/070	1	63	32	63	32	70	39.0	-
	18.218.63.40/080	1	63	40	63	40	80	51.4	-
	18.218.63.50/080	1	63	50	63	50	80	51.5	-
	18.218.63.50/110	2	63	50	63	50	110	12.0	4.9°
	18.218.63.32/032	3	63	32	63	32	32	6.0	-
	18.218.63.40/040	3	63	40	63	40	40	11.0	-
	18.218.63.50/050	3	63	50	63	50	50	26.5	-
	18.218.80.32/060	1	80	32	80	32	60	29.3	-
	18.218.80.40/070	1	80	40	80	40	70	36.5	-
	18.218.80.50/080	1	80	50	80	50	80	49.3	-
	18.218.80.63/080	1	80	63	80	63	80	53.1	-
	18.218.80.63/120	2	80	63	80	63	120	12.0	6.2°
	18.218.80.50/045	3	80	50	80	50	45	10.0	-
	18.218.80.63/055	3	80	63	80	63	55	20.0	-

PSC Drills

45.. 42





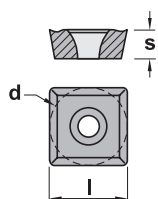
45..


Characteristics:
PSC with internal coolant.

Radial Adj.



Ref.		D5m	D	l1s	l3s	l4	Dmax	Insert		
PSC40-4514.15		40	15	82	48	45	+0,40 $\varnothing$ 15,8	SPMT 0603..	1225	5507
PSC40-4514.16		40	16	86	51	48	+0,30 $\varnothing$ 16,6	SPMT 0603..	1225	5507
PSC40-4514.17		40	17	89	54	51	+0,60 $\varnothing$ 18,2	SPMT 0603..	1225	5507
PSC40-4514.17,5		40	17,5	92	56	53	+0,50 $\varnothing$ 18,5	SPMT 0603..	1225	5507
PSC40-4514.18		40	18	93	57	54	+0,40 $\varnothing$ 18,8	SPMT 0603..	1225	5507
PSC40-4514.18,5		40	18,5	95	59	56	+0,40 $\varnothing$ 19,3	SPMT 0603..	1225	5507
PSC40-4514.19		40	19	96	60	57	+0,30 $\varnothing$ 19,6	SPMT 0603..	1225	5507
PSC40-4514.20		40	20	101	64	60	+0,90 $\varnothing$ 21,8	SPMT 0603..	1225	5507
PSC40-4524.21		40	21	104	66	63	+0,80 $\varnothing$ 22,6	SPMT 0703..	1225	5507
PSC40-4524.22		40	22	107	69	66	+0,60 $\varnothing$ 23,2	SPMT 0703..	1225	5507
PSC40-4524.23		40	23	111	72	69	+0,50 $\varnothing$ 24,0	SPMT 0703..	1225	5507
PSC40-4524.24		40	24	115	76	72	+1,10 $\varnothing$ 26,2	SPMT 0703..	1225	5507
PSC40-4524.25		40	25	119	79	75	+1,00 $\varnothing$ 27,0	SPMT 0703..	1225	5507
PSC40-4534.26		40	26	122	81	78	+0,90 $\varnothing$ 27,8	SPMT 0903..	1230	5508
PSC40-4534.27		40	27	125	84	81	+0,70 $\varnothing$ 28,4	SPMT 0903..	1230	5508
PSC40-4534.28		40	28	129	87	84	+0,60 $\varnothing$ 29,2	SPMT 0903..	1230	5508
PSC40-4534.29		40	29	132	90	87	+0,50 $\varnothing$ 30,0	SPMT 0903..	1230	5508
PSC40-4534.30		40	30	137	94	90	+1,12 $\varnothing$ 32,2	SPMT 0903..	1230	5508



SPMT

Ref.

SPMT 060304

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6,35

3,18

6,35

SPMT 070308

7,94

3,18

7,94

SPMT 090308

9,52

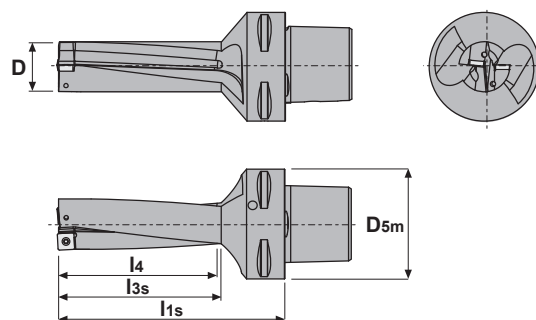
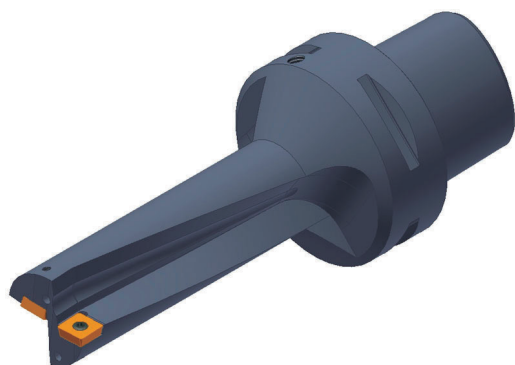
3,18

9,52

Positive 11 ° clearance - Square inserts.

SPMT





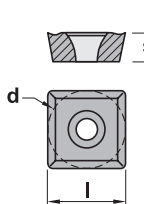
45..

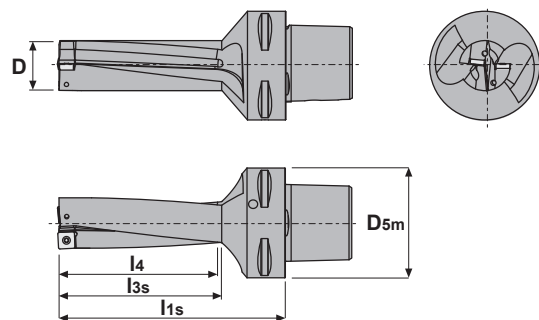
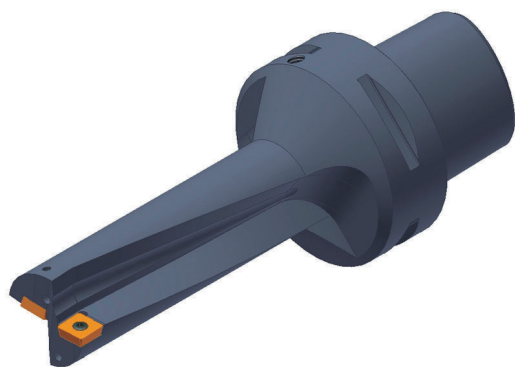

Characteristics:
PSC with internal coolant.

Radial Adj.



Ref.		D5m	D	l1s	l3s	l4	Dmax	Insert		
PSC50-4514.15		50	15	82	48	45	+0,40↻15,8	SPMT 0603..	1225	5507
PSC50-4514.16		50	16	86	51	48	+0,30↻16,6	SPMT 0603..	1225	5507
PSC50-4514.17		50	17	89	54	51	+0,60↻18,2	SPMT 0603..	1225	5507
PSC50-4514.17,5		50	17,5	92	56	53	+0,50↻18,5	SPMT 0603..	1225	5507
PSC50-4514.18		50	18	93	57	54	+0,40↻18,8	SPMT 0603..	1225	5507
PSC50-4514.18,5		50	18,5	95	59	56	+0,40↻19,3	SPMT 0603..	1225	5507
PSC50-4514.19		50	19	96	60	57	+0,30↻19,6	SPMT 0603..	1225	5507
PSC50-4514.20		50	20	101	64	60	+0,90↻21,8	SPMT 0603..	1225	5507
PSC50-4524.21		50	21	104	66	63	+0,80↻22,6	SPMT 0703..	1225	5507
PSC50-4524.22		50	22	107	69	66	+0,60↻23,2	SPMT 0703..	1225	5507
PSC50-4524.23		50	23	111	72	69	+0,50↻24,0	SPMT 0703..	1225	5507
PSC50-4524.24		50	24	115	76	72	+1,10↻26,2	SPMT 0703..	1225	5507
PSC50-4524.25		50	25	119	79	75	+1,00↻27,0	SPMT 0703..	1225	5507
PSC50-4534.26		50	26	122	81	78	+0,90↻27,8	SPMT 0903..	1230	5508
PSC50-4534.27		50	27	125	84	81	+0,70↻28,4	SPMT 0903..	1230	5508
PSC50-4534.28		50	28	129	87	84	+0,60↻29,2	SPMT 0903..	1230	5508
PSC50-4534.29		50	29	132	90	87	+0,50↻30,0	SPMT 0903..	1230	5508
PSC50-4534.30		50	30	137	94	90	+1,12↻32,2	SPMT 0903..	1230	5508
PSC50-4534.31		50	31	141	97	93	+0,99↻33,0	SPMT 0903..	1230	5508
PSC50-4534.32		50	32	144	100	96	+0,87↻33,7	SPMT 0903..	1230	5508
PSC50-4534.33		50	33	148	103	99	+0,75↻34,5	SPMT 0903..	1230	5508
PSC50-4534.34		50	34	151	106	102	+0,62↻35,2	SPMT 0903..	1230	5508
PSC50-4544.35		50	35	155	109	105	+0,50↻36,0	SPMT 1204..	1250	5520
PSC50-4544.36		50	36	159	112	108	+1,38↻38,8	SPMT 1204..	1250	5520
PSC50-4544.37		50	37	162	115	111	+1,25↻39,5	SPMT 1204..	1250	5520
PSC50-4544.38		50	38	166	118	114	+1,13↻40,2	SPMT 1204..	1250	5520
PSC50-4544.39		50	39	169	121	117	+1,00↻41,0	SPMT 1204..	1250	5520
PSC50-4544.40		50	40	173	124	120	+0,88↻41,8	SPMT 1204..	1250	5520
PSC50-4544.41		50	41	177	127	123	+0,75↻42,5	SPMT 1204..	1250	5520
PSC50-4544.42		50	42	186	130	126	+0,63↻43,2	SPMT 1204..	1250	5520
PSC50-4544.43		50	43	190	133	129	+0,50↻44,0	SPMT 1204..	1250	5520

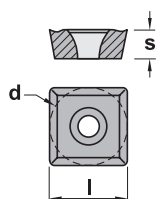
SPMT		l	s	d	Positive 11 ° clearance - Square inserts.
Ref.		6,35	3,18	6,35	
	SPMT 060304	7,94	3,18	7,94	
	SPMT 070308	9,52	3,18	9,52	
	SPMT 120408	12,70	4,76	12,70	
SPMT					
					



45..


Characteristics:
PSC with internal coolant.


Ref.		D5m	D	l1s	l3s	l4	Radial Adj. Dmax	Insert		
PSC63-4514.15		63	15	84	48	45	+0,40 ↻ 15,8	SPMT 0603..	1225	5507
PSC63-4514.16		63	16	88	51	48	+0,30 ↻ 16,6	SPMT 0603..	1225	5507
PSC63-4514.17		63	17	91	54	51	+0,60 ↻ 18,2	SPMT 0603..	1225	5507
PSC63-4514.17,5		63	17,5	94	56	53	+0,50 ↻ 18,5	SPMT 0603..	1225	5507
PSC63-4514.18		63	18	95	57	54	+0,40 ↻ 18,8	SPMT 0603..	1225	5507
PSC63-4514.18,5		63	18,5	97	59	56	+0,40 ↻ 19,3	SPMT 0603..	1225	5507
PSC63-4514.19		63	19	98	60	57	+0,30 ↻ 19,6	SPMT 0603..	1225	5507
PSC63-4514.20		63	20	103	64	60	+0,90 ↻ 21,8	SPMT 0603..	1225	5507
PSC63-4524.21		63	21	106	66	63	+0,80 ↻ 22,6	SPMT 0703..	1225	5507
PSC63-4524.22		63	22	109	69	66	+0,60 ↻ 23,2	SPMT 0703..	1225	5507
PSC63-4524.23		63	23	113	72	69	+0,50 ↻ 24,0	SPMT 0703..	1225	5507
PSC63-4524.24		63	24	117	76	72	+1,10 ↻ 26,2	SPMT 0703..	1225	5507
PSC63-4524.25		63	25	121	79	75	+1,00 ↻ 27,0	SPMT 0703..	1225	5507
PSC63-4534.26		63	26	124	81	78	+0,90 ↻ 27,8	SPMT 0903..	1230	5508
PSC63-4534.27		63	27	127	84	81	+0,70 ↻ 28,4	SPMT 0903..	1230	5508
PSC63-4534.28		63	28	131	87	84	+0,60 ↻ 29,2	SPMT 0903..	1230	5508
PSC63-4534.29		63	29	134	90	87	+0,50 ↻ 30,0	SPMT 0903..	1230	5508
PSC63-4534.30		63	30	139	94	90	+1,12 ↻ 32,2	SPMT 0903..	1230	5508
PSC63-4534.31		63	31	143	97	93	+0,99 ↻ 33,0	SPMT 0903..	1230	5508
PSC63-4534.32		63	32	146	100	96	+0,87 ↻ 33,7	SPMT 0903..	1230	5508
PSC63-4534.33		63	33	150	103	99	+0,75 ↻ 34,5	SPMT 0903..	1230	5508
PSC63-4534.34		63	34	153	106	102	+0,62 ↻ 35,2	SPMT 0903..	1230	5508
PSC63-4544.35		63	35	157	109	105	+0,50 ↻ 36,0	SPMT 1204..	1250	5520
PSC63-4544.36		63	36	161	112	108	+1,38 ↻ 38,8	SPMT 1204..	1250	5520
PSC63-4544.37		63	37	164	115	111	+1,25 ↻ 39,5	SPMT 1204..	1250	5520
PSC63-4544.38		63	38	168	118	114	+1,13 ↻ 40,2	SPMT 1204..	1250	5520
PSC63-4544.39		63	39	171	121	117	+1,00 ↻ 41,0	SPMT 1204..	1250	5520
PSC63-4544.40		63	40	175	124	120	+0,88 ↻ 41,8	SPMT 1204..	1250	5520
PSC63-4544.41		63	41	179	127	123	+0,75 ↻ 42,5	SPMT 1204..	1250	5520
PSC63-4544.42		63	42	182	130	126	+0,63 ↻ 43,2	SPMT 1204..	1250	5520
PSC63-4544.43		63	43	186	133	129	+0,50 ↻ 44,0	SPMT 1204..	1250	5520



SPMT

Ref.

SPMT 060304

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6,35

3,18

6,35

SPMT 070308

7,94

3,18

7,94

SPMT 090308

9,52

3,18

9,52

SPMT 120408

12,70

4,76

12,70

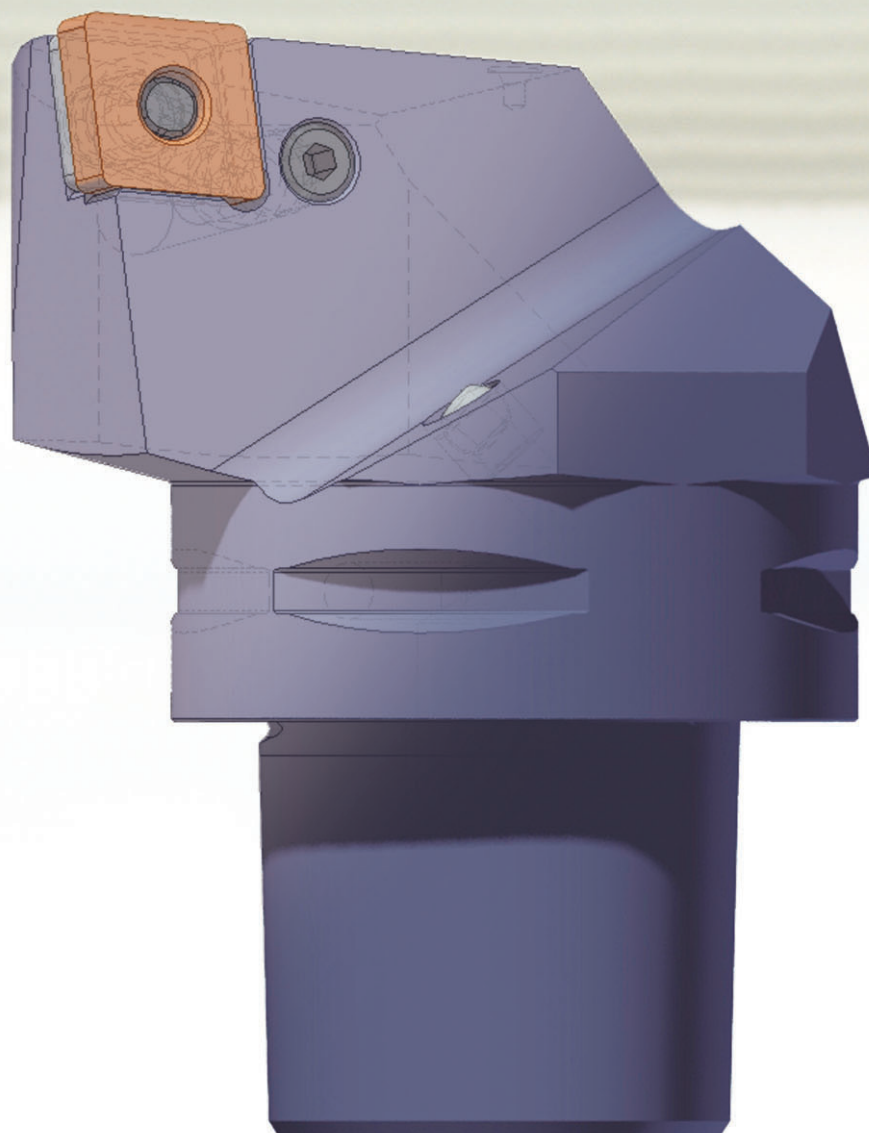
Positive 11 ° clearance - Square inserts.

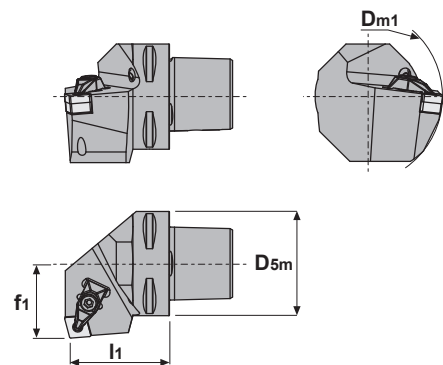
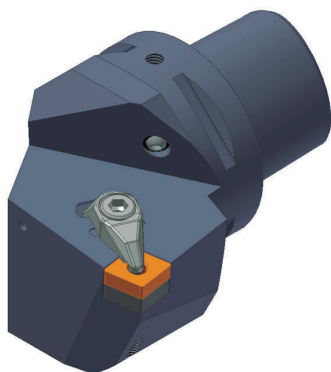
SPMT



PSC Toolholders

Toolholders (Dimple clamp D)	46
Toolholders (Wedge clamp / Double lock M)	63
Toolholders (Lever lock P)	79
Toolholders (Center screw S)	89





DCKN 75°



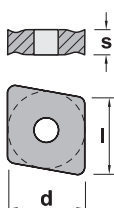
Characteristics:
PSC with internal coolant.

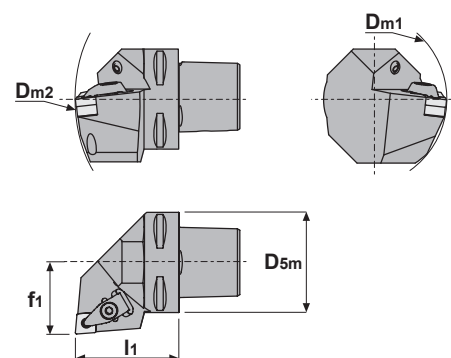
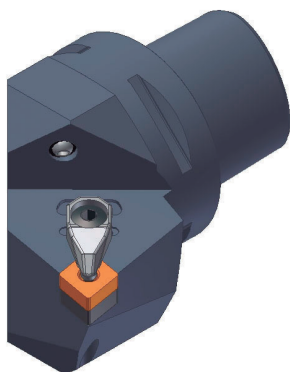
Ref.		D5m	Dm1 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-DCKNR/L27050-12	40	110	27.0	50.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-DCKNR/L35060-12	50	110	35.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-DCKNR/L45065-12	63	110	45.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC40-DCKNR/L27050-16	40	125	27.0	50.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-DCKNR/L35060-16	50	125	35.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-DCKNR/L45065-16	63	125	45.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-DCKNR/L45065-19	63	125	45.0	65.0	-6°	-6°	6.4	CN.. 1906..
	PSC80-DCKNR/L55080-19	80	125	55.0	80.0	-6°	-6°	6.4	CN.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-DCKNR/L27050-12	1766	ICSN-442	2712	1696	4295	5004
	PSC50-DCKNR/L35060-12	1766	ICSN-442	2712	1696	4295	5004
	PSC63-DCKNR/L45065-12	1766	ICSN-442	2712	1696	4295	5004
	PSC40-DCKNR/L27050-16	1768	ICSN-533	2716	1696	4295	5004
	PSC50-DCKNR/L35060-16	1768	ICSN-533	2716	1696	4295	5004
	PSC63-DCKNR/L45065-16	1768	ICSN-533	2716	1696	4295	5004
	PSC63-DCKNR/L45065-19	1770	ICSN-633	2719	1696	4295	5004
	PSC80-DCKNR/L55080-19	1770	ICSN-633	2719	1696	4295	5004

CN..					Negative 80° rhombic inserts.			
Ref.	CN.. 1204..	12,90	4,76	12,70	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
	CN.. 1606..	16,10	6,35	15,88				
	CN.. 1906..	19,30	6,35	19,05				
	CNGP	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMM





DCLN 95°



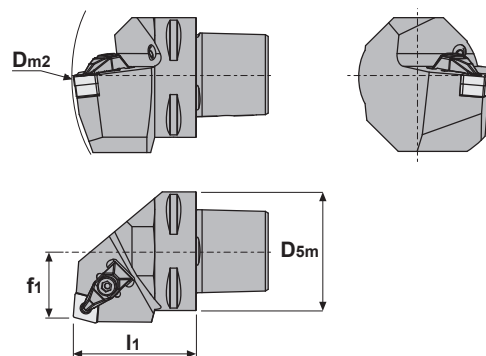
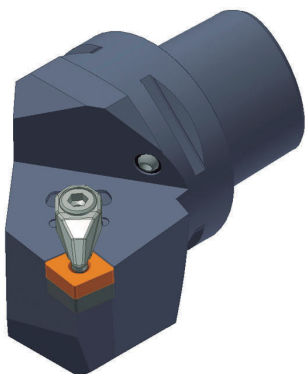
Characteristics:
PSC with internal coolant.

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	γ^1	λs^2	Nm ³	Insert
	PSC32-DCLNR/L22040-09	32	60	116	22.0	40.0	-6°	-6°	1.7	CN.. 0903..
	PSC40-DCLNR/L27050-09	40	60	140	27.0	50.0	-6°	-6°	1.7	CN.. 0903..
	PSC32-DCLNR/L22045-12	32	60	121	22.0	45.0	-6°	-6°	3.9	CN.. 1204..
	PSC40-DCLNR/L27050-12	40	110	140	27.0	50.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-DCLNR/L35060-12	50	110	165	35.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-DCLNR/L45065-12	63	110	190	45.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC80-DCLNR/L55080-12	80	110	250	55.0	80.0	-6°	-6°	3.9	CN.. 1204..
	PSC40-DCLNR/L27055-16	40	125	145	27.0	55.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-DCLNR/L35060-16	50	125	165	35.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-DCLNR/L45065-16	63	125	190	45.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC80-DCLNR/L55080-16	80	125	250	55.0	80.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-DCLNR/L35060-19	50	125	165	35.0	60.0	-6°	-6°	6.4	CN.. 1906..
	PSC63-DCLNR/L45065-19	63	125	190	45.0	65.0	-6°	-6°	6.4	CN.. 1906..
	PSC80-DCLNR/L55080-19	80	125	250	55.0	80.0	-6°	-6°	6.4	CN.. 1906..

Ref.							
	PSC32-DCLNR/L22040-09	1764	ICSN-332	2708	1695	4294	5003
	PSC40-DCLNR/L27050-09	1764	ICSN-332	2708	1695	4294	5003
	PSC32-DCLNR/L22045-12	1766	ICSN-442	2712	1696	4295	5004
	PSC40-DCLNR/L27050-12	1766	ICSN-442	2712	1696	4295	5004
	PSC50-DCLNR/L35060-12	1766	ICSN-442	2712	1696	4295	5004
	PSC63-DCLNR/L45065-12	1766	ICSN-442	2712	1696	4295	5004
	PSC80-DCLNR/L55080-12	1766	ICSN-442	2712	1696	4295	5004
	PSC40-DCLNR/L27055-16	1768	ICSN-533	2716	1696	4295	5004
	PSC50-DCLNR/L35060-16	1768	ICSN-533	2716	1696	4295	5004
	PSC63-DCLNR/L45065-16	1768	ICSN-533	2716	1696	4295	5004
	PSC80-DCLNR/L55080-16	1768	ICSN-533	2716	1696	4295	5004
	PSC50-DCLNR/L35060-19	1770	ICSN-633	2719	1696	4295	5004
	PSC63-DCLNR/L45065-19	1770	ICSN-633	2719	1696	4295	5004
	PSC80-DCLNR/L55080-19	1770	ICSN-633	2719	1696	4295	5004

Ref.	CN..	l	s	d	Negative 80° rhombic inserts.			
	CN.. 0903..	9,65	3,18	9,52	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
	CN.. 1204..	12,90	4,76	12,70				
	CN.. 1606..	16,10	6,35	15,88				
	CN.. 1906..	19,30	6,35	19,05	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMG-CM
	CNMG	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMG-CM



DCRN 75°

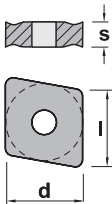


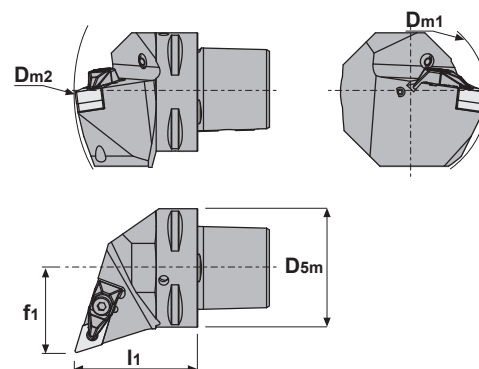
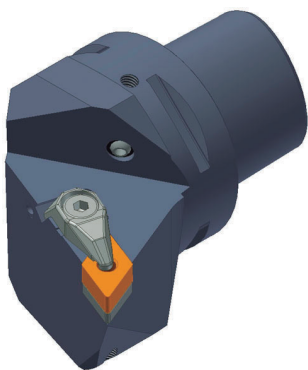
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-DCRNR/L22050-12	40	140	22.0	50.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-DCRNR/L27060-12	50	165	27.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-DCRNR/L35065-12	63	190	35.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-DCRNR/L27060-16	50	165	27.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-DCRNR/L35065-16	63	190	35.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC80-DCRNR/L55080-16	80	250	55.0	80.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-DCRNR/L27060-19	50	165	27.0	60.0	-6°	-6°	6.4	CN.. 1906..
	PSC63-DCRNR/L35065-19	63	190	35.0	65.0	-6°	-6°	6.4	CN.. 1906..
	PSC80-DCRNR/L55080-19	80	250	55.0	80.0	-6°	-6°	6.4	CN.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-DCRNR/L22050-12	1766	ICSN-442	2712	1696	4295	5004
	PSC50-DCRNR/L27060-12	1766	ICSN-442	2712	1696	4295	5004
	PSC63-DCRNR/L35065-12	1766	ICSN-442	2712	1696	4295	5004
	PSC50-DCRNR/L27060-16	1768	ICSN-533	2716	1696	4295	5004
	PSC63-DCRNR/L35065-16	1768	ICSN-533	2716	1696	4295	5004
	PSC80-DCRNR/L55080-16	1768	ICSN-533	2716	1696	4295	5004
	PSC50-DCRNR/L27060-19	1770	ICSN-633	2719	1696	4295	5004
	PSC63-DCRNR/L35065-19	1770	ICSN-633	2719	1696	4295	5004
	PSC80-DCRNR/L55080-19	1770	ICSN-633	2719	1696	4295	5004

	CN..				Negative 80° rhombic inserts.				
	Ref.	CN.. 1204..	12,90	4,76	12,70	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
		CN.. 1606..	16,10	6,35	15,88				
		CN.. 1906..	19,30	6,35	19,05				
CNGP	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMM		
									



DDHN 107° 30'



Characteristics:

PSC with internal coolant.

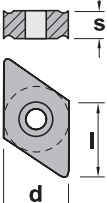
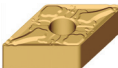
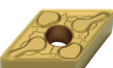
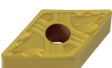
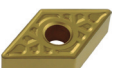
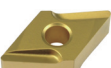
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-DDHNR/L27055-15	40	110	145	27.0	55.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-DDHNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-DDHNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-DDHNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

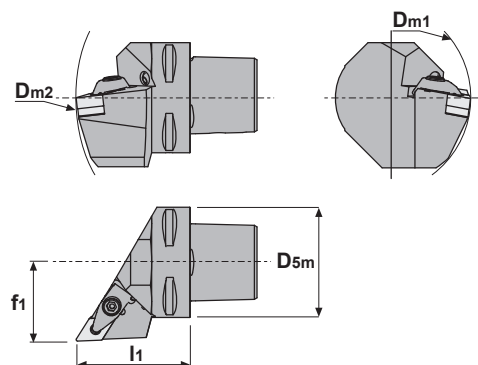
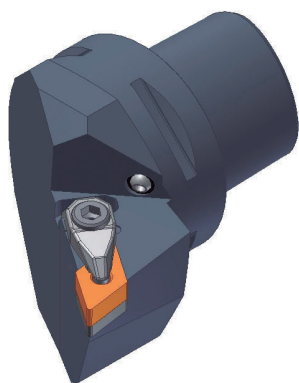
1) γ = Rake angle (valid a smooth insert).

2) λs = Angle of inclination.

3) Nm = Insert moment of force.

Ref.							
	PSC40-DDHNR/L27055-15	1766	IDSN-432	2712	1696	4295	5004
	PSC50-DDHNR/L35060-15	1766	IDSN-432	2712	1696	4295	5004
	PSC63-DDHNR/L45065-15	1766	IDSN-432	2712	1696	4295	5004
	PSC80-DDHNR/L55080-15	1766	IDSN-432	2712	1696	4295	5004

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1506..	l	s	d	DNMA	DNMG-CF
							
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	
							



DDJN 93°

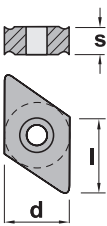
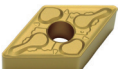
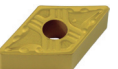
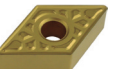
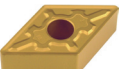


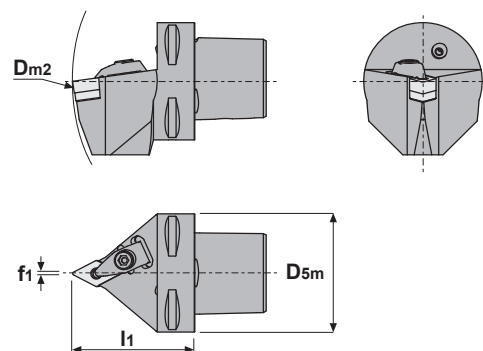
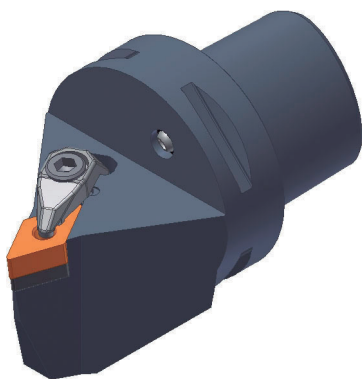
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-DDJNR/L22045-11	32	60	121	22.0	45.0	-6°	-7°	1.7	DN.. 1104..
	PSC40-DDJNR/L27050-11	40	60	140	27.0	50.0	-6°	-7°	1.7	DN.. 1104..
	PSC50-DDJNR/L35060-11	50	65	165	35.0	60.0	-6°	-7°	1.7	DN.. 1104..
	PSC63-DDJNR/L45065-11	63	81	190	45.0	65.0	-6°	-7°	1.7	DN.. 1104..
	PSC40-DDJNR/L27055-15	40	110	145	27.0	55.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-DDJNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-DDJNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-DDJNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-DDJNR/L22045-11	1764	IDSN-322	2708	1695	4294	5003
	PSC40-DDJNR/L27050-11	1764	IDSN-322	2708	1695	4294	5003
	PSC50-DDJNR/L35060-11	1764	IDSN-322	2708	1695	4294	5003
	PSC63-DDJNR/L45065-11	1764	IDSN-322	2708	1695	4294	5003
	PSC40-DDJNR/L27055-15	1766	IDSN-432	2712	1696	4295	5004
	PSC50-DDJNR/L35060-15	1766	IDSN-432	2712	1696	4295	5004
	PSC63-DDJNR/L45065-15	1766	IDSN-432	2712	1696	4295	5004
	PSC80-DDJNR/L55080-15	1766	IDSN-432	2712	1696	4295	5004

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1104..	11,60	4,76	9,52	DNMA	DNMG-CF
		DN.. 1506..	15,50	6,35	12,70		
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	
							



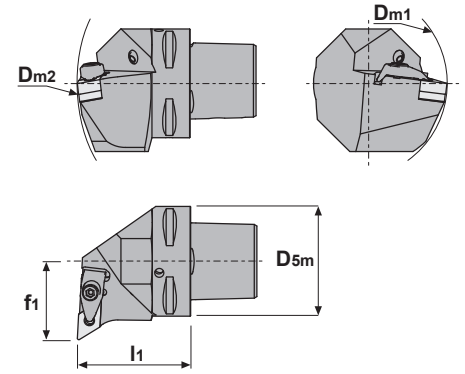
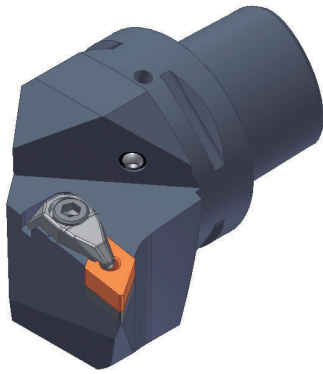
PSC with internal coolant.

		D5m	Dm2 min.	f1	l1	y1)	λs2)	Nm3)	Insert
Ref.	PSC40-DDNNN00050-11	40	140	0.5	50.0	-5°	-9°	1.7	DN.. 1104..
	PSC50-DDNNN00060-11	50	165	0.5	60.0	-5°	-9°	1.7	DN.. 1104..
	PSC40-DDNNN00055-15	40	145	0.5	55.0	-5°	-9°	3.9	DN.. 1506..
	PSC50-DDNNN00060-15	50	165	0.5	60.0	-5°	-9°	3.9	DN.. 1506..
	PSC63-DDNNN00065-15	63	190	0.5	65.0	-5°	-9°	3.9	DN.. 1506..
	PSC80-DDNNN00080-15	80	250	0.5	80.0	-5°	-9°	3.9	DN.. 1506..

- 1) γ = Rake angle (valid a smooth insert).
- 2) λ = Angle of inclination.
- 3) N_m = Insert moment of force.

							
Ref.	PSC40-DDNNN00050-11	1764	IDSN-322	2708	1695	4294	5003
	PSC50-DDNNN00060-11	1764	IDSN-322	2708	1695	4294	5003
	PSC40-DDNNN00055-15	1766	IDSN-432	2712	1696	4295	5004
	PSC50-DDNNN00060-15	1766	IDSN-432	2712	1696	4295	5004
	PSC63-DDNNN00065-15	1766	IDSN-432	2712	1696	4295	5004
	PSC80-DDNNN00080-15	1766	IDSN-432	2712	1696	4295	5004

	DN..				Negative 55° rhombic inserts.			
	Ref.	DN.. 1104..	11,60	4,76	9,52			
		DN.. 1506..	15,50	6,35	12,70			
						DNMA	DNMG-CF	
								
DNMG-CFM		DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX		
								



DDUN 93°



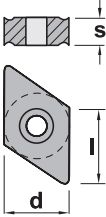
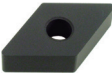
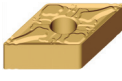
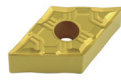
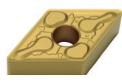
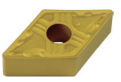
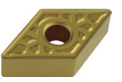
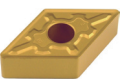
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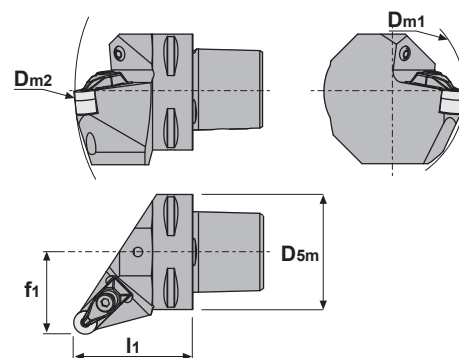
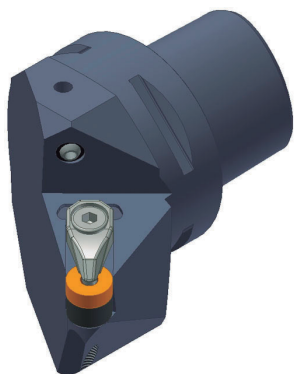
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-DDUNR/L27050-15	40	110	140	27.0	50.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-DDUNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-DDUNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-DDUNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.							
	PSC40-DDUNR/L27050-15	1766	IDSN-432	2712	1696	4295	5004
	PSC50-DDUNR/L35060-15	1766	IDSN-432	2712	1696	4295	5004
	PSC63-DDUNR/L45065-15	1766	IDSN-432	2712	1696	4295	5004
	PSC80-DDUNR/L55080-15	1766	IDSN-432	2712	1696	4295	5004

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1506..	l	s	d	DNMA	DNMG-CF
							
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	
							



DRSN



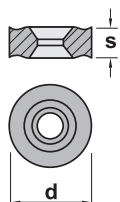
Characteristics:
PSC with internal coolant.

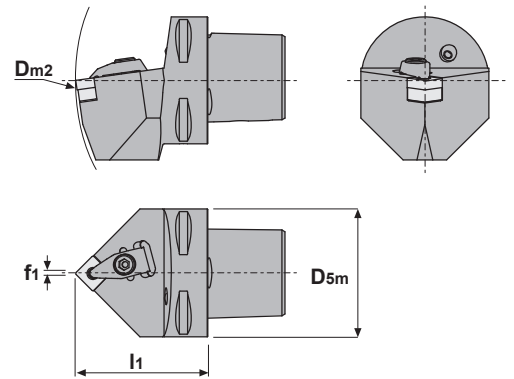
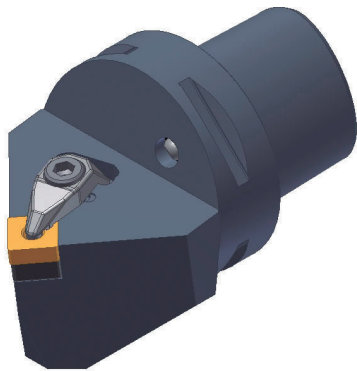
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-DRSNR/L27050-12	40	110	140	27.0	50.0	-6°	-6°	3.9	RNMG 1204..
	PSC50-DRSNR/L35060-12	50	110	165	35.0	60.0	-6°	-6°	3.9	RNMG 1204..
	PSC63-DRSNR/L45065-12	63	110	190	45.0	65.0	-6°	-6°	3.9	RNMG 1204..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-DRSNR/L27050-12	1766	IRSN-44	2712	1696	4295	5004
	PSC50-DRSNR/L35060-12	1766	IRSN-44	2712	1696	4295	5004
	PSC63-DRSNR/L45065-12	1766	IRSN-44	2712	1696	4295	5004

RNMG		s	d	Negative round inserts.		
Ref.	RNMG 1204..	4,76	12,70			
RNMG						
						





DSDN 45°



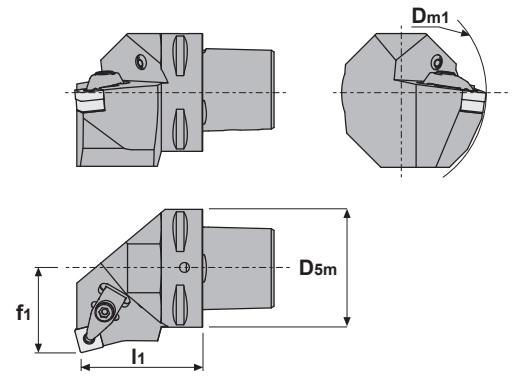
Characteristics:
PSC with internal coolant.

		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-DSDNN00048-12	32	124	0.3	48.0	-6°	-6°	3.9	SNM.. 1204..
	PSC40-DSDNN00050-12	40	140	0.3	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-DSDNN00060-12	50	165	0.3	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-DSDNN00065-12	63	190	0.3	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-DSDNN00060-15	50	165	0.5	60.0	-6°	-6°	6.4	SNM.. 1506..
	PSC63-DSDNN00065-15	63	190	0.5	65.0	-6°	-6°	6.4	SNM.. 1506..
	PSC50-DSDNN00065-19	50	170	0.5	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-DSDNN00070-19	63	195	0.5	70.0	-6°	-6°	6.4	SNM.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

							
Ref.	PSC32-DSDNN00048-12	1766	ISSN-442	2712	1696	4295	5004
	PSC40-DSDNN00050-12	1766	ISSN-442	2712	1696	4295	5004
	PSC50-DSDNN00060-12	1766	ISSN-442	2712	1696	4295	5004
	PSC63-DSDNN00065-12	1766	ISSN-442	2712	1696	4295	5004
	PSC50-DSDNN00060-15	1768	ISSN-533	2716	1696	4295	5004
	PSC63-DSDNN00065-15	1768	ISSN-533	2716	1696	4295	5004
	PSC50-DSDNN00065-19	1770	ISSN-633	2719	1696	4295	5004
	PSC63-DSDNN00070-19	1770	ISSN-633	2719	1696	4295	5004

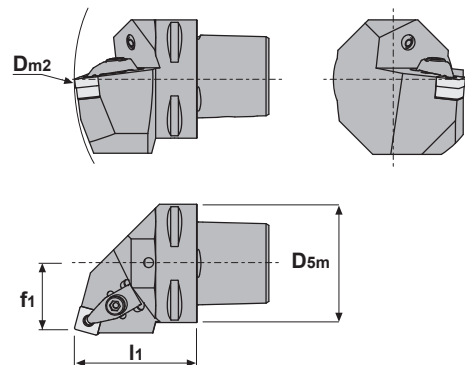
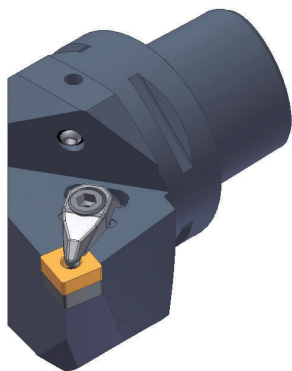
Ref.	SNM..	l		s	d	Negative square inserts.	
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
		SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR	SNMM	
							



PSC with internal coolant.

- 1) γ = Rake angle (valid a smooth insert).
- 2) λ_s = Angle of inclination.
- 3) N_m = Insert moment of force.





DSRN 75°

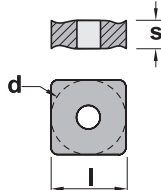


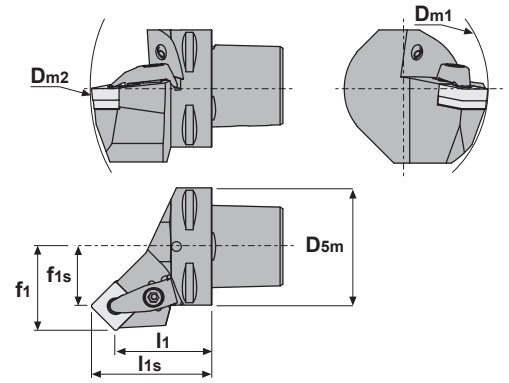
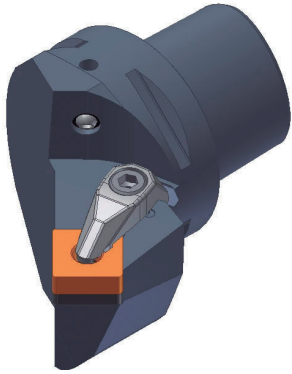
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-DSRNR/L19048-12	32	124	19.0	48.0	-6°	-6°	3.9	SNM.. 1204..
	PSC40-DSRNR/L22050-12	40	140	22.0	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-DSRNR/L27060-12	50	165	27.0	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-DSRNR/L35065-12	63	190	35.0	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-DSRNR/L27060-15	50	165	27.0	60.0	-6°	-6°	6.4	SNM.. 1506..
	PSC63-DSRNR/L35065-15	63	190	35.0	65.0	-6°	-6°	6.4	SNM.. 1506..
	PSC50-DSRNR/L27060-19	50	165	27.0	60.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-DSRNR/L35065-19	63	190	35.0	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC80-DSRNR/L45080-19	80	250	45.0	80.0	-6°	-6°	6.4	SNM.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-DSRNR/L19048-12	1766	ISSN-442	2712	1696	4295	5004
	PSC40-DSRNR/L22050-12	1766	ISSN-442	2712	1696	4295	5004
	PSC50-DSRNR/L27060-12	1766	ISSN-442	2712	1696	4295	5004
	PSC63-DSRNR/L35065-12	1766	ISSN-442	2712	1696	4295	5004
	PSC50-DSRNR/L27060-15	1768	ISSN-533	2716	1696	4295	5004
	PSC63-DSRNR/L35065-15	1768	ISSN-533	2716	1696	4295	5004
	PSC50-DSRNR/L27060-19	1770	ISSN-633	2719	1696	4295	5004
	PSC63-DSRNR/L35065-19	1770	ISSN-633	2719	1696	4295	5004
	PSC80-DSRNR/L45080-19	1770	ISSN-633	2719	1696	4295	5004

	SNM..				Negative square inserts.						
	Ref.	SNM.. 1204..	12,70	4,76				12,70			
		SNM.. 1506..	15,88	6,35				15,88			
		SNM.. 1906..	19,05	6,35				19,05			
					SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR	SNMM		
											



DSSN 45°



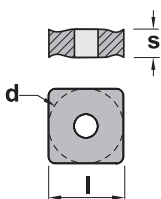
Characteristics:
PSC with internal coolant.

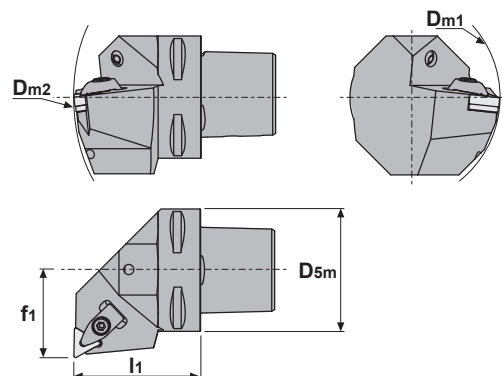
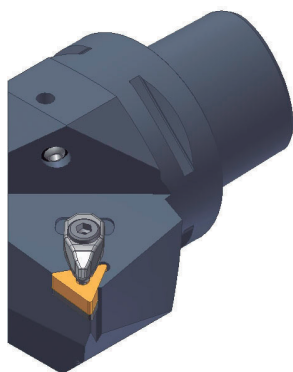
		D5m	Dm1 min.	Dm2 min.	f1	f1s	l1	l1s	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-DSSNR/L22040-12	32	60	124	22.0	13.7	40.0	48.3	-8°	0°	3.9	SNM.. 1204..
	PSC40-DSSNR/L27042-12	40	110	140	27.0	18.7	42.0	50.3	-8°	0°	3.9	SNM.. 1204..
	PSC50-DSSNR/L35052-12	50	110	165	35.0	26.7	52.0	60.3	-8°	0°	3.9	SNM.. 1204..
	PSC63-DSSNR/L45056-12	63	110	190	45.0	36.7	56.0	64.3	-8°	0°	3.9	SNM.. 1204..
	PSC40-DSSNR/L27045-15	40	125	145	27.0	16.8	45.0	55.2	-8°	0°	6.4	SNM.. 1506..
	PSC50-DSSNR/L35050-15	50	125	165	35.0	24.8	50.0	60.2	-8°	0°	6.4	SNM.. 1506..
	PSC63-DSSNR/L45054-15	63	125	190	45.0	34.8	54.0	64.2	-8°	0°	6.4	SNM.. 1506..
	PSC50-DSSNR/L35048-19	50	125	165	35.0	22.5	48.0	60.5	-8°	0°	6.4	SNM.. 1906..
	PSC63-DSSNR/L45052-19	63	125	190	45.0	32.5	52.0	64.5	-8°	0°	6.4	SNM.. 1906..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

							
Ref.	PSC32-DSSNR/L22040-12	1766	ISSN-442	2712	1696	4295	5004
	PSC40-DSSNR/L27042-12	1766	ISSN-442	2712	1696	4295	5004
	PSC50-DSSNR/L35052-12	1766	ISSN-442	2712	1696	4295	5004
	PSC63-DSSNR/L45056-12	1766	ISSN-442	2712	1696	4295	5004
	PSC40-DSSNR/L27045-15	1768	ISSN-533	2716	1696	4295	5004
	PSC50-DSSNR/L35050-15	1768	ISSN-533	2716	1696	4295	5004
	PSC63-DSSNR/L45054-15	1768	ISSN-533	2716	1696	4295	5004
	PSC50-DSSNR/L35048-19	1770	ISSN-633	2719	1696	4295	5004
	PSC63-DSSNR/L45052-19	1770	ISSN-633	2719	1696	4295	5004

Ref.	SNM..	l	s	d	Negative square inserts.		
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
					SNMA	SNMG-CFM	SNMG-CMR
					SNMG-CR	SNMM	
							
							





DTFN 90°



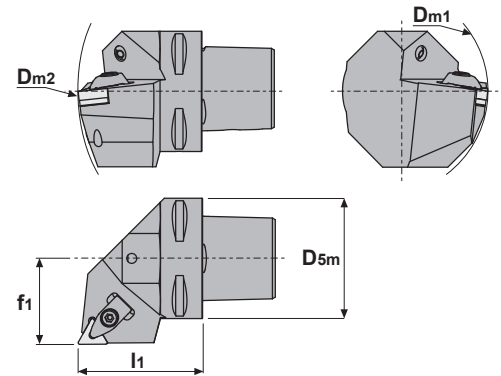
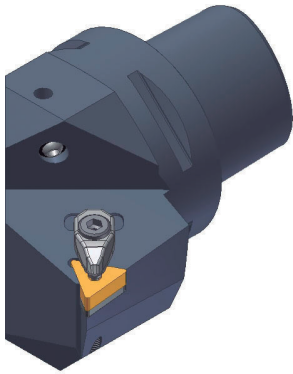
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-DTFNR/L22040-16	32	60	116	22.0	40.0	-6°	-6°	1.7	TNM.. 1604..
	PSC40-DTFNR/L27050-16	40	110	140	27.0	50.0	-6°	-6°	1.7	TNM.. 1604..
	PSC50-DTFNR/L35060-16	50	110	165	35.0	60.0	-6°	-6°	1.7	TNM.. 1604..
	PSC63-DTFNR/L45065-16	63	110	190	45.0	65.0	-6°	-6°	1.7	TNM.. 1604..
	PSC40-DTFNR/L27050-22	40	110	140	27.0	50.0	-6°	-6°	3.9	TNM.. 2204..
	PSC50-DTFNR/L35060-22	50	110	165	35.0	60.0	-6°	-6°	3.9	TNM.. 2204..
	PSC63-DTFNR/L45065-22	63	110	190	45.0	65.0	-6°	-6°	3.9	TNM.. 2204..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-DTFNR/L22040-16	1764	ITSN-342	2708	1695	4294	5003
	PSC40-DTFNR/L27050-16	1764	ITSN-342	2708	1695	4294	5003
	PSC50-DTFNR/L35060-16	1764	ITSN-342	2708	1695	4294	5003
	PSC63-DTFNR/L45065-16	1764	ITSN-342	2708	1695	4294	5003
	PSC40-DTFNR/L27050-22	1766	ITSN-442	2712	1696	4295	5004
	PSC50-DTFNR/L35060-22	1766	ITSN-442	2712	1696	4295	5004
	PSC63-DTFNR/L45065-22	1766	ITSN-442	2712	1696	4295	5004

	TNM..				Negative triangular inserts.			
	Ref.	TNM.. 1604..	16,50	4,76	9,52	TNMA	TNMG-CF	TNMG-CFC
		TNM.. 2204..	22,00	4,76	12,70			
	TNMG-CFM	TNMG-CM	TNMG-CMC	TNMG-CMF	TNMG-CMR	TNMG-CS	TNMX R/L	



Characteristics:

PSC with internal coolant.

[illegible]

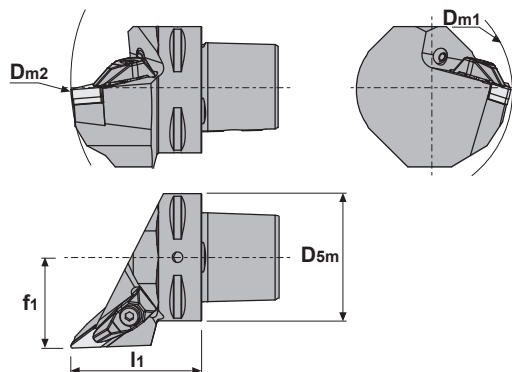
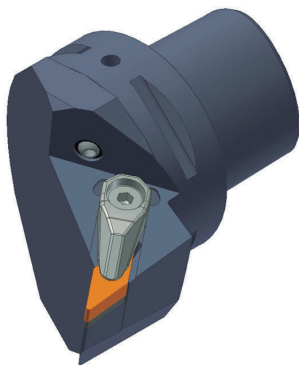
1) γ = Rake angle (valid a smooth insert).

2) λ_s = Angle of inclination.

3) N_m = Insert moment of force.

							
Ref.							
	PSC40-DTGNR/L27050-16	1764	ITSN-342	2708	1695	4294	5003
	PSC50-DTGNR/L35060-16	1764	ITSN-342	2708	1695	4294	5003
	PSC63-DTGNR/L45065-16	1764	ITSN-342	2708	1695	4294	5003
	PSC40-DTGNR/L27050-22	1766	ITSN-442	2712	1696	4295	5004
	PSC50-DTGNR/L35060-22	1766	ITSN-442	2712	1696	4295	5004
	PSC63-DTGNR/L45065-22	1766	ITSN-442	2712	1696	4295	5004

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



DVJN 93°



Characteristics:

PSC with internal coolant.

		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-DVJNR/L27062-16	40	60	152	27.0	62.0	-4°	-13°	3.0	VN.. 1604..
	PSC50-DVJNR/L35065-16	50	65	170	35.0	65.0	-4°	-13°	3.0	VN.. 1604..
	PSC63-DVJNR/L45065-16	63	81	190	45.0	65.0	-4°	-13°	3.0	VN.. 1604..
	PSC80-DVJNR/L55080-16	80	100	250	55.0	80.0	-4°	-13°	3.0	VN.. 1604..

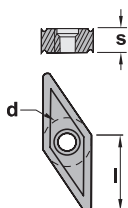
1) y= Rake angle (valid a smooth insert).

2) λs= Angle of inclination.

3) Nm= Insert moment of force.



Ref.							
PSC40-DVJNR/L27062-16	1764	IVSN-322	2708	1695	4294	5003	
PSC50-DVJNR/L35065-16	1764	IVSN-322	2708	1695	4294	5003	
PSC63-DVJNR/L45065-16	1764	IVSN-322	2708	1695	4294	5003	
PSC80-DVJNR/L55080-16	1764	IVSN-322	2708	1695	4294	5003	



VN..

l

s

d

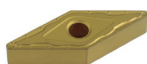
Ref.	VN.. 1604..	16,50	4,76	9,52
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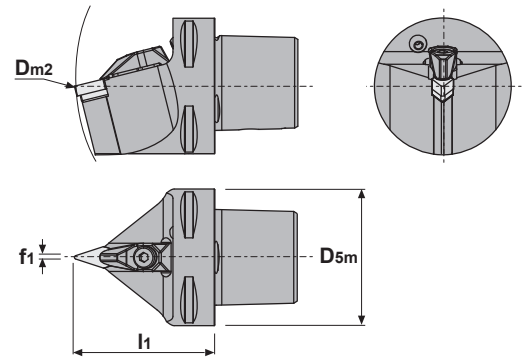
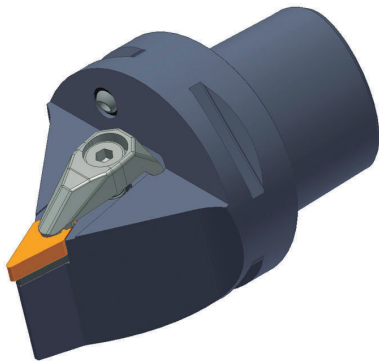
Negative 35° rhombic inserts.

VNGP

VNMG

VNMG-CMC





Characteristics:

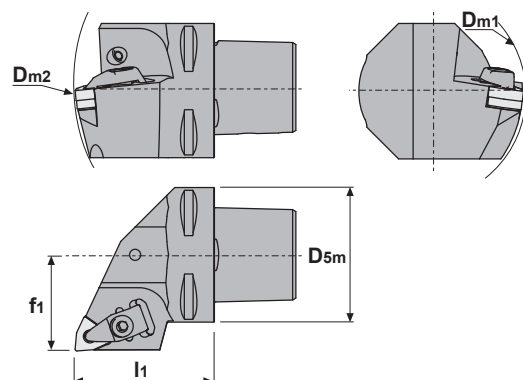
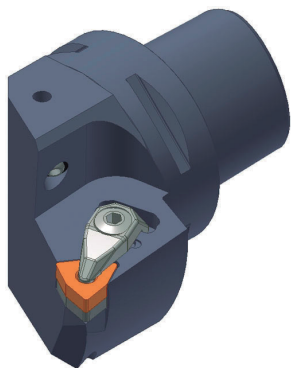
PSC with internal coolant.

		D5m	Dm2 min.	f1	l1	y1)	λs2)	Nm3)	Insert
Ref.	PSC40-DVVNN00062-16	40	152	0.6	62.0	-4°	-13°	3.0	VN.. 1604..
	PSC50-DVVNN00065-16	50	170	0.6	65.0	-4°	-13°	3.0	VN.. 1604..
	PSC63-DVVNN00065-16	63	190	0.6	65.0	-4°	-13°	3.0	VN.. 1604..
	PSC80-DVVNN00080-16	80	250	0.6	80.0	-4°	-13°	3.0	VN.. 1604..

- 1) γ = Rake angle (valid a smooth insert).
- 2) λ_s = Angle of inclination.
- 3) N_m = Insert moment of force.

							
Ref.		1764	IVSN-322	2708	1695	4294	5003
	PSC40-DVVNN00062-16	1764	IVSN-322	2708	1695	4294	5003
	PSC50-DVVNN00065-16	1764	IVSN-322	2708	1695	4294	5003
	PSC63-DVVNN00065-16	1764	IVSN-322	2708	1695	4294	5003
	PSC80-DVVNN00080-16	1764	IVSN-322	2708	1695	4294	5003

	VN..			Negative 35° rhombic inserts.			
	Ref.	l	s				d
	VN.. 1604..	16,50	4,76				9,52
	VNGP	VNMG	VNMG-CMC				
							



DWLN 95°

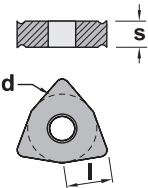


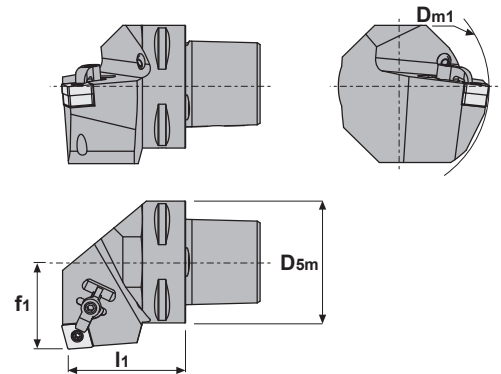
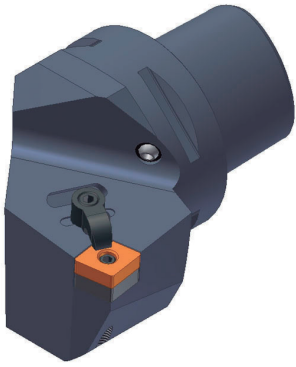
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-DWLN/L22040-06	32	60	116	22.0	40.0	-6°	-6°	1.7	WNMG 0604..
	PSC40-DWLN/L27050-06	40	60	140	27.0	50.0	-6°	-6°	1.7	WNMG 0604..
	PSC50-DWLN/L35060-06	50	65	165	35.0	60.0	-6°	-6°	1.7	WNMG 0604..
	PSC63-DWLN/L45065-06	63	81	190	45.0	65.0	-6°	-6°	1.7	WNMG 0604..
	PSC40-DWLN/L27050-08	40	110	140	27.0	50.0	-6°	-6°	3.9	WNMG 0804..
	PSC50-DWLN/L35060-08	50	110	165	35.0	60.0	-6°	-6°	3.9	WNMG 0804..
	PSC63-DWLN/L45065-08	63	110	190	45.0	65.0	-6°	-6°	3.9	WNMG 0804..
	PSC80-DWLN/L55080-08	80	110	250	55.0	80.0	-6°	-6°	3.9	WNMG 0804..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-DWLN/L22040-06	1764	IWSN-323	2708	1695	4294	5003
	PSC40-DWLN/L27050-06	1764	IWSN-323	2708	1695	4294	5003
	PSC50-DWLN/L35060-06	1764	IWSN-323	2708	1695	4294	5003
	PSC63-DWLN/L45065-06	1764	IWSN-323	2708	1695	4294	5003
	PSC40-DWLN/L27050-08	1766	IWSN-433	2712	1696	4295	5004
	PSC50-DWLN/L35060-08	1766	IWSN-433	2712	1696	4295	5004
	PSC63-DWLN/L45065-08	1766	IWSN-433	2712	1696	4295	5004
	PSC80-DWLN/L55080-08	1766	IWSN-433	2712	1696	4295	5004

	WNMG				Negative 80° trigon inserts.		
	Ref.	WNMG 0604..	WNMG 0804..				
		6,45	8,14				
	WNMG-CF	WNMG-CFM	WNMG-CM	WNMG-CMC	WNMG-CMF	WNMG-CMR	WNMG-CS
							



MCKN 75°

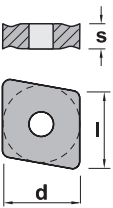


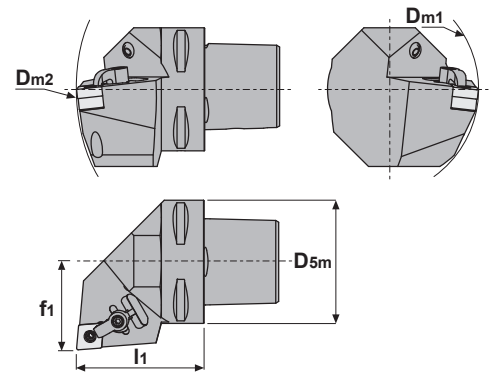
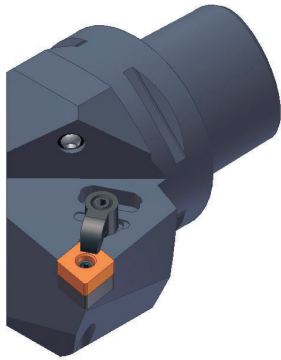
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-MCKNR/L27050-12	40	110	27.0	50.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-MCKNR/L35060-12	50	110	35.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-MCKNR/L45065-12	63	110	45.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC40-MCKNR/L27050-16	40	125	27.0	50.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-MCKNR/L35060-16	50	125	35.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-MCKNR/L45065-16	63	125	45.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-MCKNR/L45065-19	63	125	45.0	65.0	-6°	-6°	6.4	CN.. 1906..
	PSC80-MCKNR/L55080-19	80	125	55.0	80.0	-6°	-6°	6.4	CN.. 1906..

1) γ= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-MCKNR/L27050-12	2613	1086	5003	ICSN-442	1657	5025
	PSC50-MCKNR/L35060-12	2613	1086	5003	ICSN-442	1657	5025
	PSC63-MCKNR/L45065-12	2613	1086	5003	ICSN-442	1657	5025
	PSC40-MCKNR/L27050-16	2614	1086	5003	ICSN-533	1673	5003
	PSC50-MCKNR/L35060-16	2614	1086	5003	ICSN-533	1673	5003
	PSC63-MCKNR/L45065-16	2614	1086	5003	ICSN-533	1673	5003
	PSC63-MCKNR/L45065-19	2614	1086	5003	ICSN-633	1674	5004
	PSC80-MCKNR/L55080-19	2614	1086	5003	ICSN-633	1674	5004

	CN..				Negative 80° rhombic inserts.				
	Ref.	CN.. 1204..	12,90	4,76	12,70	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
		CN.. 1606..	16,10	6,35	15,88				
		CN.. 1906..	19,30	6,35	19,05				
	CNGP	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMM	
									



MCLN 95°



Characteristics:

PSC with internal coolant.

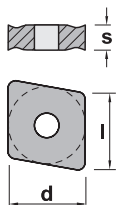
Ref.		D5m	Dm1 min.4)	Dm2 min.4)	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-MCLNR/L22040-09	32	60	116	22.0	40.0	-6°	-6°	1.7	CN.. 0903..
	PSC40-MCLNR/L27050-09	40	60	140	27.0	50.0	-6°	-6°	1.7	CN.. 0903..
	PSC32-MCLNR/L22045-12	32	60	121	22.0	45.0	-6°	-6°	3.9	CN.. 1204..
	PSC40-MCLNR/L27050-12	40	110	140	27.0	50.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-MCLNR/L35060-12	50	110	165	35.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-MCLNR/L45065-12	63	110	190	45.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC80-MCLNR/L55080-12	80	110	250	55.0	80.0	-6°	-6°	3.9	CN.. 1204..
	PSC40-MCLNR/L27055-16	40	125	145	27.0	55.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-MCLNR/L35060-16	50	125	165	35.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-MCLNR/L45065-16	63	125	190	45.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC80-MCLNR/L55080-16	80	125	250	55.0	80.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-MCLNR/L35060-19	50	125	165	35.0	60.0	-6°	-6°	6.4	CN.. 1906..
	PSC63-MCLNR/L45065-19	63	125	190	45.0	65.0	-6°	-6°	6.4	CN.. 1906..
	PSC80-MCLNR/L55080-19	80	125	250	55.0	80.0	-6°	-6°	6.4	CN.. 1906..

1) y= Rake angle (valid a smooth insert).

2) λs= Angle of inclination.

3) Nm= Insert moment of force.

Ref.							
	PSC32-MCLNR/L22040-09	2604	1085	5025	ICSN-332	1665	5002
	PSC40-MCLNR/L27050-09	2604	1085	5025	ICSN-332	1665	5002
	PSC32-MCLNR/L22045-12	2613	1086	5003	ICSN-442	1657	5025
	PSC40-MCLNR/L27050-12	2613	1086	5003	ICSN-442	1657	5025
	PSC50-MCLNR/L35060-12	2613	1086	5003	ICSN-442	1657	5025
	PSC63-MCLNR/L45065-12	2613	1086	5003	ICSN-442	1657	5025
	PSC80-MCLNR/L55080-12	2613	1086	5003	ICSN-442	1657	5025
	PSC40-MCLNR/L27055-16	2614	1086	5003	ICSN-533	1673	5003
	PSC50-MCLNR/L35060-16	2614	1086	5003	ICSN-533	1673	5003
	PSC63-MCLNR/L45065-16	2614	1086	5003	ICSN-533	1673	5003
	PSC80-MCLNR/L55080-16	2614	1086	5003	ICSN-533	1673	5003
	PSC50-MCLNR/L35060-19	2614	1086	5003	ICSN-633	1674	5004
	PSC63-MCLNR/L45065-19	2614	1086	5003	ICSN-633	1674	5004
	PSC80-MCLNR/L55080-19	2614	1086	5003	ICSN-633	1674	5004

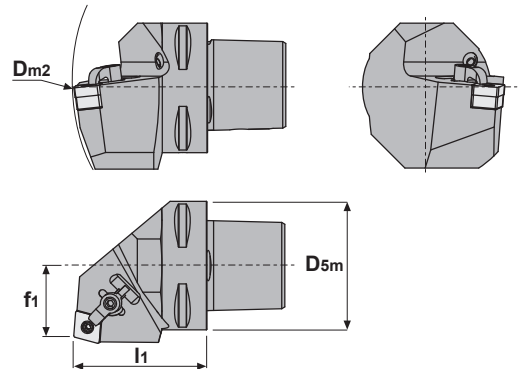
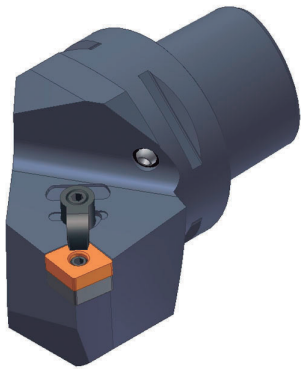


CN..

Ref.	CN..	l	s	d
	CN.. 0903..	9,65	3,18	9,52
	CN.. 1204..	12,90	4,76	12,70
	CN.. 1606..	16,10	6,35	15,88
	CN.. 1906..	19,30	6,35	19,05

Negative 80° rhombic inserts.

CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
			
CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMM
			



MCRN 75°



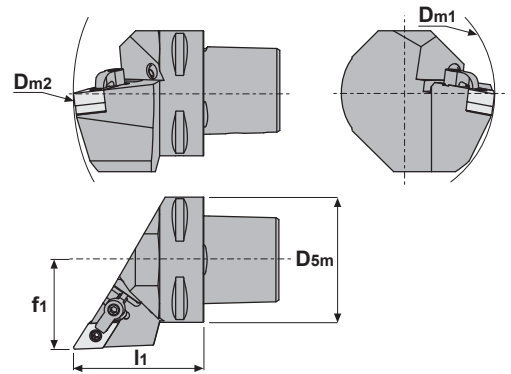
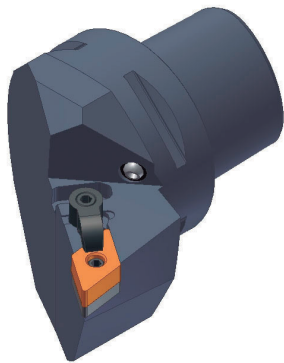
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-MCRNR/L22050-12	40	140	22.0	50.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-MCRNR/L27060-12	50	165	27.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-MCRNR/L35065-12	63	190	35.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-MCRNR/L27060-16	50	165	27.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-MCRNR/L35065-16	63	190	35.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC80-MCRNR/L55080-16	80	250	55.0	80.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-MCRNR/L27060-19	50	165	27.0	60.0	-6°	-6°	6.4	CN.. 1906..
	PSC63-MCRNR/L35065-19	63	190	35.0	65.0	-6°	-6°	6.4	CN.. 1906..
	PSC80-MCRNR/L55080-19	80	250	55.0	80.0	-6°	-6°	6.4	CN.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-MCRNR/L22050-12	2613	1086	5003	ICSN-442	1657	5025
	PSC50-MCRNR/L27060-12	2613	1086	5003	ICSN-442	1657	5025
	PSC63-MCRNR/L35065-12	2613	1086	5003	ICSN-442	1657	5025
	PSC50-MCRNR/L27060-16	2614	1086	5003	ICSN-533	1673	5003
	PSC63-MCRNR/L35065-16	2614	1086	5003	ICSN-533	1673	5003
	PSC80-MCRNR/L55080-16	2614	1086	5003	ICSN-533	1673	5003
	PSC50-MCRNR/L27060-19	2614	1086	5003	ICSN-633	1674	5004
	PSC63-MCRNR/L35065-19	2614	1086	5003	ICSN-633	1674	5004
	PSC80-MCRNR/L55080-19	2614	1086	5003	ICSN-633	1674	5004

	CN..				Negative 80° rhombic inserts.			
	Ref.	CN.. 1204..	CN.. 1606..	CN.. 1906..	l	s	d	
					12,90	4,76	12,70	CNMG-CF
					16,10	6,35	15,88	CNMG-CM
					19,30	6,35	19,05	CNMG-CR
								CNMG-CS
								CNMG-CF
								CNMG-CM
	CNGP	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMG-CR
								CNMG-CS
								CNMG-CF
								CNMG-CM



MDJN 93°



Characteristics:

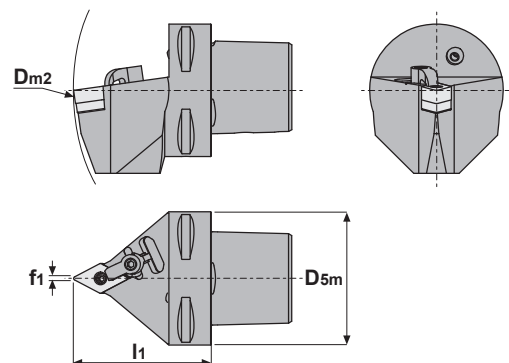
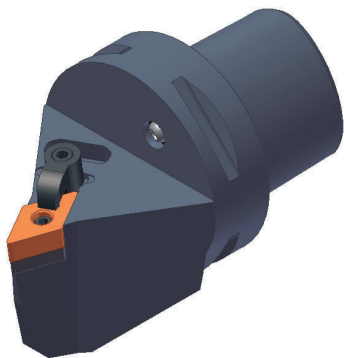
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-MDJNR/L22045-11	32	60	121	22.0	45.0	-6°	-7°	1.7	DN.. 1104..
	PSC40-MDJNR/L27050-11	40	60	140	27.0	50.0	-6°	-7°	1.7	DN.. 1104..
	PSC50-MDJNR/L35060-11	50	65	165	35.0	60.0	-6°	-7°	1.7	DN.. 1104..
	PSC63-MDJNR/L45065-11	63	81	190	45.0	65.0	-6°	-7°	1.7	DN.. 1104..
	PSC40-MDJNR/L27055-15	40	110	145	27.0	55.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-MDJNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-MDJNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-MDJNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-MDJNR/L22045-11	2604	1085	5025	IDSN-322	1665	5002
	PSC40-MDJNR/L27050-11	2604	1085	5025	IDSN-322	1665	5002
	PSC50-MDJNR/L35060-11	2604	1085	5025	IDSN-322	1665	5002
	PSC63-MDJNR/L45065-11	2604	1085	5025	IDSN-322	1665	5002
	PSC40-MDJNR/L27055-15	2613	1086	5003	IDSN-432	1657	5025
	PSC50-MDJNR/L35060-15	2613	1086	5003	IDSN-432	1657	5025
	PSC63-MDJNR/L45065-15	2613	1086	5003	IDSN-432	1657	5025
	PSC80-MDJNR/L55080-15	2613	1086	5003	IDSN-432	1657	5025

Ref.	DN..	I				d		Negative 55° rhombic inserts.		
	DN.. 1104..	11,60	4,76	9,52				DNMA	DNMG-CF	
	DN.. 1506..	15,50	6,35	12,70				DNMG-CS	DNMX	



MDNN 63°

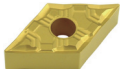
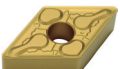
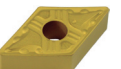
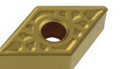
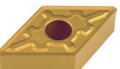


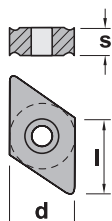
Characteristics:
PSC with internal coolant.

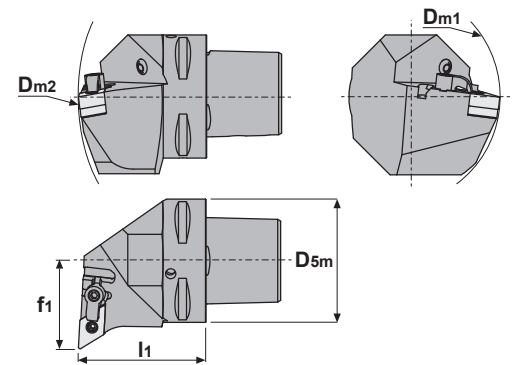
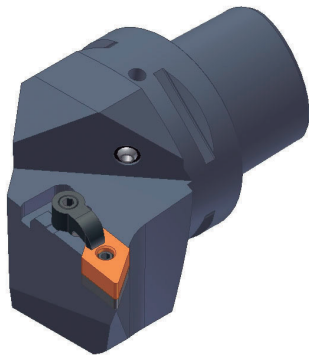
Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-MDNNN00050-11	40	140	0.5	50.0	-5°	-9°	1.7	DN.. 1104..
	PSC50-MDNNN00060-11	50	165	0.5	60.0	-5°	-9°	1.7	DN.. 1104..
	PSC40-MDNNN00055-15	40	145	0.5	55.0	-5°	-9°	3.9	DN.. 1506..
	PSC50-MDNNN00060-15	50	165	0.5	60.0	-5°	-9°	3.9	DN.. 1506..
	PSC63-MDNNN00065-15	63	190	0.5	65.0	-5°	-9°	3.9	DN.. 1506..
	PSC80-MDNNN00080-15	80	250	0.5	80.0	-5°	-9°	3.9	DN.. 1506..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-MDNNN00050-11	2604	1085	5025	IDSN-322	1665	5002
	PSC50-MDNNN00060-11	2604	1085	5025	IDSN-322	1665	5002
	PSC40-MDNNN00055-15	2613	1086	5003	IDSN-432	1657	5025
	PSC50-MDNNN00060-15	2613	1086	5003	IDSN-432	1657	5025
	PSC63-MDNNN00065-15	2613	1086	5003	IDSN-432	1657	5025
	PSC80-MDNNN00080-15	2613	1086	5003	IDSN-432	1657	5025

DN..		l	s	d	Negative 55° rhombic inserts.		
Ref.	DN.. 1104..	11,60	4,76	9,52	DNMA	DNMG-CF	
	DN.. 1506..	15,50	6,35	12,70			
DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX		
							





MDUN 93°



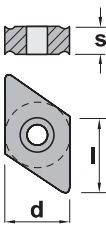
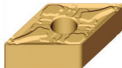
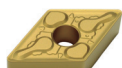
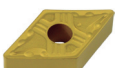
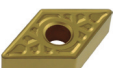
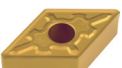
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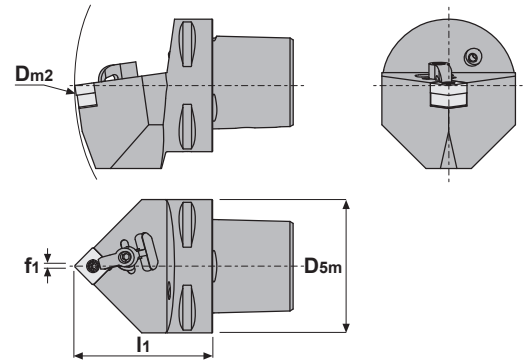
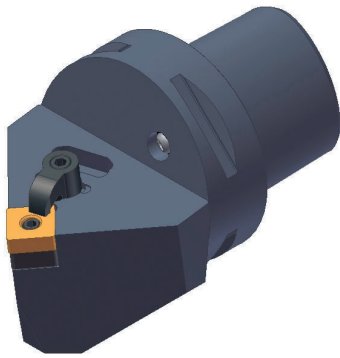
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-MDUNR/L27050-15	40	110	140	27.0	50.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-MDUNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-MDUNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-MDUNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.							
	PSC40-MDUNR/L27050-15	2613	1086	5003	IDSN-432	1657	5025
	PSC50-MDUNR/L35060-15	2613	1086	5003	IDSN-432	1657	5025
	PSC63-MDUNR/L45065-15	2613	1086	5003	IDSN-432	1657	5025
	PSC80-MDUNR/L55080-15	2613	1086	5003	IDSN-432	1657	5025

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1506..	l	s	d	DNMA	DNMG-CF
							
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	
							



MSDN 45°

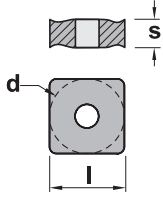


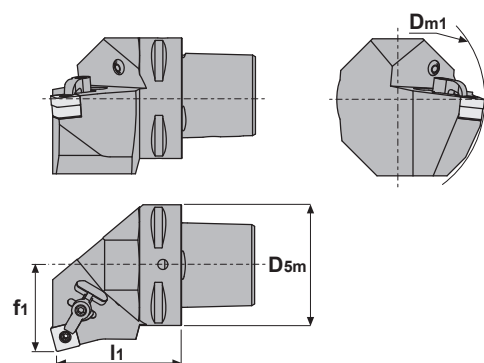
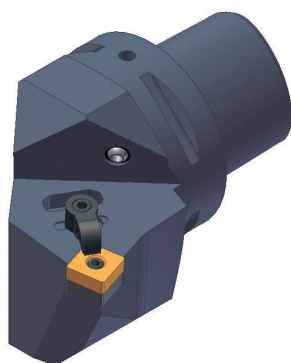
Characteristics:
PSC with internal coolant.

		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-MSDNN00048-12	32	124	0.3	48.0	-6°	-6°	3.9	SNM.. 1204..
	PSC40-MSDNN00050-12	40	140	0.3	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-MSDNN00060-12	50	165	0.3	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-MSDNN00065-12	63	190	0.3	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-MSDNN00060-15	50	165	0.5	60.0	-6°	-6°	6.4	SNM.. 1508..
	PSC63-MSDNN00065-15	63	190	0.5	65.0	-6°	-6°	6.4	SNM.. 1508..
	PSC50-MSDNN00065-19	50	170	0.5	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-MSDNN00070-19	63	195	0.5	70.0	-6°	-6°	6.4	SNM.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.	PSC32-MSDNN00048-12	2613	1086	5003	ISSN-442	1657	5025
	PSC40-MSDNN00050-12	2613	1086	5003	ISSN-442	1657	5025
	PSC50-MSDNN00060-12	2613	1086	5003	ISSN-442	1657	5025
	PSC63-MSDNN00065-12	2613	1086	5003	ISSN-442	1657	5025
	PSC50-MSDNN00060-15	2614	1086	5003	ISSN-533	1673	5003
	PSC63-MSDNN00065-15	2614	1086	5003	ISSN-533	1673	5003
	PSC50-MSDNN00065-19	2614	1086	5003	ISSN-633	1674	5004
	PSC63-MSDNN00070-19	2614	1086	5003	ISSN-633	1674	5004

	SNM..				Negative square inserts.			
	Ref.	SNM.. 1204..	12,70	4,76				12,70
		SNM.. 1506..	15,88	6,35				15,88
		SNM.. 1906..	19,05	6,35				19,05
	SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR	SNMM			
								



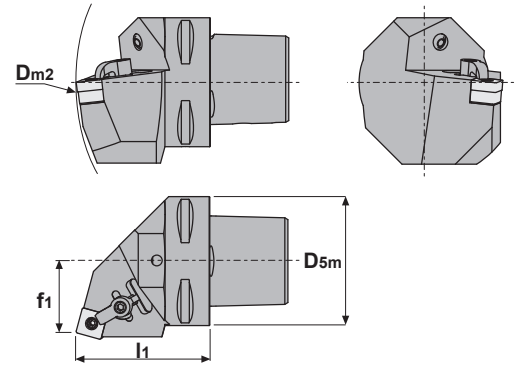
PSC with internal coolant.

MSKN 75°		PSC with internal coolant							
		D5m	Dm1 min.	f1	l1	y1)	λs2)	Nm3)	Insert
Ref.	PSC32-MSKNR/L22040-12	32	60	22.0	40.0	-6°	-6°	3.9	SNM.. 1204..
	PSC40-MSKNR/L27050-12	40	110	27.0	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-MSKNR/L35060-12	50	110	35.0	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-MSKNR/L45065-12	63	110	45.0	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-MSKNR/L35060-15	50	125	35.0	60.0	-6°	-6°	6.4	SNM..1506..
	PSC63-MSKNR/L45065-15	63	125	45.0	65.0	-6°	-6°	6.4	SNM..1506..
	PSC50-MSKNR/L35060-19	50	125	35.0	60.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-MSKNR/L45065-19	63	125	45.0	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC80-MSKNR/L55080-19	80	125	55.0	80.0	-6°	-6°	6.4	SNM.. 1906..

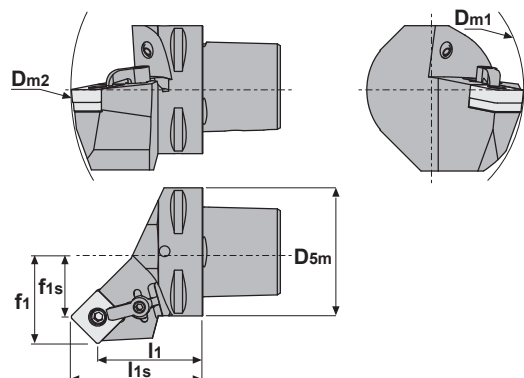
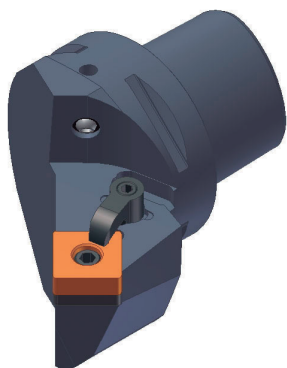
3) N_m = Insert moment of force.

							
Ref.	PSC32-MSKNR/L22040-12	2613	1086	5003	ISSN-442	1657	5025
	PSC40-MSKNR/L27050-12	2613	1086	5003	ISSN-442	1657	5025
	PSC50-MSKNR/L35060-12	2613	1086	5003	ISSN-442	1657	5025
	PSC63-MSKNR/L45065-12	2613	1086	5003	ISSN-442	1657	5025
	PSC50-MSKNR/L35060-15	2614	1086	5003	ISSN-533	1673	5003
	PSC63-MSKNR/L45065-15	2614	1086	5003	ISSN-533	1673	5003
	PSC50-MSKNR/L35060-19	2614	1086	5003	ISSN-633	1674	5004
PSC63-MSKNR/L45065-19	2614	1086	5003	ISSN-633	1674	5004	
PSC80-MSKNR/L55080-19	2614	1086	5003	ISSN-633	1674	5004	

SNM..		l	s	d	Negative square inserts.		
Ref.							
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
					SNMA	SNMG-CFM	SNMG-CMR
					SNMG-CR	SNMM	
							
							



- 1) γ = Rake angle (valid a smooth insert).
- 2) λ_s = Angle of inclination.
- 3) N_m = Insert moment of force.



MSSN 45°



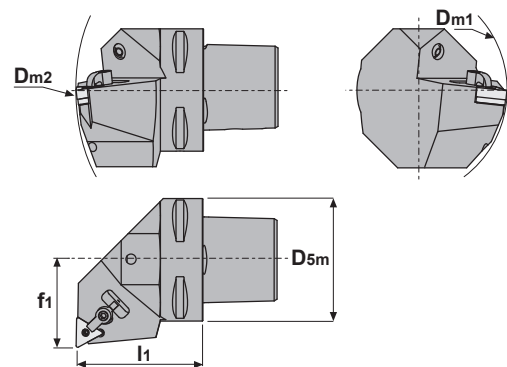
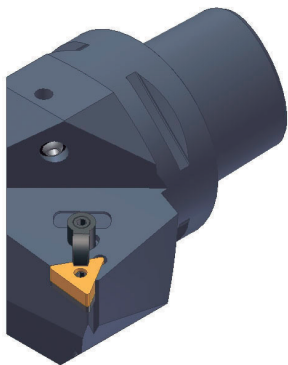
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	f1s	l1	l1s	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-MSSNR/L22040-12	32	60	124	22.0	13.7	40.0	48.3	-8°	0°	3.9	SNM.. 1204..
	PSC40-MSSNR/L27042-12	40	110	140	27.0	18.7	42.0	50.3	-8°	0°	3.9	SNM.. 1204..
	PSC50-MSSNR/L35052-12	50	110	165	35.0	26.7	52.0	60.3	-8°	0°	3.9	SNM.. 1204..
	PSC63-MSSNR/L45056-12	63	110	190	45.0	36.7	56.0	64.3	-8°	0°	3.9	SNM.. 1204..
	PSC40-MSSNR/L27045-15	40	125	145	27.0	16.8	45.0	55.2	-8°	0°	6.4	SNM.. 1506..
	PSC50-MSSNR/L35050-15	50	125	165	35.0	24.8	50.0	60.2	-8°	0°	6.4	SNM.. 1506..
	PSC63-MSSNR/L45054-15	63	125	190	45.0	34.8	54.0	64.2	-8°	0°	6.4	SNM.. 1506..
	PSC50-MSSNR/L35048-19	50	125	165	35.0	22.5	48.0	60.5	-8°	0°	6.4	SNM.. 1906..
	PSC63-MSSNR/L45052-19	63	125	190	45.0	32.5	52.0	64.5	-8°	0°	6.4	SNM.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-MSSNR/L22040-12	2613	1086	5003	ISSN-442	1657	5025
	PSC40-MSSNR/L27042-12	2613	1086	5003	ISSN-442	1657	5025
	PSC50-MSSNR/L35052-12	2613	1086	5003	ISSN-442	1657	5025
	PSC63-MSSNR/L45056-12	2613	1086	5003	ISSN-442	1657	5025
	PSC40-MSSNR/L27045-15	2614	1086	5003	ISSN-533	1673	5003
	PSC50-MSSNR/L35050-15	2614	1086	5003	ISSN-533	1673	5003
	PSC63-MSSNR/L45054-15	2614	1086	5003	ISSN-533	1673	5003
	PSC50-MSSNR/L35048-19	2614	1086	5003	ISSN-633	1674	5004
	PSC63-MSSNR/L45052-19	2614	1086	5003	ISSN-633	1674	5004

Ref.	SNM..	l	s	d	Negative square inserts.		
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR	SNMM			



MTFN 90°



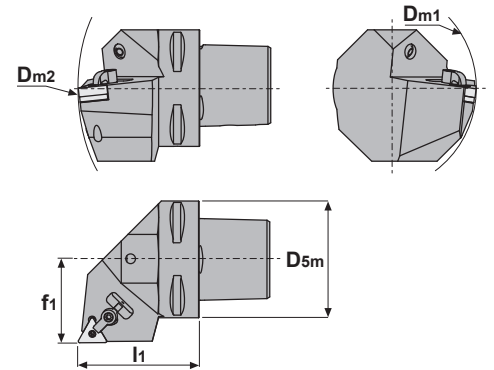
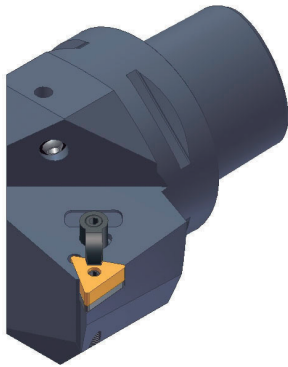
Characteristics:
PSC with internal coolant.

		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-MTFNR/L22040-16	32	60	116	22.0	40.0	-6°	-6°	1.7	TNM.. 1604..
	PSC40-MTFNR/L27050-16	40	110	140	27.0	50.0	-6°	-6°	1.7	TNM.. 1604..
	PSC50-MTFNR/L35060-16	50	110	165	35.0	60.0	-6°	-6°	1.7	TNM.. 1604..
	PSC63-MTFNR/L45065-16	63	110	190	45.0	65.0	-6°	-6°	1.7	TNM.. 1604..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.	PSC32-MTFNR/L22040-16	2604	1085	5025	ITSN-342	1675	5002
	PSC40-MTFNR/L27050-16	2604	1085	5025	ITSN-342	1675	5002
	PSC50-MTFNR/L35060-16	2604	1085	5025	ITSN-342	1675	5002
	PSC63-MTFNR/L45065-16	2604	1085	5025	ITSN-342	1675	5002

	TNM..				Negative triangular inserts.			
	Ref.	TNM.. 1604..	l	16,50	s	4,76	d	9,52
					TNMA	TNMG-CF	TNMG-CFC	
	TNMG-CFM	TNMG-CM	TNMG-CMC	TNMG-CMF	TNMG-CMR	TNMG-CS	TNMX R/L	



MTGN 90°



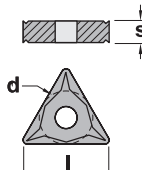
Characteristics:

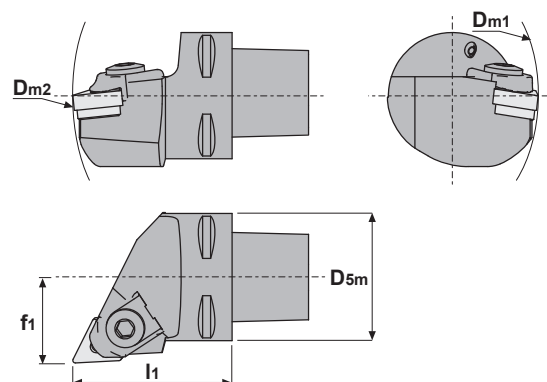
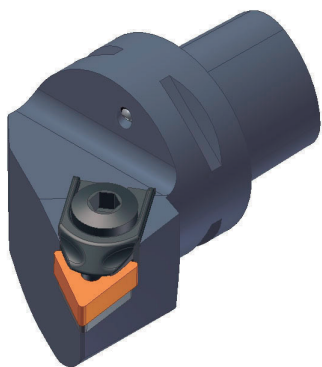
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-MTGNR/L27050-16	40	110	140	27.0	50.0	-6°	-6°	1.7	TNM.. 1604..
	PSC50-MTGNR/L35060-16	50	110	165	35.0	60.0	-6°	-6°	1.7	TNM.. 1604..
	PSC63-MTGNR/L45065-16	63	110	190	45.0	65.0	-6°	-6°	1.7	TNM.. 1604..
	PSC63-MTGNR/L45065-22	63	110	190	45.0	65.0	-6°	-6°	3.9	TNM.. 2204..

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.

Ref.							
	PSC40-MTGNR/L27050-16	2604	1085	5025	ITSN-342	1675	5002
	PSC50-MTGNR/L35060-16	2604	1085	5025	ITSN-342	1675	5002
	PSC63-MTGNR/L45065-16	2604	1085	5025	ITSN-342	1675	5002
	PSC63-MTGNR/L45065-22	2613	1086	5003	ITSN-442	1657	5025

	TNM..				Negative triangular inserts.			
	Ref.	TNM.. 1604..	16,50	4,76	9,52	TNMA	TNMG-CF	TNMG-CFC
		TNM.. 2204..	22,00	4,76	12,70			
	TNMG-CFM	TNMG-CM	TNMG-CMC	TNMG-CMF	TNMG-CMR	TNMG-CS	TNMX R/L	
								



MTJN 93°



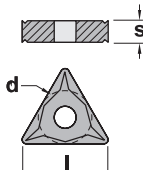
Characteristics:

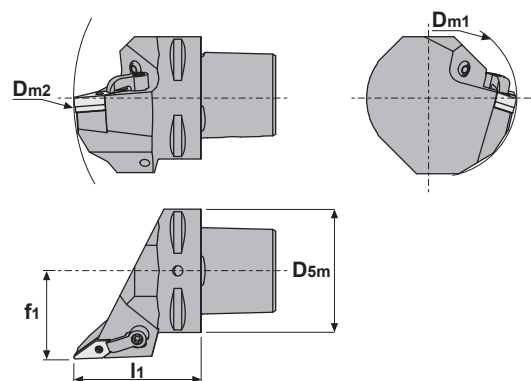
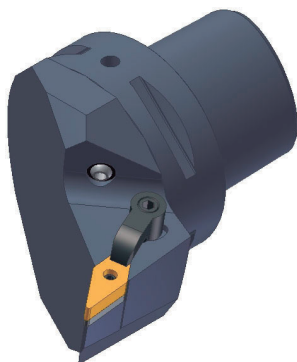
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-MTJNR/L22040-16	32	60	116	22.0	40.0	-6°	-6°	1.7	TNM.. 1604..
	PSC40-MTJNR/L27050-16	40	110	140	27.0	50.0	-6°	-6°	1.7	TNM.. 1604..
	PSC50-MTJNR/L35060-16	50	110	165	35.0	60.0	-6°	-6°	1.7	TNM.. 1604..
	PSC63-MTJNR/L45065-16	63	110	190	45.0	65.0	-6°	-6°	1.7	TNM.. 1604..
	PSC40-MTJNR/L27050-22	40	110	140	27.0	50.0	-6°	-6°	3.9	TNM.. 2204..
	PSC50-MTJNR/L35060-22	50	110	165	35.0	60.0	-6°	-6°	3.9	TNM.. 2204..
	PSC63-MTJNR/L45065-22	63	110	190	45.0	65.0	-6°	-6°	3.9	TNM.. 2204..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.						
	PSC32-MTJNR/L22040-16	2014	5005	3414	1642	1393
	PSC40-MTJNR/L27050-16	2014	5005	3414	1642	1393
	PSC50-MTJNR/L35060-16	2014	5005	3414	1642	1393
	PSC63-MTJNR/L45065-16	2014	5005	3414	1642	1393
	PSC40-MTJNR/L27050-22	2024	5005	ITSN-433	1661	1394
	PSC50-MTJNR/L35060-22	2024	5005	ITSN-433	1661	1394
	PSC63-MTJNR/L45065-22	2024	5005	ITSN-433	1661	1394

	TNM..				Negative triangular inserts.						
	Ref.	TNM.. 1604..	16,50	4,76	9,52	TNMA	TNMG-CF	TNMG-CFC			
		TNM.. 2204..	22,00	4,76	12,70						
											
	TNMG-CFM	TNMG-CM	TNMG-CMC	TNMG-CMF	TNMG-CMR	TNMG-CS	TNMX R/L				



MVJN 93°



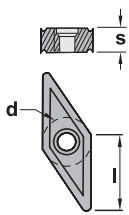
Characteristics:

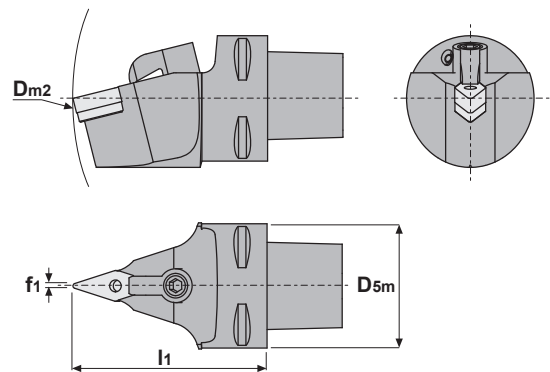
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-MVJNR/L27062-16	40	60	152	27.0	62.0	-4°	-13°	3.0	VN.. 1604..
	PSC50-MVJNR/L35065-16	50	65	170	35.0	65.0	-4°	-13°	3.0	VN.. 1604..
	PSC63-MVJNR/L45065-16	63	81	190	45.0	65.0	-4°	-13°	3.0	VN.. 1604..
	PSC80-MVJNR/L55080-16	80	100	250	55.0	80.0	-4°	-13°	3.0	VN.. 1604..

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.

Ref.							
	PSC40-MVJNR/L27062-16	2616	1086	5003	IVSN-322	5002	1665
	PSC50-MVJNR/L35065-16	2616	1086	5003	IVSN-322	5002	1665
	PSC63-MVJNR/L45065-16	2616	1086	5003	IVSN-322	5002	1665
	PSC80-MVJNR/L55080-16	2616	1086	5003	IVSN-322	5002	1665

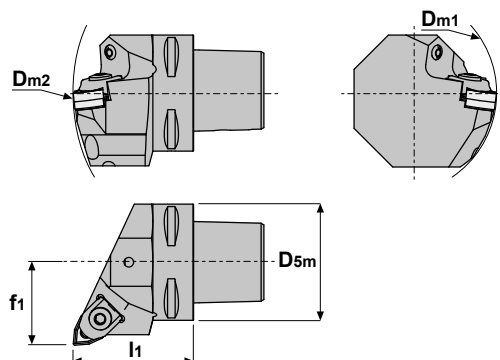
	VN..				Negative 35° rhombic inserts.			
	Ref.	VN.. 1604..	l	s				d
	VNGP	VNMG	VNMG-CMC					
								



PSC with internal coolant.

- 1) γ = Rake angle (valid a smooth insert).
- 2) λ s= Angle of inclination.
- 3) Nm= Insert moment of force.





MWLN 95°

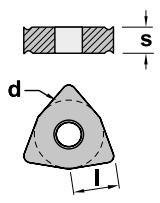


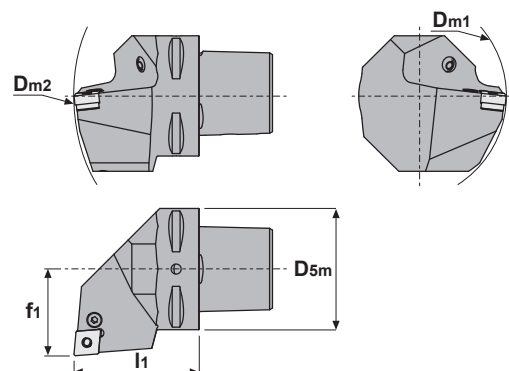
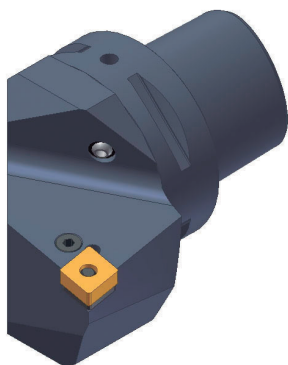
Characteristics:
PSC with internal coolant.

		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-MWLN/L22040-06	32	60	116	22.0	40.0	-6°	-6°	1.7	WNMG 0604..
	PSC40-MWLN/L27050-06	40	60	140	27.0	50.0	-6°	-6°	1.7	WNMG 0604..
	PSC40-MWLN/L27050-08	40	110	140	27.0	50.0	-6°	-6°	3.9	WNMG 0804..
	PSC50-MWLN/L35060-08	50	110	165	35.0	60.0	-6°	-6°	3.9	WNMG 0804..
	PSC63-MWLN/L45065-08	63	110	190	45.0	65.0	-6°	-6°	3.9	WNMG 0804..
	PSC80-MWLN/L55080-08	80	110	250	55.0	80.0	-6°	-6°	3.9	WNMG 0804..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

						
Ref.	PSC32-MWLN/L22040-06	2006	5025	3006	1644	1813
	PSC40-MWLN/L27050-06	2006	5025	3006	1642	1393
	PSC40-MWLN/L27050-08	2011	5005	IWSN-433	1661	1394
	PSC50-MWLN/L35060-08	2011	5005	IWSN-433	1661	1394
	PSC63-MWLN/L45065-08	2011	5005	IWSN-433	1661	1394
	PSC80-MWLN/L55080-08	2011	5005	IWSN-433	1661	1394

	WNMG				Negative 80° trigon inserts.		
	Ref.	WNMG 0604..	WNMG 0804..				
		6,45	4,76	9,52			
		8,14	4,76	12,70			
	WNMG-CF	WNMG-CFM	WNMG-CM	WNMG-CMC	WNMG-CMF	WNMG-CMR	WNMG-CS
							



PCLN 95°



Characteristics:

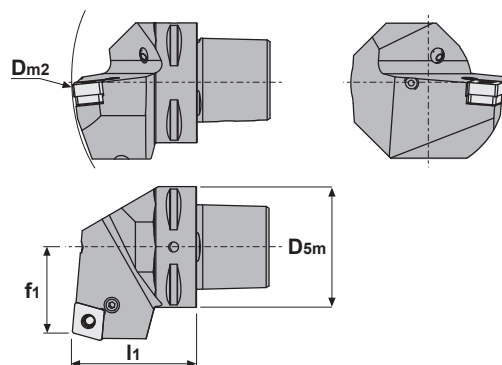
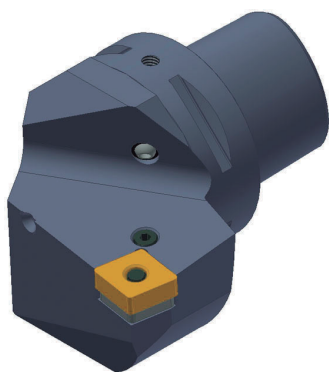
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y1)	λs2)	Nm3)	Insert
PSC32-PCLNR/L22040-12		32	60	124	22.0	40.0	-6°	-6°	3.9	CN.. 1204..
PSC40-PCLNR/L27050-12		40	110	140	27.0	50.0	-6°	-6°	3.9	CN.. 1204..
PSC50-PCLNR/L35060-12		50	110	165	35.0	60.0	-6°	-6°	3.9	CN.. 1204..
PSC63-PCLNR/L45065-12		63	110	190	45.0	65.0	-6°	-6°	3.9	CN.. 1204..
PSC80-PCLNR/L55080-12		80	110	250	55.0	80.0	-6°	-6°	3.9	CN.. 1204..
PSC40-PCLNR/L27050-16		40	125	140	27.0	50.0	-6°	-6°	6.4	CN.. 1606..
PSC50-PCLNR/L35060-16		50	125	165	35.0	60.0	-6°	-6°	6.4	CN.. 1606..
PSC63-PCLNR/L45065-16		63	125	190	45.0	65.0	-6°	-6°	6.4	CN.. 1606..
PSC80-PCLNR/L55080-16		80	125	250	55.0	80.0	-6°	-6°	6.4	CN.. 1606..
PSC50-PCLNR/L35060-19		50	125	165	35.0	60.0	-6°	-6°	6.4	CN.. 1906..
PSC63-PCLNR/L45065-19		63	125	190	45.0	65.0	-6°	-6°	6.4	CN.. 1906..
PSC80-PCLNR/L55080-19		80	125	250	55.0	80.0	-6°	-6°	6.4	CN.. 1906..
PSC80-PCLNR/L55080-25		80	150	250	55.0	80.0	-6°	-6°	9.5	CN.. 2509..

1) γ= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.

Ref.							
PSC32-PCLNR/L22040-12		8012	1608	5003	3612	4112	0012
PSC40-PCLNR/L27050-12		8012	1608	5003	3612	4112	0012
PSC50-PCLNR/L35060-12		8012	1608	5003	3612	4112	0012
PSC63-PCLNR/L45065-12		8012	1608	5003	3612	4112	0012
PSC80-PCLNR/L55080-12		8012	1608	5003	3612	4112	0012
PSC40-PCLNR/L27050-16		8016	1618	5003	3616	4115	0015
PSC50-PCLNR/L35060-16		8016	1618	5003	3616	4115	0015
PSC63-PCLNR/L45065-16		8016	1618	5003	3616	4115	0015
PSC80-PCLNR/L55080-16		8016	1618	5003	3616	4115	0015
PSC50-PCLNR/L35060-19		8019	1610	5004	3619	4119	0019
PSC63-PCLNR/L45065-19		8019	1610	5004	3619	4119	0019
PSC80-PCLNR/L55080-19		8019	1610	5004	3619	4119	0019
PSC80-PCLNR/L55080-25		8025	1612	5005	3625	4125	0025

Ref.	CN..				Negative 80° rhombic inserts.			
					CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
					CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMG-CMS
	CNGP	CNMA	CNMG-CFM	CNMG-CFC				



PCRN 75°

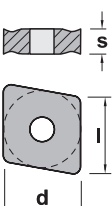


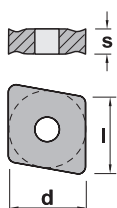
Characteristics:
PSC with internal coolant.

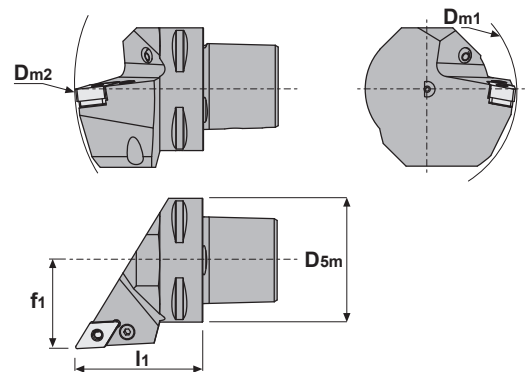
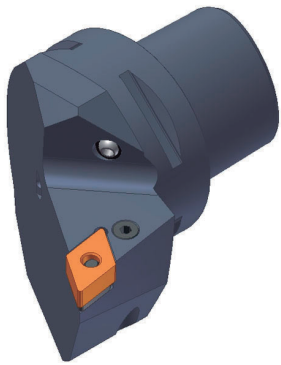
Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC50-PCNR/L27060-12	50	165	27.0	60.0	-6°	-6°	3.9	CN.. 1204..
	PSC63-PCNR/L35065-12	63	190	35.0	65.0	-6°	-6°	3.9	CN.. 1204..
	PSC50-PCNR/L27060-16	50	165	27.0	60.0	-6°	-6°	6.4	CN.. 1606..
	PSC63-PCNR/L35065-16	63	190	35.0	65.0	-6°	-6°	6.4	CN.. 1606..
	PSC50-PCNR/L27060-19	50	165	27.0	60.0	-6°	-6°	6.4	CN.. 1906..
	PSC63-PCNR/L35065-19	63	190	35.0	65.0	-6°	-6°	6.4	CN.. 1906..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC50-PCNR/L27060-12	8012	1608	5003	3612	4112	0012
	PSC63-PCNR/L35065-12	8012	1608	5003	3612	4112	0012
	PSC50-PCNR/L27060-16	8016	1618	5003	3616	4115	0015
	PSC63-PCNR/L35065-16	8016	1618	5003	3616	4115	0015
	PSC50-PCNR/L27060-19	8019	1610	5004	3619	4119	0019
	PSC63-PCNR/L35065-19	8019	1610	5004	3619	4119	0019

	CN..				Negative 80° rhombic inserts.				
	Ref.		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				
	CN.. 1906..	19,30	6,35	19,05					
CNGP	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMM		
									





PDJN 93°



Characteristics:
PSC with internal coolant.

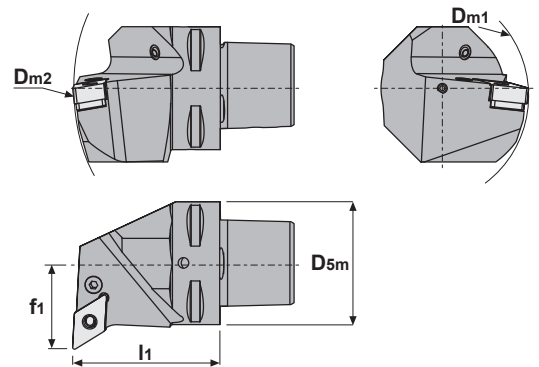
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-PDJNR/L27055-15	40	110	145	27.0	55.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-PDJNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-PDJNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-PDJNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.									
	PSC40-PDJNR/L27055-15	8415	1638	5003	3715	4112	0012	3725	4135
	PSC50-PDJNR/L35060-15	8415	1638	5003	3715	4112	0012	3725	4135
	PSC63-PDJNR/L45065-15	8415	1638	5003	3715	4112	0012	3725	4135
	PSC80-PDJNR/L55080-15	8415	1638	5003	3715	4112	0012	3725	4135

For inserts DNM.. 1504..

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1504..	DN.. 1506..		DNMA	DNMG-CF	
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	



PDUN 93°



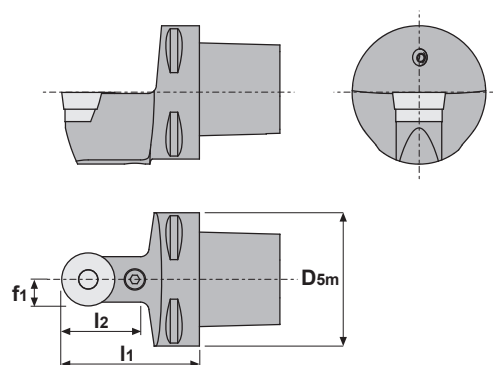
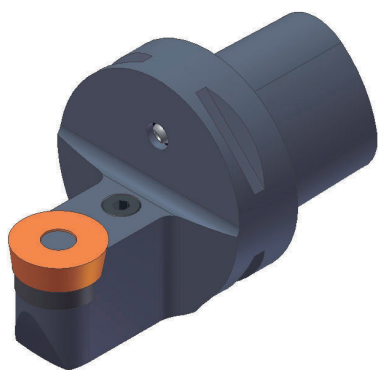
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-PDUNR/L27050-15	40	110	140	27.0	50.0	-6°	-7°	3.9	DN.. 1506..
	PSC50-PDUNR/L35060-15	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1506..
	PSC63-PDUNR/L45065-15	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1506..
	PSC80-PDUNR/L55080-15	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1506..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.							
	PSC40-PDUNR/L27050-15	8415	1638	5003	3715	4112	0012
	PSC50-PDUNR/L35060-15	8415	1638	5003	3715	4112	0012
	PSC63-PDUNR/L45065-15	8415	1638	5003	3715	4112	0012
	PSC80-PDUNR/L55080-15	8415	1638	5003	3715	4112	0012

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1506..	l	s	d	DNMA	DNMG-CF
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	



PRDC



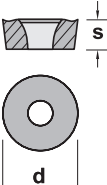
Characteristics:

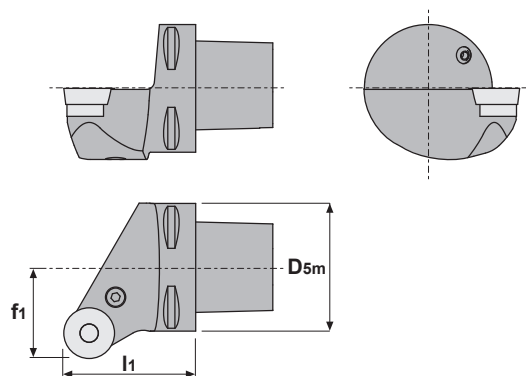
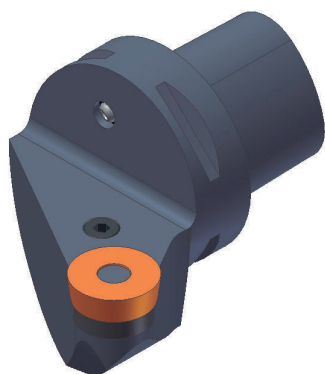
PSC with internal coolant.

		D5m	f1	l1	y ¹⁾	λs ²⁾	l2	Insert
Ref.	PSC63-PRDCN00065-25	63	12.5	65.0	0°	0°	40	RC.. 2507M0
	PSC80-PRDCN00080-25	80	12.5	80.0	0°	0°	40	RC.. 2507M0
	PSC80-PRDCN00080-32	80	16.0	80.0	0°	0°	45	RC.. 3209M0

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

Ref.	PSC63-PRDCN00065-25	8125	1710	5004	3825	4119	0019
	PSC80-PRDCN00080-25	8125	1710	5004	3825	4119	0019
	PSC80-PRDCN00080-32	8132	1612	5005	3832	4125	0025

	RC..			Positive 7° clearance - Round inserts.			
	Ref.		s				d
	RC.. 2507M0	7,94	25,00				
	RC.. 3209M0	9,52	32,00				
	RCGT-AL	RCGT-AP	RCMT				
							



PRSC

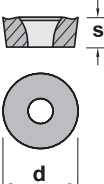


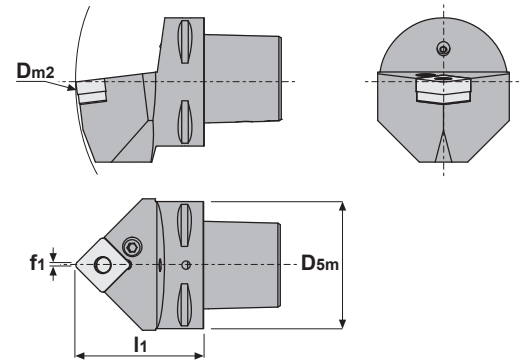
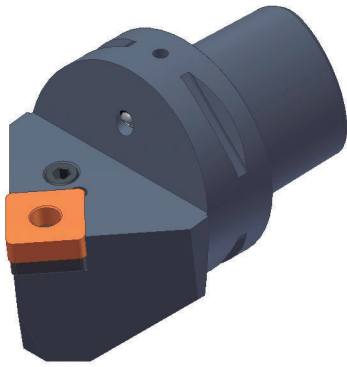
Characteristics:
PSC with internal coolant.

		D5m	f1	l1	y ¹⁾	λs ²⁾	Insert
Ref.	PSC80-PRSCR/L55080-20	80	55.0	80.0	0°	0°	RC.. 2006M0
	PSC63-PRSCR/L45065-25	63	45.0	65.0	0°	0°	RC.. 2507M0
	PSC80-PRSCR/L55080-25	80	55.0	80.0	0°	0°	RC.. 2507M0
	PSC80-PRSCR/L55080-32	80	55.0	80.0	0°	0°	RC.. 3209M0

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

Ref.	PSC80-PRSCR/L55080-20	8120	1708	5003	3820	4115	0015
	PSC63-PRSCR/L45065-25	8125	1710	5004	3825	4119	0019
	PSC80-PRSCR/L55080-25	8125	1710	5004	3825	4119	0019
	PSC80-PRSCR/L55080-32	8132	1612	5005	3832	4125	0025

	RC..			Positive 7° clearance - Round inserts.			
	Ref.		s				d
		RC.. 2006M0	6,35				20,00
		RC.. 2507M0	7,94				25,00
		RC.. 3209M0	9,52				32,00
	RCGT-AL	RCGT-AP	RCMT				
							



PSDN 45°



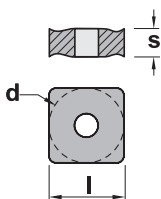
Characteristics:
PSC with internal coolant.

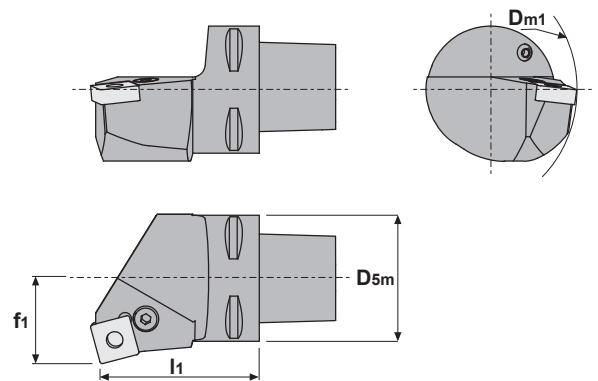
Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-PSDNN00050-12	40	140	0.3	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-PSDNN00060-12	50	165	0.3	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-PSDNN00065-12	63	190	0.3	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC40-PSDNN00050-15	40	140	0.5	50.0	-6°	-6°	6.4	SNM.. 1506..
	PSC50-PSDNN00060-15	50	165	0.5	60.0	-6°	-6°	6.4	SNM.. 1506..
	PSC63-PSDNN00065-15	63	190	0.5	65.0	-6°	-6°	6.4	SNM.. 1506..
	PSC50-PSDNN00060-19	50	170	0.5	60.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-PSDNN00065-19	63	195	0.5	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-PSDNN00065-25	63	195	1.0	65.0	-6°	-6°	9.5	SNM.. 2507..
	PSC80-PSDNN00080-25	80	250	1.0	80.0	-6°	-6°	9.5	SNM.. 2507..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-PSDNN00050-12	8012	1608	5003	3512	4112	0012
	PSC50-PSDNN00060-12	8012	1608	5003	3512	4112	0012
	PSC63-PSDNN00065-12	8012	1608	5003	3512	4112	0012
	PSC40-PSDNN00050-15	8016	1618	5003	3515	4115	0015
	PSC50-PSDNN00060-15	8016	1618	5003	3515	4115	0015
	PSC63-PSDNN00065-15	8016	1618	5003	3515	4115	0015
	PSC50-PSDNN00060-19	8019	1610	5004	3519	4119	0019
	PSC63-PSDNN00065-19	8019	1610	5004	3519	4119	0019
	PSC63-PSDNN00065-25	8025	1612	5005	3525	4125	0025
	PSC80-PSDNN00080-25	8025	1612	5005	3525	4125	0025

Ref.	SNM..	l	s	d	Negative square inserts.		
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
	SNM.. 2507..	25,40	7,94	25,40			
					SNMA	SNMG-CFM	SNMG-CMR
					SNMG-CR	SNMM	
							
							





PSKN 75°



Characteristics:

PSC with internal coolant.

Ref.		D _{5m}	D _{m1} min.	f ₁	l ₁	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-PSKNR/L27050-12	40	110	27.0	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-PSKNR/L35060-12	50	110	35.0	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-PSKNR/L45065-12	63	110	45.0	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-PSKNR/L35060-15	50	125	35.0	60.0	-6°	-6°	3.9	SNM.. 1506..
	PSC63-PSKNR/L45065-15	63	125	45.0	65.0	-6°	-6°	3.9	SNM.. 1506..
	PSC50-PSKNR/L35060-19	50	125	35.0	60.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-PSKNR/L45065-19	63	125	45.0	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC80-PSKNR/L55080-19	80	125	55.0	80.0	-6°	-6°	6.4	SNM.. 1906..
	PSC80-PSKNR/L55080-25	80	150	55.0	80.0	-6°	-6°	9.5	SNM.. 2507..

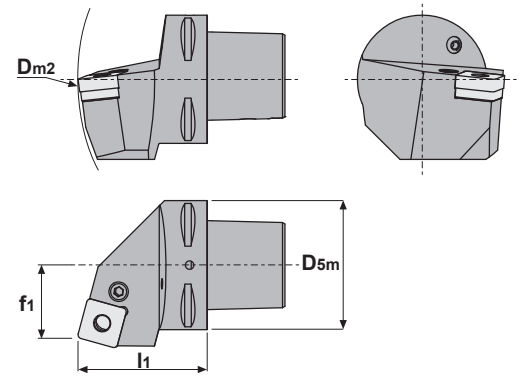
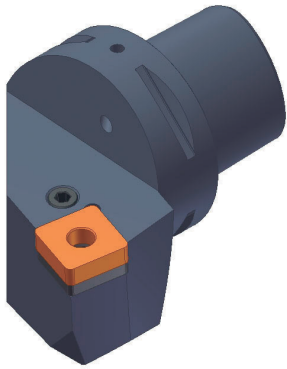
1) y= Rake angle (valid a smooth insert).

2) λs= Angle of inclination.

3) Nm= Insert moment of force.

Ref.							
	PSC40-PSKNR/L27050-12	8012	1608	5003	3512	4112	0012
	PSC50-PSKNR/L35060-12	8012	1608	5003	3512	4112	0012
	PSC63-PSKNR/L45065-12	8012	1608	5003	3512	4112	0012
	PSC50-PSKNR/L35060-15	8016	1618	5003	3515	4115	0015
	PSC63-PSKNR/L45065-15	8016	1618	5003	3515	4115	0015
	PSC50-PSKNR/L35060-19	8019	1610	5004	3519	4119	0019
	PSC63-PSKNR/L45065-19	8019	1610	5004	3519	4119	0019
	PSC80-PSKNR/L55080-19	8019	1610	5004	3519	4119	0019
	PSC80-PSKNR/L55080-25	8025	1612	5005	3525	4125	0025

Ref.	SNM..	l	s	d	Negative square inserts.		
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
	SNM.. 2507..	25,40	7,94	25,40			
					SNMA	SNMG-CFM	SNMG-CMR
					SNMG-CR	SNMM	
							
							



PSRN 75°



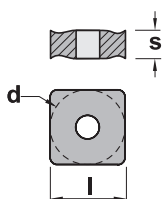
Characteristics:
PSC with internal coolant.

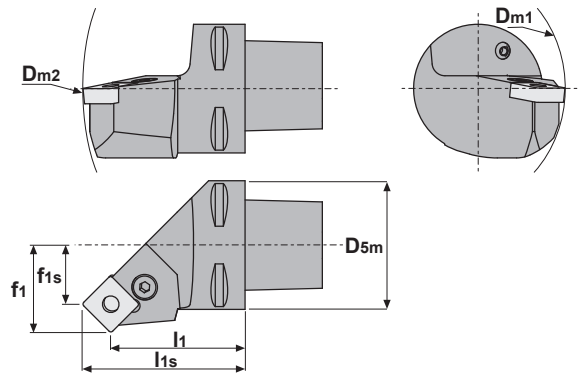
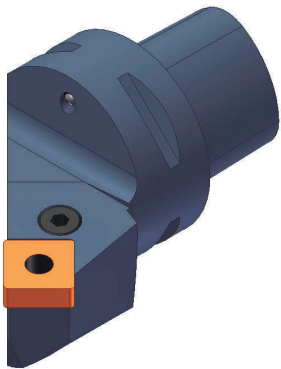
Ref.		D _{5m}	D _{m2} min.	f ₁	l ₁	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-PSRNR/L17040-12	32	124	17.0	40.0	-6°	-6°	3.9	SNM.. 1204..
	PSC40-PSRNR/L22050-12	40	140	22.0	50.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-PSRNR/L27060-12	50	165	27.0	60.0	-6°	-6°	3.9	SNM.. 1204..
	PSC63-PSRNR/L35065-12	63	190	35.0	65.0	-6°	-6°	3.9	SNM.. 1204..
	PSC50-PSRNR/L27060-15	50	165	27.0	60.0	-6°	-6°	6.4	SNM.. 1506..
	PSC63-PSRNR/L35065-15	63	190	35.0	65.0	-6°	-6°	6.4	SNM.. 1506..
	PSC50-PSRNR/L27060-19	50	165	27.0	60.0	-6°	-6°	6.4	SNM.. 1906..
	PSC63-PSRNR/L35065-19	63	190	35.0	65.0	-6°	-6°	6.4	SNM.. 1906..
	PSC80-PSRNR/L45080-19	80	250	45.0	80.0	-6°	-6°	6.4	SNM.. 1906..
	PSC80-PSRNR/L45080-25	80	250	45.0	80.0	-6°	-6°	9.5	SNM.. 2507..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC32-PSRNR/L17040-12	8012	1608	5003	3512	4112	0012
	PSC40-PSRNR/L22050-12	8012	1608	5003	3512	4112	0012
	PSC50-PSRNR/L27060-12	8012	1608	5003	3512	4112	0012
	PSC63-PSRNR/L35065-12	8012	1608	5003	3512	4112	0012
	PSC50-PSRNR/L27060-15	8016	1618	5003	3515	4115	0015
	PSC63-PSRNR/L35065-15	8016	1618	5003	3515	4115	0015
	PSC50-PSRNR/L27060-19	8019	1610	5004	3519	4119	0019
	PSC63-PSRNR/L35065-19	8019	1610	5004	3519	4119	0019
	PSC80-PSRNR/L45080-19	8019	1610	5004	3519	4119	0019
	PSC80-PSRNR/L45080-25	8025	1612	5005	3525	4125	0025

SNM..		l	s	d	Negative square inserts.	
Ref.	SNM.. 1204..	12,70	4,76	12,70		
	SNM.. 1506..	15,88	6,35	15,88		
	SNM.. 1906..	19,05	6,35	19,05		
	SNM.. 2507..	25,40	7,94	25,40		
					SNMA	SNMG-CFM
					SNMG-CMR	SNMG-CR
					SNMM	





PSSN 45°



Characteristics:

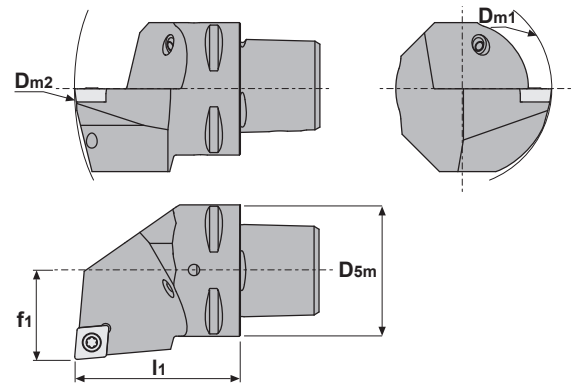
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	f1s	l1	l1s	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-PSSNR/L22032-12	32	60	124	22.0	13.7	32.0	40.3	-8°	0°	3.9	SNM.. 1204..
	PSC40-PSSNR/L27042-12	40	110	140	27.0	18.7	42.0	50.3	-8°	0°	3.9	SNM.. 1204..
	PSC50-PSSNR/L35052-12	50	110	165	35.0	26.7	52.0	60.3	-8°	0°	3.9	SNM.. 1204..
	PSC63-PSSNR/L45056-12	63	110	190	45.0	36.7	56.0	64.3	-8°	0°	3.9	SNM.. 1204..
	PSC63-PSSNR/L45054-15	63	125	190	45.0	34.8	54.0	64.2	-8°	0°	6.4	SNM.. 1506..
	PSC63-PSSNR/L45052-19	63	125	190	45.0	32.5	52.0	64.5	-8°	0°	6.4	SNM.. 1906..
	PSC80-PSSNR/L55070-25	80	150	256	55.0	39.0	70.0	86.0	-8°	0°	9.5	SNM.. 2507..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.							
	PSC32-PSSNR/L22032-12	8012	1608	5003	3512	4112	0012
	PSC40-PSSNR/L27042-12	8012	1608	5003	3512	4112	0012
	PSC50-PSSNR/L35052-12	8012	1608	5003	3512	4112	0012
	PSC63-PSSNR/L45056-12	8012	1608	5003	3512	4112	0012
	PSC63-PSSNR/L45054-15	8016	1618	5003	3515	4115	0015
	PSC63-PSSNR/L45052-19	8019	1610	5004	3519	4119	0019
	PSC80-PSSNR/L55070-25	8025	1612	5005	3525	4125	0025

Ref.	SNM..	l	s	d	Negative square inserts.		
	SNM.. 1204..	12,70	4,76	12,70			
	SNM.. 1506..	15,88	6,35	15,88			
	SNM.. 1906..	19,05	6,35	19,05			
	SNM.. 2507..	25,40	7,94	25,40			
					SNMA	SNMG-CFM	SNMG-CMR
					SNMG-CR	SNMM	



SCLC 95°



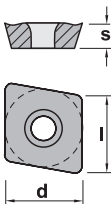
Characteristics:

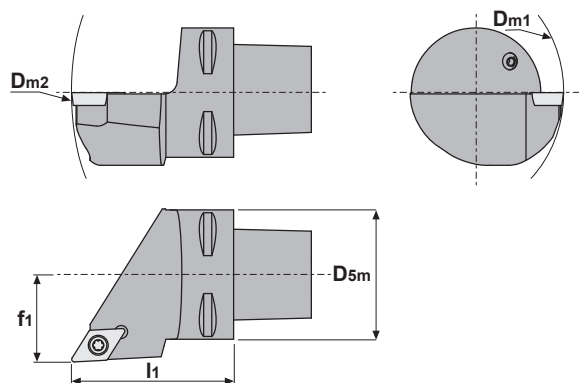
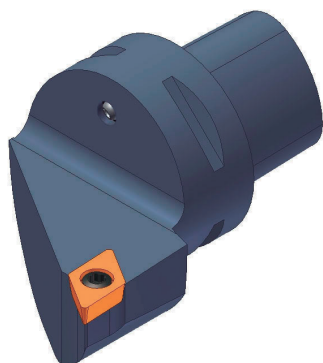
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
PSC32-SCLCR/L22040-09		32	80	124	22.0	40.0	0°	0°	3.0	CC.. 09T3..
PSC40-SCLCR/L27050-09		40	80	140	27.0	50.0	0°	0°	3.0	CC.. 09T3..
PSC50-SCLCR/L35060-09		50	80	165	35.0	60.0	0°	0°	3.0	CC.. 09T3..
PSC63-SCLCR/L45065-09		63	80	190	45.0	65.0	0°	0°	3.0	CC.. 09T3..
PSC32-SCLCR/L22040-12		32	110	124	22.0	40.0	0°	0°	3.0	CC.. 1204..
PSC40-SCLCR/L27050-12		40	110	140	27.0	50.0	0°	0°	3.0	CC.. 1204..
PSC50-SCLCR/L35060-12		50	110	165	35.0	60.0	0°	0°	3.0	CC.. 1204..
PSC63-SCLCR/L45065-12		63	110	190	45.0	65.0	0°	0°	3.0	CC.. 1204..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.					
PSC32-SCLCR/L22040-09		1240	5515	-	-
PSC40-SCLCR/L27050-09		1240	5515	-	-
PSC50-SCLCR/L35060-09		1240	5515	-	-
PSC63-SCLCR/L45065-09		1240	5515	-	-
PSC32-SCLCR/L22040-12		1540	5517	3614	1760
PSC40-SCLCR/L27050-12		1540	5517	3614	1760
PSC50-SCLCR/L35060-12		1540	5517	3614	1760
PSC63-SCLCR/L45065-12		1540	5517	3614	1760

	CC..				Positive 7° clearance - 80° rhombic inserts.			
	Ref.	CC.. 09T3..	9,65	3,97				9,52
		CC.. 1204..	12,90	4,76				12,70
	CCGT-AL	CCGT-AP	CCMT-03	CCMW				
								



SDJC 93°



Characteristics:

PSC with internal coolant.

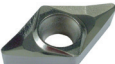
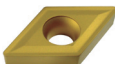
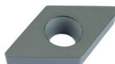
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-SDJCR/L22040-07	32	80	124	22.0	40.0	0°	0°	0.9	DC.. 0702..
	PSC40-SDJCR/L27050-07	40	80	140	27.0	50.0	0°	0°	0.9	DC.. 0702..
	PSC32-SDJCR/L22040-11	32	110	124	22.0	40.0	0°	0°	3.0	DC.. 11T3..
	PSC40-SDJCR/L27050-11	40	110	140	27.0	50.0	0°	0°	3.0	DC.. 11T3..
	PSC50-SDJCR/L35060-11	50	110	165	35.0	60.0	0°	0°	3.0	DC.. 11T3..
	PSC63-SDJCR/L45065-11	63	110	190	45.0	65.0	0°	0°	3.0	DC.. 11T3..

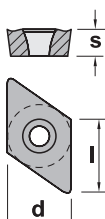
1) γ = Rake angle (valid a smooth insert).

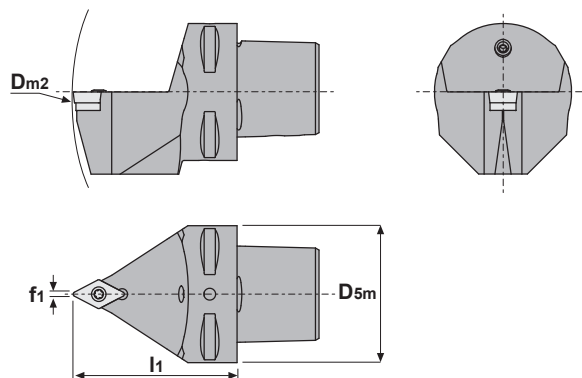
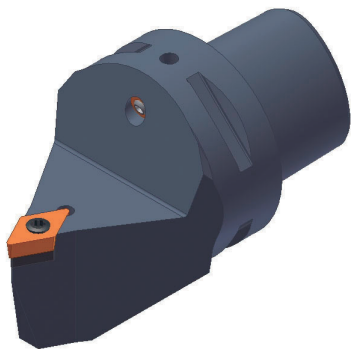
2) λs = Angle of inclination.

3) Nm = Insert moment of force.

Ref.					
	PSC32-SDJCR/L22040-07	1225	5507	-	-
	PSC40-SDJCR/L27050-07	1225	5507	-	-
	PSC32-SDJCR/L22040-11	1335	5516	3714	1750
	PSC40-SDJCR/L27050-11	1335	5516	3714	1750
	PSC50-SDJCR/L35060-11	1335	5516	3714	1750
	PSC63-SDJCR/L45065-11	1335	5516	3714	1750

	DC..				Positive 7° clearance - 55° rhombic inserts.			
	Ref.	DC.. 0702..	l	s				d
		DC.. 11T3..	7,75	2,38				6,35
			11,60	3,97				9,52
	DCGT-AL	DCGT-AP	DCMT-03	DCMW				
								





SDNC 62° 30'

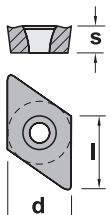
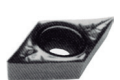
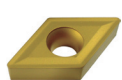
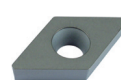


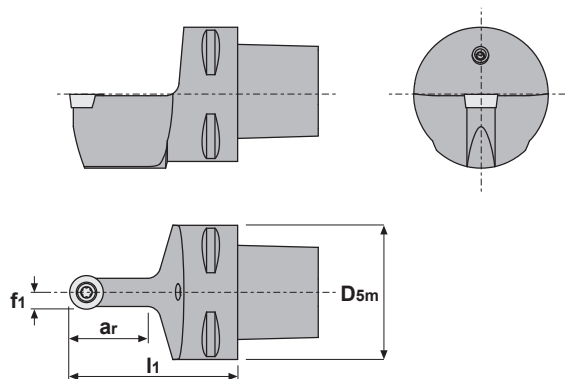
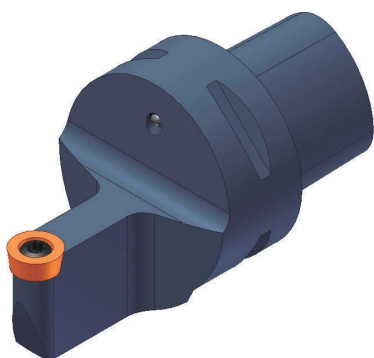
Characteristics:
PSC with internal coolant.

		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-SDNCN00040-11	32	124	0.5	40.0	0°	0°	3.0	DC.. 11T3..
	PSC40-SDNCN00050-11	40	140	0.5	50.0	0°	0°	3.0	DC.. 11T3..
	PSC50-SDNCN00060-11	50	165	0.5	60.0	0°	0°	3.0	DC.. 11T3..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

					
Ref.	PSC32-SDNCN00040-11	1335	5516	3714	1750
	PSC40-SDNCN00050-11	1335	5516	3714	1750
	PSC50-SDNCN00060-11	1335	5516	3714	1750

	DC..				Positive 7° clearance - 55° rhombic inserts.			
	Ref.	DC.. 11T3..	l	11,60				s
	DCGT-AL	DCGT-AP	DCMT-03	DCMW				
								



SRDC



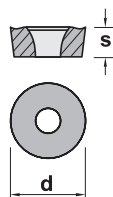
Characteristics:
PSC with internal coolant.

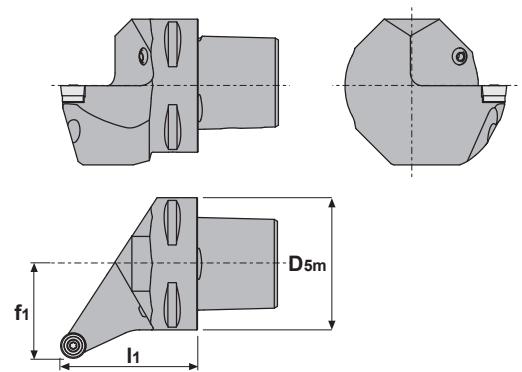


		ar	D5m	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert				
Ref.	PSC32-SRDCN00040-06	12	32	3.0	40.0	0°	0°	0.9	RC.. 0602M0	1225	5507	-	-
	PSC40-SRDCN00050-06	12	40	3.0	50.0	0°	0°	0.9	RC.. 0602M0	1225	5507	-	-
	PSC50-SRDCN00060-06	12	50	3.0	60.0	0°	0°	0.9	RC.. 0602M0	1225	5507	-	-
	PSC32-SRDCN00040-08	16	32	4.0	40.0	0°	0°	1.4	RC.. 0803M0	1230	5508	-	-
	PSC40-SRDCN00050-08	16	40	4.0	50.0	0°	0°	1.4	RC.. 0803M0	1230	5508	-	-
	PSC50-SRDCN00060-08	16	50	4.0	60.0	0°	0°	1.4	RC.. 0803M0	1230	5508	-	-
	PSC32-SRDCN00040-10	20	32	5.0	40.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC40-SRDCN00050-10	25	40	5.0	50.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC50-SRDCN00060-10	25	50	5.0	60.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC63-SRDCN00065-10	25	63	5.0	65.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC40-SRDCN00050-12	28	40	6.0	50.0	0°	0°	3.0	RC.. 1204M0	1335	5516	3814	1750
	PSC50-SRDCN00060-12	28	50	6.0	60.0	0°	0°	3.0	RC.. 1204M0	1335	5516	3814	1750
	PSC63-SRDCN00065-12	28	63	6.0	65.0	0°	0°	3.0	RC.. 1204M0	1335	5516	3814	1750
	PSC50-SRDCN00060-16	35	50	8.0	60.0	0°	0°	6.4	RC.. 1606M0	1540	5517	3816	1765
	PSC63-SRDCN00065-16	35	63	8.0	65.0	0°	0°	6.4	RC.. 1606M0	1540	5517	3816	1765
PSC50-SRDCN00060-20	40	50	10.0	60.0	0°	0°	9.5	RC.. 2006M0	1360	5520	3919	1059	
PSC63-SRDCN00065-20	40	63	10.0	65.0	0°	0°	9.5	RC.. 2006M0	1360	5520	3919	1059	

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

RC..				Positive 7° clearance - Round inserts.			
Ref.	RC..	s	d				
	RC.. 0602M0	2,38	6,00				
	RC.. 0803M0	3,18	8,00				
	RC.. 10T3M0	3,97	10,00				
	RC.. 1204M0	4,76	12,00				
	RC.. 1606M0	6,35	16,00				
	RC.. 2006M0	6,35	20,00				
RCGT-AL		RCMT					





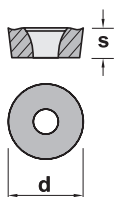
SRSC 45°



Characteristics:
PSC with internal coolant.

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.		D5m	f1	l1	γ^1	λs^2	Nm ³	Insert				
	PSC32-SRSCR/L22040-06	32	22.0	40.0	0°	0°	0.9	RC.. 0602M0	1225	5507	-	-
	PSC40-SRSCR/L27050-06	40	27.0	50.0	0°	0°	0.9	RC.. 0602M0	1225	5507	-	-
	PSC50-SRSCR/L35060-06	50	35.0	60.0	0°	0°	0.9	RC.. 0602M0	1225	5507	-	-
	PSC32-SRSCR/L22040-08	32	22.0	40.0	0°	0°	1.4	RC.. 0803M0	1230	5508	-	-
	PSC40-SRSCR/L27050-08	40	27.0	50.0	0°	0°	1.4	RC.. 0803M0	1230	5508	-	-
	PSC50-SRSCR/L35060-08	50	35.0	60.0	0°	0°	1.4	RC.. 0803M0	1230	5508	-	-
	PSC32-SRSCR/L22040-10	32	22.0	40.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC40-SRSCR/L27050-10	40	27.0	50.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC50-SRSCR/L35060-10	50	35.0	60.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC63-SRSCR/L45065-10	63	45.0	65.0	0°	0°	3.0	RC.. 10T3M0	1335	5516	3811	1750
	PSC40-SRSCR/L27050-12	40	27.0	50.0	0°	0°	3.0	RC.. 1204M0	1335	5516	3814	1750
	PSC50-SRSCR/L35060-12	50	35.0	60.0	0°	0°	3.0	RC.. 1204M0	1335	5516	3814	1750
	PSC63-SRSCR/L45065-12	63	45.0	65.0	0°	0°	3.0	RC.. 1204M0	1335	5516	3814	1750
	PSC50-SRSCR/L35060-16	50	35.0	60.0	0°	0°	6.4	RC.. 1606M0	1540	5517	3816	1765
	PSC63-SRSCR/L45065-16	63	45.0	65.0	0°	0°	6.4	RC.. 1606M0	1540	5517	3816	1765
	PSC50-SRSCR/L35060-20	50	35.0	60.0	0°	0°	9.5	RC.. 2006M0	1360	5520	3919	1059
	PSC63-SRSCR/L45065-20	63	45.0	65.0	0°	0°	9.5	RC.. 2006M0	1360	5520	3919	1059



	RC..	s	d
Ref.	RC.. 0602M0	2,38	6,00
	RC.. 0803M0	3,18	8,00
	RC.. 10T3M0	3,97	10,00
	RC.. 1204M0	4,76	12,00
	RC.. 1606M0	6,35	16,00
	RC.. 2006M0	6,35	20,00

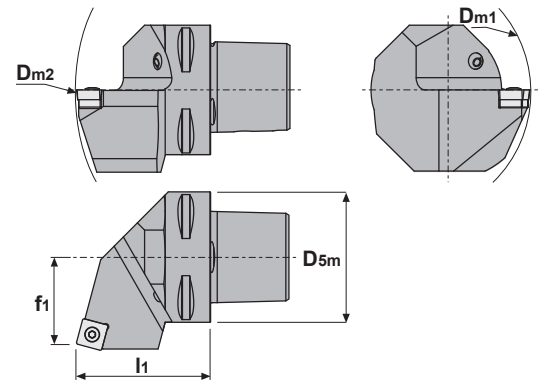
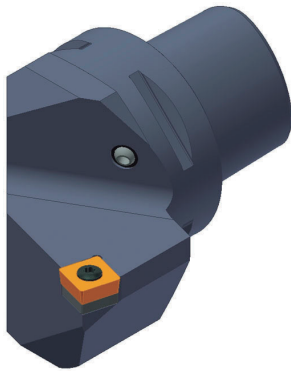
Positive 7° clearance - Round inserts.

RCGT-AL



RCMT





SSRC 75°



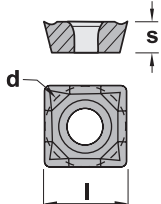
Characteristics:

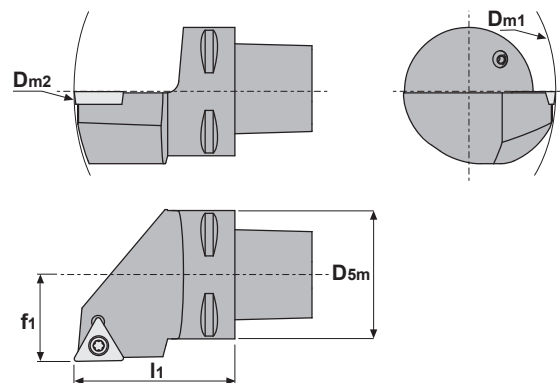
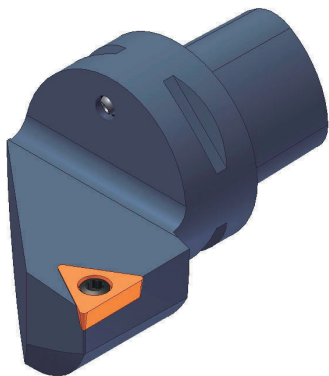
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-SSRCR/L22050-12	40	110	140	22.0	50.0	0°	0°	3.0	SC.. 1204..
	PSC50-SSRCR/L27060-12	50	110	165	27.0	60.0	0°	0°	3.0	SC.. 1204..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.					
	PSC40-SSRCR/L22050-12	1540	5517	3514	1760
	PSC50-SSRCR/L27060-12	1540	5517	3514	1760

	SC..				Positive 7° clearance - Square inserts.			
	Ref.	SC.. 1204..	l	s				d
			12,70	4,76				12,70
	SCGT-AL	SCMT-03	SCMT-39					
								



STGC 90°



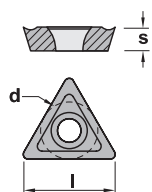
Characteristics:
PSC with internal coolant.

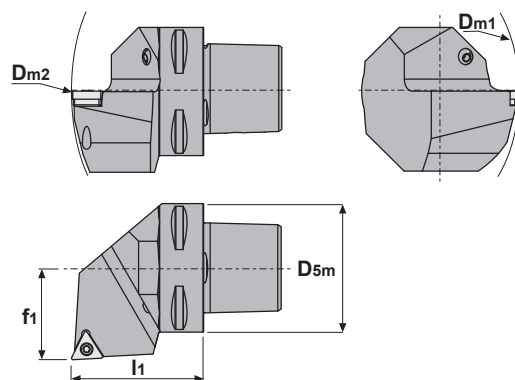
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-STGCR/L22040-11	32	80	124	22.0	40.0	0°	0°	0.9	TC.. 1102..
	PSC40-STGCR/L27050-11	40	80	140	27.0	50.0	0°	0°	0.9	TC.. 1102..
	PSC32-STGCR/L22040-16	32	110	124	22.0	40.0	0°	0°	3.0	TC.. 16T3..
	PSC40-STGCR/L27050-16	40	110	140	27.0	50.0	0°	0°	3.0	TC.. 16T3..
	PSC50-STGCR/L35060-16	50	110	165	35.0	60.0	0°	0°	3.0	TC.. 16T3..
	PSC63-STGCR/L45065-16	63	110	190	45.0	65.0	0°	0°	3.0	TC.. 16T3..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.					
	PSC32-STGCR/L22040-11	1225	5507	-	-
	PSC40-STGCR/L27050-11	1225	5507	-	-
	PSC32-STGCR/L22040-16	1335	5516	3414	1750
	PSC40-STGCR/L27050-16	1335	5516	3414	1750
	PSC50-STGCR/L35060-16	1335	5516	3414	1750
	PSC63-STGCR/L45065-16	1335	5516	3414	1750

Ref.	TC..	l	s	d	Positive 7° clearance - Triangular inserts.
	TC.. 1102..	11,00	2,38	6,35	
	TC.. 16T3..	16,50	3,97	9,52	
TCGT-AL	TCMT-03	TCMW			
					





STJC 93°



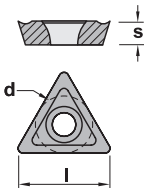
Characteristics:

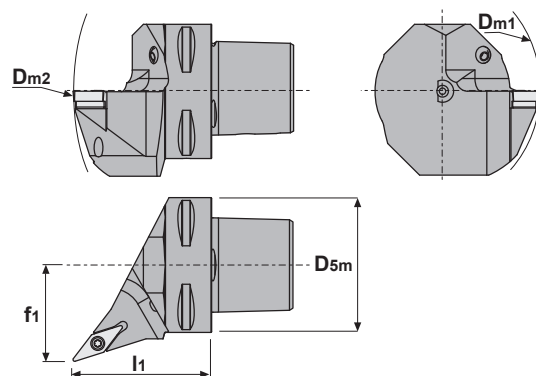
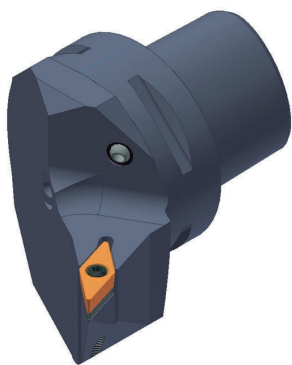
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC32-STJCR/L22040-11	32	80	124	22.0	40.0	0°	0°	0.9	TC.. 1102..
	PSC40-STJCR/L27050-11	40	80	140	27.0	50.0	0°	0°	0.9	TC.. 1102..
	PSC32-STJCR/L22040-16	32	110	124	22.0	40.0	0°	0°	3.0	TC.. 16T3..
	PSC40-STJCR/L27050-16	40	110	140	27.0	50.0	0°	0°	3.0	TC.. 16T3..
	PSC50-STJCR/L35060-16	50	110	165	35.0	60.0	0°	0°	3.0	TC.. 16T3..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.					
	PSC32-STJCR/L22040-11	1225	5507	-	-
	PSC40-STJCR/L27050-11	1225	5507	-	-
	PSC32-STJCR/L22040-16	1335	5516	3414	1750
	PSC40-STJCR/L27050-16	1335	5516	3414	1750
	PSC50-STJCR/L35060-16	1335	5516	3414	1750

	TC..				Positive 7° clearance - Triangular inserts.		
	Ref.	TC.. 1102..	TC.. 16T3..				
		11,00	2,38	6,35			
		16,50	3,97	9,52			
	TCGT-AL	TCMT-03	TCMW				
							



SVHB 107° 30'



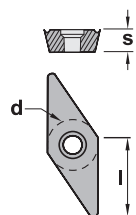
Characteristics:

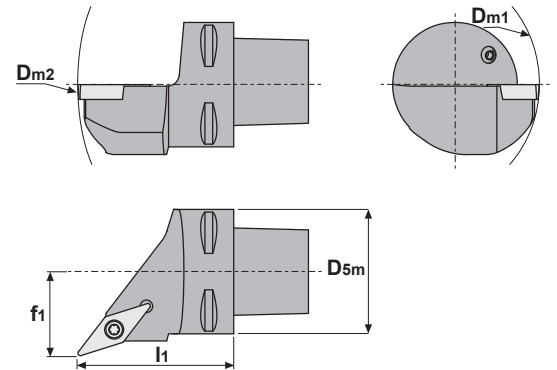
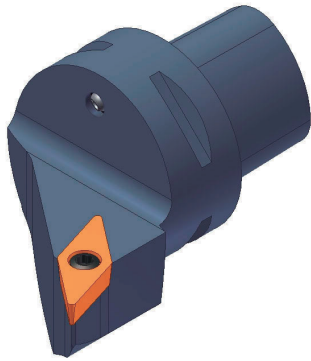
PSC with internal coolant.

Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-SVHBR/L27050-16	40	110	140	27.0	50.0	0°	0°	3.0	VBMT 1604..
	PSC50-SVHBR/L35060-16	50	110	165	35.0	60.0	0°	0°	3.0	VBMT 1604..
	PSC63-SVHBR/L45065-16	63	110	190	45.0	65.0	0°	0°	3.0	VBMT 1604..

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.

Ref.					
	PSC40-SVHBR/L27050-16	1335	5516	3718	1750
	PSC50-SVHBR/L35060-16	1335	5516	3718	1750
	PSC63-SVHBR/L45065-16	1335	5516	3718	1750

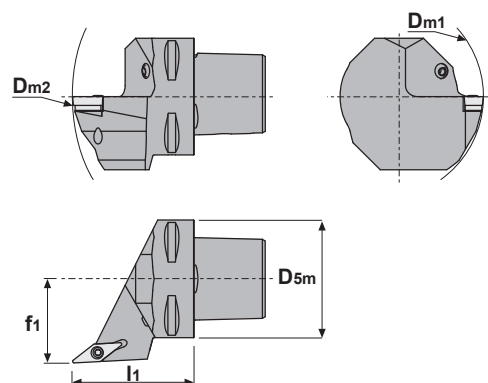
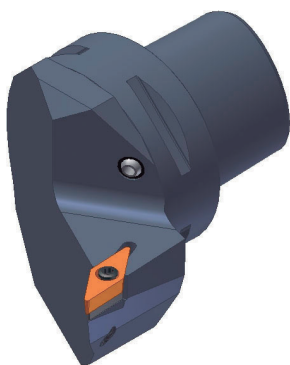
VBMT					Positive 5° clearance - 35° rhombic inserts.
Ref.	VBMT 1604..	l	s	d	
		16,50	4,76	9,52	
VBMT					
 					



PSC with internal coolant.

- 1) γ = Rake angle (valid a smooth insert).
- 2) λ s= Angle of inclination.
- 3) N_m = Insert moment of force.





SVJB 93°



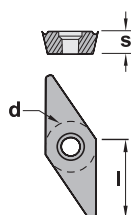
Characteristics:
PSC with internal coolant.

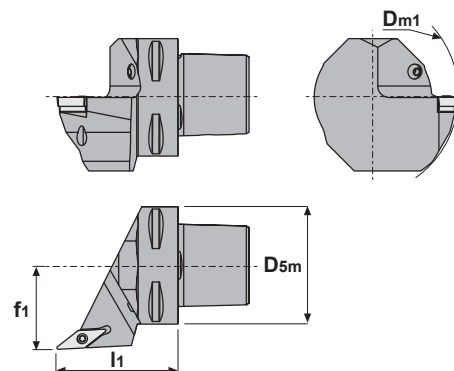
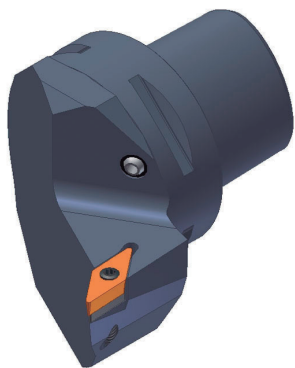
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-SVJBR/L27050-16	40	110	145	27.0	50.0	0°	0°	3.0	VBMT 1604..
	PSC50-SVJBR/L35060-16	50	110	165	35.0	60.0	0°	0°	3.0	VBMT 1604..
	PSC63-SVJBR/L45065-16	63	110	190	45.0	65.0	0°	0°	3.0	VBMT 1604..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.					
	PSC40-SVJBR/L27050-16	1335	5516	3718	1750
	PSC50-SVJBR/L35060-16	1335	5516	3718	1750
	PSC63-SVJBR/L45065-16	1335	5516	3718	1750

VBMT					Positive 5° clearance - 35° rhombic inserts.
Ref.	VBMT 1604..	l	s	d	
		16,50	4,76	9,52	
VBMT					
					





SVJC 93°

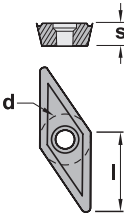


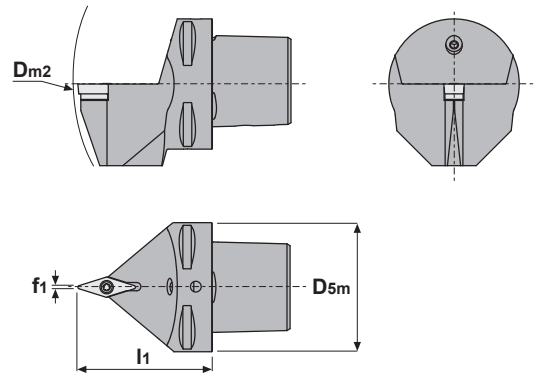
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
PSC32-SVJCR/L22040-11		32	80	22.0	40.0	0°	0°	0.9	VC.. 1103..
PSC40-SVJCR/L27050-11		40	80	27.0	50.0	0°	0°	0.9	VC.. 1103..
PSC50-SVJCR/L35060-11		50	80	35.0	60.0	0°	0°	0.9	VC.. 1103..
PSC40-SVJCR/L27050-16		40	110	27.0	50.0	0°	0°	3.0	VC.. 1604..
PSC50-SVJCR/L35060-16		50	110	35.0	60.0	0°	0°	3.0	VC.. 1604..
PSC63-SVJCR/L45065-16		63	110	45.0	65.0	0°	0°	3.0	VC.. 1604..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.					
PSC32-SVJCR/L22040-11		1225	5507	-	-
PSC40-SVJCR/L27050-11		1225	5507	-	-
PSC50-SVJCR/L35060-11		1225	5507	-	-
PSC40-SVJCR/L27050-16		1335	5516	3718	1750
PSC50-SVJCR/L35060-16		1335	5516	3718	1750
PSC63-SVJCR/L45065-16		1335	5516	3718	1750

	VC..				Positive 7° clearance - 35° rhombic inserts.		
	Ref.	VC.. 1103..	VC.. 1604..				
		11,00	3,18	6,35			
		16,50	4,76	9,52			
	VCGT-AL	VCGT-AP	VCMT-03				
							



SVVB 72° 30'



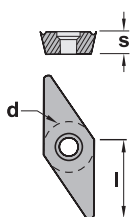
Characteristics:
PSC with internal coolant.

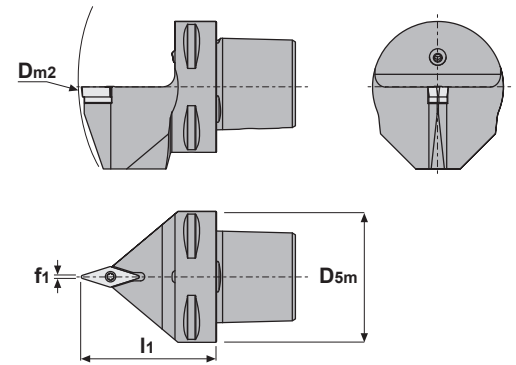
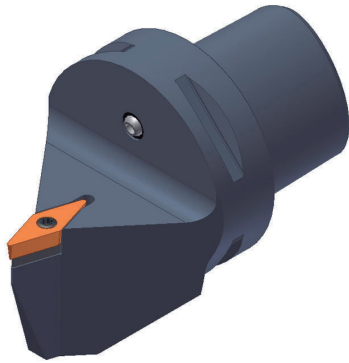
Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-SVVB00050-16	40	140	0.6	50.0	0°	0°	3.0	VBMT 1604..
	PSC50-SVVB00060-16	50	165	0.6	60.0	0°	0°	3.0	VBMT 1604..
	PSC63-SVVB00065-16	63	190	0.6	65.0	0°	0°	3.0	VBMT 1604..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.					
	PSC40-SVVB00050-16	1335	5516	3718	1750
	PSC50-SVVB00060-16	1335	5516	3718	1750
	PSC63-SVVB00065-16	1335	5516	3718	1750

VBMT					Positive 5° clearance - 35° rhombic inserts.
Ref.	VBMT 1604..	l	s	d	
		16,50	4,76	9,52	
VBMT					
					





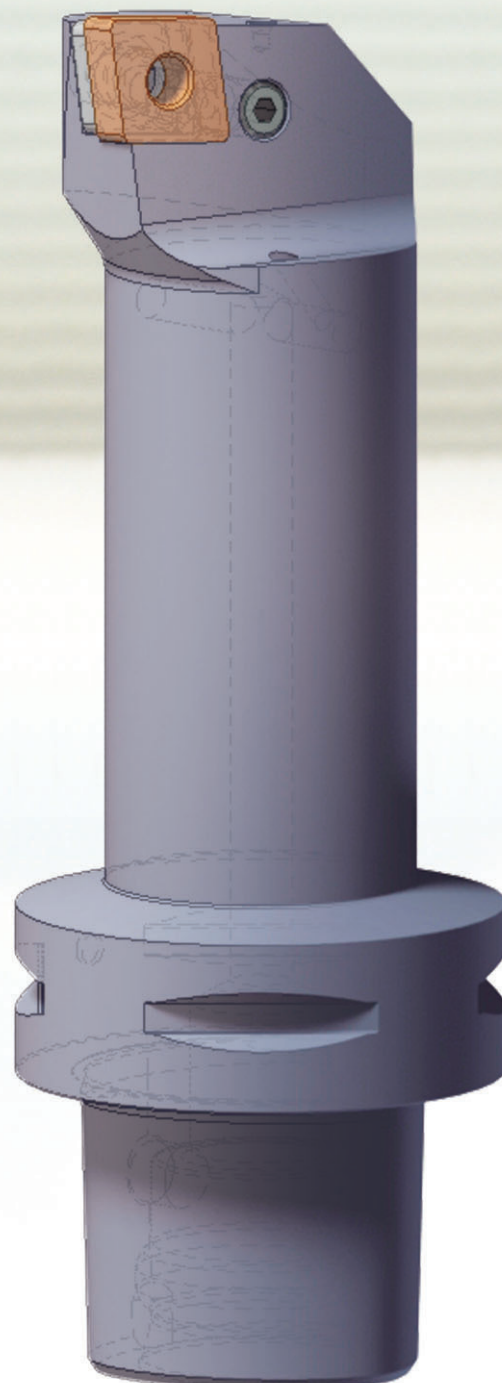
PSC with internal coolant.

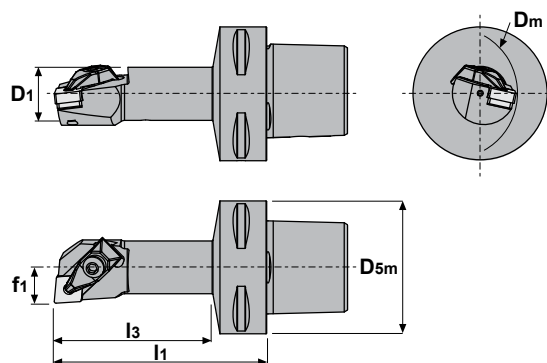
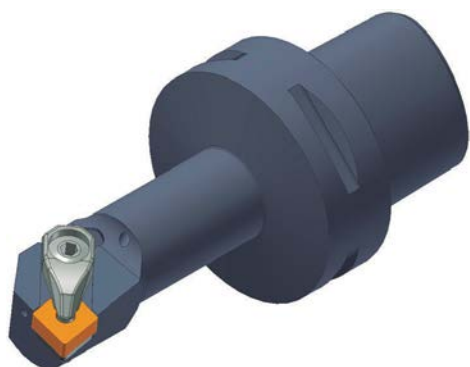
- 1) γ = Rake angle (valid a smooth insert).
- 2) λ_s = Angle of inclination.
- 3) N_m = Insert moment of force.



PSC Boring bars

Boring bars (Dimple clamp D)	104
Boring bars (Wedge clamp / Double lock M)	107
Boring bars (Lever lock P)	110
Boring bars (Center screw S)	113





DCLN 95°



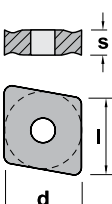
Characteristics:
PSC with internal coolant.

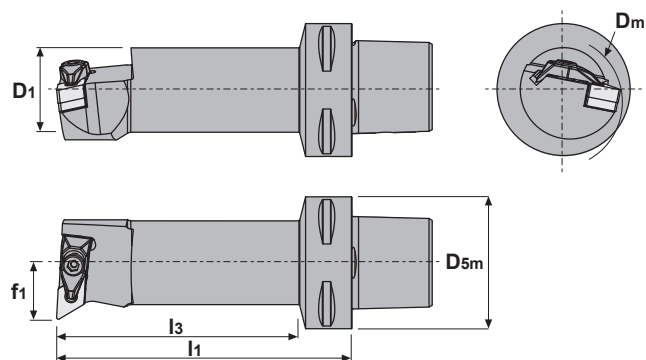
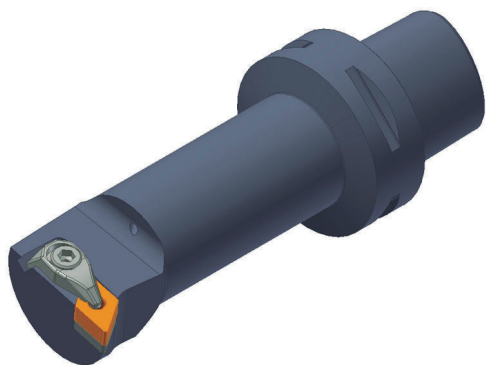
Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Insert
PSC40-DCLNR/L13080-09		25.0	20	40	13.0	80.0	57.0	-6°	-14°	CN.. 0903..
PSC50-DCLNR/L13080-09		25.0	20	50	13.0	80.0	56.0	-6°	-14°	CN.. 0903..
PSC40-DCLNR/L17090-12		32.0	25	40	17.0	90.0	68.0	-6°	-12°	CN.. 1204..
PSC50-DCLNR/L17090-12		32.0	25	50	17.0	90.0	66.0	-6°	-12°	CN.. 1204..
PSC63-DCLNR/L17100-12		32.0	25	63	17.0	100.0	72.0	-6°	-12°	CN.. 1204..
PSC63-DCLNR/L27140-16		50.0	40	63	27.0	140.0	114.0	-6°	-16°	CN.. 1606..

1) y= Rake angle (valid a smooth insert).

2) λs= Angle of inclination.

Ref.							
PSC40-DCLNR/L13080-09		-	-	2708	1695	4294	5003
PSC50-DCLNR/L13080-09		-	-	2708	1695	4294	5003
PSC40-DCLNR/L17090-12		1766	ICSN-442	2712	1696	4295	5004
PSC50-DCLNR/L17090-12		1766	ICSN-442	2712	1696	4295	5004
PSC63-DCLNR/L17100-12		1766	ICSN-442	2712	1696	4295	5004
PSC63-DCLNR/L27140-16		1768	ICSN-533	2716	1696	4295	5004

	CN..				Negative 80° rhombic inserts.				
	Ref.	CN.. 0903..	9,65	3,18	9,52	CNMG-CF	CNMG-CM	CNMG-CR	CNMG-CS
		CN.. 1204..	12,90	4,76	12,70				
		CN.. 1606..	16,10	6,35	15,88				
CNGP	CNMA	CNMG-CFM	CNMG-CFC	CNMG-CMC	CNMG-CMF	CNMG-CMR	CNMM		
									



DDUN 93°

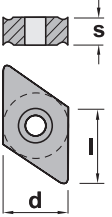
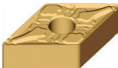
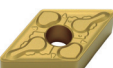
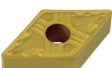
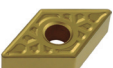


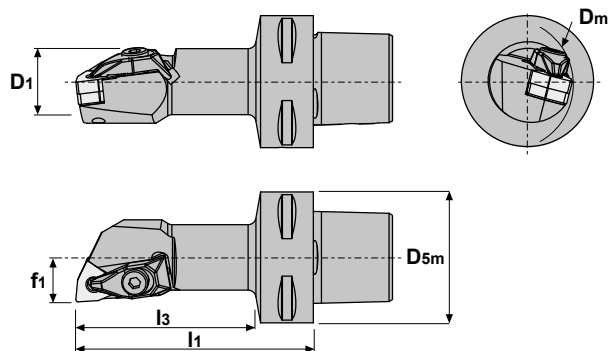
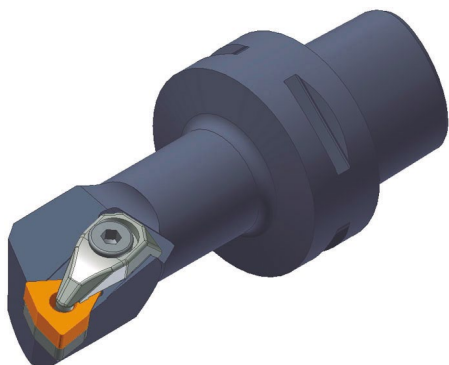
Characteristics:
PSC with internal coolant.

Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Insert
	PSC40-DDUNR/L17090-11	32.0	25.0	40	17.0	90.0	68.0	-6°	-12°	DN.. 1104..
	PSC50-DDUNR/L17090-11	32.0	25.0	50	17.0	90.0	66.0	-6°	-12°	DN.. 1104..
	PSC40-DDUNR/L27080-15	50.0	39.7	40	27.0	80.0	59.0	-6°	-11°	DN.. 1506..
	PSC50-DDUNR/L27140-15	50.0	40.0	50	27.0	140.0	118.0	-6°	-11°	DN.. 1506..
	PSC63-DDUNR/L27140-15	50.0	40.0	63	27.0	140.0	114.0	-6°	-11°	DN.. 1506..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

Ref.							
	PSC40-DDUNR/L17090-11	1764	IDSN-322	2708	1695	4294	5003
	PSC50-DDUNR/L17090-11	1764	IDSN-322	2708	1695	4294	5003
	PSC40-DDUNR/L27080-15	1766	IDSN-432	2712	1696	4295	5004
	PSC50-DDUNR/L27140-15	1766	IDSN-432	2712	1696	4295	5004
	PSC63-DDUNR/L27140-15	1766	IDSN-432	2712	1696	4295	5004

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1104..	11,60	4,76	9,52	DNMA	DNMG-CF
		DN.. 1506..	15,50	6,35	12,70		
							
	DNMG-CFM	DNMG-CM	DNMG-CMF	DNMG-CMR	DNMG-CS	DNMX	
							



DWLN 95°



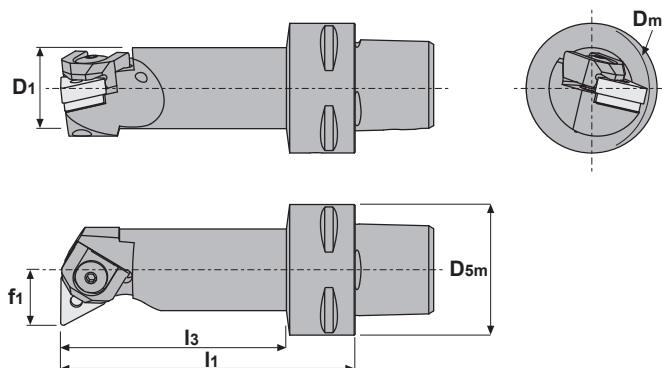
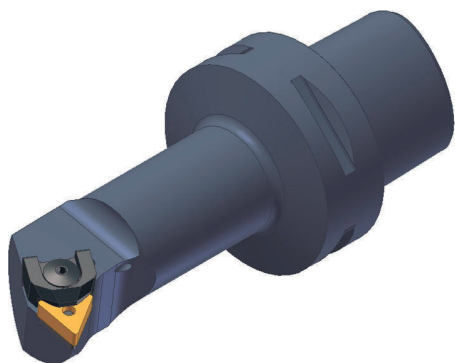
Characteristics:
PSC with internal coolant.

		Dm min.	D1	D5m	f1	l1	l3	y ¹⁾	λs ²⁾	Insert
Ref.	PSC40-DWLN/L13075-06	33.0	20	40	13.0	75.0	52.0	-6°	-17°	WNMG 0604..
	PSC40-DWLN/L17090-08	35.0	25	40	17.0	90.0	68.0	-6°	-12°	WNMG 0804..
	PSC50-DWLN/L17090-08	35.0	25	50	17.0	90.0	66.0	-6°	-12°	WNMG 0804..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

Ref.	PSC40-DWLN/L13075-06	1764	IWSN-322	2708	1695	4294	5003
	PSC40-DWLN/L17090-08	1766	IWSN-433	2712	1696	4295	5004
	PSC50-DWLN/L17090-08	1766	IWSN-433	2712	1696	4295	5004

	WNMG				Negative 80° trigon inserts.		
	Ref.	WNMG 0604..	WNMG 0804..				
		6,45	4,76	9,52			
		8,14	4,76	12,70			
	WNMG-CF	WNMG-CFM	WNMG-CM	WNMG-CMC	WNMG-CMF	WNMG-CMR	WNMG-CS



MTFN 90°

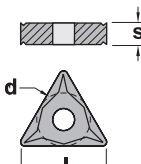


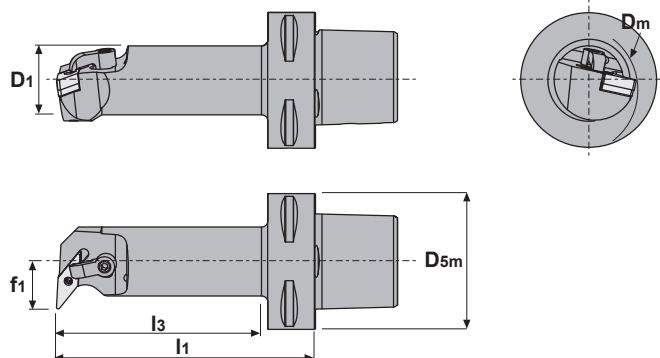
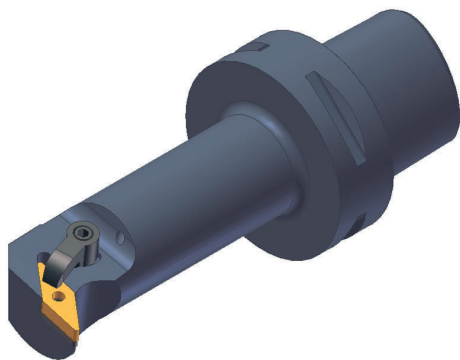
Characteristics:
PSC with internal coolant.

Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Insert
PSC40-MTFNR/L17090-16		32.0	25	40	17.0	90.0	69.0	-6°	-13°	TNM.. 1604..
PSC40-MTFNR/L22110-16		40.0	32	40	22.0	110.0	89.0	-6°	-12°	TNM.. 1604..
PSC40-MTFNR/L27120-16		50.0	40	40	27.0	120.0	100.0	-6°	-11°	TNM.. 1604..
PSC50-MTFNR/L17090-16		32.0	25	50	17.0	90.0	67.0	-6°	-13°	TNM.. 1604..
PSC50-MTFNR/L22110-16		40.0	32	50	22.0	110.0	88.0	-6°	-12°	TNM.. 1604..
PSC50-MTFNR/L27140-16		50.0	40	50	27.0	140.0	119.0	-6°	-11°	TNM.. 1604..
PSC63-MTFNR/L22110-16		40.0	32	63	22.0	110.0	84.0	-6°	-12°	TNM.. 1604..
PSC63-MTFNR/L27140-16		50.0	40	63	27.0	140.0	115.0	-6°	-11°	TNM.. 1604..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

Ref.						
PSC40-MTFNR/L17090-16		2017	1644	5025	3414	1813
PSC40-MTFNR/L22110-16		2017	1644	5025	3414	1393
PSC40-MTFNR/L27120-16		2017	1644	5025	3414	1393
PSC50-MTFNR/L17090-16		2017	1644	5025	3414	1393
PSC50-MTFNR/L22110-16		2017	1644	5025	3414	1393
PSC50-MTFNR/L27140-16		2017	1644	5025	3414	1393
PSC63-MTFNR/L22110-16		2017	1644	5025	3414	1393
PSC63-MTFNR/L27140-16		2017	1644	5025	3414	1393

	TNM..				Negative triangular inserts.			
	Ref.	TNM.. 1604..	l	16,50	s	4,76	d	9,52
					TNMA	TNMG-CF	TNMG-CFC	
								
	TNMG-CFM	TNMG-CM	TNMG-CMC	TNMG-CMF	TNMG-CMR	TNMG-CS	TNMX R/L	
								



MVUN 93°



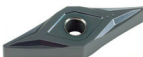
Characteristics:

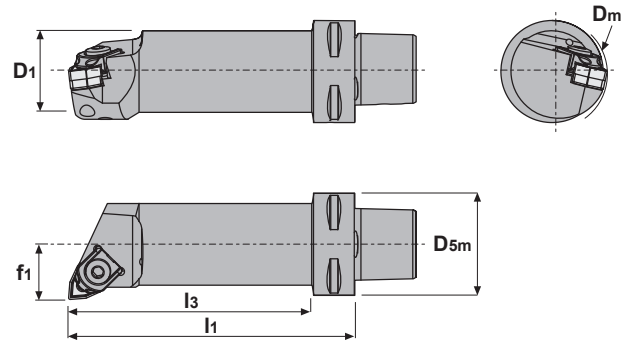
PSC with internal coolant.

Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	γ ¹⁾	λs ²⁾	Insert
	PSC40-MVUNR/L27120-16	50.0	40	40	27.0	120.0	100.0	-6°	-10°	VN.. 1604..
	PSC50-MVUNR/L27140-16	50.0	40	50	27.0	140.0	119.0	-6°	-10°	VN.. 1604..
	PSC50-MVUNR/L35150-16	63.0	50	50	35.0	150.0	131.0	-6°	-10°	VN.. 1604..
	PSC63-MVUNR/L22120-16	40.0	32	63	22.0	120.0	94.0	-6°	-12°	VN.. 1604..
	PSC63-MVUNR/L35175-16	63.0	50	63	35.0	175.0	152.0	-6°	-10°	VN.. 1604..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.

Ref.							
	PSC40-MVUNR/L27120-16	2614	5003	IVSN-322	1086	1665	5002
	PSC50-MVUNR/L27140-16	2614	5003	IVSN-322	1086	1665	5002
	PSC50-MVUNR/L35150-16	2614	5003	IVSN-322	1086	1665	5002
	PSC63-MVUNR/L22120-16	2614	5003	IVSN-322	1186	1665	5002
	PSC63-MVUNR/L35175-16	2614	5003	IVSN-322	1086	1665	5002

Ref.	VN..			Negative 35° rhombic inserts.		
	VN.. 1604..	l	s	d		
		16,50	4,76	9,52		
	VNGP	VNMG	VNMG-CMC			
						



MWLN 95°

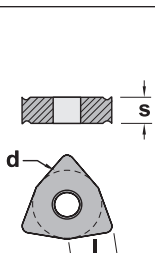


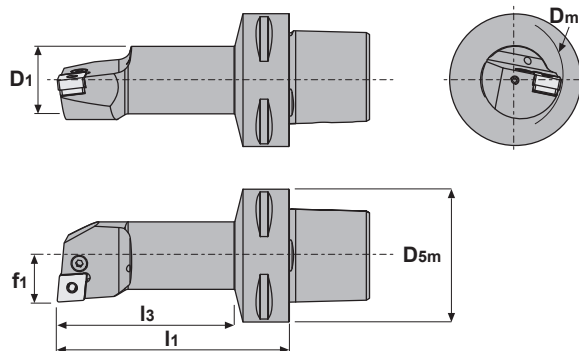
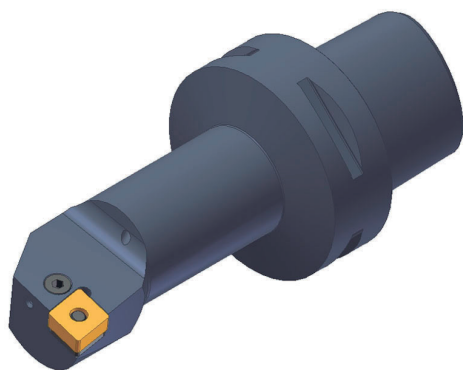
Characteristics:
PSC with internal coolant.

Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	γ ¹⁾	λs ²⁾	Insert
	PSC32-MWLN/L13075-06	25.0	20	32	13.0	75.0	59.0	-6°	-14°	WNMG 0604..
	PSC32-MWLN/L17090-06	32.0	25	32	17.0	90.0	75.0	-6°	-12°	WNMG 0604..
	PSC40-MWLN/L13075-06	25.0	20	40	13.0	75.0	53.0	-6°	-14°	WNMG 0604..
	PSC40-MWLN/L17090-06	32.0	25	40	17.0	90.0	69.0	-6°	-12°	WNMG 0604..
	PSC40-MWLN/L17090-08	32.0	25	40	17.0	90.0	69.0	-6°	-14°	WNMG 0804..
	PSC40-MWLN/L22110-08	40.0	32	40	22.0	110.0	89.0	-6°	-14°	WNMG 0804..
	PSC40-MWLN/L27120-08	50.0	40	40	27.0	120.0	100.0	-6°	-12°	WNMG 0804..
	PSC50-MWLN/L17090-08	32.0	25	50	17.0	90.0	67.0	-6°	-14°	WNMG 0804..
	PSC50-MWLN/L22110-08	40.0	32	50	22.0	110.0	88.0	-6°	-14°	WNMG 0804..
	PSC50-MWLN/L27140-08	50.0	40	50	27.0	140.0	119.0	-6°	-12°	WNMG 0804..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.

Ref.						
	PSC32-MWLN/L13075-06	2006	5025	-	1643	1813
	PSC32-MWLN/L17090-06	2006	5025	3006	1644	1813
	PSC40-MWLN/L13075-06	2006	5025	-	1643	1813
	PSC40-MWLN/L17090-06	2006	5025	3006	1644	1813
	PSC40-MWLN/L17090-08	2011	5005	-	1647	1814
	PSC40-MWLN/L22110-08	2011	5005	IWSN-433	1661	1814
	PSC40-MWLN/L27120-08	2011	5005	IWSN-433	1661	1814
	PSC50-MWLN/L17090-08	2011	5005	-	1647	1814
	PSC50-MWLN/L22110-08	2011	5005	IWSN-433	1661	1814
	PSC50-MWLN/L27140-08	2011	5005	IWSN-433	1661	1814

	WNMG				Negative 80° trigon inserts.			
	Ref.	WNMG 0604..	l	s				d
		WNMG 0804..	6,45	4,76				9,52
			8,14	4,76				12,70
	WNMG-CF	WNMG-CFM	WNMG-CM	WNMG-CMC	WNMG-CMF	WNMG-CMR	WNMG-CS	
								



PCLN 95°

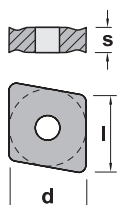


Characteristics:
PSC with internal coolant.

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.



Ref.		Dm min.	D1	D5m	f1	l1	l3	γ^1	λs^2	Insert						
	PSC40-PCLNR/L13080-09	25.0	20	40	13.0	80.0	58.0	-6°	-11°	CN.. 0903..	8005	1605	5002	-	-	-
	PSC50-PCLNR/L13080-09	25.0	20	50	13.0	80.0	56.0	-6°	-11°	CN.. 0903..	8005	1605	5002	-	-	-
	PSC32-PCLNR/L17090-12	32.0	25	32	17.0	90.0	75.0	-6°	-11°	CN.. 1204..	8212	1626	5025	-	-	-
	PSC32-PCLNR/L22064-12	40.0	32	32	22.0	64.0	50.0	-6°	-11°	CN.. 1204..	8312	1648	5003	3612	4112	0012
	PSC32-PCLNR/L22096-12	40.0	32	32	22.0	96.0	82.0	-6°	-11°	CN.. 1204..	8312	1648	5003	3612	4112	0012
	PSC40-PCLNR/L17090-12	32.0	25	40	17.0	90.0	69.0	-6°	-11°	CN.. 1204..	8212	1626	5025	-	-	-
	PSC40-PCLNR/L22110-12	40.0	32	40	22.0	110.0	89.0	-6°	-11°	CN.. 1204..	8312	1648	5003	3612	4112	0012
	PSC40-PCLNR/L27080-12	50.0	40	40	27.0	80.0	60.0	-6°	-10°	CN.. 1204..	8012	1608	5003	3612	4112	0012
	PSC40-PCLNR/L27120-12	50.0	40	40	27.0	120.0	100.0	-6°	-11°	CN.. 1204..	8012	1608	5003	3612	4112	0012
	PSC50-PCLNR/L17090-12	32.0	25	50	17.0	90.0	67.0	-6°	-11°	CN.. 1204..	8212	1626	5025	-	-	-
	PSC50-PCLNR/L22110-12	40.0	32	50	22.0	110.0	88.0	-6°	-11°	CN.. 1204..	8312	1648	5003	3612	4112	0012
	PSC50-PCLNR/L27140-12	50.0	40	50	27.0	140.0	119.0	-6°	-10°	CN.. 1204..	8012	1608	5003	3612	4112	0012
	PSC50-PCLNR/L35100-12	63.0	50	50	35.0	100.0	81.0	-6°	-7°	CN.. 1204..	8012	1608	5003	3612	4112	0012
	PSC63-PCLNR/L17100-12	32.0	25	63	17.0	100.0	74.0	-6°	-11°	CN.. 1204..	8212	1626	5025	-	-	-
	PSC63-PCLNR/L22110-12	40.0	32	63	22.0	110.0	84.0	-6°	-11°	CN.. 1204..	8312	1648	5003	3612	4112	0012
	PSC50-PCLNR/L35150-16	63.0	50	50	35.0	150.0	131.0	-6°	-11°	CN.. 1606..	8016	1618	5003	3616	4115	0015
	PSC63-PCLNR/L27140-16	50.0	40	63	27.0	140.0	115.0	-6°	-11°	CN.. 1606..	8016	1618	5003	3616	4115	0015
	PSC63-PCLNR/L35175-16	63.0	50	63	35.0	175.0	152.0	-6°	-11°	CN.. 1606..	8016	1618	5003	3616	4115	0015



CN..

l

s

d

Negative 80° rhombic inserts.

Ref.

CN.. 0903..

9,65

3,18

9,52

CN.. 1204..

12,90

4,76

12,70

CN.. 1606..

16,10

6,35

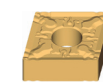
15,88

CNMG-CF

CNMG-CM

CNMG-CR

CNMG-CS



CNGP

CNMA

CNMG-CFM

CNMG-CFC

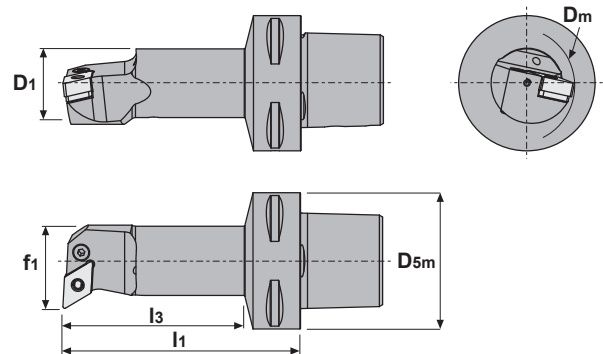
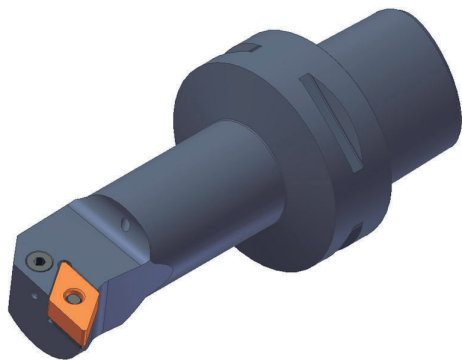
CNMG-CMC

CNMG-CMF

CNMG-CMR

CNMM





PDUN 93°



Characteristics:

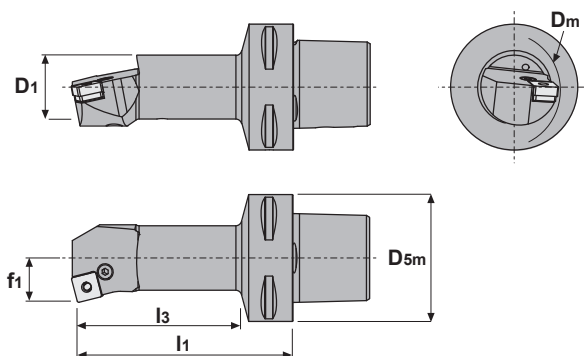
PSC with internal coolant.

Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	γ ¹⁾	λs ²⁾	Insert
PSC32-PDUNR/L17090-11		32.0	25	32	17.0	90.0	75.0	-6°	-11°	DN.. 1104..
PSC40-PDUNR/L17090-11		32.0	25	40	17.0	90.0	69.0	-6°	-11°	DN.. 1104..
PSC40-PDUNR/L22110-11		40.0	32	40	22.0	110.0	89.0	-6°	-10°	DN.. 1104..
PSC50-PDUNR/L17090-11		32.0	25	50	17.0	90.0	67.0	-6°	-11°	DN.. 1104..
PSC50-PDUNR/L22110-11		40.0	32	50	22.0	110.0	88.0	-6°	-10°	DN.. 1104..
PSC63-PDUNR/L17100-11		32.0	25	63	17.0	100.0	74.0	-6°	-11°	DN.. 1104..
PSC40-PDUNR/L27080-15		50.0	40	40	27.0	80.0	60.0	-6°	-11°	DN.. 1506..
PSC40-PDUNR/L27120-15		50.0	40	40	27.0	120.0	100.0	-6°	-11°	DN.. 1506..
PSC50-PDUNR/L27140-15		50.0	40	50	27.0	140.0	119.0	-6°	-11°	DN.. 1506..
PSC50-PDUNR/L35100-15		63.0	50	50	35.0	100.0	81.0	-6°	-10°	DN.. 1506..
PSC50-PDUNR/L35150-15		63.0	50	50	35.0	150.0	131.0	-6°	-10°	DN.. 1506..
PSC63-PDUNR/L22110-15		40.0	32	63	22.0	110.0	84.0	-6°	-12°	DN.. 1506..
PSC63-PDUNR/L27140-15		50.0	40	63	27.0	140.0	115.0	-6°	-11°	DN.. 1506..
PSC63-PDUNR/L35175-15		63.0	50	63	35.0	175.0	152.0	-6°	-10°	DN.. 1506..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.

Ref.							
PSC32-PDUNR/L17090-11		8009	1606	5025	3711	4109	0009
PSC40-PDUNR/L17090-11		8009	1606	5025	3711	4109	0009
PSC40-PDUNR/L22110-11		8009	1606	5025	3711	4109	0009
PSC50-PDUNR/L17090-11		8009	1606	5025	3711	4109	0009
PSC50-PDUNR/L22110-11		8009	1606	5025	3711	4109	0009
PSC63-PDUNR/L17100-11		8009	1606	5025	3711	4109	0009
PSC40-PDUNR/L27080-15		8415	1638	5003	3715	4112	0012
PSC40-PDUNR/L27120-15		8415	1638	5003	3715	4112	0012
PSC50-PDUNR/L27140-15		8415	1638	5003	3715	4112	0012
PSC50-PDUNR/L35100-15		8415	1638	5003	3715	4112	0012
PSC50-PDUNR/L35150-15		8415	1638	5003	3715	4112	0012
PSC63-PDUNR/L22110-15		8415	1638	5003	3715	4112	0012
PSC63-PDUNR/L27140-15		8415	1638	5003	3715	4112	0012
PSC63-PDUNR/L35175-15		8415	1638	5003	3715	4112	0012

	DN..				Negative 55° rhombic inserts.		
	Ref.	DN.. 1104..	l	s	d	DNMA	DNMG-CF
		DN.. 1506..	11,60	4,76	9,52		
			15,50	6,35	12,70		



PSKN 75°

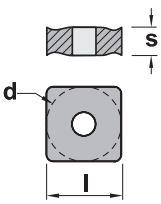


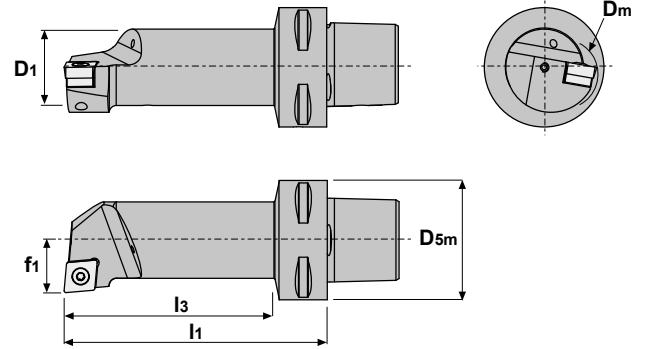
Characteristics:
PSC with internal coolant.

		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Insert
Ref.	PSC40-PSKNR/L17090-12	32.0	25	40	17.0	90.0	69.0	-6°	-11°	SNM.. 1204..
	PSC50-PSKNR/L17090-12	32.0	25	50	17.0	90.0	67.0	-6°	-11°	SNM.. 1204..
	PSC50-PSKNR/L22110-12	40.0	32	50	22.0	110.0	68.0	-6°	-10°	SNM.. 1204..
	PSC50-PSKNR/L27140-12	50.0	40	50	27.0	140.0	119.0	-6°	-10°	SNM.. 1204..
	PSC63-PSKNR/L22110-12	40.0	32	63	22.0	110.0	84.0	-6°	-10°	SNM.. 1204..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.

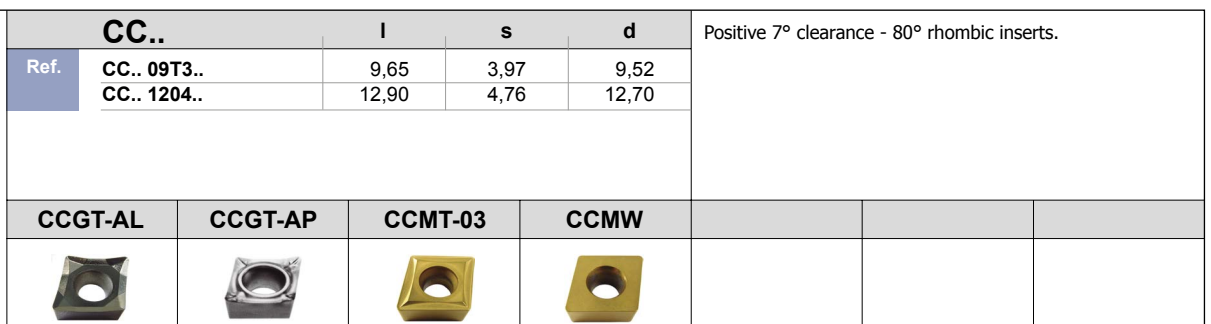
							
Ref.	PSC40-PSKNR/L17090-12	8212	1626	5025	-	-	-
	PSC50-PSKNR/L17090-12	8212	1626	5025	-	-	-
	PSC50-PSKNR/L22110-12	8312	1648	5003	3512	4112	0012
	PSC50-PSKNR/L27140-12	8012	1608	5003	3512	4112	0012
	PSC63-PSKNR/L22110-12	8012	1608	5003	3512	4112	0012

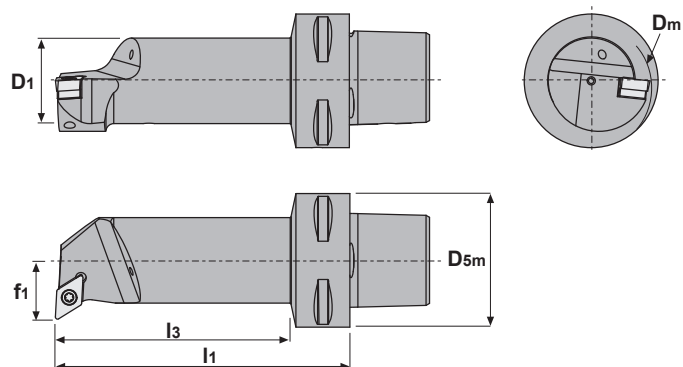
	SNM..				Negative square inserts.			
	Ref.	SNM.. 1204..	l	s				d
	SNMA	SNMG-CFM	SNMG-CMR	SNMG-CR	SNMM			
								



PSC with internal coolant.

- 1) γ = Rake angle (valid a smooth insert).
- 2) λ_s = Angle of inclination.
- 3) N_m = Insert moment of force.





PSC with internal coolant.

min.

		D _{0m} min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC32-SDUCR/L11065-07	20.0	16.0	32	11.0	65.0	48.0	0°	-6°	0.9	DC.. 0702..
	PSC40-SDUCR/L11070-07	20.0	16.0	40	11.0	70.0	47.0	0°	-8°	0.9	DC.. 0702..
	PSC50-SDUCR/L11070-07	20.0	16.0	50	11.0	70.0	46.0	0°	-8°	0.9	DC.. 0702..
	PSC32-SDUCR/L13075-11	25.0	20.0	32	13.0	75.0	59.0	0°	-6°	3.0	DC.. 11T3..
	PSC32-SDUCR/L17090-11	32.0	25.0	32	17.0	90.0	75.0	0°	-6°	3.0	DC.. 11T3..
	PSC32-SDUCR/L22064-11	40.0	31.7	32	22.0	64.0	50.0	0°	-6°	3.0	DC.. 11T3..
	PSC32-SDUCR/L22096-11	40.0	31.7	32	22.0	96.0	82.0	0°	-6°	3.0	DC.. 11T3..
	PSC40-SDUCR/L13080-11	25.0	20.0	40	13.0	80.0	58.0	0°	-6°	3.0	DC.. 11T3..
	PSC40-SDUCR/L17090-11	32.0	25.0	40	17.0	90.0	69.0	0°	-6°	3.0	DC.. 11T3..
	PSC40-SDUCR/L22110-11	40.0	32.0	40	22.0	110.0	89.0	0°	-6°	3.0	DC.. 11T3..
	PSC40-SDUCR/L27080-11	50.0	40.0	40	27.0	80.0	60.0	0°	-6°	3.0	DC.. 11T3..
	PSC50-SDUCR/L13080-11	25.0	20.0	50	13.0	80.0	56.0	0°	-6°	3.0	DC.. 11T3..
	PSC50-SDUCR/L17090-11	32.0	25.0	50	17.0	90.0	67.0	0°	-6°	3.0	DC.. 11T3..
	PSC50-SDUCR/L22110-11	40.0	32.0	50	22.0	110.0	88.0	0°	-6°	3.0	DC.. 11T3..
PSC50-SDUCR/L35100-11	63.0	49.7	50	35.0	100.0	81.0	0°	-4°	3.0	DC.. 11T3..	

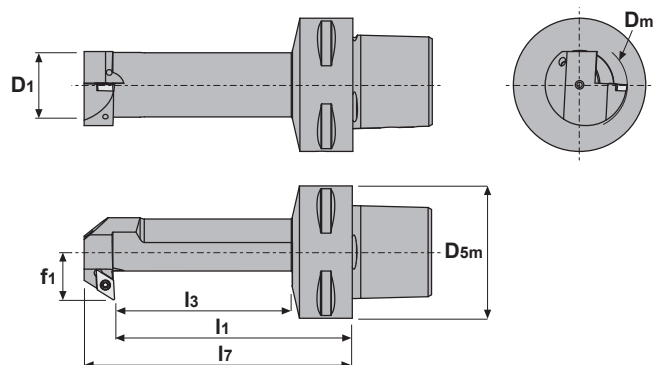
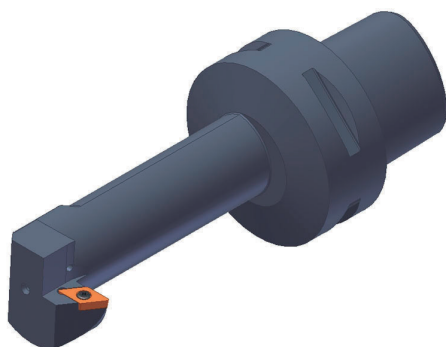
3) N_m = Insert moment of force.

					
Ref.	PSC32-SDUCR/L11065-07	1225	5507	-	-
	PSC40-SDUCR/L11070-07	1225	5507	-	-
	PSC50-SDUCR/L11070-07	1225	5507	-	-
	PSC32-SDUCR/L13075-11	1240	5515	-	-
	PSC32-SDUCR/L17090-11	1240	5515	-	-
	PSC32-SDUCR/L22064-11	1335	5516	3714	1750
	PSC32-SDUCR/L22096-11	1335	5516	3714	1750
	PSC40-SDUCR/L13080-11	1240	5515	-	-
	PSC40-SDUCR/L17090-11	1240	5515	-	-
	PSC40-SDUCR/L22110-11	1335	5516	3714	1750
	PSC40-SDUCR/L27080-11	1335	5516	3714	1750
	PSC50-SDUCR/L13080-11	1240	5515	-	-
	PSC50-SDUCR/L17090-11	1240	5515	-	-
	PSC50-SDUCR/L22110-11	1335	5516	3714	1750
	PSC50-SDUCR/L35100-11	1335	5516	3714	1750

Technical drawing of a DC.. insert. The top view shows a rhombic shape with a central circular hole. The side view shows the thickness of the insert. Dimensions are labeled: 's' for the thickness, 'l' for the length of the rhombus, and 'd' for the diameter of the central hole.

DC..				
Ref.		l	s	d
	DC.. 0702..	7,75	2,38	6,35
	DC.. 11T3..	11,60	3,97	9,52
DCGT-AL		DCGT-AP	DCMT-03	DCMW

Positive 7° clearance - 55° rhombic inserts.



SDUC-X 93°



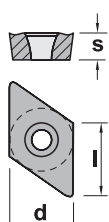
Characteristics:
PSC with internal coolant.

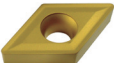
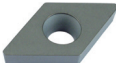
Ref.		Dm min.	D1	D5m	f1	l1	l3	l7	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
PSC32-SDUCR/L13070-07X		22.0	16	32	13.0	70.0	54.0	80.7	0°	-6°	0.9	DC.. 0702..
PSC32-SDUCR/L15080-07X		27.0	20	32	15.0	80.0	64.0	80.7	0°	-3°	0.9	DC.. 0702..
PSC40-SDUCR/L13070-07X		22.0	16	40	13.0	70.0	48.0	80.7	0°	-6°	0.9	DC.. 0702..
PSC40-SDUCR/L15080-07X		27.0	20	40	15.0	80.0	58.0	91.5	0°	-3°	0.9	DC.. 0702..
PSC40-SDUCR/L18090-07X		32.0	25	40	18.0	90.0	69.0	101.5	0°	-3°	0.9	DC.. 0702..
PSC50-SDUCR/L15080-07X		27.0	20	50	15.0	80.0	57.0	91.5	0°	-3°	0.9	DC.. 0702..
PSC50-SDUCR/L18090-07X		32.0	25	50	18.0	90.0	67.0	101.5	0°	-3°	0.9	DC.. 0702..

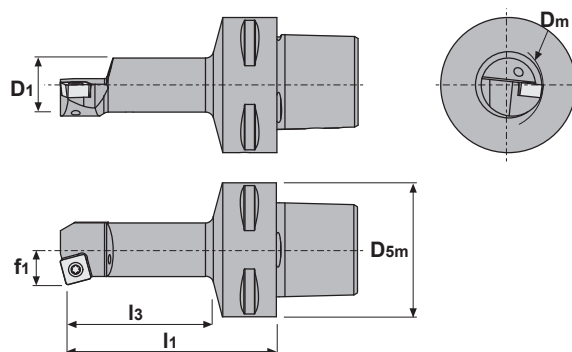
1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.



Ref.			
PSC32-SDUCR/L13070-07X		1225	5507
PSC32-SDUCR/L15080-07X		1225	5507
PSC40-SDUCR/L13070-07X		1225	5507
PSC40-SDUCR/L15080-07X		1225	5507
PSC40-SDUCR/L18090-07X		1225	5507
PSC50-SDUCR/L15080-07X		1225	5507
PSC50-SDUCR/L18090-07X		1225	5507



DC..		l	s	d	Positive 7° clearance - 55° rhombic inserts.		
Ref.	DC.. 0702..	7,75	2,38	6,35			
DCGT-AL	DCGT-AP	DCMT-03	DCMW				
							



SSKC 75°



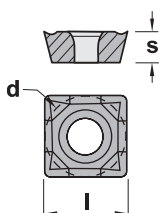
Characteristics:
PSC with internal coolant.

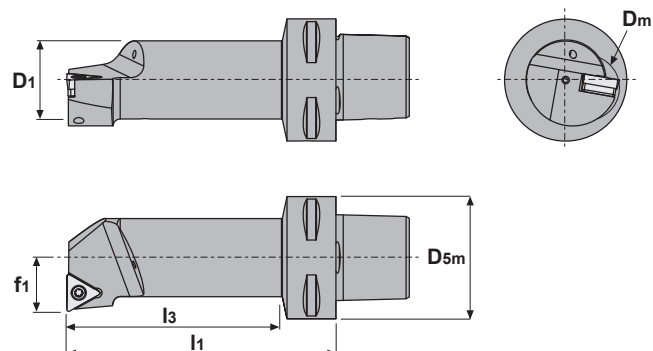
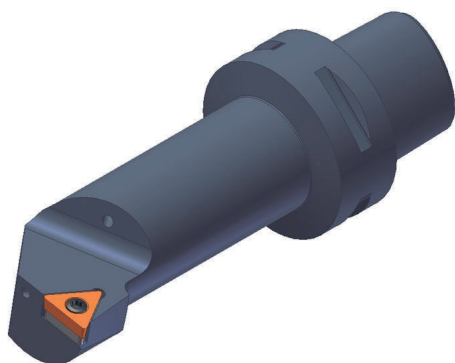
Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-SSKCR/L13080-09	25.0	20	40	13.0	80.0	58.0	0°	-6°	3.0	SC.. 09T3..
	PSC50-SSKCR/L13080-09	25.0	20	50	13.0	80.0	56.0	0°	-6°	3.0	SC.. 09T3..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.



Ref.			
	PSC40-SSKCR/L13080-09	1240	5515
	PSC50-SSKCR/L13080-09	1240	5515

	SC..				Positive 7° clearance - Square inserts.			
	Ref.	SC.. 09T3..	l	s				d
	SCGT-AL	SCMT-03	SCMT-39					
								



STFC 90°



Characteristics:

PSC with internal coolant.

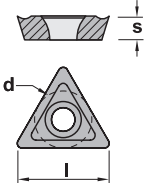
Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
PSC32-STFCR/L11065-11	PSC32-STFCR/L11065-11	20.0	16	32	11.0	65.0	48.0	0°	-4°	0.9	TC.. 1102..
	PSC32-STFCR/L13075-11	25.0	20	32	13.0	75.0	59.0	0°	-3°	0.9	TC.. 1102..
	PSC40-STFCR/L11070-11	20.0	16	40	11.0	70.0	47.0	0°	-4°	0.9	TC.. 1102..
	PSC40-STFCR/L13080-11	25.0	20	40	13.0	80.0	57.0	0°	-3°	0.9	TC.. 1102..
	PSC50-STFCR/L11070-11	20.0	16	50	11.0	70.0	46.0	0°	-4°	0.9	TC.. 1102..
	PSC50-STFCR/L13080-11	25.0	20	50	13.0	80.0	56.0	0°	-3°	0.9	TC.. 1102..
	PSC32-STFCR/L17090-16	32.0	25	32	17.0	90.0	74.0	0°	-3.5°	3.0	TC.. 16T3..
	PSC40-STFCR/L17090-16	32.0	25	40	17.0	90.0	69.0	0°	-6°	3.0	TC.. 16T3..
	PSC40-STFCR/L22110-16	40.0	32	40	22.0	110.0	89.0	0°	-10°	3.0	TC.. 16T3..
	PSC50-STFCR/L17090-16	32.0	25	50	17.0	90.0	67.0	0°	-6°	3.0	TC.. 16T3..
	PSC50-STFCR/L22110-16	40.0	32	50	22.0	110.0	88.0	0°	-10°	3.0	TC.. 16T3..

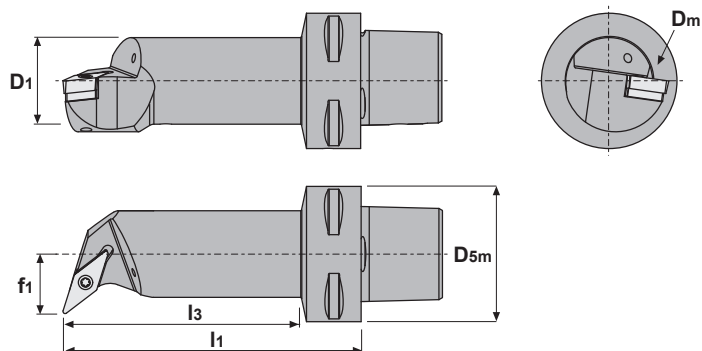
1) y= Rake angle (valid a smooth insert).

2) λs= Angle of inclination.

3) Nm= Insert moment of force.

Ref.					
PSC32-STFCR/L11065-11	PSC32-STFCR/L11065-11	1225	5507	-	-
	PSC32-STFCR/L13075-11	1225	5507	-	-
	PSC40-STFCR/L11070-11	1225	5507	-	-
	PSC40-STFCR/L13080-11	1225	5507	-	-
	PSC50-STFCR/L11070-11	1225	5507	-	-
	PSC50-STFCR/L13080-11	1225	5507	-	-
	PSC32-STFCR/L17090-16	1240	5515	-	-
	PSC40-STFCR/L17090-16	1240	5515	-	-
	PSC40-STFCR/L22110-16	1335	5516	3414	1750
	PSC50-STFCR/L17090-16	1240	5515	-	-
	PSC50-STFCR/L22110-16	1335	5516	3414	1750

	TC..				Positive 7° clearance - Triangular inserts.	
	Ref.	TC.. 1102..	TC.. 16T3..			
		11,00	2,38	6,35		
		16,50	3,97	9,52		
	TCGT-AL	TCMT-03	TCMW			
						



SVQB 107° 30'

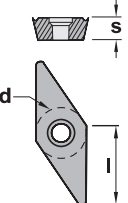


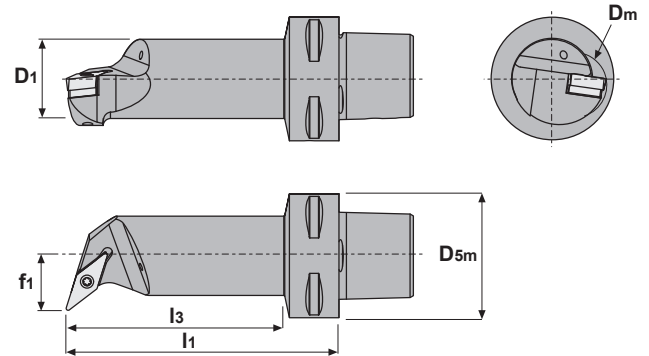
Characteristics:
PSC with internal coolant.

Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
PSC32-SVQBR/L18090-16		33.0	25.0	32	18.0	90.0	75.0	0°	-6°	3.0	VBMT 1604..
PSC32-SVQBR/L22096-16		40.0	31.7	32	22.0	96.0	82.0	0°	-8°	3.0	VBMT 1604..
PSC32-SVQBR/L22064-16		40.0	31.7	32	22.0	64.0	49.0	0°	-7.5°	3.0	VBMT 1604..
PSC40-SVQBR/L18090-16		33.0	25.0	40	18.0	90.0	69.0	0°	-6°	3.0	VBMT 1604..
PSC40-SVQBR/L22110-16		40.0	32.0	40	22.0	110.0	89.0	0°	-8°	3.0	VBMT 1604..
PSC40-SVQBR/L27080-16		50.0	40.0	40	27.0	80.0	60.0	0°	-8°	3.0	VBMT 1604..
PSC40-SVQBR/L27120-16		50.0	40.0	40	27.0	120.0	100.0	0°	-8°	3.0	VBMT 1604..
PSC50-SVQBR/L18090-16		33.0	25.0	50	18.0	90.0	67.0	0°	-6°	3.0	VBMT 1604..
PSC50-SVQBR/L22110-16		40.0	32.0	50	22.0	110.0	88.0	0°	-8°	3.0	VBMT 1604..
PSC50-SVQBR/L27140-16		50.0	40.0	50	27.0	140.0	119.0	0°	-8°	3.0	VBMT 1604..
PSC50-SVQBR/L35100-16		63.0	50.0	50	35.0	100.0	81.0	0°	-7°	3.0	VBMT 1604..
PSC50-SVQBR/L35150-16		63.0	50.0	50	35.0	150.0	131.0	0°	-7°	3.0	VBMT 1604..
PSC63-SVQBR/L22120-16		40.0	32.0	63	22.0	120.0	94.0	0°	-8°	3.0	VBMT 1604..
PSC63-SVQBR/L27145-16		50.0	40.0	63	27.0	145.0	120.0	0°	-8°	3.0	VBMT 1604..
PSC63-SVQBR/L35175-16		63.0	50.0	63	35.0	175.0	152.0	0°	-8°	3.0	VBMT 1604..

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.					
PSC32-SVQBR/L18090-16		1335	5516	3718	1750
PSC32-SVQBR/L22096-16		1335	5516	3718	1750
PSC32-SVQBR/L22064-16		1335	5516	3718	1750
PSC40-SVQBR/L18090-16		1335	5516	3718	1750
PSC40-SVQBR/L22110-16		1335	5516	3718	1750
PSC40-SVQBR/L27080-16		1335	5516	3718	1750
PSC40-SVQBR/L27120-16		1335	5516	3718	1750
PSC50-SVQBR/L18090-16		1335	5516	3718	1750
PSC50-SVQBR/L22110-16		1335	5516	3718	1750
PSC50-SVQBR/L27140-16		1335	5516	3718	1750
PSC50-SVQBR/L35100-16		1335	5516	3718	1750
PSC50-SVQBR/L35150-16		1335	5516	3718	1750
PSC63-SVQBR/L22120-16		1335	5516	3718	1750
PSC63-SVQBR/L27145-16		1335	5516	3718	1750
PSC63-SVQBR/L35175-16		1335	5516	3718	1750

Ref.	VBMT	l	s	d	Positive 5° clearance - 35° rhombic inserts.
	VBMT 1604..	16,50	4,76	9,52	
					
					



SVQC 107° 30'



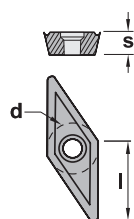
Characteristics:
PSC with internal coolant.

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.		Dm min.	D1	D5m	f1	l1	l3	γ^1	λs^2	Nm ³	Insert
PSC32-SVQCR/L13070-11		22.0	16	32	13.0	70.0	53.4	0°	-7°	0.9	VC.. 1103..
PSC32-SVQCR/L15080-11		27.0	20	32	15.0	80.0	63.9	0°	-5°	0.9	VC.. 1103..
PSC40-SVQCR/L13070-11		25.0	20	40	13.0	70.0	47.9	0°	-5.5°	0.9	VC.. 1103..
PSC40-SVQCR/L15080-11		27.0	20	40	15.0	80.0	57.9	0°	-5°	0.9	VC.. 1103..
PSC40-SVQCR/L18090-16		33.0	25	40	18.0	90.0	69.0	0°	-12°	3.0	VC.. 1604..
PSC40-SVQCR/L22110-16		40.0	32	40	22.0	110.0	89.0	0°	-8°	3.0	VC.. 1604..
PSC40-SVQCR/L27080-16		50.0	40	40	27.0	80.0	60.0	0°	-8°	3.0	VC.. 1604..
PSC40-SVQCR/L27120-16		50.0	40	40	27.0	120.0	100.0	0°	-8°	3.0	VC.. 1604..
PSC50-SVQCR/L18090-16		33.0	25	50	18.0	90.0	67.0	0°	-12°	3.0	VC.. 1604..
PSC50-SVQCR/L22110-16		40.0	32	50	22.0	110.0	88.0	0°	-8°	3.0	VC.. 1604..
PSC50-SVQCR/L27140-16		50.0	40	50	27.0	140.0	119.0	0°	-8°	3.0	VC.. 1604..
PSC50-SVQCR/L35100-16		63.0	50	50	35.0	100.0	81.0	0°	-7°	3.0	VC.. 1604..
PSC50-SVQCR/L35150-16		63.0	50	50	35.0	150.0	131.0	0°	-7°	3.0	VC.. 1604..
PSC63-SVQCR/L22120-16		40.0	32	63	22.0	120.0	94.0	0°	-8°	3.0	VC.. 1604..
PSC63-SVQCR/L27145-16		50.0	40	63	27.0	145.0	120.0	0°	-8°	3.0	VC.. 1604..
PSC63-SVQCR/L35175-16		63.0	50	63	35.0	175.0	152.0	0°	-8°	3.0	VC.. 1604..

Ref.					
PSC32-SVQCR/L13070-11		1225	5507	-	-
PSC32-SVQCR/L15080-11		1225	5507	-	-
PSC40-SVQCR/L13070-11		1225	5507	-	-
PSC40-SVQCR/L15080-11		1225	5507	-	-
PSC40-SVQCR/L18090-16		1335	5516	3718	1750
PSC40-SVQCR/L22110-16		1335	5516	3718	1750
PSC40-SVQCR/L27080-16		1335	5516	3718	1750
PSC40-SVQCR/L27120-16		1335	5516	3718	1750
PSC50-SVQCR/L18090-16		1335	5516	3718	1750
PSC50-SVQCR/L22110-16		1335	5516	3718	1750
PSC50-SVQCR/L27140-16		1335	5516	3718	1750
PSC50-SVQCR/L35100-16		1335	5516	3718	1750
PSC50-SVQCR/L35150-16		1335	5516	3718	1750
PSC63-SVQCR/L22120-16		1335	5516	3718	1750
PSC63-SVQCR/L27145-16		1335	5516	3718	1750
PSC63-SVQCR/L35175-16		1335	5516	3718	1750

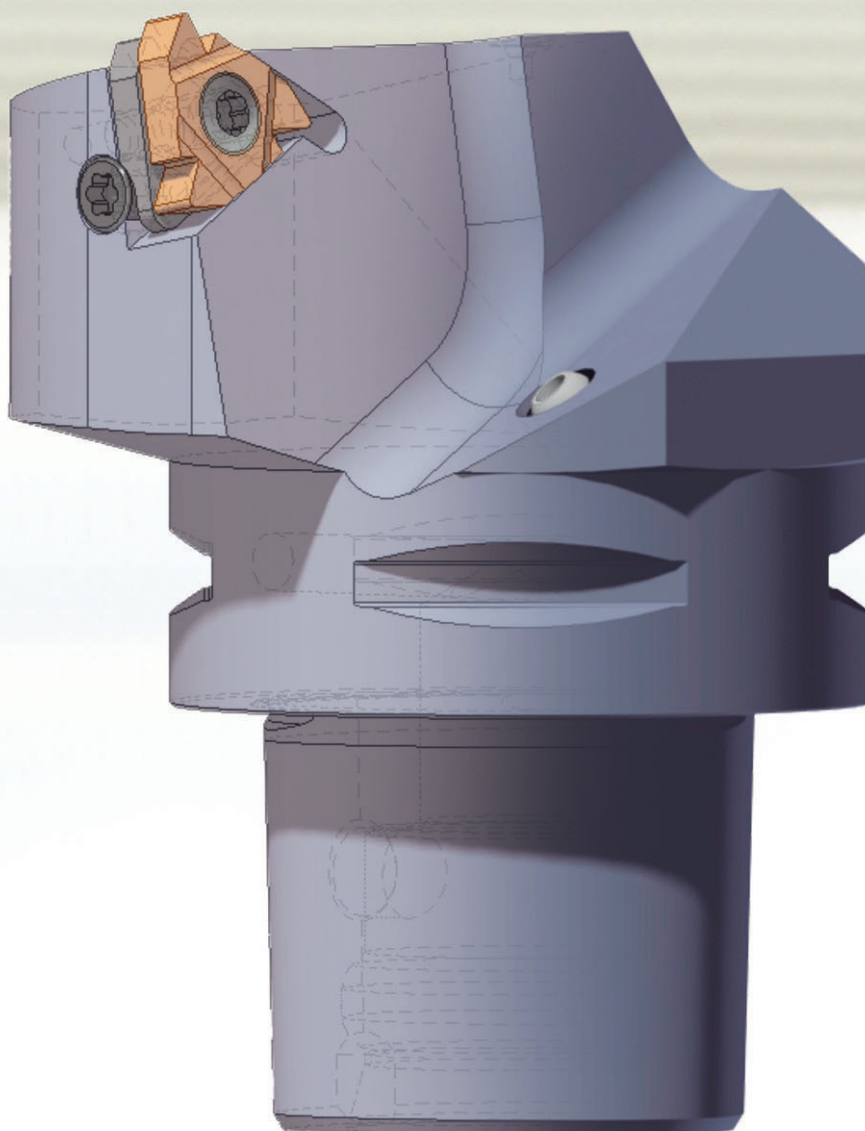
VC..		l	s	d	Positive 7° clearance - 35° rhombic inserts.		
Ref.							
VC.. 1103..		11,00	3,18	6,35			
VC.. 1604..		16,50	4,76	9,52			
VCGT-AL	VCGT-AP	VCMT-03					
							

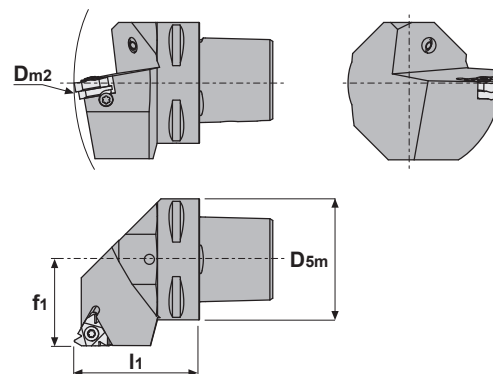
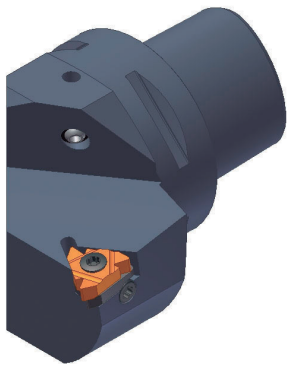


PSC Threading

SE 90° (Toolholder) 121

SI 90° (Boring bar) 122





SE 90°

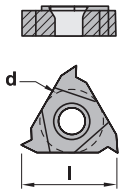


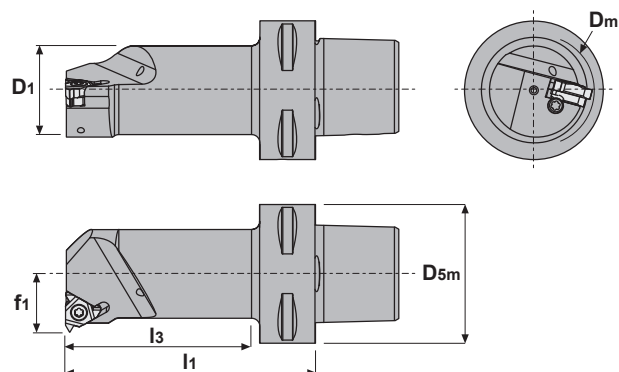
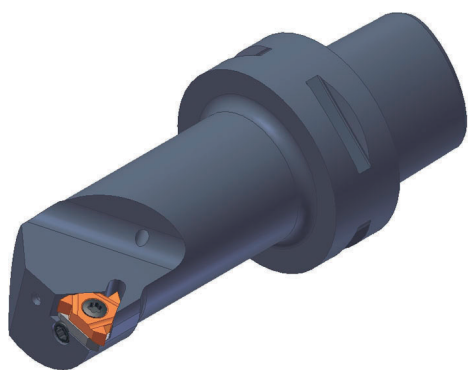
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm2 min.	f1	l1	Nm ¹⁾	Insert
PSC32-SER/L22040-16		32	124	22	40	1.7	16 ER/L..
PSC40-SER/L27050-16		40	140	27	50	1.7	16 ER/L..
PSC50-SER/L35060-16		50	165	35	60	1.7	16 ER/L..
PSC63-SER/L45065-16		63	190	45	65	1.7	16 ER/L..
PSC32-SER/L22040-22		32	124	22	40	3.9	22 ER/L..
PSC40-SER/L27050-22		40	140	27	50	3.9	22 ER/L..
PSC50-SER/L35060-22		50	165	35	60	3.9	22 ER/L..
PSC63-SER/L45065-22		63	190	45	65	3.9	22 ER/L..
PSC80-SER/L55080-22		80	250	55	80	3.9	22 ER/L..

1) Nm= Insert moment of force.

Ref.				 L	 R	
PSC32-SER/L22040-16		SA3	5510	YI3	YE3	SY3
PSC40-SER/L27050-16		SA3	5510	YI3	YE3	SY3
PSC50-SER/L35060-16		SA3	5510	YI3	YE3	SY3
PSC63-SER/L45065-16		SA3	5510	YI3	YE3	SY3
PSC32-SER/L22040-22		SA4	5520	YI4	YE4	SY4
PSC40-SER/L27050-22		SA4	5520	YI4	YE4	SY4
PSC50-SER/L35060-22		SA4	5520	YI4	YE4	SY4
PSC63-SER/L45065-22		SA4	5520	YI4	YE4	SY4
PSC80-SER/L55080-22		SA4	5520	YI4	YE4	SY4

	E R/L		I	d	Negative triangular inserts for external threading.		
	Ref.	16 ER/L..	16,00	9,52			
		22 ER/L..	22,00	12,70			
	E R/L	E R/L TD					
							



SI 90°



Characteristics:
PSC with internal coolant.

1) Nm = Insert moment of force.

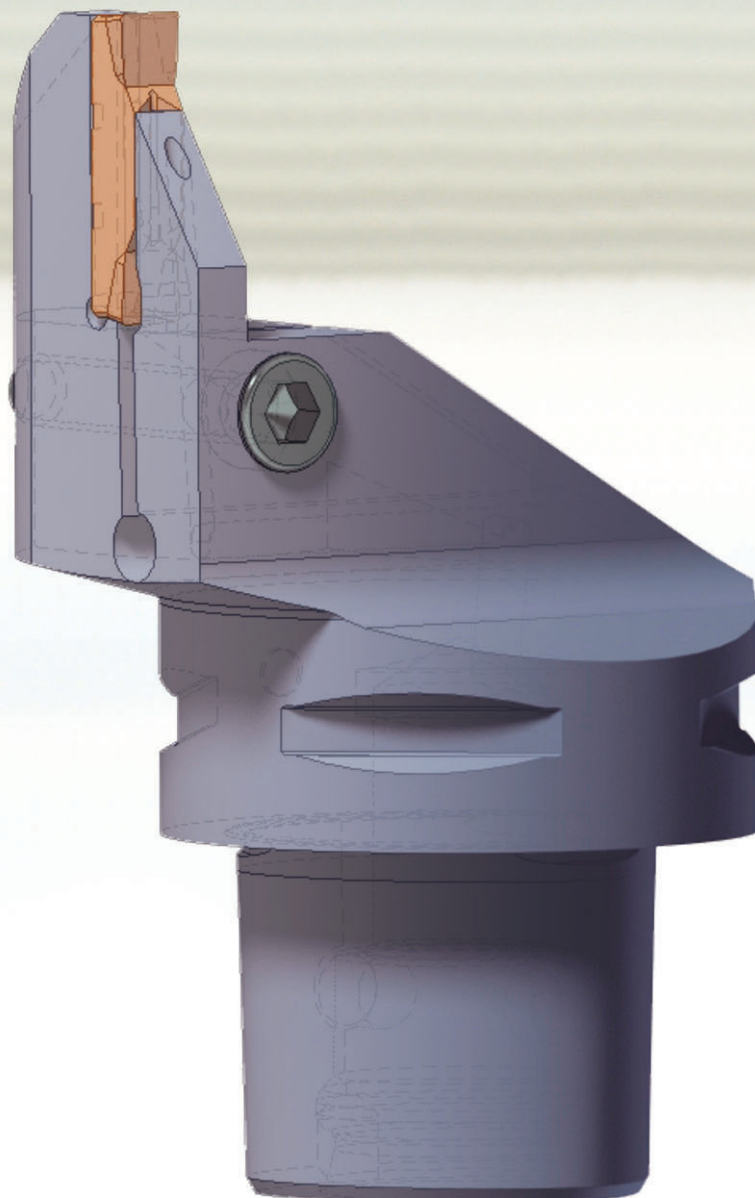


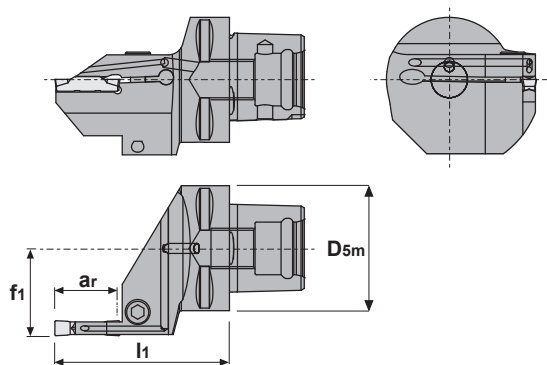
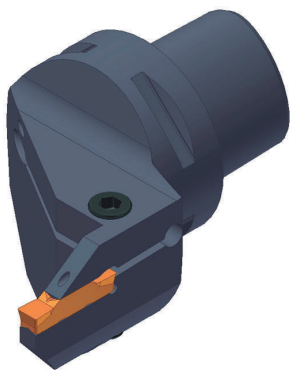
Ref.		D1	Dm min.	D5m	f1	l1	l3	Nm ¹⁾	Insert			L	R	
PSC32-SIR/L12050-16		15.5	20	32	12	50	33	1.7	16 NR/L..	SN3	5510	-	-	-
PSC32-SIR/L14060-16		18.5	25	32	14	60	44	1.7	16 NR/L..	SA3T	5510	YE3	YI3	SY3
PSC32-SIR/L17065-16		24.5	32	32	17	65	49	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC32-SIR/L22085-16		31.5	40	32	22	85	70	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC40-SIR/L12060-16		15.5	20	40	12	60	37	1.7	16 NR/L..	SN3	5510	-	-	-
PSC40-SIR/L14060-16		18.5	25	40	14	60	38	1.7	16 NR/L..	SA3T	5510	YE3	YI3	SY3
PSC40-SIR/L17070-16		24.5	32	40	17	70	48	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC40-SIR/L22090-16		32.0	40	40	22	90	69	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC40-SIR/L27080-16		39.5	50	40	27	80	60	1.7	16 NR/L..	SA4	5520	YE3	YI3	SY3
PSC50-SIR/L12060-16		15.5	20	50	12	60	35	1.7	16 NR/L..	SN3	5510	-	-	-
PSC50-SIR/L14060-16		18.5	25	50	14	60	36	1.7	16 NR/L..	SA3T	5510	YE3	YI3	SY3
PSC50-SIR/L17070-16		24.5	32	50	17	70	47	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC50-SIR/L22090-16		24.5	40	50	22	90	68	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC50-SIR/L27105-16		40.0	50	50	27	105	84	1.7	16 NR/L..	SA4	5520	YE3	YI3	SY3
PSC63-SIR/L14070-16		18.5	25	63	14	70	42	1.7	16 NR/L..	SA3T	5510	YE3	YI3	SY3
PSC63-SIR/L17075-16		24.5	32	63	17	75	48	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC63-SIR/L22090-16		32.0	40	63	22	90	64	1.7	16 NR/L..	SA3	5510	YE3	YI3	SY3
PSC63-SIR/L27105-16		40.0	50	63	27	105	80	1.7	16 NR/L..	SA4	5520	YE3	YI3	SY3
PSC40-SIR/L15065-22		18.5	25	40	15	65	42	3.9	22 NR/L..	SN4	5520	-	-	-
PSC40-SIR/L19070-22		25.0	32	40	19	70	48	3.9	22 NR/L..	SA3	5510	YE4	YI4	SY4
PSC40-SIR/L22090-22		31.5	40	40	22	90	69	3.9	22 NR/L..	SA3	5510	YE4	YI4	SY4
PSC40-SIR/L27080-22		39.5	50	40	27	80	60	3.9	22 NR/L..	SA4	5520	YE4	YI4	SY4
PSC50-SIR/L15065-22		18.5	25	50	15	65	41	3.9	22 NR/L..	SN4	5520	-	-	-
PSC50-SIR/L19070-22		25.0	32	50	19	70	47	3.9	22 NR/L..	SA3	5510	YE4	YI4	SY4
PSC50-SIR/L22090-22		31.5	40	50	22	90	68	3.9	22 NR/L..	SA3	5510	YE4	YI4	SY4
PSC50-SIR/L27105-22		40.0	50	50	27	105	84	3.9	22 NR/L..	SA4	5520	YE4	YI4	SY4
PSC63-SIR/L19075-22		25.0	32	63	19	75	48	3.9	22 NR/L..	SA3	5510	YE4	YI4	SY4
PSC63-SIR/L22090-22		31.5	40	63	22	90	64	3.9	22 NR/L..	SA3	5510	YE4	YI4	SY4
PSC63-SIR/L27105-22		40.0	50	63	27	105	80	3.9	22 NR/L..	SA4	5520	YE4	YI4	SY4

	N R/L			Negative triangular inserts for external threading.			
	Ref.	16 NR/L..	16,00	9,52			
		22 NR/L..	22,00	12,70			
	N R/L	N R/L TD					
							

PSC Parting and grooving

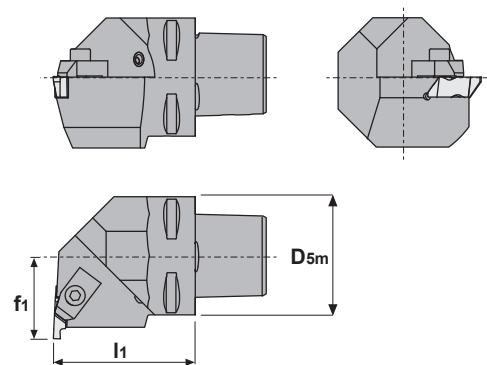
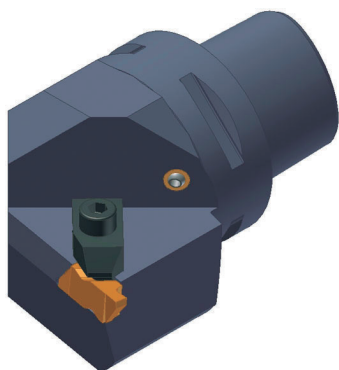
CZCD	124
NE 93°	125
NR 45°	126
NS 93°	127
NNT0 93°	128





CZCD		 Characteristics: PSC with internal coolant.						 	
		D5m	f1	l1	Nm ¹⁾	ar max	Insert		
Ref.	PSC32-CZCDR/L22055-02	32	22	55	4.0	15	WDM.. 02	1296	5005
	PSC40-CZCDR/L27055-02	40	27	55	4.0	15	WDM.. 02	1096	5005
	PSC50-CZCDR/L35060-02	50	35	60	4.0	15	WDM.. 02	1096	5005
	PSC32-CZCDR/L22055-03	32	22	55	5.0	20	WDM.. 03	1296	5005
	PSC40-CZCDR/L27060-03	40	27	60	5.0	20	WDM.. 03	1096	5005
	PSC50-CZCDR/L35060-03	50	35	60	5.0	20	WDM.. 03	1096	5005
	PSC63-CZCDR/L45065-03	63	45	65	5.0	20	WDM.. 03	1096	5005
	PSC32-CZCDR/L22060-04	32	22	60	7.0	20	WDM.. 04	1296	5005
	PSC40-CZCDR/L27067-04	40	27	67	7.0	25	WDM.. 04	1096	5005
	PSC50-CZCDR/L35067-04	50	35	67	7.0	25	WDM.. 04	1096	5005
	PSC63-CZCDR/L45070-04	63	45	70	7.0	25	WDM.. 04	1096	5005
	PSC40-CZCDR/L27067-05	40	27	67	6.0	25	WDM.. 05	1096	5005
	PSC50-CZCDR/L35067-05	50	35	67	6.0	25	WDM.. 05	1096	5005
	PSC63-CZCDR/L45070-05	63	45	70	6.0	25	WDM.. 05	1096	5005
	PSC40-CZCDR/L27070-06	40	27	70	6.0	25	WDM.. 06	1096	5005
	PSC50-CZCDR/L35070-06	50	35	70	6.0	25	WDM.. 06	1096	5005
	PSC63-CZCDR/L45075-06	63	45	75	6.0	25	WDM.. 06	1096	5005

WDM..		s				WDMP: Insert for parting WDMG: Insert for grooving WDMT: Insert for turning WDMR: Insert for parting with radius		
Ref.	WDM.. 02	WDM.. 03	WDM.. 04	WDM.. 05	WDM.. 06			
	2,0	3,0	4,0	5,0	6,0			
	WDMP	WDMG	WDMT	WDMR				
								



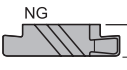
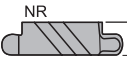
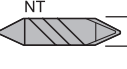
NE 93°

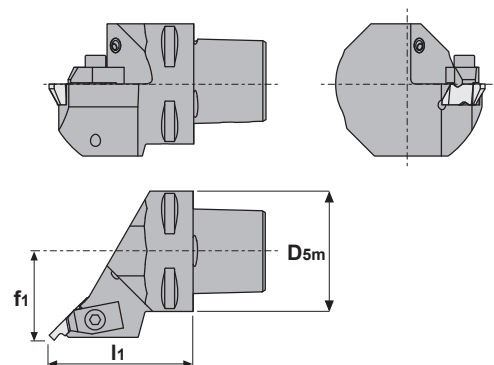
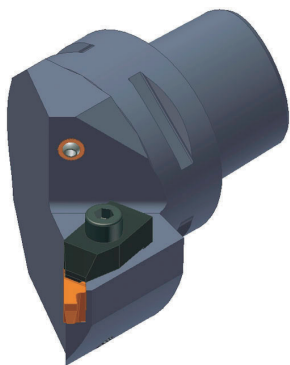


Characteristics:
PSC with internal coolant.

Ref.		D5m	f1	l1	Insert
	PSC40-NER/L27050-03	40	27	50	N.. 3
	PSC50-NER/L35060-03	50	35	60	N.. 3
	PSC63-NER/L45065-03	63	45	65	N.. 3

Ref.					
	PSC40-NER/L27050-03	TF-73	TF-72	5004	1495
	PSC50-NER/L35060-03	TF-73	TF-72	5004	1495
	PSC63-NER/L45065-03	TF-73	TF-72	5004	1495

Ref.	N..	d	a	s	NG: Insert for parting NR: Insert for parting with radius NT: Insert for threading		
	N.. 3	9,53	8,74	4,95			
	NG	NR	NT				
							



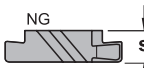
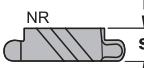
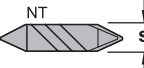
NR 45°

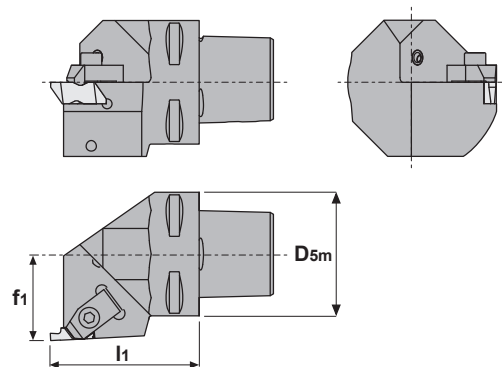
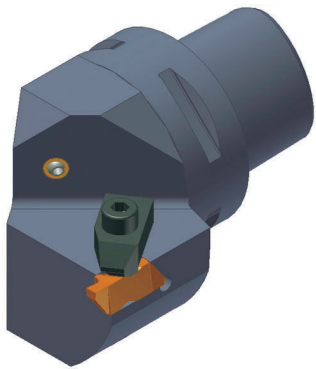


Characteristics:
PSC with internal coolant.

Ref.		D5m	f1	l1	Insert
	PSC40-NRR/L27050-03	40	27	50	N.. 3
	PSC50-NRR/L35060-03	50	35	60	N.. 3
	PSC63-NRR/L45065-03	63	45	65	N.. 3

Ref.					
	PSC40-NRR/L27050-03	TF-73	TF-72	5004	1495
	PSC50-NRR/L35060-03	TF-73	TF-72	5004	1495
	PSC63-NRR/L45065-03	TF-73	TF-72	5004	1495

	N..				NG: Insert for parting NR: Insert for parting with radius NT: Insert for threading			
	Ref.	N.. 3	d 9,53	a 8,74				s 4,95
								
	NG	NR	NT					
								



NS 93°

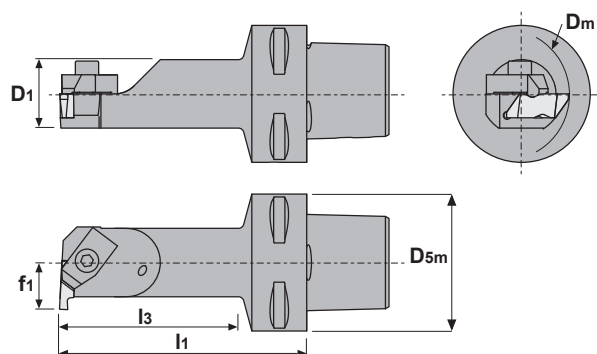
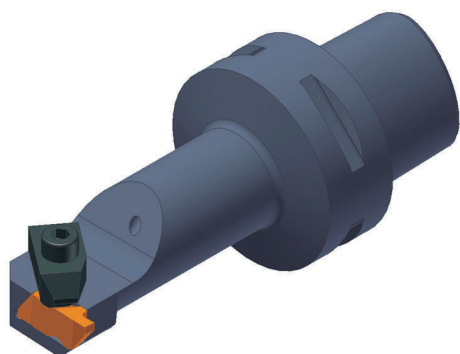


Characteristics:
PSC with internal coolant.

Ref.		D5m	f1	l1	Insert
	PSC32-NSR22040-02	32	22	40	N.. 2
	PSC40-NSR/L27050-02	40	27	50	N.. 2
	PSC32-NSR22045-03	32	22	45	N.. 3
	PSC40-NSR/L27050-03	40	27	50	N.. 3
	PSC50-NSR/L35060-03	50	35	60	N.. 3
	PSC63-NSR/L45065-03	63	45	65	N.. 3
	PSC40-NSR/L27055-04	40	27	55	N.. 4
	PSC50-NSR/L35060-04	50	35	60	N.. 4
	PSC63-NSR/L45065-04	63	45	65	N.. 4

Ref.							
	PSC32-NSR22040-02	TF-74	TF-75	-	-	5003	1494
	PSC40-NSR/L27050-02	TF-74	TF-75	-	-	5003	1494
	PSC32-NSR22045-03	TF-72	TF-73	-	-	5004	1495
	PSC40-NSR/L27050-03	TF-72	TF-73	-	-	5004	1495
	PSC50-NSR/L35060-03	TF-72	TF-73	-	-	5004	1495
	PSC63-NSR/L45065-03	TF-72	TF-73	-	-	5004	1495
	PSC40-NSR/L27055-04	TF-72	TF-73	3521	1625	5004	1495
	PSC50-NSR/L35060-04	TF-72	TF-73	3521	1625	5004	1495
	PSC63-NSR/L45065-04	TF-72	TF-73	3521	1625	5004	1495

Ref.	N..	d	a	s	NG: Insert for parting NR: Insert for parting with radius NT: Insert for threading		
	N.. 2	4,76	5,56	3,81			
	N.. 3	9,53	8,74	4,95			
	N.. 4	9,53	11,51	6,48			
	NG	NR	NT				
							



NNTO 93°



Characteristics:
PSC with internal coolant.

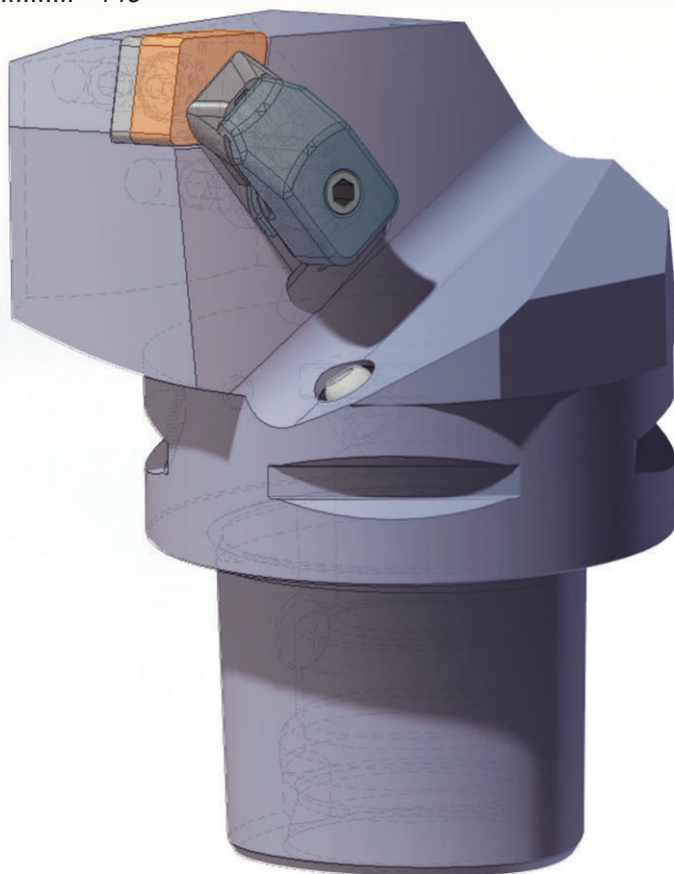
Ref.		D _m min.	D ₁	D _{5m}	f ₁	l ₁	l ₃	Insert
PSC40-NNTOR/L11070-02		22.0	16.0	40	11	70	47.0	N.. 2
PSC40-NNTOR/L13080-02		26.0	20.0	40	13	80	58.0	N.. 2
PSC50-NNTOR/L11070-02		22.0	16.0	50	11	70	46.0	N.. 2
PSC50-NNTOR/L13080-02		26.0	20.0	50	13	80	56.0	N.. 2
PSC50-NNTOR/L17090-02		34.0	25.0	50	17	90	67.0	N.. 2
PSC40-NNTOR/L17090-03		34.0	25.0	40	17	90	69.0	N.. 3
PSC50-NNTOR/L17090-03		34.0	25.0	50	17	90	67.0	N.. 3
PSC50-NNTOR/L22110-03		44.0	32.0	50	22	110	88.0	N.. 3
PSC63-NNTOR/L27140-04		54.0	40.0	63	27	140	115.0	N.. 4
PSC63-NNTOR/L35175-04		70.0	50.0	63	35	175	152.0	N.. 4

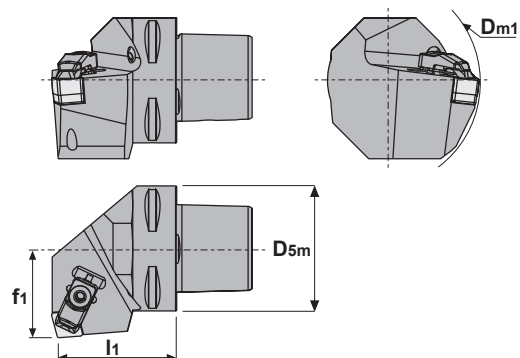
Ref.					
PSC40-NNTOR/L11070-02		TF-147	TF-146	5003	1494
PSC40-NNTOR/L13080-02		TF-75	TF-146	5003	1494
PSC50-NNTOR/L11070-02		TF-75	TF-146	5003	1494
PSC50-NNTOR/L13080-02		TF-75	TF-146	5003	1494
PSC50-NNTOR/L17090-02		TF-75	TF-146	5003	1494
PSC40-NNTOR/L17090-03		TF-73	TF-72	5004	1495
PSC50-NNTOR/L17090-03		TF-73	TF-72	5004	1495
PSC50-NNTOR/L22110-03		TF-73	TF-72	5004	1495
PSC63-NNTOR/L27140-04		TF-73	TF-72	5004	1495
PSC63-NNTOR/L35175-04		TF-73	TF-72	5004	1495

Ref.	N..	d	a	s	NG: Insert for parting NR: Insert for parting with radius NT: Insert for threading		
	N.. 2	4,76	5,56	3,81			
	N.. 3	9,53	8,74	4,95			
	N.. 4	9,53	11,51	6,48			
	NG	NR	NT				
							

PSC Ceramic

CCKN 75°	130
CCLN 95°	131
CCRN 75°	132
CDHN 107° 30'	133
CDJN 93°	134
CDNN 63°	135
CDUN 93°	136
CRSN	137
CSDN 45°	138
CSKN 75°	139
CSRN 75°	140
CSSN 45°	141
CTFN 90°	142
CTGN 90°	143
CVJN 93°	144
CVVN 72° 30'	145





CCKN 75°



Characteristics:
PSC with internal coolant.

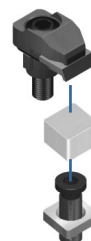
Ref.		D5m	Dm1 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CCKNR/L27050-12-4CD	40	110	27.0	50.0	-6°	-6°	3.9	CNGN 1204..
	PSC40-CCKNR/L27050-12-7CD	40	110	27.0	50.0	-6°	-6°	3.9	CNGN 1207..
	PSC50-CCKNR/L35060-12-4CD	50	110	35.0	60.0	-6°	-6°	3.9	CNGN 1204..
	PSC50-CCKNR/L35060-12-7CD	50	110	35.0	60.0	-6°	-6°	3.9	CNGN 1207..
	PSC63-CCKNR/L45065-12-4CD	63	110	45.0	65.0	-6°	-6°	3.9	CNGN 1204..
	PSC63-CCKNR/L45065-12-7CD	63	110	45.0	65.0	-6°	-6°	3.9	CNGN 1207..
	PSC40-CCKNR/L27050-16CD	40	125	27.0	50.0	-6°	-6°	6.4	CNGN 1607..
	PSC50-CCKNR/L35060-16CD	50	125	35.0	60.0	-6°	-6°	6.4	CNGN 1607..
	PSC63-CCKNR/L45065-16CD	63	125	45.0	65.0	-6°	-6°	6.4	CNGN 1607..
	PSC63-CCKNR/L45065-19CD	63	125	45.0	65.0	-6°	-6°	6.4	CNGN 1907..
	PSC80-CCKNR/L55080-19CD	80	125	55.0	80.0	-6°	-6°	6.4	CNGN 1907..

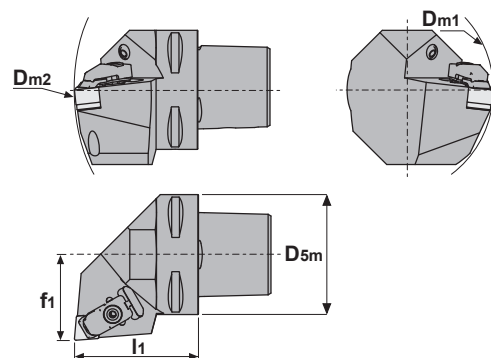
1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

Ref.							
	PSC40-CCKNR/L27050-12-4CD	ICSN-442	1766	9414	2713	1086	5003
	PSC40-CCKNR/L27050-12-7CD	ICSN-422	1766	9414	2713	1086	5003
	PSC50-CCKNR/L35060-12-4CD	ICSN-442	1766	9414	2713	1086	5003
	PSC50-CCKNR/L35060-12-7CD	ICSN-422	1766	9414	2713	1086	5003
	PSC63-CCKNR/L45065-12-4CD	ICSN-442	1766	9414	2713	1086	5003
	PSC63-CCKNR/L45065-12-7CD	ICSN-422	1766	9414	2713	1086	5003
	PSC40-CCKNR/L27050-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC50-CCKNR/L35060-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC63-CCKNR/L45065-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC63-CCKNR/L45065-19CD	ICSN-623	1770	9414	2713	1086	5003
	PSC80-CCKNR/L55080-19CD	ICSN-623	1770	9414	2713	1086	5003

CNGN		l	s	d
Ref.	CNGN 1204..	12,90	4,76	12,70
	CNGN 1207..	12,90	7,94	12,70
	CNGN 1607..	16,10	7,94	15,88
	CNGN 1907..	19,30	7,94	19,05
Negative 80° rhombic inserts.				
CNGN				
				

CD





CCLN 95°



Characteristics:
PSC with internal coolant.

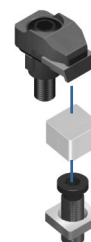
1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

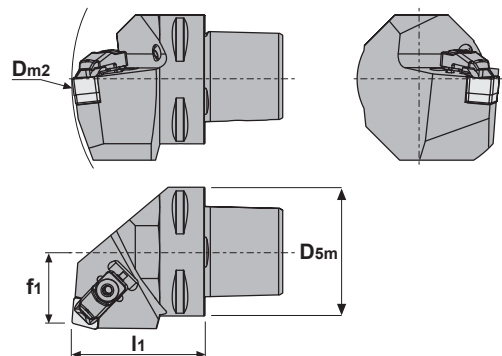
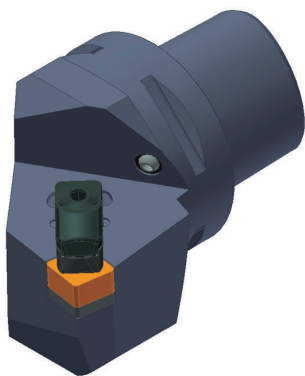
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	γ^1	λs^2	Nm ³	Insert
	PSC40-CCLNR/L27050-12-4CD	40	110	140	27.0	50.0	-6°	-6°	3.9	CNGN 1204..
	PSC40-CCLNR/L27050-12-7CD	40	110	140	27.0	50.0	-6°	-6°	3.9	CNGN 1207..
	PSC50-CCLNR/L35060-12-4CD	50	110	165	35.0	60.0	-6°	-6°	3.9	CNGN 1204..
	PSC50-CCLNR/L35060-12-7CD	50	110	165	35.0	60.0	-6°	-6°	3.9	CNGN 1207..
	PSC63-CCLNR/L45065-12-4CD	63	110	190	45.0	65.0	-6°	-6°	3.9	CNGN 1204..
	PSC63-CCLNR/L45065-12-7CD	63	110	190	45.0	65.0	-6°	-6°	3.9	CNGN 1207..
	PSC63-CCLNR/L45065-16CD	63	125	190	45.0	65.0	-6°	-6°	6.4	CNGN 1607..
	PSC80-CCLNR/L55080-16CD	80	125	250	55.0	80.0	-6°	-6°	6.4	CNGN 1607..

Ref.							
	PSC40-CCLNR/L27050-12-4CD	ICSN-443	1766	9414	2713	1086	5003
	PSC40-CCLNR/L27050-12-7CD	ICSN-424	1766	9414	2713	1086	5003
	PSC50-CCLNR/L35060-12-4CD	ICSN-443	1766	9414	2713	1086	5003
	PSC50-CCLNR/L35060-12-7CD	ICSN-424	1766	9414	2713	1086	5003
	PSC63-CCLNR/L45065-12-4CD	ICSN-443	1766	9414	2713	1086	5003
	PSC63-CCLNR/L45065-12-7CD	ICSN-424	1766	9414	2713	1086	5003
	PSC63-CCLNR/L45065-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC80-CCLNR/L55080-16CD	ICSN-523	1768	9414	2713	1086	5003

CNGN		l	s	d
Ref.	CNGN 1204..	12,90	4,76	12,70
	CNGN 1207..	12,90	7,94	12,70
	CNGN 1607..	16,10	7,94	15,88
Negative 80° rhombic inserts.				
CNGN				
				

CD





CCRN 75°



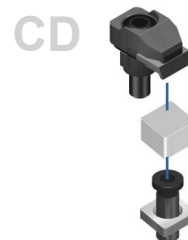
Characteristics:
PSC with internal coolant.

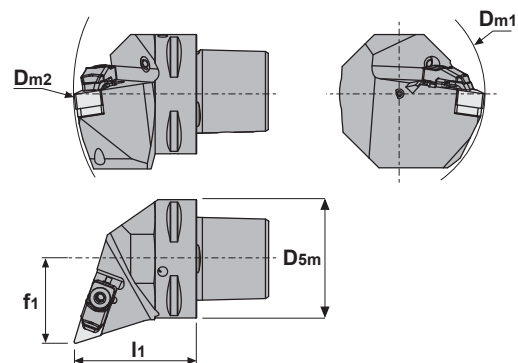
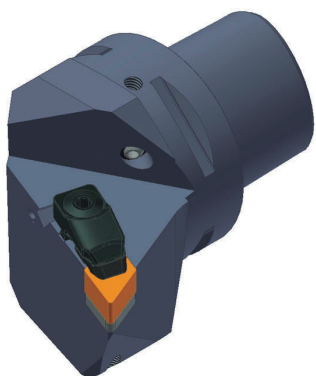
Ref.		D _{5m}	D _{m2} min.	f ₁	l ₁	γ ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CCRN/L22050-12-4CD	40	140	22.0	50.0	-6°	-6°	3.9	CNGN 1204..
	PSC40-CCRN/L22050-12-7CD	40	140	22.0	50.0	-6°	-6°	3.9	CNGN 1207..
	PSC50-CCRN/L27060-12-4CD	50	165	27.0	60.0	-6°	-6°	3.9	CNGN 1204..
	PSC50-CCRN/L27060-12-7CD	50	165	27.0	60.0	-6°	-6°	3.9	CNGN 1207..
	PSC63-CCRN/L35065-12-4CD	63	190	35.0	65.0	-6°	-6°	3.9	CNGN 1204..
	PSC63-CCRN/L35065-12-7CD	63	190	35.0	65.0	-6°	-6°	3.9	CNGN 1207..
	PSC50-CCRN/L27060-16CD	50	165	27.0	60.0	-6°	-6°	6.4	CNGN 1607..
	PSC63-CCRN/L35065-16CD	63	190	35.0	65.0	-6°	-6°	6.4	CNGN 1607..
	PSC80-CCRN/L55080-16CD	80	250	55.0	80.0	-6°	-6°	6.4	CNGN 1607..
	PSC50-CCRN/L27060-19CD	50	165	27.0	60.0	-6°	-6°	6.4	CNGN 1907..
	PSC63-CCRN/L35065-19CD	63	190	35.0	65.0	-6°	-6°	6.4	CNGN 1907..
	PSC80-CCRN/L55080-19CD	80	250	55.0	80.0	-6°	-6°	6.4	CNGN 1907..

1) γ= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-CCRN/L22050-12-4CD	ICSN-442	1766	9414	2713	1086	5003
	PSC40-CCRN/L22050-12-7CD	ICSN-422	1766	9414	2713	1086	5003
	PSC50-CCRN/L27060-12-4CD	ICSN-442	1766	9414	2713	1086	5003
	PSC50-CCRN/L27060-12-7CD	ICSN-422	1766	9414	2713	1086	5003
	PSC63-CCRN/L35065-12-4CD	ICSN-442	1766	9414	2713	1086	5003
	PSC63-CCRN/L35065-12-7CD	ICSN-422	1766	9414	2713	1086	5003
	PSC50-CCRN/L27060-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC63-CCRN/L35065-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC80-CCRN/L55080-16CD	ICSN-523	1768	9414	2713	1086	5003
	PSC50-CCRN/L27060-19CD	ICSN-623	1770	9414	2713	1086	5003
	PSC63-CCRN/L35065-19CD	ICSN-623	1770	9414	2713	1086	5003
	PSC80-CCRN/L55080-19CD	ICSN-623	1770	9414	2713	1086	5003

CNGN				
Ref.		l	s	d
	CNGN 1204..	12,90	4,76	12,70
	CNGN 1207..	12,90	7,94	12,70
	CNGN 1607..	16,10	7,94	15,88
	CNGN 1907..	19,30	7,94	19,05
Negative 80° rhombic inserts.				
CNGN				
				





CDHN 107° 30'



Characteristics:

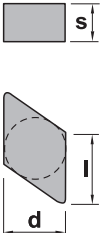
PSC with internal coolant.

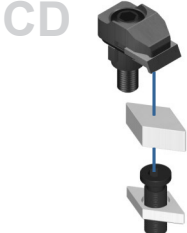
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CDHNR/L27055-15-CD	40	110	145	27.0	55.0	-6°	-7°	3.9	DN.. 1507..
	PSC50-CDHNR/L35060-15-CD	50	110	165	35.0	60.0	-6°	-7°	3.9	DN.. 1507..
	PSC63-CDHNR/L45065-15-CD	63	110	190	45.0	65.0	-6°	-7°	3.9	DN.. 1507..
	PSC80-CDHNR/L55080-15-CD	80	110	250	55.0	80.0	-6°	-7°	3.9	DN.. 1507..

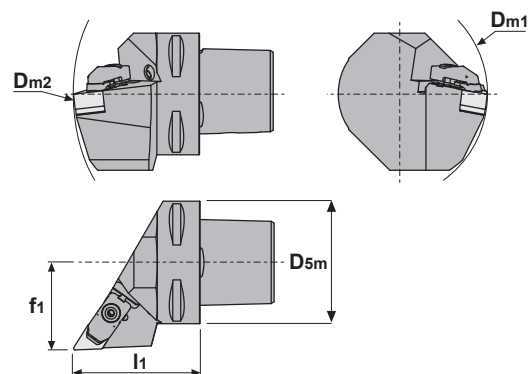
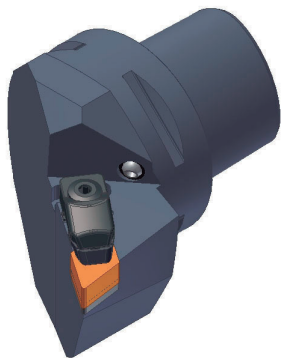
1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.							
	PSC40-CDHNR/L27055-15-CD	IDSN-422	1766	9416	2717	1086	5003
	PSC50-CDHNR/L35060-15-CD	IDSN-422	1766	9416	2717	1086	5003
	PSC63-CDHNR/L45065-15-CD	IDSN-422	1766	9416	2717	1086	5003
	PSC80-CDHNR/L55080-15-CD	IDSN-422	1766	9416	2717	1086	5003

DNGN		l	s	d
Ref.	DNGN 1507..	15,50	7,94	12,70
Negative 55° rhombic inserts.				
DNGN				
				







CDJN 93°



Characteristics:

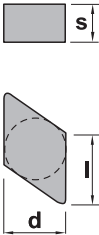
PSC with internal coolant.

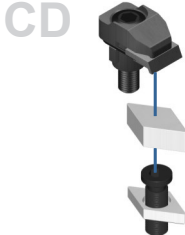
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CDJNR/L27055-15CD	40	110	145	27.0	55.0	-6°	-7°	3.9	DNGN 1507..
	PSC50-CDJNR/L35060-15CD	50	110	165	35.0	60.0	-6°	-7°	3.9	DNGN 1507..
	PSC63-CDJNR/L45065-15CD	63	110	190	45.0	65.0	-6°	-7°	3.9	DNGN 1507..
	PSC80-CDJNR/L55080-15CD	80	110	250	55.0	80.0	-6°	-7°	3.9	DNGN 1507..

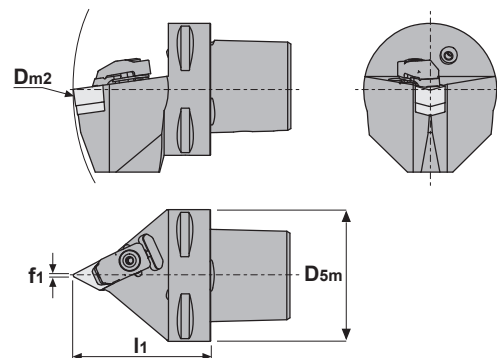
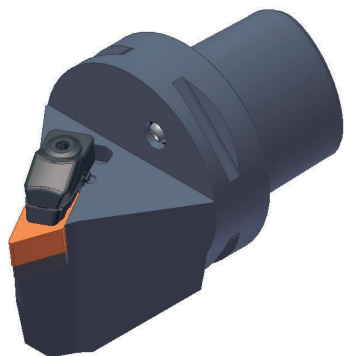
1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.

Ref.							
	PSC40-CDJNR/L27055-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC50-CDJNR/L35060-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC63-CDJNR/L45065-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC80-CDJNR/L55080-15CD	IDSN-422	1766	9416	2717	1086	5003

DNGN		l	s	d
Ref.	DNGN 1507..	15,50	7,94	12,70
Negative 55° rhombic inserts.				
DNGN				
				







CDNN 63°



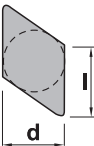
Characteristics:
PSC with internal coolant.

		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CDNNN00055-15CD	40	145	0.5	55.0	-5°	-9°	3.9	DNGN 1507..
	PSC50-CDNNN00060-15CD	50	165	0.5	60.0	-5°	-9°	3.9	DNGN 1507..
	PSC63-CDNNN00065-15CD	63	190	0.5	65.0	-5°	-9°	3.9	DNGN 1507..
	PSC80-CDNNN00080-15CD	80	250	0.5	80.0	-5°	-9°	3.9	DNGN 1507..

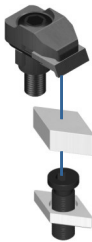
1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

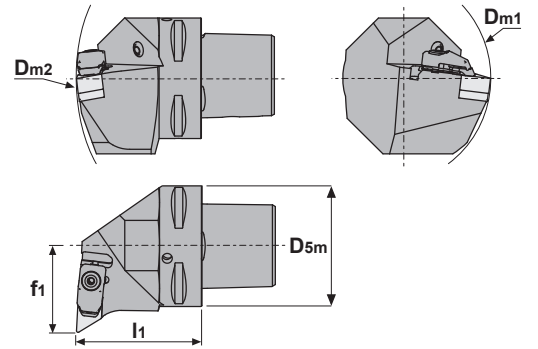
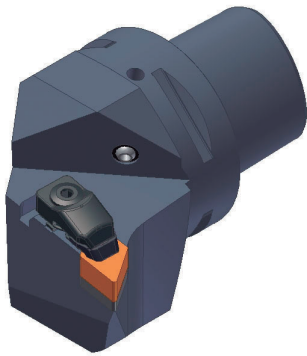
							
Ref.	PSC40-CDNNN00055-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC50-CDNNN00060-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC63-CDNNN00065-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC80-CDNNN00080-15CD	IDSN-422	1766	9416	2717	1086	5003

DNGN		l	s	d
Ref.	DNGN 1507..	15,50	7,94	12,70
Negative 55° rhombic inserts.				
DNGN				
				



CD





CDUN 93°



Characteristics:

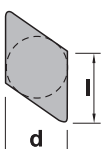
PSC with internal coolant.

		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CDUNR/L27050-15CD	40	110	140	27.0	50.0	-6°	-7°	3.9	DNGN 1507..
	PSC50-CDUNR/L35060-15CD	50	110	165	35.0	60.0	-6°	-7°	3.9	DNGN 1507..
	PSC63-CDUNR/L45065-15CD	63	110	190	45.0	65.0	-6°	-7°	3.9	DNGN 1507..
	PSC80-CDUNR/L55080-15CD	80	110	250	55.0	80.0	-6°	-7°	3.9	DNGN 1507..

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.



Ref.	PSC40-CDUNR/L27050-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC50-CDUNR/L35060-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC63-CDUNR/L45065-15CD	IDSN-422	1766	9416	2717	1086	5003
	PSC80-CDUNR/L55080-15CD	IDSN-422	1766	9416	2717	1086	5003



DNGN

Ref.	DNGN	l	s	d
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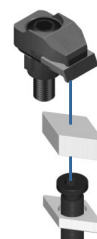
	DNGN 1507..	15,50	7,94	12,70
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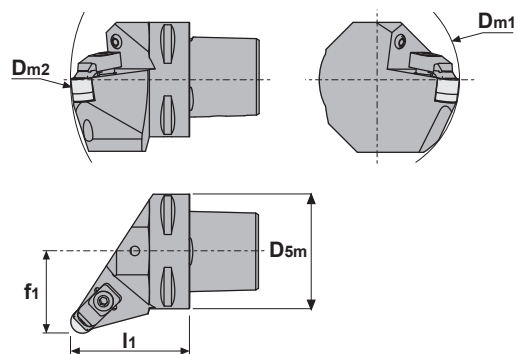
Negative 55° rhombic inserts.

DNGN



CD





CRSN



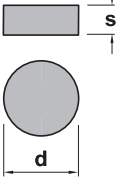
Characteristics:
PSC with internal coolant.

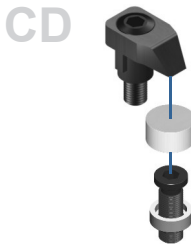
		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CRSNR/L27050-12-4CD	40	110	140	27.0	50.0	-6°	-6°	3.9	RNGN 1204..
	PSC40-CRSNR/L27050-12-7CD	40	110	140	27.0	50.0	-6°	-6°	3.9	RNGN 1207..
	PSC50-CRSNR/L35060-12-4CD	50	110	165	35.0	60.0	-6°	-6°	3.9	RNGN 1204..
	PSC50-CRSNR/L35060-12-7CD	50	110	165	35.0	60.0	-6°	-6°	3.9	RNGN 1207..
	PSC63-CRSNR/L45065-12-4CD	63	110	190	45.0	65.0	-6°	-6°	3.9	RNGN 1204..
	PSC63-CRSNR/L45065-12-7CD	63	110	190	45.0	65.0	-6°	-6°	3.9	RNGN 1207..

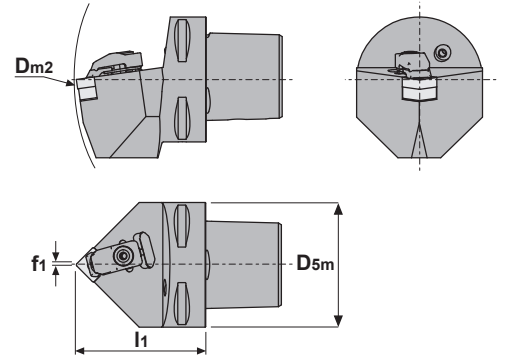
1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

							
Ref.	PSC40-CRSNR/L27050-12-4CD	IRSN 44	1766	2713	1086	9414	5003
	PSC40-CRSNR/L27050-12-7CD	IRSN 42	1766	2713	1086	9414	5003
	PSC50-CRSNR/L35060-12-4CD	IRSN 44	1766	2713	1086	9414	5003
	PSC50-CRSNR/L35060-12-7CD	IRSN 42	1766	2713	1086	9414	5003
	PSC63-CRSNR/L45065-12-4CD	IRSN 44	1766	2713	1086	9414	5003
	PSC63-CRSNR/L45065-12-7CD	IRSN 42	1766	2713	1086	9414	5003

RNGN		s	d
Ref.	RNGN 1204..	4,76	12,70
	RNGN 1207..	7,94	12,70
Negative round insert.			
RNGN			
			







CSDN 45°



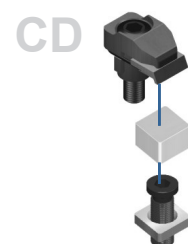
Characteristics:
PSC with internal coolant.

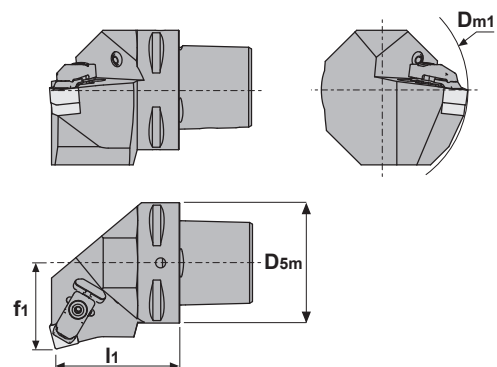
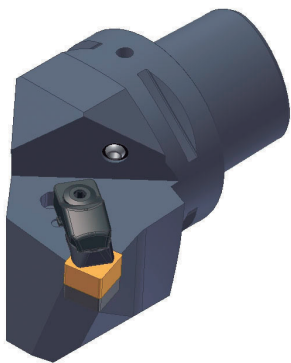
		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CSDNN00050-12-4CD	40	140	0.3	50.0	-6°	-6°	3.9	SNGN 1204..
	PSC40-CSDNN00050-12-7CD	40	140	0.3	50.0	-6°	-6°	3.9	SNGN 1207..
	PSC50-CSDNN00060-12-4CD	50	165	0.3	60.0	-6°	-6°	3.9	SNGN 1204..
	PSC50-CSDNN00060-12-7CD	50	165	0.3	60.0	-6°	-6°	3.9	SNGN 1207..
	PSC63-CSDNN00065-12-4CD	63	190	0.3	65.0	-6°	-6°	3.9	SNGN 1204..
	PSC63-CSDNN00065-12-7CD	63	190	0.3	65.0	-6°	-6°	3.9	SNGN 1207..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.	PSC40-CSDNN00050-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC40-CSDNN00050-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC50-CSDNN00060-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC50-CSDNN00060-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC63-CSDNN00065-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC63-CSDNN00065-12-7CD	ISSN-424	1766	9414	2713	1086	5003

	SNGN			
	Ref.	l	s	d
	SNGN 1204..	12,70	4,76	12,70
	SNGN 1207..	12,70	7,94	12,70
	Negative square inserts.			
	SNGN			





CSKN 75°



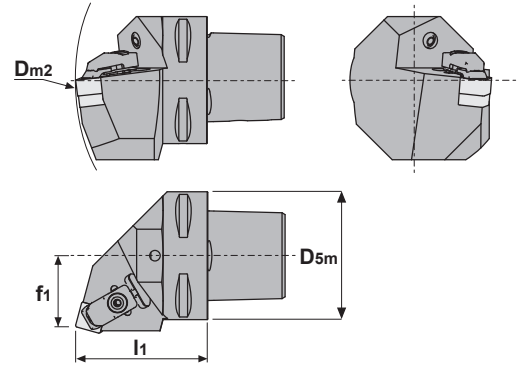
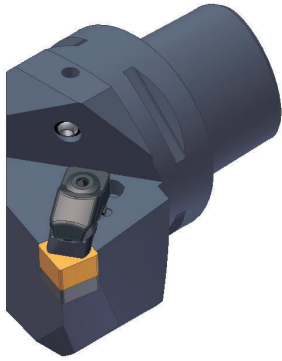
Characteristics:
PSC with internal coolant.

Ref.		D5m	Dm1 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CSKNR/L27050-12-4CD	40	110	27.0	50.0	-6°	-6°	3.9	SNGN 1204..
	PSC40-CSKNR/L27050-12-7CD	40	110	27.0	50.0	-6°	-6°	3.9	SNGN 1207..
	PSC50-CSKNR/L35060-12-4CD	50	110	35.0	60.0	-6°	-6°	3.9	SNGN 1204..
	PSC50-CSKNR/L35060-12-7CD	50	110	35.0	60.0	-6°	-6°	3.9	SNGN 1207..
	PSC63-CSKNR/L45065-12-4CD	63	110	45.0	65.0	-6°	-6°	3.9	SNGN 1204..
	PSC63-CSKNR/L45065-12-7CD	63	110	45.0	65.0	-6°	-6°	3.9	SNGN 1207..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-CSKNR/L27050-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC40-CSKNR/L27050-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC50-CSKNR/L35060-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC50-CSKNR/L35060-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC63-CSKNR/L45065-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC63-CSKNR/L45065-12-7CD	ISSN-424	1766	9414	2713	1086	5003

SNGN		l	s	d
Ref.	SNGN 1204..	12,70	4,76	12,70
	SNGN 1207..	12,70	7,94	12,70
Negative square inserts.				
SNGN				



CSRN 75°



Characteristics:
PSC with internal coolant.

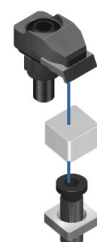
Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CSRNR/L22050-12-4CD	40	140	22.0	50.0	-6°	-6°	3.9	SNGN 1204..
	PSC40-CSRNR/L22050-12-7CD	40	140	22.0	50.0	-6°	-6°	3.9	SNGN 1207..
	PSC50-CSRNR/L27060-12-4CD	50	165	27.0	60.0	-6°	-6°	3.9	SNGN 1204..
	PSC50-CSRNR/L27060-12-7CD	50	165	27.0	60.0	-6°	-6°	3.9	SNGN 1207..
	PSC63-CSRNR/L35065-12-4CD	63	190	35.0	65.0	-6°	-6°	3.9	SNGN 1204..
	PSC63-CSRNR/L35065-12-7CD	63	190	35.0	65.0	-6°	-6°	3.9	SNGN 1207..
	PSC63-CSRNR/L35065-19CD	63	190	35.0	65.0	-6°	-6°	6.4	SNGN 1907..
	PSC80-CSRNR/L45080-19CD	80	250	45.0	80.0	-6°	-6°	6.4	SNGN 1907..

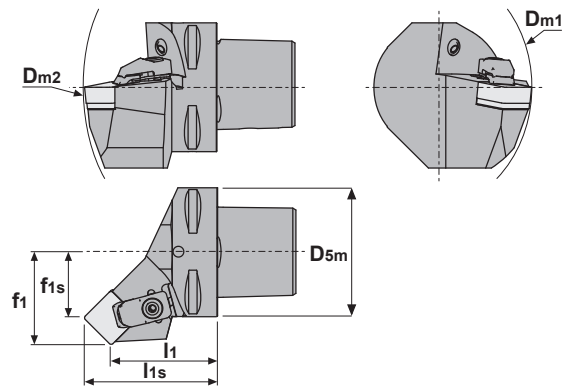
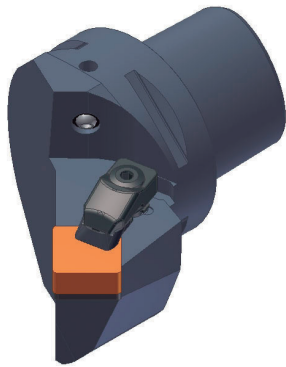
1) γ= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-CSRNR/L22050-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC40-CSRNR/L22050-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC50-CSRNR/L27060-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC50-CSRNR/L27060-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC63-CSRNR/L35065-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC63-CSRNR/L35065-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC63-CSRNR/L35065-19CD	ISSN-633	1770	9414	2713	1086	5003
	PSC80-CSRNR/L45080-19CD	ISSN-633	1770	9414	2713	1086	5003

SNGN		l	s	d
Ref.	SNGN 1204..	12,70	4,76	12,70
	SNGN 1207..	12,70	7,94	12,70
	SNGN 1907..	19,05	7,94	19,05
Negative square inserts.				
SNGN				
				

CD





CSSN 45°



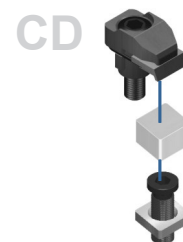
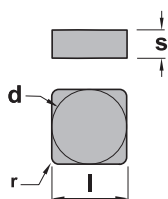
Characteristics:
PSC with internal coolant.

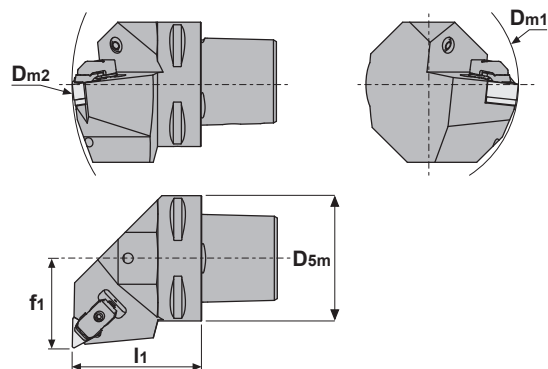
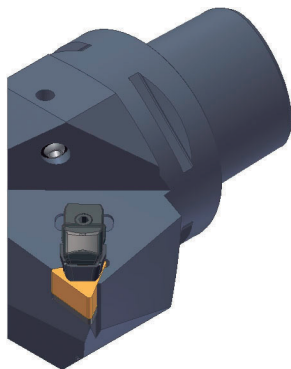
		D5m	Dm1 min.	Dm2 min.	f1	f1s	l1	l1s	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CSSNR/L27042-12-4CD	40	110	140	27.0	18.7	42.0	50.3	-8°	-0°	3.9	SNGN 1204..
	PSC40-CSSNR/L27042-12-7CD	40	110	140	27.0	18.7	42.0	50.3	-8°	-0°	3.9	SNGN 1207..
	PSC50-CSSNR/L35052-12-4CD	50	110	165	35.0	26.7	52.0	60.3	-8°	-0°	3.9	SNGN 1204..
	PSC50-CSSNR/L35052-12-7CD	50	110	165	35.0	26.7	52.0	60.3	-8°	-0°	3.9	SNGN 1207..
	PSC63-CSSNR/L45056-12-4CD	63	110	190	45.0	36.7	56.0	64.3	-8°	-0°	3.9	SNGN 1204..
	PSC63-CSSNR/L45056-12-7CD	63	110	190	45.0	36.7	56.0	64.3	-8°	-0°	3.9	SNGN 1207..
	PSC63-CSSNR/L45052-19CD	63	125	190	45.0	32.5	52.0	64.5	-8°	-0°	6.4	SNGN 1907..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

							
Ref.	PSC40-CSSNR/L27042-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC40-CSSNR/L27042-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC50-CSSNR/L35052-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC50-CSSNR/L35052-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC63-CSSNR/L45056-12-4CD	ISSN-442	1766	9414	2713	1086	5003
	PSC63-CSSNR/L45056-12-7CD	ISSN-424	1766	9414	2713	1086	5003
	PSC63-CSSNR/L45052-19CD	ISSN-633	1770	9414	2713	1086	5003

SNGN		l	s	d
Ref.	SNGN 1204..	12,70	4,76	12,70
	SNGN 1207..	12,70	7,94	12,70
	SNGN 1907..	19,05	7,94	19,05
Negative square inserts.				
SNGN				
				





CTFN 90°



Characteristics:
PSC with internal coolant.

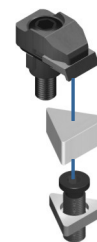
		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CTFNR/L27050-16-4CD	40	110	140	27.0	50.0	-6°	-6°	1.7	TNGN 1604..
	PSC40-CTFNR/L27050-16-7CD	40	110	140	27.0	50.0	-6°	-6°	1.7	TNGN 1607..
	PSC50-CTFNR/L35060-16-4CD	50	110	165	35.0	60.0	-6°	-6°	1.7	TNGN 1604..
	PSC50-CTFNR/L35060-16-7CD	50	110	165	35.0	60.0	-6°	-6°	1.7	TNGN 1607..
	PSC63-CTFNR/L45065-16-4CD	63	110	190	45.0	65.0	-6°	-6°	1.7	TNGN 1604..
	PSC63-CTFNR/L45065-16-7CD	63	110	190	45.0	65.0	-6°	-6°	1.7	TNGN 1607..

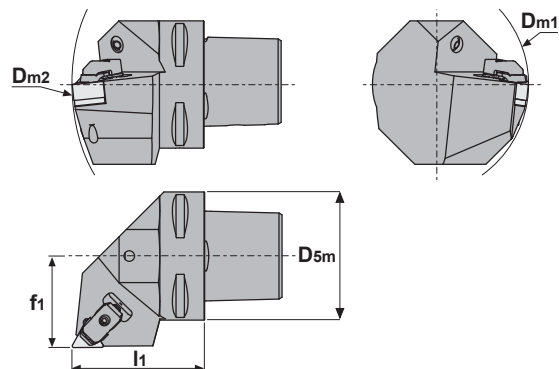
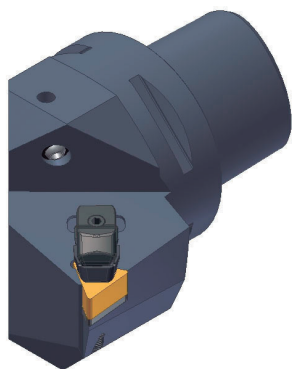
1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.

							
Ref.	PSC40-CTFNR/L27050-16-4CD	ITSN-342	1764	9416	2718	1085	5025
	PSC40-CTFNR/L27050-16-7CD	ITSN-322	1764	9416	2718	1085	5025
	PSC50-CTFNR/L35060-16-4CD	ITSN-342	1764	9416	2718	1085	5025
	PSC50-CTFNR/L35060-16-7CD	ITSN-322	1764	9416	2718	1085	5025
	PSC63-CTFNR/L45065-16-4CD	ITSN-342	1764	9416	2718	1085	5025
	PSC63-CTFNR/L45065-16-7CD	ITSN-322	1764	9416	2718	1085	5025

Ref.	TNGN	l	s	d
	TNGN 1604..	16,50	4,76	9,52
	TNGN 1607..	16,50	7,94	9,52
Negative triangular inserts.				
TNGN				
				

CD





CTGN 90°



Characteristics:

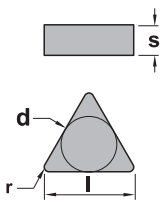
PSC with internal coolant.

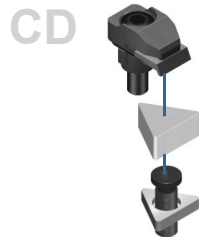
Ref.		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CTGNR/L27050-16-4CD	40	110	140	27.0	50.0	-6°	-6°	1.7	TNGN 1604..
	PSC40-CTGNR/L27050-16-7CD	40	110	140	27.0	50.0	-6°	-6°	1.7	TNGN 1607..
	PSC50-CTGNR/L35060-16-4CD	50	110	165	35.0	60.0	-6°	-6°	1.7	TNGN 1604..
	PSC50-CTGNR/L35060-16-7CD	50	110	165	35.0	60.0	-6°	-6°	1.7	TNGN 1607..
	PSC63-CTGNR/L45065-16-4CD	63	110	190	45.0	65.0	-6°	-6°	1.7	TNGN 1604..
	PSC63-CTGNR/L45065-16-7CD	63	110	190	45.0	65.0	-6°	-6°	1.7	TNGN 1607..

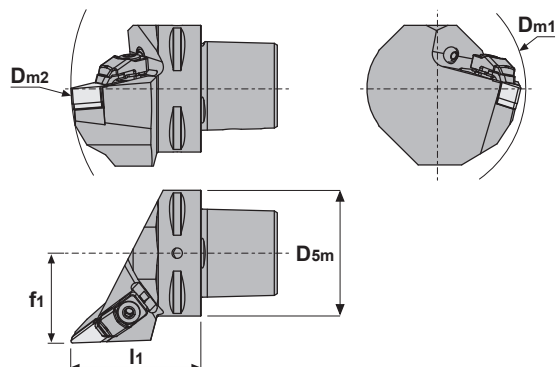
1) y = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.

Ref.							
	PSC40-CTGNR/L27050-16-4CD	ITSN-342	1764	9416	2718	1085	5025
	PSC40-CTGNR/L27050-16-7CD	ITSN-322	1764	9416	2718	1085	5025
	PSC50-CTGNR/L35060-16-4CD	ITSN-342	1764	9416	2718	1085	5025
	PSC50-CTGNR/L35060-16-7CD	ITSN-322	1764	9416	2718	1085	5025
	PSC63-CTGNR/L45065-16-4CD	ITSN-342	1764	9416	2718	1085	5025
	PSC63-CTGNR/L45065-16-7CD	ITSN-322	1764	9416	2718	1085	5025

TNGN		l	s	d
Ref.	TNGN 1604..	16,50	4,76	9,52
	TNGN 1607..	16,50	7,94	9,52
Negative triangular inserts.				
TNGN				
				







CVJN 93°



Characteristics:
PSC with internal coolant.

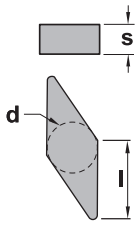
		D5m	Dm1 min.	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
Ref.	PSC40-CVJNR/L27062-16-4CD	40	60	152	27.0	62.0	-4°	-13°	3.0	VNGN 1604..
	PSC40-CVJNR/L27062-16-7CD	40	60	152	27.0	62.0	-4°	-13°	3.0	VNGN 1607..
	PSC50-CVJNR/L35065-16-4CD	50	65	170	35.0	65.0	-4°	-13°	3.0	VNGN 1604..
	PSC50-CVJNR/L35065-16-7CD	50	65	170	35.0	65.0	-4°	-13°	3.0	VNGN 1607..
	PSC63-CVJNR/L45065-16-4CD	63	81	190	45.0	65.0	-4°	-13°	3.0	VNGN 1604..
	PSC63-CVJNR/L45065-16-7CD	63	81	190	45.0	65.0	-4°	-13°	3.0	VNGN 1607..
	PSC80-CVJNR/L55080-16-4CD	80	100	250	55.0	80.0	-4°	-13°	3.0	VNGN 1604..
	PSC80-CVJNR/L55080-16-7CD	80	100	250	55.0	80.0	-4°	-13°	3.0	VNGN 1607..

1) y= Rake angle (valid a smooth insert).

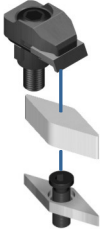
2) λs= Angle of inclination.

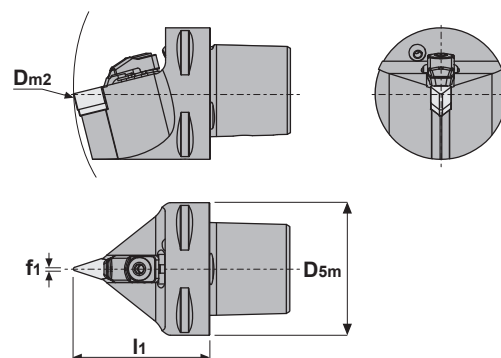
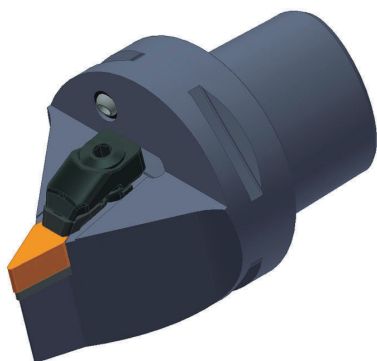
3) Nm= Insert moment of force.

							
Ref.	PSC40-CVJNR/L27062-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC40-CVJNR/L27062-16-7CD	IVSN-322	1764	9416	2718	1085	5025
	PSC50-CVJNR/L35065-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC50-CVJNR/L35065-16-7CD	IVSN-322	1764	9416	2718	1085	5025
	PSC63-CVJNR/L45065-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC63-CVJNR/L45065-16-7CD	IVSN-322	1764	9416	2718	1085	5025
	PSC80-CVJNR/L55080-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC80-CVJNR/L55080-16-7CD	IVSN-322	1764	9416	2718	1085	5025

	VNGN			
	Ref.	VNGN 1604..	VNGN 1607..	
		16,50	4,76	9,52
		16,50	7,94	9,52
Negative 35° rhombic inserts.				
	VNGN			
				

CD





CVVN 72° 30'



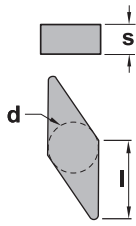
Characteristics:
PSC with internal coolant.

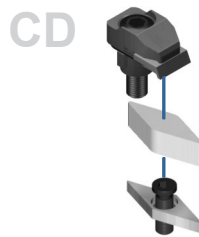
Ref.		D5m	Dm2 min.	f1	l1	y ¹⁾	λs ²⁾	Nm ³⁾	Insert
	PSC40-CVVNN00062-16-4CD	40	152	0.6	62.0	-4°	-13°	3.0	VNGN 1604..
	PSC40-CVVNN00062-16-7CD	40	152	0.6	62.0	-4°	-13°	3.0	VNGN 1607..
	PSC50-CVVNN00065-16-4CD	50	170	0.6	65.0	-4°	-13°	3.0	VNGN 1604..
	PSC50-CVVNN00065-16-7CD	50	170	0.6	65.0	-4°	-13°	3.0	VNGN 1607..
	PSC63-CVVNN00065-16-4CD	63	190	0.6	65.0	-4°	-13°	3.0	VNGN 1604..
	PSC63-CVVNN00065-16-7CD	63	190	0.6	65.0	-4°	-13°	3.0	VNGN 1607..
	PSC80-CVVNN00080-16-4CD	80	250	0.6	80.0	-4°	-13°	3.0	VNGN 1604..
	PSC80-CVVNN00080-16-7CD	80	250	0.6	80.0	-4°	-13°	3.0	VNGN 1607..

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

Ref.							
	PSC40-CVVNN00062-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC40-CVVNN00062-16-7CD	IVSN-322	1764	9416	2718	1085	5025
	PSC50-CVVNN00065-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC50-CVVNN00065-16-7CD	IVSN-322	1764	9416	2718	1085	5025
	PSC63-CVVNN00065-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC63-CVVNN00065-16-7CD	IVSN-322	1764	9416	2718	1085	5025
	PSC80-CVVNN00080-16-4CD	IVSN-342	1764	9416	2718	1085	5025
	PSC80-CVVNN00080-16-7CD	IVSN-322	1764	9416	2718	1085	5025

VNGN		l	s	d
Ref.	VNGN 1604..	16,50	4,76	9,52
	VNGN 1607..	16,50	7,94	9,52
Negative 35° rhombic inserts.				
VNGN				
				





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BORING BARS

Wedge clamp / Double lock M

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BORING BARS

Lever lock P

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Conditions of sale:

All sales are made in accordance with our standard conditions of sale, current at the time orders are accepted. Specifications and prices subject to change without notice.

Product warranty:

Canela will repair or replace any of its products, which in its judgement, are found to be defective in material of workmanship. All claims must be made in writing within thirty days after receipt of product. No claims for labor or damages will be allowed. In no event shall Canela be liable for consequential or special damages of any kind.

Special tool quotation:

Orders for special tools must be confirmed in writing before manufacturing can begin. Special items and non-stock standard items cannot be cancelled or returned for exchange or credit.

Delivery terms:

Badalona. Full transportation costs will be charged to the buyer. Specify shipment to be made by other than regular means of transportation.

Claims:

Claims for loss in transit must be made against the transportation company. The foregoing shall constitute the sole and exclusive remedies of the customer and are in lieu of all other warranties, expressed, implied or statutory, including but not limited to any implied warranty of merchantability or fitness.

Returns:

No merchandise will be accepted for return after 30 days of shipment. All returns must be pre-paid and must be accompanied by our Return Goods Authorization (RGA) number. This number must appear on the outside of the box. Merchandise must be received in good condition or will be refused.

This catalogue contains information and specifications concerning cutting tools sold by Canela. Although some of the cutting tools made from carbides are very tough and resist breakage, most are brittle and special safety precautions are required when using them.

Small fragment and chips may be thrown from a cutting tool when a fracture occurs. Since these fragments or chips are thrown at very high speeds and are very hot, contact with the skin or eyes could cause severe injury. Also, the grinding of these cutting tools will produce fine carbide and cobalt or nickel dust which may be harmful to the lungs.

Listed below are some suggestions on how to minimize the potential for injury while using cutting tools.

For more information about the product hazards and safety precautions that must be taken to minimize the possibility of injury while using cutting tools, please call your Canela Sales Engineer. Canela has no control over use of these cutting tools. The user must determine the suitability of these tools in its particular application.

WARNING: Very hot chip fragments may be thrown from cutting tools at very high speeds. These chips can cause severe burns, cuts or punctures to the skin, or damage to the eyes. The following are some of the safety precautions that must be followed by operators and observers while using cutting tools:

1. Make sure that the insert size and shape are adequate for use to which it is being put.
2. Chip control is necessary to prevent a continuous chip catching in the workpiece.
3. Chips are very hot and have sharp edges and should not be moved by hand.
4. Turn off the machine whenever chips are removed or when the cutting tools are changed.
5. Do not use air hoses to blow chips away from the machine.
6. To prevent tool breakage use the correct size toolholder.
7. Make sure that the overhang on the toolholder is as short as possible. Too much overhang can result in chatter and tool breakage.
8. To prevent the workpiece from coming loose during use, be sure the workpiece is tight and secure in its holder.
9. Overloading of tungsten carbide cutting tools may cause fractures of these tools.
10. A slug may be ejected at high speeds during drilling.

To protect the operator and observer from possible flying objects which could result in severe injury, the following protective devices should be worn or used while using cutting tools:

1. Wear hard hats.
2. Wear safety glasses with side shields.
3. Wear closed shoes with steel toes.
4. Keep protective enclosure on machine in place during operation.

WARNING: Grinding or finishing carbide produces fine carbide and cobalt or nickel dust. This dust may cause injury to the lungs. Operators and observers must take the following safety precautions to minimize the possibility of such injury:

1. Use with adequate ventilation.
2. Maintain the dust or mist level below recommended levels.
3. Avoid breathing dust or mist. If not possible, wear appropriate respirators, particularly when grinding tungsten carbide.
4. Minimize prolonged skin contact.
5. Wash hands thoroughly after handling.

WARNING: Use of cutting fluids and work materials create hazards. Be careful at all times.

1. Keep the cutting fluid clean so no particles can be carried back across the workpiece and possibly scratch it.
2. Cutting fluids may catch on fire when exposed to high temperatures generated during cutting.
3. Work materials such as aluminium, magnesium, uranium and titanium are flammable and could catch on fire.
4. Cutting fluids should be treated or replaced to reduce bacterial levels which may cause illness.

-WARNING-

Speeds, Feeds and Grade information within this catalogue are for reference only. If the operator does not feel safe using our speeds, feeds and grades, then the operator should use what is comfortable to him or her. Canela is not responsible for any damage or injury that occurs using the speeds, feeds and grades information within catalogue.

Conditions, terms, and prices are subject to change without notice. Any typographical or other error in this catalogue is subject to correction.

PSC ISO 26623-1



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