

TOOLSUPPLY

INDEXABLE CUTTING TOOLS & TOOL HOLDERS



**Tool Holders
Boring Bars
Indexable Milling
Catridges**

**Spot Facing
Chamfering
Back Boring
Adjustable Boring
Rough and Finish Boring
Facing
Turning
Parting
Grooving
Threading
Milling
Specials: (Ex:
Facing/Turning/
Boring)**

Solution for every Application

Welcome to ToolSupply

.....
Manufacturers and Distributors of Indexable cutting tools for the automotive, aerospace, and other OEM Industries. We manufacture Turning Tool Holders, Boring bars, Milling cutters, Cartridges as per ISO standards and Special Tools as per customer requirements. We offer a wide range of Cutting Tools for Hi-Speed and CNC Lathe Machines, VMC, HMC, SPM and Conventional Machines. All these backed up with Right Quality, Right Time, Right Price and Right Delivery has resulted in developing a good reputation in the market.

Our design staff, quality control department and equipment operators, combined with our own in-house tool shop experience, are all continuously taking us to new levels in design, building, modifications and tool life. Working closely with customers to design tools for particular functions and providing drawings for confirmed sign off prior to manufacture, costly mistakes are avoided due to mistaken communication. Modifications to existing items or new tools starting from a blank are available within required time-frames providing adequate consultation time has been planned.

Stock

We always have adequate stock in order to meet customer's timely requirements.

Quality

Our tools are manufactured as per ISO 9001/International standards.
Each component is thoroughly tested prior to assembly.

Packaging & Delivery

We provide packing as per customer's desire like and Prompt Shipment of Orders since the invoice

Best Price Guarantee:

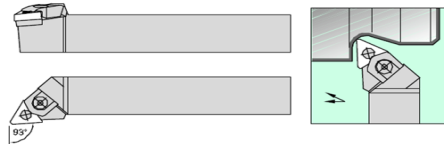
The lowest prices in the industry – ToolSupplyLtd guarantees it! If you find a lower advertised price on any item we sell or a original quotation, just send us a copy of the advert or catalogue page and we will beat it by 5%!

Qualifications: Price must appear in a current published catalogue and must be accurate, not a catalogue error. Price must be presented to ToolSupplyLtd within 30 days from the date of the sales transaction. Item must be the identical name brand and model number with the same included equipment and accessories. Item must be in stock and quantities must be equal. This guarantee excludes non-stocked, discontinued, internet-auction and closeout items. ToolSupplyLtd reserves the right to limit quantities.

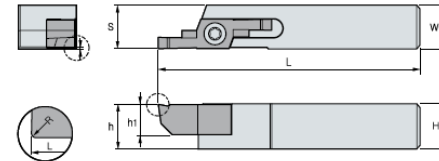


HIGH PERFORMANCE TOOLING

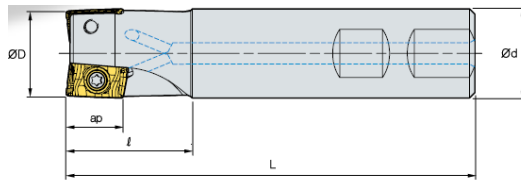
TURNING TOOLS



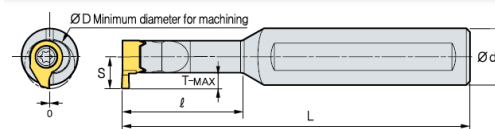
MULTI GROOVING TOOL



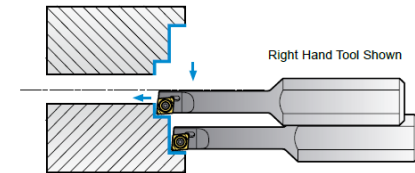
Indexable Milling



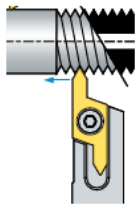
Grooving Tools



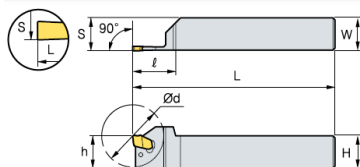
BORING BARS



THREADING



Parting Tools



Pre-discounted Prices

TURNING INSERTS

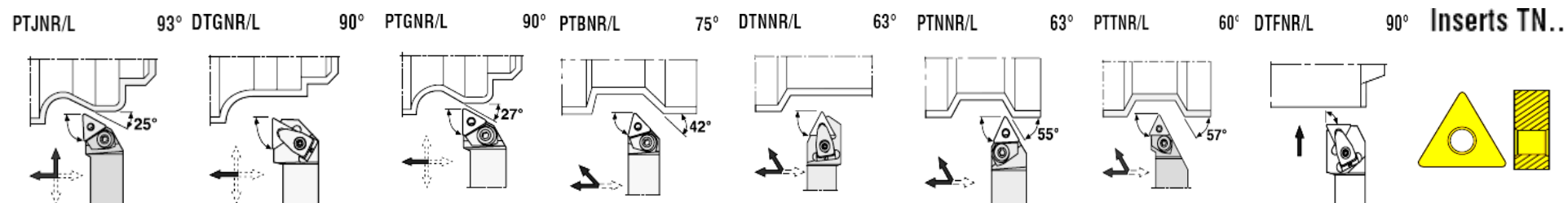
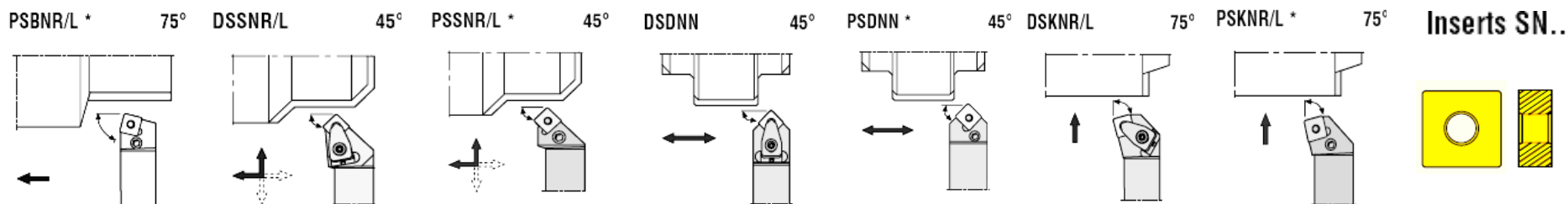
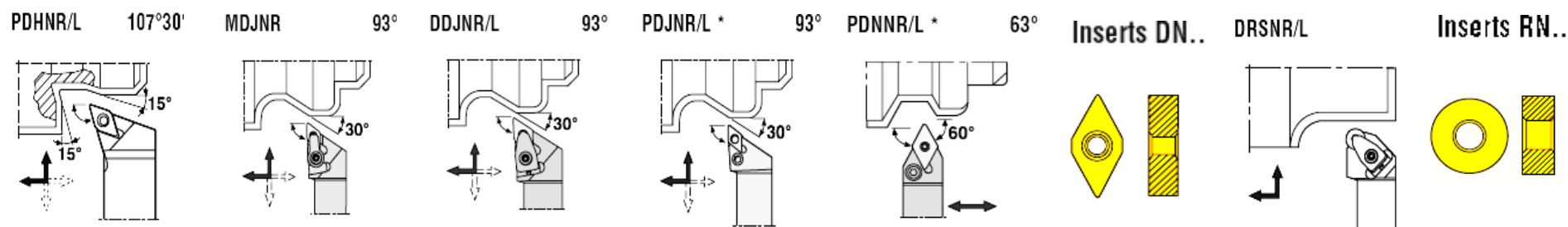
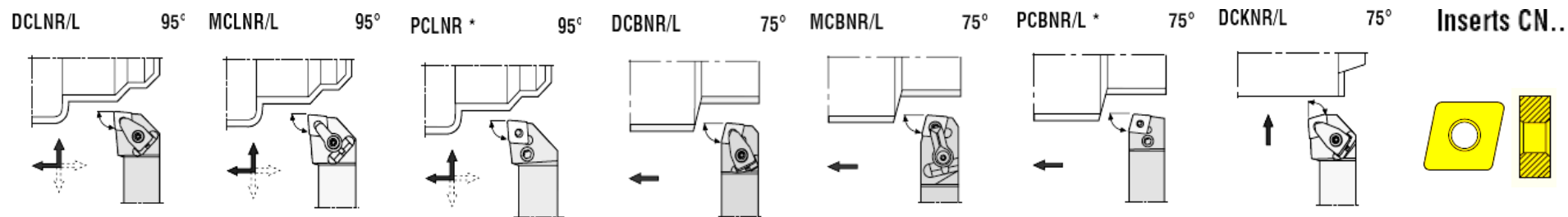


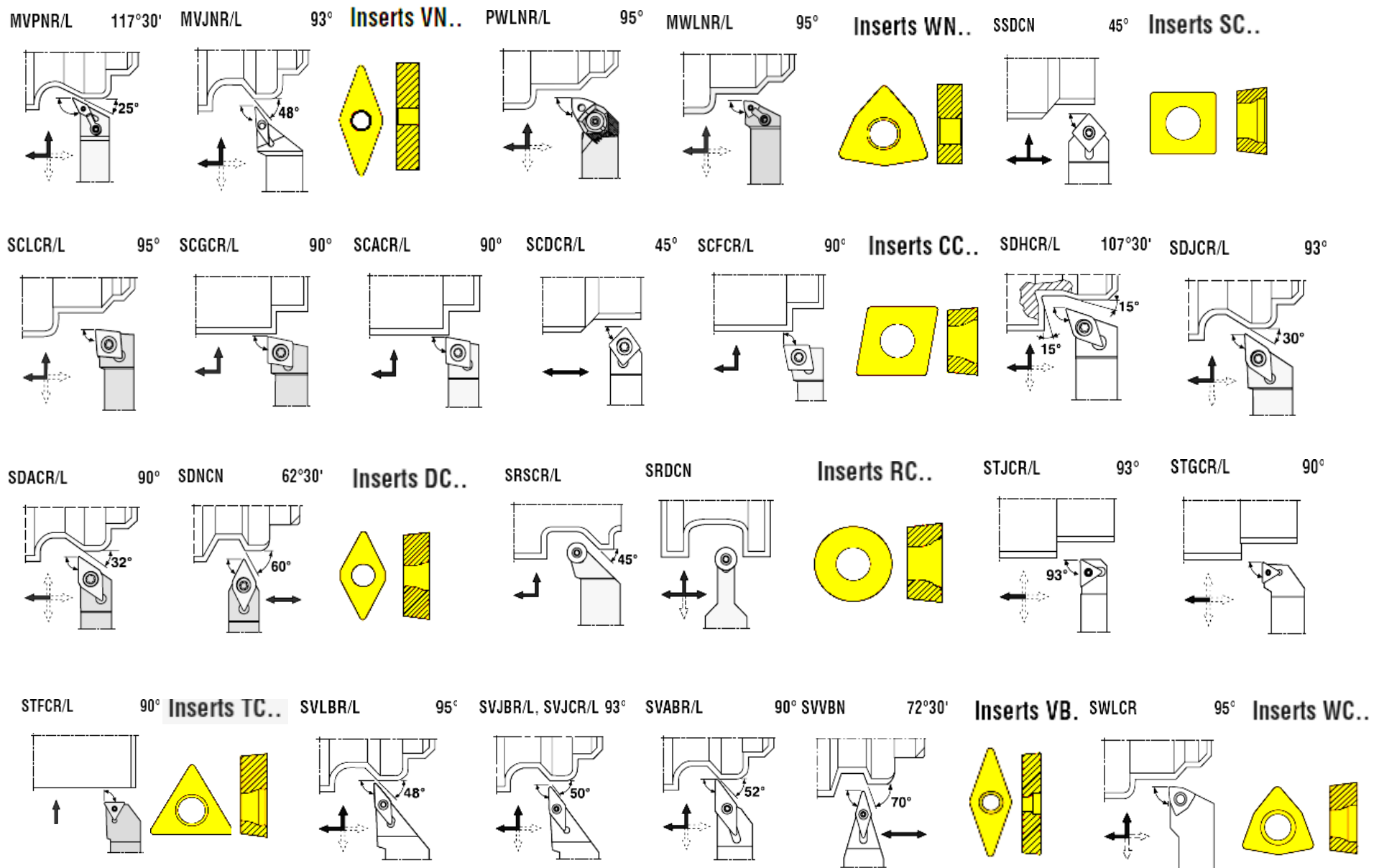
MILLING INSERTS

TOOLSUPPLY
100520667

Tool Holders

External Tool holders





Insert type: RNMA and RNMG

		Part No.	h	b	l_1	f_1	l_3
12		DRSNR2525M12	25	25	150	32	30
12		DRSNR3225P12	32	25	170	32	30
12		DRSNL2525M12	25	25	150	32	30
12		DRSNL3225P12	32	25	170	32	30

Insert Type: SNMA, SNMG and SNMM

		Part No.	h	b	l_1	f_1	l_3
12		DSBNR2020K12	20	20	125	17	35
12		DSBNR2525M1	25	25	150	22	35
12		DSBNL2020K12	20	20	125	17	35
12		DSBNL2525M12	25	25	150	22	35
15		DSBNR2525M1	25	25	150	22	40
15		DSBNR3225P15	32	25	170	22	40
15		DSBNR3232P15	32	32	170	27	40
15		DSBNL2525M15	25	25	150	22	40
15		DSBNL3225P15	32	25	170	22	40
15		DSBNL3232P15	32	32	170	27	40
19		MSBNR3232P1	32	32	170	27	45
19		MSBNR4040R1	40	40	200	35	45
19		MSBNL3232P19	32	32	170	27	45
19		MSBNL4040R19	40	40	200	35	45

Insert Type: SNMA, SNMG and SNMM

		Part No.	h	b	l_1	l_{1s}	f_1	f_{1s}	l_3
09		DSSNR1616H09	16	16	101	106,8	20	14,1	35
09		DSSNR2020K09	20	20	126	131,8	25	19,1	35
09		DSSNR2525M09	25	25	151	156,8	32	26,1	35
09		DSSNL1616H09	16	16	101	106,8	20	14,1	35
09		DSSNL2020K09	20	20	126	131,8	25	19,1	35
09		DSSNL2525M09	25	25	151	156,8	32	26,1	35
12		DSSNR2020K12	20	20	126	134,1	25	16,9	43
12		DSSNR2525M12	25	25	151	159,1	32	23,9	43
12		DSSNR3225P12	32	25	171	179,1	32	23,9	43
12		DSSNL2020K12	20	20	126	134,1	25	16,9	43
12		DSSNL2525M12	25	25	151	159,1	32	23,9	43
12		DSSNL3225P12	32	25	171	179,1	32	23,9	43

		Part No.	h	b	l_1	l_{1s}	f_1	f_{1s}	l_3
15		DSSNR2525M15	25	25	151	160,9	32	22	50
15		DSSNR3225P15	32	25	171	180,9	32	22	50
15		DSSNR3232P15	32	32	171	180,9	40	30	50
15		DSSNL2525M15	25	25	151	160,9	32	22	50
15		DSSNL3225P15	32	25	171	180,9	32	22	50
15		DSSNL3232P15	32	32	171	180,9	40	30	50
19		DSSNR3232P19	32	32	171	183,1	40	27,7	58
19		DSSNR4040R19	40	40	201	213,1	50	27,7	58
19		DSSNL3232P19	32	32	171	183,1	40	27,7	58
19		DSSNL4040R19	40	40	201	213,1	50	27,7	58

Insert Type: SNMA, SNMG and SNMM

	Part No.	h	b	l ₁	f ₁	l ₃
12	DSDNN2020K12	20	20	125	10,3	35
12	DSDNN2525M12	25	25	150	12,8	35
12	DSDNN3232P12	32	32	170	16,3	35

	Part No.	h	b	l ₁	f ₁	l ₃
12	DSKNR2020K12	20	20	125	25	33
12	DSKNR2525M12	25	25	150	32	28
12	DSKNR3225P12	32	25	170	32	28
12	DSKNL2020K12	20	20	125	25	33
12	DSKNL2525M12	25	25	150	32	28
12	DSKNL3225P12	32	25	170	32	28
19	DSKNR3232P19	32	32	170	40	35
19	DSKNL3232P19	32	32	170	40	35

Insert type: TNGA, TNMA, TNMG and TNMM

	Part No.	h	b	l ₁	f ₁	l ₃
16	DTGNR2020K16	20	20	125	25	25
16	DTGNR2525M16	25	25	150	32	25
16	DTGNL2020K16	20	20	125	25	25
16	DTGNL2525M16	25	25	150	32	25
22	DTGNR2525M22	25	25	150	32	30
22	DTGNR3225P22	32	25	170	32	30
22	DTGNR3232P22	32	32	170	40	30
22	DTGNL2525M22	25	25	150	32	30
22	DTGNL3225P22	32	25	170	32	30
22	DTGNL3232P22	32	32	170	40	30

Insert type: TNGA, TNMA, TNMG, TNMM and TNMX

	Part No.	h	b	l ₁	f ₁	l ₃
16	PTJNR2020K16	20	20	125	25	23
16	PTJNR2525M16	25	25	150	32	23
16	PTJNR3225P16	32	25	170	32	23
16	PTJNR3232P16	32	32	170	40	23
16	PTJNL2020K16	20	20	125	25	23
16	PTJNL2525M16	25	25	150	32	23
16	PTJNL3225P16	32	25	170	32	23
16	PTJNL3232P16	32	32	170	40	23
22	PTJNR2525M22	25	25	150	32	29
22	PTJNR3225P22	32	25	170	32	29
22	PTJNR3232P22	32	32	170	40	29
22	PTJNR4032R22	40	32	200	40	29
22	PTJNL2525M22	25	25	150	32	29
22	PTJNL3225P22	32	25	170	32	29
22	PTJNL3232P22	32	32	170	40	29
22	PTJNL4032R22	40	32	200	40	29

	Part No.	h	b	l ₁	f ₁	l ₃
16	PTBNR2525M16	25	25	150	22	26
16	PTBNL2525M16	25	25	150	22	26
16	PTNNR3225P16	32	25	170	13	28
16	PTNNL3225P16	32	25	170	13	28
22	PTNNR3225P22	32	25	170	13	34
22	PTNNR5032M22	50	32	150	16,5	34
22	PTNNL3225P22	32	25	170	13	34
22	PTNNL5032M22	50	32	150	16,5	34

Insert type: TNGA, TNMA, TNMG and TNMM

	Part No.	h	b	l ₁	f ₁	l ₃
11	PTG NR1616-11A	16	16	100	20	16
11	PTG NL1616-11A	16	16	100	20	16
16	PTG NR2020K16	20	20	125	25	23
16	PTG NR2525M16	25	25	150	32	23
16	PTG NR3225P16	32	25	170	32	23
16	PTG NL2020K16	20	20	125	25	23
16	PTG NL2525M16	25	25	150	32	23
16	PTG NL3225P16	32	25	170	32	23
22	PTG NR2525M22	25	25	150	32	29
22	PTG NR3225P22	32	25	170	32	29
22	PTG NR3232P22	32	32	170	40	29
22	PTG NL2525M22	25	25	150	32	29
22	PTG NL3225P22	32	25	170	32	29
22	PTG NL3232P22	32	32	170	40	29
27	PTG NR4040T27	40	40	300	50	38
27	PTG NL4040T27	40	40	300	50	38

	Part No.	h	b	l ₁	f ₁	l ₃	Price
16	DTN NR3225P16	32	25	170	13	30	
16	DTN NL3225P16	32	25	170	13	30	
22	DTN NR3225P22	32	25	170	13	40	
22	DTN NL3225P22	32	25	170	13	40	

Insert type: TNGA, TNMA, TNMG and TNMM

	Part No.	h	b	l ₁	f ₁	l ₃
16	PTT NR2020K16	20	20	125	17	28
16	PTT NR2525M16	25	25	150	22	28
16	PTT NL2020K16	20	20	125	17	28
16	PTT NL2525M16	25	25	150	22	28

	Part No.	h	b	l ₁	f ₁	l ₃
16	DTF NR2020K16	20	20	125	25	30
16	DTF NR2525M16	25	25	150	32	30
16	DTF NR3225P16	32	25	170	32	30
16	DTF NL2020K16	20	20	125	25	30
16	DTF NL2525M16	25	25	150	32	30
16	DTF NL3225P16	32	25	170	32	30
22	DTF NR2525M22	25	25	150	32	35
22	DTF NR3225P22	32	25	170	32	35
22	DTF NR3232P22	32	32	170	40	35
22	DTF NL2525M22	25	25	150	32	35
22	DTF NL3225P22	32	25	170	32	35
22	DTF NL3232P22	32	32	170	40	35

Insert Type: VNGA, VNGG, VNGM, VNMA and VNMG

	Part No.	h	b	l ₁	f ₁	l ₃
16	MVP NR2020K16	20	20	125	25	44
16	MVP NR2525M16	25	25	150	32	44
16	MVP NR3232P16	32	32	170	40	44
16	MVP NL2020K16	20	20	125	25	44
16	MVP NL2525M16	25	25	150	32	44
16	MVP NL3232P16	32	32	170	40	44

Insert Type: VNGA, VNGG, VNGM, VNMA and VNMG

		Part No.	h	b	l_1	f_1	l_3
13		MVJNR1616H13	16	16	100	20	29
13		MVJNR2020K13	20	20	125	25	29
13		MVJNR2525M13	25	25	150	32	29
13		MVJNL1616H13	16	16	100	20	29
13		MVJNL2020K13	20	20	125	25	29
13		MVJNL2525M13	25	25	150	32	29
16		MVJNR2020K16	20	20	125	25	41
16		MVJNR2525M16	25	25	150	32	41
16		MVJNR3225P16	32	25	170	32	41
16		MVJNL2020K16	20	20	125	25	41
16		MVJNL2525M16	25	25	150	32	41

Insert Type: WNGA, WNGG, WNMA, WNMG and WNMM

		Part No.	h	b	l_1	f_1	l_3
08		MWLNR2020K08	20	20	125	25	31
08		MWLNR2525M08	25	25	150	32	31
08		MWLNR3225P08	32	25	170	32	31
08		MWLNR3232P08	32	32	170	40	31
08		MWLNL2020K08	20	20	125	25	31
08		MWLNL2525M08	25	25	150	32	31
08		MWLNL3225P08	32	25	170	32	31
08		MWLNL3232P08	32	32	170	40	31

Insert Type: WNGA, WNGG, WNMA, WNMG and WNMM

		Part No.	h	b	l_1	f_1	l_3
06		PWLNR1616H06	16	16	100	20	21
06		PWLNR2020K06	20	20	125	25	21
06		PWLNR2525M06	25	25	150	32	21
06		PWLNR3225P06	32	25	170	32	21
06		PWLNR3232P06	32	32	170	40	21
06		PWLNL1616H06	16	16	100	20	21
06		PWLNL2020K06	20	20	125	25	21
06		PWLNL2525M06	25	25	150	32	21
06		PWLNL3225P06	32	25	170	32	21
06		PWLNL3232P06	32	32	170	40	21
08		PWLNR2020K08	20	20	125	25	27
08		PWLNR2525M08	25	25	150	32	27
08		PWLNR3225P08	32	25	170	32	27
08		PWLNR3232P08	32	32	170	40	27
08		PWLNL2020K08	20	20	125	25	27
08		PWLNL2525M08	25	25	150	32	27
08		PWLNL3225P08	32	25	170	32	27
08		PWLNL3232P08	32	32	170	40	27

Insert type: CNGA, CNGG, CNMA, CNMG and CNMM

	Part No.	h	b	l ₁	f ₁	l ₃	Price
12	PCLNR2020K12	20	20	125	25	26	
12	PCLNR2525M12	25	25	150	32	26	
12	PCLNR3225P12	32	25	170	32	26	
12	PCLNL2020K12	20	20	125	25	26	
12	PCLNL2525M12	25	25	150	32	26	
12	PCLNL3225P12	32	25	170	32	26	
12	PCBNR2525M12	25	25	150	22	26	
12	PCBNL2525M12	25	25	150	22	26	

Insert Type: DNGA, DNGG, DNGM, DNMA, DNMG, DNMM, DNMX

	Part No.	h	b	l ₁	f ₁	l ₃	Price
11	PDJNR1616H11	16	16	100	20	24	
11	PDJNR2020K11	20	20	125	25	30	
11	PDJNR2525M11	25	25	150	32	30	
11	PDJNR3225P11	32	25	170	32	30	
11	PDJNL1616H11	16	16	100	20	24	
11	PDJNL2020K11	20	20	125	25	30	
11	PDJNL2525M11	25	25	150	32	30	
11	PDJNL3225P11	32	25	170	32	30	
15	PDJNR2020K15	20	20	125	25	36	
15	PDJNR2525M15	25	25	150	32	36	
15	PDJNR3225P15	32	25	170	32	36	
15	PDJNL2020K15	20	20	125	25	36	
15	PDJNL2525M15	25	25	150	32	36	
15	PDJNL3225P15	32	25	170	32	36	

Insert Type: DNGA, DNGG, DNGM, DNMA, DNMG, DNMM

	Part No.	h	b	l ₁	f ₁	l ₃
11	PDNNR1616H11	16	16	100	8	25
11	PDNNR2020K11	20	20	125	10	25
11	PDNNR2525M11	25	25	150	12,5	30
11	PDNNR3225P11	32	25	170	12,5	30
11	PDNNL1616H11	16	16	100	8	25
11	PDNNL2020K11	20	20	125	10	25
11	PDNNL2525M11	25	25	150	12,5	30
11	PDNNL3225P11	32	25	170	12,5	30
15	PDNNR2020K15	20	20	125	10	36
15	PDNNR2525M15	25	25	150	12,5	36
15	PDNNR3225P15	32	25	170	12,5	36
15	PDNNL2020K15	20	20	125	10	36
15	PDNNL2525M15	25	25	150	12,5	36
15	PDNNL3225P15	32	25	170	12,5	36

Insert Type: SNMA, SNMG and SNMM

	Part No.	h	b	l ₁	f ₁	l ₃
12	PSDNN2020K12	20	20	125	10,0	26
12	PSDNN2525M12	25	25	150	12,5	26
12	PSDNN3225P12	32	25	170	12,5	28
12	PSKNR2020K12	20	20	125	25	23
12	PSKNR2525M12	25	25	150	32	23
12	PSKNR3225P12	32	25	170	32	26
12	PSKNL2020K12	20	20	125	25	23
12	PSKNL2525M12	25	25	150	32	23
12	PSKNL3225P12	32	25	170	32	26

Insert Type: SNMA, SNMG and SNMM

		Part No.	h	b	l_1	l_{1s}	f_1	f_{1s}	l_3
12		PSBNR2020K12	20	20	125	—	17	—	26
12		PSBNR2525M12	25	25	150	—	22	—	26
12		PSBNR3225P12	32	25	170	—	22	—	26
12		PSBNL2020K12	20	20	125	—	17	—	26
12		PSBNL2525M12	25	25	150	—	22	—	26
12		PSBNL3225P12	32	25	170	—	22	—	26
12		PSSNR2020K12	20	20	125	133,3	25	16,7	28
12		PSSNR2525M12	25	25	150	158,3	32	23,7	28
12		PSSNR3225P12	32	25	170	178,3	32	23,7	29
12		PSSNL2020K12	20	20	125	133,3	25	16,7	28
12		PSSNL2525M12	25	25	150	158,3	32	23,7	28
12		PSSNL3225P12	32	25	170	178,3	32	23,7	29

Insert Type: CCGT, CCGW, CCMT and CCMW

		Part No.	h	b	l_1	f_1	l_3
06		SCACR0808K06	8	8	125	8,7	9
06		SCACR1010M06	10	10	150	10,7	9
06		SCACR1212M06	12	12	150	12,7	9
06		SCACL0808K06	8	8	125	8,7	9
06		SCACL1010M06	10	10	150	10,7	9
06		SCACL1212M06	12	12	150	12,7	9
09		SCACR1212M09	12	12	150	12,7	13
09		SCACR1414M09	14	14	150	14,7	13
09		SCACR1616H09	16	16	100	16,7	21
09		SCACL1212M09	12	12	150	12,7	13
09		SCACL1414M09	14	14	150	14,7	13
09		SCACL1616H09	16	16	100	16,7	21

Insert Type: CCGT, CCGW, CCMT and CCMW

		Part No.	h	b	l_1	f_1	l_3
06		SCLCR0808K06	8	8	125	8	9
06		SCLCR1010M06	10	10	150	10	9
06		SCLCR1212M06	12	12	150	12	8
06		SCLCL0808K06	8	8	125	8	9
06		SCLCL1010M06	10	10	150	10	9
06		SCLCL1212M06	12	12	150	12	8
09		SCLCR1212M09	12	12	150	12	12
09		SCLCR1616H09	16	16	100	16	12
09		SCLCR2020K09	20	20	125	25	20
09		SCLCL1212M09	12	12	150	12	12
09		SCLCL1616H09	16	16	100	16	12
09		SCLCL2020K09	20	20	125	25	20
12		SCLCR2020K12	20	20	125	25	20
12		SCLCL2020K12	20	20	125	25	20
06		SCGCR0808D06	8	8	60	10	11
06		SCGCR1010E06	10	10	70	12	11
06		SCGCL1010E06	10	10	70	12	11
09		SCGCR1212F09	12	12	80	16	15
09		SCGCL1212F09	12	12	80	16	15

Insert type: CCGW

		Part No.	h	b	l_1	f_1	l_3
09		SCBCR1616H09	16	16	100	13	12
09		SCBCR2020K09	20	20	125	17	12
09		SCBCL1616H09	16	16	100	13	12
09		SCBCL2020K09	20	20	125	17	12

Insert Type: CCGT, CCGW, CCMT and CCMW

	Part No.	h	b	l ₁	f ₁	l ₃	Price
06	SCDCR0808K06	8	8	125	4,2	11	
06	SCDCR1010M06	10	10	150	5,2	11	
06	SCDCL0808K06	8	8	125	4,2	11	
06	SCDCL1010M06	10	10	150	5,2	11	
09	SCDCR1212M09	12	12	150	6,2	21	
09	SCDCR1414M09	14	14	150	7,2	21	
09	SCDCL1212M09	12	12	150	6,2	21	
09	SCDCL1414M09	14	14	150	7,2	21	
06	SCFCR0808D06	8	8	60	10	9	
09	SCFCR1212F09	12	12	80	16	15	
09	SCFCL1212F09	12	12	80	16	15	

Insert Type: DCGT, DCGW, DCMT and DCMW

	Part No.	h	b	l ₁	f ₁	l ₃	Price
07	SDHCR1010M07	10	10	150	12	14	
07	SDHCL1010M07	10	10	150	12	14	
11	SDHCR1212M11	12	12	150	16	21	
11	SDHCR1616H11	16	16	100	20	20	
11	SDHCR2020K11	20	20	125	25	20	
11	SDHCR2525M11	25	25	150	32	20	
11	SDHCL1212M11	12	12	150	16	21	
11	SDHCL1616H11	16	16	100	20	20	
11	SDHCL2020K11	20	20	125	25	20	
11	SDHCL2525M11	25	25	150	32	20	
15	SDHCR2525M15	25	25	150	32	25	
15	SDHCL2525M15	25	25	150	32	25	

Insert Type: DCGT, DCGW, DCMT, DCMW and DCMX

	Part No.	h	b	l ₁	f ₁	l ₃
07	SDJCR0808K07	8	8	125	8	13
07	SDJCR1010M07	10	10	150	10	14
07	SDJCR1212M07	12	12	150	12	13
07	SDJCL0808K07	8	8	125	8	13
07	SDJCL1010M07	10	10	150	10	14
07	SDJCL1212M07	12	12	150	12	13
11	SDJCR1212M11	12	12	150	12	20
11	SDJCR1616H11	16	16	100	16	20
11	SDJCR2020K11	20	20	125	25	20
11	SDJCR2525M11	25	25	150	32	20
11	SDJCL1212M11	12	12	150	12	20
11	SDJCL1616H11	16	16	100	16	20
11	SDJCL2020K11	20	20	125	25	20
11	SDJCL2525M11	25	25	150	32	20
15	SDJCR2525M15	25	25	150	32	28
15	SDJCR3225P15	32	25	170	32	28
15	SDJCL2525M15	25	25	150	32	28
15	SDJCL3225P15	32	25	170	32	28

Insert Type: TCGT, TCGW, TCMT and TCMW

	Part No.	h	b	l ₁	f ₁	l ₃
11	STJCR1010M11	10	10	150	10	13
11	STJCR1212M11	12	12	150	12	13
11	STJCR1616H11	16	16	100	16	13
11	STJCL1010M11	10	10	150	10	13
11	STJCL1212M11	12	12	150	12	13
11	STJCL1616H11	16	16	100	16	13

Insert Type: DCGT, DCGW, DCMT and DCMW

		Part No.	h	b	l ₁	f ₁	l ₃
07		SDACR0808K07	8	8	125	8,7	13
07		SDACR1010M07	10	10	150	10,7	13
07		SDACR1212M07	12	12	150	12,7	13
07		SDACL0808K07	8	8	125	8,7	13
07		SDACL1010M07	10	10	150	10,7	13
07		SDACL1212M07	12	12	150	12,7	13
11		SDACR1212M11	12	12	150	12,7	20
11		SDACR1414M11	14	14	150	14,7	20
11		SDACR1616H11	16	16	100	16,7	21
11		SDACL1212M11	12	12	150	12,7	20
11		SDACL1414M11	14	14	150	14,7	20
11		SDACL1616H11	16	16	100	16,7	21

Insert Type: DCGT, DCGW, DCMT and DCMW

		Part No.	h	b	l ₁	f ₁	l ₃
07		SDNCN0808K07	8	8	125	4,2	16
07		SDNCN1010M07	10	10	150	5,2	21
07		SDNCN1212M07	12	12	150	6,2	20
11		SDNCN1212M11	12	12	150	6,2	23
11		SDNCN1414M11	14	14	150	7,2	23
11		SDNCN1616H11	16	16	100	8,2	22
11		SDNCN2020K11	20	20	125	10,2	22
11		SDNCN2525M11	25	25	150	12,7	23
15		SDNCN2020K15	20	20	125	10,2	29

Insert Type: RCMT

		Part No.	h	b	l ₁	f ₁	l ₃
06		SRSCR2020K06	20	20	125	25	15
06		SRSCR2525M06	25	25	150	32	15
06		SRSCL2020K06	20	20	125	25	15
06		SRSCL2525M06	25	25	150	32	15
08		SRSCR2020K08	20	20	125	25	25
08		SRSCR2525M08	25	25	150	32	25
08		SRSCL2525M08	25	25	150	32	25
10		SRSCR2020K10	20	20	125	25	17
10		SRSCR2525M10	25	25	150	32	20
10		SRSCL2020K10	20	20	125	25	17
10		SRSCL2525M10	25	25	150	32	20
12		SRSCR2525M12	25	25	150	32	23
12		SRSCR3225P12	32	25	170	32	23
12		SRSCL2525M12	25	25	150	32	23
12		SRSCL3225P12	32	25	170	32	23
16		SRSCR3225P16	32	25	170	32	25
16		SRSCL3225P16	32	25	170	32	25

Insert Type: SCGW, SCMT and SCMW

		Part No.	h	b	l ₁	f ₁	l ₃
09		SSDCN1212M09	12	12	150	6,2	23
09		SSDCN1616H09	16	16	100	8,2	26
09		SSDCN2020K09	20	20	125	10,2	22
09		SSDCN2525M09	25	25	150	12,7	23
12		SSDCN2020K12	20	20	125	10,2	22
12		SSDCN2525M12	25	25	150	12,7	22

Insert type: CNGG, CNMA, CNMG and CNMM



	Part No.	h	b	l ₁	f ₁	l ₃	Price
09	DCLNR1616H09	16	16	100	20	25	
09	DCLNR2020K09	20	20	125	25	25	
09	DCLNR2525M09	25	25	150	32	25	
09	DCLNL1616H09	16	16	100	20	25	
09	DCLNL2020K09	20	20	125	25	25	
09	DCLNL2525M09	25	25	150	32	25	
12	DCLNR2020K12	20	20	125	25	30	
12	DCLNR2525M12	25	25	150	32	30	
12	DCLNR3225P12	32	25	170	32	30	
12	DCLNR3232P12	32	32	170	40	30	
12	DCLNL2020K12	20	20	125	25	30	
12	DCLNL2525M12	25	25	150	32	30	
12	DCLNL3225P12	32	25	170	32	30	
12	DCLNL3232P12	32	32	170	40	30	



	Part No.	h	b	l ₁	f ₁	l ₃
16	DCLNR2525M16	25	25	150	32	35
16	DCLNR3225P16	32	25	170	32	35
16	DCLNR3232P16	32	32	170	40	35
16	DCLNL2525M16	25	25	150	32	35
16	DCLNL3225P16	32	25	170	32	35
16	DCLNL3232P16	32	32	170	40	35
19	DCLNR3225P19	32	25	170	32	40
19	DCLNR3232P19	32	32	170	40	40
19	DCLNR4040R19	40	40	200	50	40
19	DCLNL3225P19	32	25	170	32	40
19	DCLNL3232P19	32	32	170	40	40
19	DCLNL4040R19	40	40	200	50	40



	Part No.	h	b	l ₁	f ₁	l ₃	Price
16	MCLNR2525M16	25	25	150	32	35	
16	MCLNR3225P16	32	25	170	32	35	
16	MCLNR3232P16	32	32	170	40	35	
16	MCLNL2525M16	25	25	150	32	35	
16	MCLNL3225P16	32	25	170	32	35	
16	MCLNL3232P16	32	32	170	40	35	
19	MCLNR3232P19	32	32	170	40	40	
19	MCLNR4040R19	40	40	200	50	40	
19	MCLNL3232P19	32	32	170	40	40	
19	MCLNL4040R19	40	40	200	50	40	



	Part No.	h	b	l ₁	f ₁	l ₃
09	DCBNR2525M09	25	25	150	22	24
09	DCBNL2525M09	25	25	150	22	24
12	DCBNR2020K12	20	20	125	17	35
12	DCBNR2525M12	25	25	150	22	30
12	DCBNR3225P12	32	25	170	22	30
12	DCBNL2020K12	20	20	125	17	35
12	DCBNL2525M12	25	25	150	22	30
12	DCBNL3225P12	32	25	170	22	30
16	DCBNR2525M16	25	25	150	22	40
16	DCBNR3225P16	32	25	170	22	40
16	DCBNL2525M16	25	25	150	22	40
16	DCBNL3225P16	32	25	170	22	40

Insert type: CNGG, CNMA, CNMG and CNMM

		Part No.	h	b	l ₁	f ₁	l ₃
19		MCBNR3232P19	32	32	170	27	40
19		MCBNR4040R19	40	40	200	35	40
19		MCBNL3232P19	32	32	170	27	40
19		MCBNL4040R19	40	40	200	35	40

		Part No.	h	b	l ₁	f ₁	l ₃
09		DCKNR2525M09	25	25	150	32	20
09		DCKNL2525M09	25	25	150	32	20
12		DCKNR2020K12	20	20	125	25	30
12		DCKNR2525M12	25	25	150	32	25
12		DCKNR3225P12	32	25	170	32	25
12		DCKNL2020K12	20	20	125	25	30
12		DCKNL2525M12	25	25	150	32	25
12		DCKNL3225P12	32	25	170	32	25
16		DCKNR2525M16	25	25	150	32	35
16		DCKNR3225P16	32	25	170	32	35
16		DCKNL2525M16	25	25	150	32	35
16		DCKNL3225P16	32	25	170	32	35
19		DCKNR3225P19	32	25	170	32	40
19		DCKNR3232P19	32	32	170	40	35
19		DCKNL3225P19	32	25	170	32	40
19		DCKNL3232P19	32	32	170	40	35

Insert type: DNMA, DNMG

		Part No.	h	b	l ₁	f ₁	l ₃
11		PDHNR1616H11	16	16	101	20	22
11		PDHNR2020K11	20	20	125	25	22
11		PDHNR2525M11	25	25	150	32	22
11		PDHNL1616H11	16	16	100	20	22
11		PDHNL2020K11	20	20	125	25	22
11		PDHNL2525M11	25	25	150	32	22

Insert Type: DNGG, DNGM, DNMA, DNMG, DNMM and DNMX

		Part No.	h	b	l ₁	f ₁	l ₃
11		MDJNR1616H11	16	16	100	20	30
11		MDJNR2020K11	20	20	125	25	30
11		MDJNR2525M11	25	25	150	32	30
11		MDJNR3225P11	32	25	170	32	30
11		MDJNL1616H11	16	16	100	20	30
11		MDJNL2020K11	20	20	125	25	30
11		MDJNL2525M11	25	25	150	32	30
11		MDJNL3225P11	32	25	170	32	30
15		DDJNR2020K15	20	20	125	25	40
15		DDJNR2525M15	25	25	150	32	40
15		DDJNR3225P15	32	25	170	32	40
15		DDJNR3232P15	32	32	170	40	40
15		DDJNL2020K15	20	20	125	25	40
15		DDJNL2525M15	25	25	150	32	40
15		DDJNL3225P15	32	25	170	32	40
15		DDJNL3232P15	32	32	170	40	40

Insert Type: RCMT

	Part No.	h	b	l_1	f_1	l_3
06	SRDCN1616H06	16	16	100	11	16
06	SRDCN2020K06	20	20	125	13	16
06	SRDCN2525M06	25	25	150	15.5	16
08	SRDCN1616H08	16	16	100	12	16
08	SRDCN2020K08	20	20	125	14	20
08	SRDCN2525M08	25	25	150	16.5	25
10	SRDCN2020K10	20	20	125	15	20
10	SRDCN2525M10	25	25	150	17.5	25
12	SRDCN2525M12	25	25	150	18.5	25
12	SRDCN3225P12	32	25	170	18,5	32
16	SRDCN3225P16	32	25	170	20,5	32

Insert Type:VBGT, VBGW, VBMT, VBMW and VCGT

	Part No.	h	b	l_1	f_1	l_3
16	SVLBR2020K16	20	20	125	25	40
16	SVLBR2525M16	25	25	150	32	40
16	SVLBR3225P16	32	25	170	32	40
16	SVLBL2020K16	20	20	125	25	40
16	SVLBL2525M16	25	25	150	32	40
16	SVLBL3225P16	32	25	170	32	40

Insert Type: TCGT, TCGW, TCMT and TCMW

	Part No.	h	b	l_1	f_1	l_3
11	STGCR1212F11	12	12	80	16	17
11	STGCR1616H11	16	16	100	20	17
11	STGCL1212F11	12	12	80	16	17
11	STGCL1616H11	16	16	100	20	17
16	STGCR1616H16	16	16	100	20	25
16	STGCR2020K16	20	20	125	25	26
16	STGCR2525M16	25	25	150	32	27
16	STGCL1616H16	16	16	100	20	25
16	STGCL2020K16	20	20	125	25	26
16	STGCL2525M16	25	25	150	32	27
11	STFCR1212F11	12	12	80	16	16
11	STFCR1616H11	16	16	100	20	16
11	STFCL1212F11	12	12	80	16	16
11	STFCL1616H11	16	16	100	20	16
16	STFCR1616H16	16	16	100	20	22
16	STFCR2020K16	20	20	125	25	22
16	STFCR2525M16	25	25	150	32	24
16	STFCL1616H16	16	16	100	20	22
16	STFCL2020K16	20	20	125	25	22
16	STFCL2525M16	25	25	150	32	24

Insert Type:VBGT, VBGW, VBMT, VBMW and VCGT

		Part No.	h	b	l ₁	f ₁	l ₃
11		SVJBR1010M11	10	10	150	10	20
11		SVJBR1212M11	12	12	150	12	20
11		SVJBR1616H11	16	16	100	20	27
11		SVJBR2020K11	20	20	125	25	27
11		SVJBR2525M11	25	25	150	32	42
11		SVJBL1010M11	10	10	150	10	20
11		SVJBL1212M11	12	12	150	12	20
11		SVJBL1616H11	16	16	100	20	27
11		SVJBL2020K11	20	20	125	25	27
11		SVJBL2525M11	25	25	150	32	42
16		SVJBR1212M16	12	12	150	12	30
16		SVJBR1616H16	16	16	100	16	30
16		SVJBL1212M16	12	12	150	12	30
16		SVJBL1616H16	16	16	100	16	30

		Part No.	h	b	l ₁	f ₁	l ₃
11		SVVBN1010M11	10	10	150	5	25
11		SVVBN1212M11	12	12	150	6	25
11		SVVBN1616H11	16	16	100	8,3	26
11		SVVBN2020K11	20	20	125	10,3	26
11		SVVBN2525M11	25	25	150	12,8	26
16		SVVBN1212M16	12	12	150	6,3	30
16		SVVBN1616H16	16	16	100	8,3	30
16		SVVBN2020K16	20	20	125	10,6	35
16		SVVBN2525M16	25	25	150	13,1	35
16		SVVBN3225P16	32	25	170	13,1	35

Insert Type:VBGT, VBGW, VBMT, VBMW and VCGT

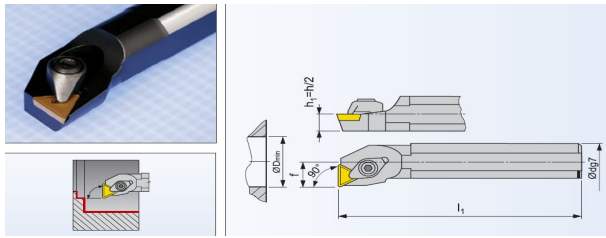
		Part No.	h	b	l ₁	f ₁	l ₃
11		SVVBN1010M11	10	10	150	5	25
11		SVVBN1212M11	12	12	150	6	25
11		SVVBN1616H11	16	16	100	8,3	26
11		SVVBN2020K11	20	20	125	10,3	26
11		SVVBN2525M11	25	25	150	12,8	26
16		SVVBN1212M16	12	12	150	6,3	30
16		SVVBN1616H16	16	16	100	8,3	30
16		SVVBN2020K16	20	20	125	10,6	35
16		SVVBN2525M16	25	25	150	13,1	35
16		SVVBN3225P16	32	25	170	13,1	35

Insert Type: WCMT

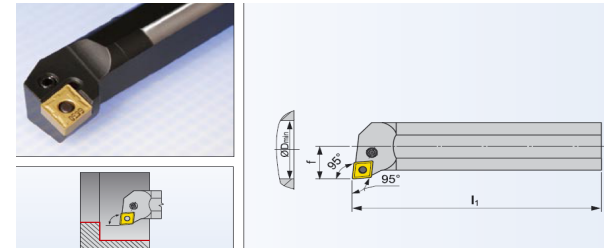
		Part No.	h	b	l ₁	f ₁	l ₃
06		SWLCR1616H06	16	16	100	20	20
06		SWLCR2020K06	20	20	125	25	21
06		SWLCL1616H06	16	16	100	20	20
06		SWLCL2020K06	20	20	125	25	21

Boring Bars

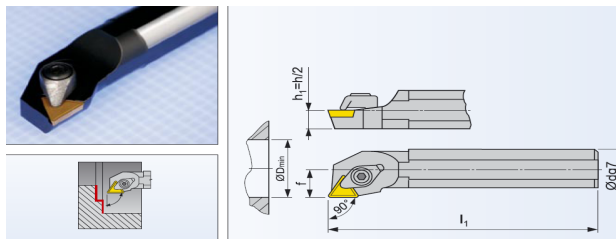
CTFP R/L: 90 deg Approach



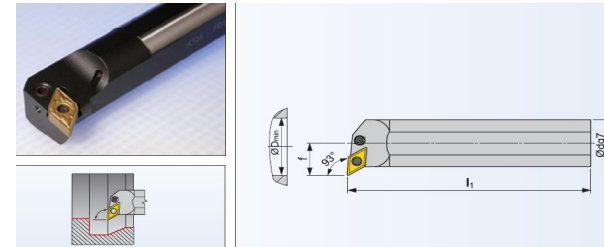
PCLN R/L 95 deg Approach



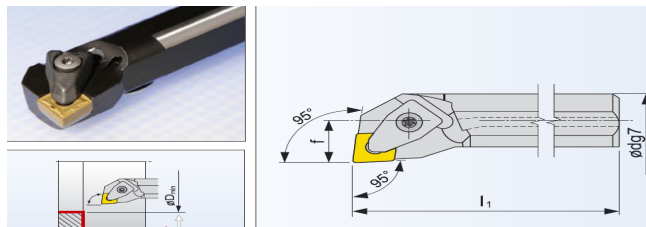
CTGP R/L: 90 Deg Approach



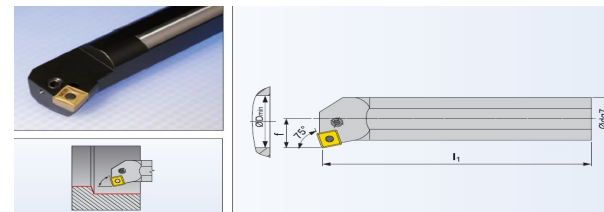
PDUN R/L 95 deg Approach



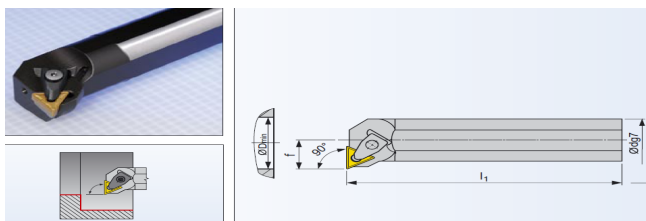
DCLN R/L 95 deg Approach



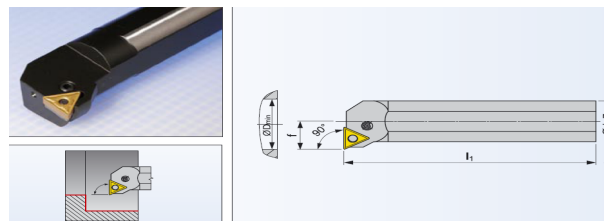
PSKN R/L 75 deg Approach



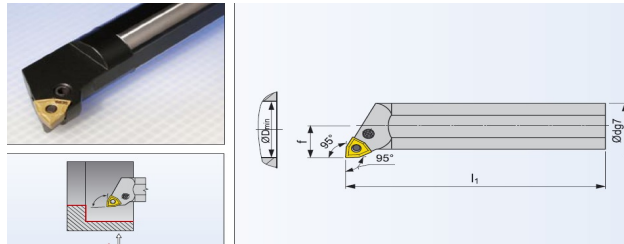
DTFN R/L 90 deg Approach



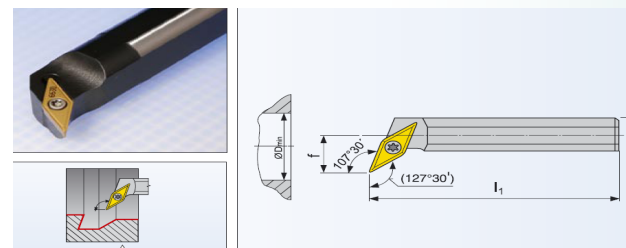
PTFN R/L 90 deg Approach



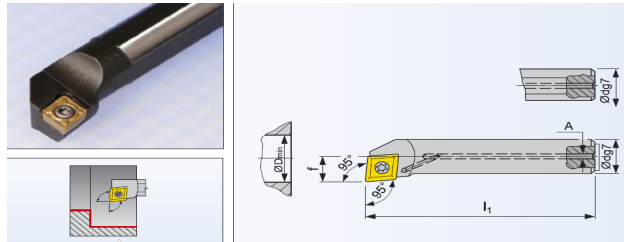
PWLN R/L 95 deg Approach



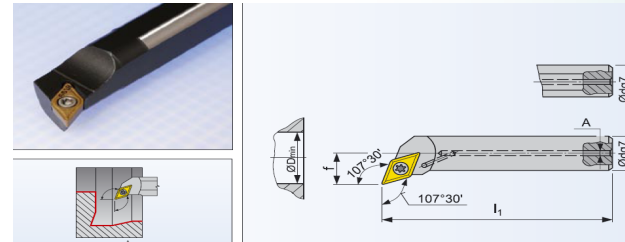
SVQC R/L 107 deg Approach



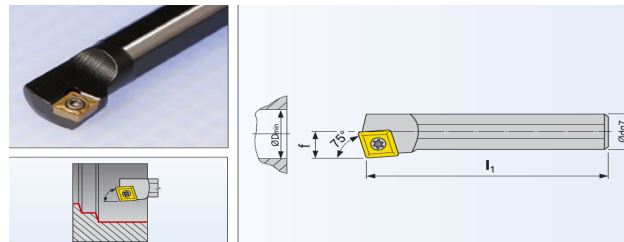
SCFC R/L 95 deg Approach



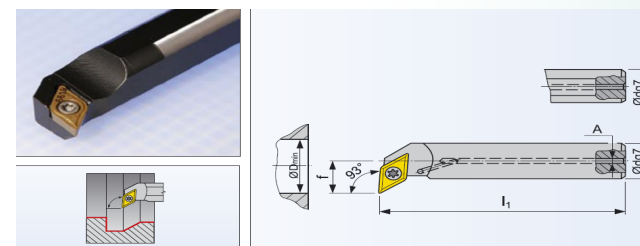
SDQC R/L 107.3 deg Approach



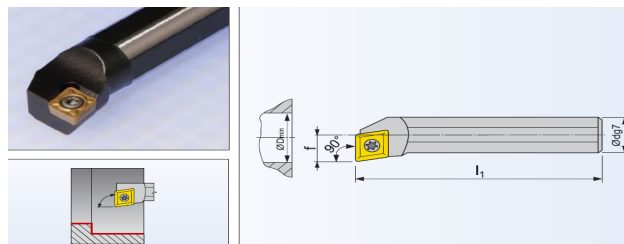
SCKC R/L 75 deg Approach



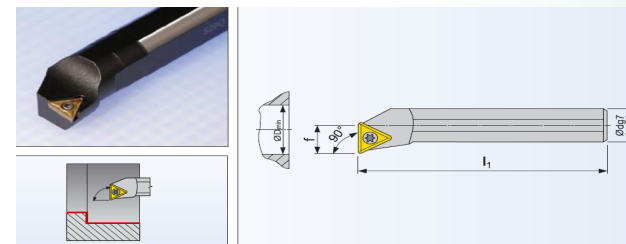
SDUC R/L 93 deg Approach



SCLC R/L 90 deg Approach



STFC R/L 90 deg Approach



Insert Type: CNGA, CNGG, CNMA, CNMG and CNMM

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
09	A20R-PCLNR09	20	18	19	200	13	30	25
09	A25S-PCLNR09	25	23	24	250	17	35	32
09	A20R-PCLNL09	20	18	19	200	13	30	25
09	A25S-PCLNL09	25	23	24	250	17	35	32
12	A32T-PCLNR12	32	30	31	300	22	50	40
12	A40U-PCLNR12	40	37	38,5	350	27	60	50
12	A32T-PCLNL12	32	30	31	300	22	50	40
12	A40U-PCLNL12	40	37	38,5	350	27	60	50
16	A40U-PCLNR16	40	37	38,5	350	27	60	50
16	A50V-PCLNR16	50	47	48,5	400	35	70	63
16	A40U-PCLNL16	40	37	38,5	350	27	60	50
16	A50V-PCLNL16	50	47	48,5	400	35	70	63
19	A50V-PCLNR19	50	47	48,5	400	35	70	63
19	A50V-PCLNL19	50	47	48,5	400	35	70	63

Insert Type: DNGA, DNGG, DNGM and DNMM

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	a _p	D _m min
11	A16M-SDUNR11	16	15	15,5	150	11	20	2,5	20
11	A20Q-SDUNR11	20	18	19	180	13	30	2,5	25
11	A16M-SDUNL11	16	15	15,5	150	11	20	2,5	20
11	A20Q-SDUNL11	20	18	19	180	13	30	2,5	25
11	A25R-PDUNR11	25	23	24	200	17	25	4	32
11	A32S-PDUNR11	32	30	31	250	22	35	6	40
11	A25R-PDUNL11	25	23	24	200	17	25	4	32
11	A32S-PDUNL11	32	30	31	250	22	35	6	40
15	A32T-PDUNR15	32	30	31	300	22	50	5	40
15	A40U-PDUNR15	40	37	38,5	350	27	60	5	50
15	A50V-PDUNR15	50	47	48,5	400	35	70	5	63
15	A32T-PDUNL15	32	30	31	300	22	50	5	40
15	A40U-PDUNL15	40	37	38,5	350	27	60	5	50
15	A50V-PDUNL15	50	47	48,5	400	35	70	5	63

Insert Type: CNGA, CNGG, CNMA, CNMG and CNMM

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
12	S25T-PCLNR12	25	23	23	300	17	40	32
12	S32U-PCLNR12	32	30	30	350	22	50	40
12	S40V-PCLNR12	40	37	37,5	400	27	60	50
12	S25T-PCLNL12	25	23	23	300	17	40	32
12	S32U-PCLNL12	32	30	30	350	22	50	40
12	S40V-PCLNL12	40	37	37,5	400	27	60	50

Insert Type: TNGA, TNMA, TNMG and TNMM

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
11	A20R-PTFNR11	20	18	19	200	13	32	25
11	A20R-PTFNL11	20	18	19	200	13	32	25
16	A20R-PTFNR16	20	18	19	200	13	30	25
16	A25S-PTFNR16	25	23	24	250	17	35	32
16	A20R-PTFNL16	20	18	19	200	13	30	25
16	A25S-PTFNL16	25	23	24	250	17	35	32
16	A32T-PTFNR16	32	30	31	300	22	50	40
16	A40U-PTFNR16	40	37	38,5	350	27	60	50
16	A32T-PTFNL16	32	30	31	300	22	50	40
16	A40U-PTFNL16	40	37	38,5	350	27	60	50
22	A40U-PTFNR22	40	37	38,5	350	27	60	50
22	A50V-PTFNR22	50	47	48,5	400	35	70	63
22	A40U-PTFNL22	40	37	38,5	350	27	60	50
22	A50V-PTFNL22	50	47	48,5	400	35	70	63

Insert Type: WNGA, WNMG, WNMA, WNGG and WNMM

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
06	A20Q-PWLNR06	20	18	19	180	13	27	25
06	A25R-PWLNR06	25	23	24	200	17	30	32
06	A32S-PWLNR06	32	30	31	250	22	31	40
06	A40T-PWLNR06	40	37	38,5	300	27	40	50
06	A20Q-PWLNL06	20	18	19	180	13	27	25
06	A25R-PWLNL06	25	23	24	200	17	30	32
06	A32S-PWLNL06	32	30	31	250	22	31	40
06	A40T-PWLNL06	40	37	38,5	300	27	40	50
08	A25R-PWLNR08	25	23	24	200	17	30	32
08	A32S-PWLNR08	32	30	31	250	22	31	40
08	A40T-PWLNR08	40	37	38,5	300	27	35	50
08	A25R-PWLNL08	25	23	24	200	17	30	32
08	A32S-PWLNL08	32	30	31	250	22	31	40
08	A40T-PWLNL08	40	37	38,5	300	27	35	50

Insert Type: SNMA, SNMG and SNMM

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
12	S25T-PSKNR12	25	23	23	300	17	43	30
12	S32U-PSKNR12	32	30	30	350	22	52	40
12	S40V-PSKNR12	40	38	38	400	27	58	48
12	S25T-PSKNL12	25	23	23	300	17	43	30
12	S32U-PSKNL12	32	30	30	350	22	52	40
12	S40V-PSKNL12	40	38	38	400	27	58	48

Insert Type: CCGT, CCGW, CCMT and CCMW

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
06	A08K-SCLCR06	8	7	7,5	125	5	12	10
06	A08K-SCLCR06-	8	—	—	125	5	12	10
06	A10L-SCLCR06	10	9	9,5	140	7	18	13
06	A10L-SCLCR06-R	10	—	—	140	7	18	13
06	A12N-SCLCR06	12	11	11,5	160	9	20	17
06	A16Q-SCLCR06	16	15	15,5	180	11	22	22
06	A08K-SCLCL06	8	7	7,5	125	5	12	10
06	A08K-SCLCL06-R	8	—	—	125	5	12	10
06	A10L-SCLCL06	10	9	9,5	140	7	18	13
06	A10L-SCLCL06-R	10	—	—	140	7	18	13
06	A12N-SCLCL06	12	11	11,5	160	9	20	17
06	A16Q-SCLCL06	16	15	15,5	180	11	22	22

Insert Type: CCGT, CCGW, CCMT and CCMW

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
09	A12N-SCLCR09	12	11	11,5	160	9	20	17
09	A12N-SCLCR09-R	12	—	—	160	9	20	17
09	A16Q-SCLCR09	16	15	15,5	180	11	22	22
09	A16Q-SCLCR09-R	16	—	—	180	11	22	22
09	A20R-SCLCR09	20	18	19	200	13	32	25
09	A20R-SCLCR09-R	20	—	—	200	13	32	25
09	A12N-SCLCL09	12	11	11,5	160	9	20	17
09	A12N-SCLCL09-R	12	—	—	160	9	20	17
09	A16Q-SCLCL09	16	15	15,5	180	11	22	22
09	A16Q-SCLCL09-R	16	—	—	180	11	22	22
09	A20R-SCLCL09	20	18	19	200	13	32	25
09	A20R-SCLCL09-R	20	—	—	200	13	32	25

Insert Type: CCGT, CCGW, CCMT and CCMW

	Part No.	dm _m	l ₁	f ₁	l ₃	D _m min
06	E08K-SCFCR06-R	8	125	5	21	10
06	E10M-SCFCR06-R	10	150	7	27	13
06	E08K-SCFCL06-R	8	125	5	21	10
06	E10M-SCFCL06-R	10	150	7	27	13
09	E12R-SCFCR09-R	12	200	9	27	17
09	E16X-SCFCR09-R	16	230	11	34	22
09	E12R-SCFCL09-R	12	200	9	27	17
09	E16X-SCFCL09-R	16	230	11	34	22

Insert Type: TCGT, TCMT and TCMW

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
11	A12M-STFCR11	12	11	11,5	150	9	21	16
11	A16R-STFCR11	16	15	15	200	11	25	20
11	A20S-STFCR11	20	18	18,5	250	13	25	25
11	A12M-STFCL11	12	11	11,5	150	9	21	16
11	A16R-STFCL11	16	15	15	200	11	25	20
11	A20S-STFCL11	20	18	18,5	250	13	25	25
16	A25R-STFCR16	25	23	24	200	17	25	32
16	A32S-STFCR16	32	30	31	250	22	35	40
16	A40T-STFCR16	40	37	38,5	300	27	50	50
16	A25R-STFCL16	25	23	24	200	17	25	32
16	A32S-STFCL16	32	30	31	250	22	35	40
16	A40T-STFCL16	40	37	38,5	300	27	50	50

Insert Type: CCGT, CCGW, CCMT and CCMW

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	D _m min
06	A08K-SCFCR06	8	7	7,5	125	5	12	10
06	A08K-SCFCR06-R	8	—	—	125	5	12	10
06	A10L-SCFCR06	10	9	9,5	140	7	18	13
06	A10L-SCFCR06-R	10	—	—	140	7	18	13
06	A08K-SCFCL06	8	7	7,5	125	5	12	10
06	A08K-SCFCL06-R	8	—	—	125	5	12	10
06	A10L-SCFCL06	10	9	9,5	140	7	18	13
06	A10L-SCFCL06-R	10	—	—	140	7	18	13
09	A12N-SCFCR09	12	11	11,5	160	9	20	17
09	A12N-SCFCR09-R	12	—	—	160	9	20	17
09	A16Q-SCFCR09	16	15	15,5	180	11	22	22
09	A16Q-SCFCR09-R	16	—	—	180	11	22	22
09	A20R-SCFCR09	20	18	19	200	13	32	25
09	A20R-SCFCR09-R	20	—	—	200	13	32	25
09	A12N-SCFCL09	12	11	11,5	160	9	20	17
09	A12N-SCFCL09-R	12	—	—	160	9	20	17
09	A16Q-SCFCL09	16	15	15,5	180	11	22	22
09	A16Q-SCFCL09-R	16	—	—	180	11	22	22
09	A20R-SCFCL09	20	18	19	200	13	32	25
09	A20R-SCFCL09-R	20	—	—	200	13	32	25

Insert Type: DCGT, DCMT, DCMW and DCMX

	Part No.	dm _m	h	b	l ₁	f ₁	l ₃	a _p	D _m min
07	A12N-SDUCR07	12	11	11,5	160	9	20	3,5	17
07	A12N-SDUCR07-R	12	—	—	160	9	20	2,5	17
07	A16Q-SDUCR07	16	15	15,5	180	11	22	2,5	22
07	A16Q-SDUCR07-R	16	—	—	180	11	22	2,5	22
07	A12N-SDUCL07	12	11	11,5	160	9	20	3,5	17
07	A12N-SDUCL07-R	12	—	—	160	9	20	2,5	17
07	A16Q-SDUCL07	16	15	15,5	180	11	22	2,5	22
07	A16Q-SDUCL07-R	16	—	—	180	11	22	2,5	22
11	A20R-SDUCR11	20	18	19	200	13	30	2,5	25
11	A20R-SDUCR11-R	20	—	—	200	13	30	2,5	25
11	A25S-SDUCR11	25	23	24	250	17	40	4	32
11	A25S-SDUCR11-R	25	—	—	250	17	40	4	32
11	A20R-SDUCL11	20	18	19	200	13	30	2,5	25
11	A20R-SDUCL11-R	20	—	—	200	13	30	2,5	25
11	A25S-SDUCL11	25	23	24	250	17	40	4	32
11	A25S-SDUCL11-R	25	—	—	250	17	40	4	32
15	A32T-SDUCR15	32	30	31	300	22	50	5	40
15	A32T-SDUCL15	32	30	31	300	22	50	5	40

Insert Type: DCGT, DCMT and DCMW

		Part No.	dm _m	h	b	l ₁	f ₁	l ₃	a _p	D _m min
07		A10L-SDQCR07-R	10	–	–	140	7	18	1,5	13
07		A12N-SDQCR07-R	12	–	–	160	9	20	2,5	17
07		A16Q-SDQCR07	16	15	15,5	180	11	22	2,5	22
07		A10L-SDQCL07-R	10	–	–	140	7	18	1,5	13
07		A12N-SDQCL07-R	12	–	–	160	9	20	2,5	17
07		A16Q-SDQCL07-R	16	–	–	180	11	22	2,5	22
11		A20R-SDQCR11	20	18	19	200	13	32	2,5	25
11		A20R-SDQCL11-R	20	–	–	200	13	32	2,5	25
15		A25S-SDQCR15	25	23	24	250	17	40	4	32
15		A25S-SDQCL15	25	23	24	250	17	40	4	32

Insert Type DCGT, DCMT and DCMW

		Part No.	dm _m	h	b	l ₁	f ₁	l ₃	a _p	D _m min
07		A10L-SDQCR07-R	10	–	–	140	7	18	1,5	13
07		A12N-SDQCR07-R	12	–	–	160	9	20	2,5	17
07		A16Q-SDQCR07	16	15	15,5	180	11	22	2,5	22
07		A10L-SDQCL07-R	10	–	–	140	7	18	1,5	13
07		A12N-SDQCL07-R	12	–	–	160	9	20	2,5	17
07		A16Q-SDQCL07-R	16	–	–	180	11	22	2,5	22
11		A20R-SDQCR11	20	18	19	200	13	32	2,5	25
11		A20R-SDQCL11-R	20	–	–	200	13	32	2,5	25
15		A25S-SDQCR15	25	23	24	250	17	40	4	32
15		A25S-SDQCL15	25	23	24	250	17	40	4	32

Insert Type: VBGT, VBGW, VBMT, VBMW and VCGT

		Part No.	dm _m	h	b	l ₁	f ₁	l ₃	a _p	D _m min
11		A16R-SVQCR11	16	15	15	200	13	25	4,5	22
11		A20S-SVQCR11	20	18	18,5	250	15	25	4,5	27
11		A25T-SVQBC11	25	23	22,5	300	18	35	5	33
11		A16R-SVQCL11	16	15	15	200	13	25	4,5	22
11		A20S-SVQCL11	20	18	18,5	250	15	25	4,5	27
11		A25T-SVQCL11	25	23	22,5	300	18	35	5	33
16		A25S-SVQCR16	25	23	24	250	17	40	4	32
16		A32T-SVQCR16	32	30	31	300	22	50	5,5	40
16		A40U-SVQCR16	40	37	38,5	350	27	60	6,5	50
16		A25S-SVQCL16	25	23	24	250	17	40	4	32
16		A32T-SVQCL16	32	30	31	300	22	50	5,5	40
16		A40U-SVQCL16	40	37	38,5	350	27	60	6,5	50
11		A16R-SVUBR11	16	15	15	200	13	25	4,5	22
11		A20S-SVUBR11	20	18	18,5	250	15	25	4,5	27
11		A25T-SVUBR11	25	23	22,5	300	18	35	5	33
11		A16R-SVUBL11	16	15	15	200	13	25	4,5	22
11		A20S-SVUBL11	20	18	18,5	250	15	25	4,5	27
11		A25T-SVUBL11	25	23	22,5	300	18	35	5	33

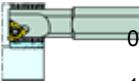
Threading Tools

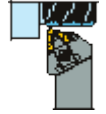
External Threading Tools

Internal Threading Tools

Applica- tion		Part No.	Dimensions in mm				
			h	b	l ₁	f ₁	l ₃
	16	CER1616H16	16	16	100	16	20
	16	CER2020K16HD	20	20	125	20	30
	16	CER2525M16HD	25	25	150	25	30
	16	CEL1616H16	16	16	100	16	20
	16	CEL2020K16HD	20	20	125	20	30
	16	CEL2525M16HD	25	25	150	25	30
	22	CER2525M22HD	25	25	150	25	36
	22	CEL2525M22HD	25	25	150	25	36

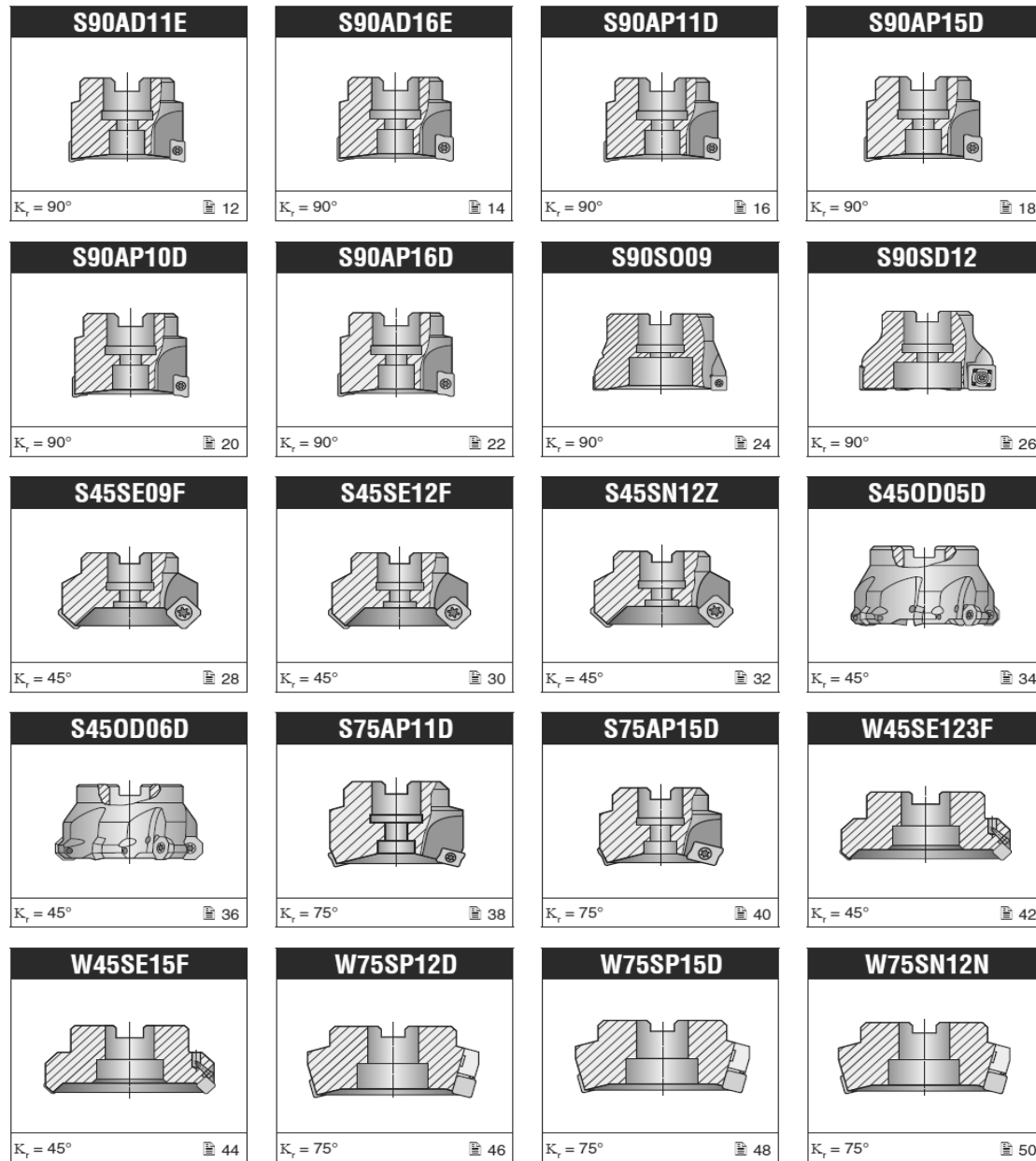
Applica- tion		Part No.	Dimensions in mm						
			dm _m	h	b	l ₁	l ₃	f ₁	D _m min D _m min*
	20	CNR0025R20	25	23	24	200	38	20,5	38 32
	20	CNR0032S20	32	30	31	250	41	24	44 32
	20	CNR0040T20	40	37	38,5	300	45	28	51 40
	20	CNL0025R20	25	23	24	200	38	20,5	38 32
	20	CNL0032S20	32	30	31	250	41	24	44 32
	26	CNR0032S26	32	30	31	250	46	27	50 50
	26	CNR0040T26	40	37	38,5	300	50	31	55 50
	26	CNR0050U26	50	47	48,5	350	55	36	65 50
	26	CNR0063V26	63	60	61,5	400	62	42,5	80 63
	26	CNL0040T26	40	37	38,5	300	50	31	55 50

Applica- tion		Part No.	Dimensions in mm							
			dm _m	h	b	l ₁	l ₃	f ₁	D _m min	D _m min*
	09	SNR0020L09A	20	18	19	140	20	5,1	10,2	–
	11	SNR0010H11	10	–	9,5	100	–	6,5	13	11
	11	SNR0010K11	16	14	15,5	125	30	5,5	12	11
	11	SNR0013L11	16	14	15,5	140	32	7	15	13
	11	SNL0010H11	10	–	9,5	100	–	6,5	13	11
	11	SNL0010K11	16	14	15,5	125	30	5,5	12	11
	11	SNL0013L11	16	14	15,5	140	32	7	15	13
	16	SNR0016M16	16	14	15,5	150	40	10,3	19	16
	16	SNL0016M16	16	14	15,5	150	40	10,3	19	16
	22	SNR0020Q22	20	18	19	180	45	13	24	22
	22	SNL0020Q22	20	18	19	180	45	13	24	22

Applica- tion		Part No.	Dimensions in mm					
			h	b	l ₁	h ₁	f ₁	l ₃
	16	CER2525M16CQHD	25	25	150	20	32	37
	16	CER3232P16CQHD	32	25	170	20	40	37
	22	CER2525M22CQHD	25	25	150	20	32	45
	22	CER3232P22CQHD	32	25	170	20	40	45

Milling Cutters

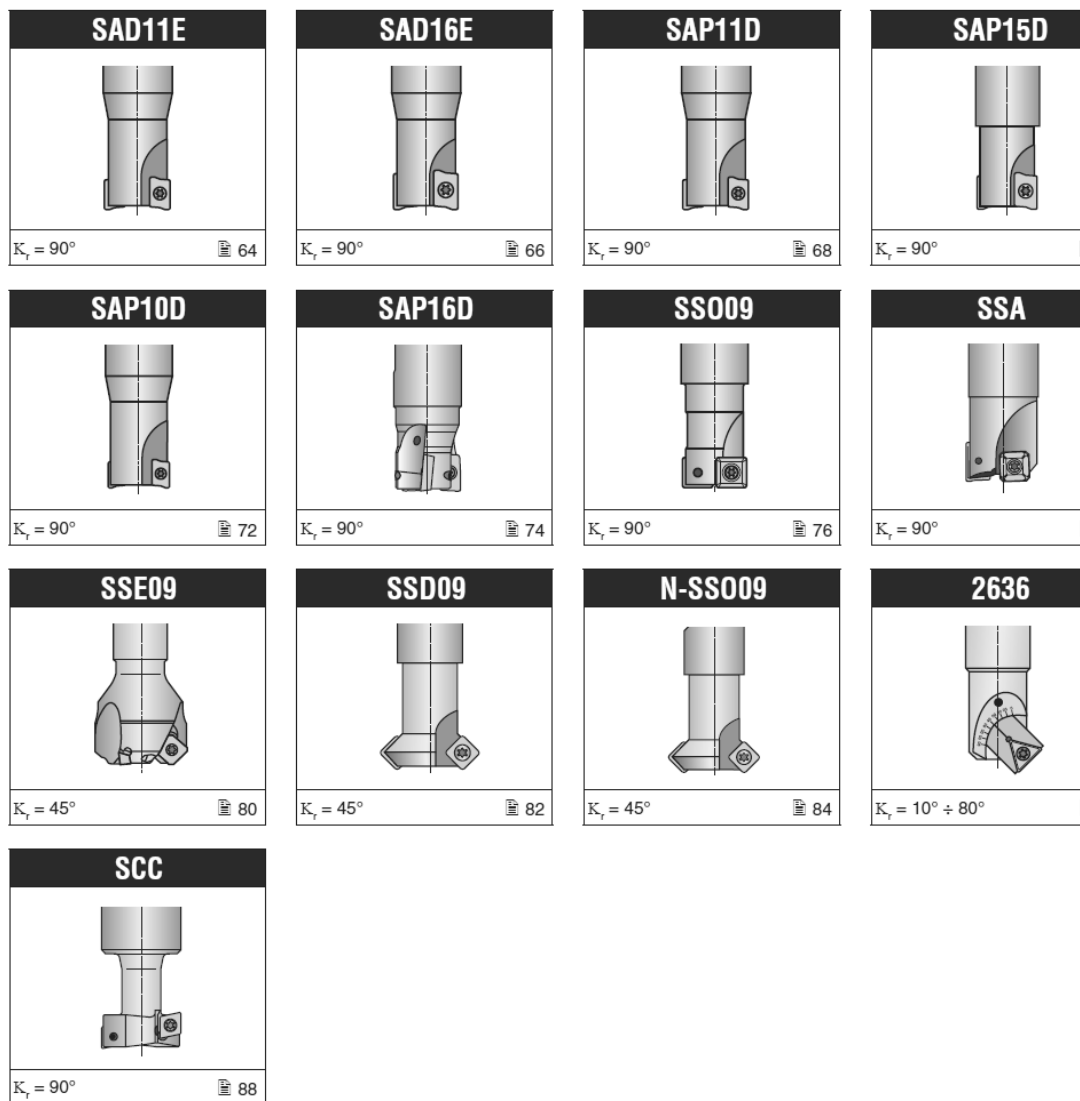
ToolSupply can offer a wide range of high performance tools with superior quality, fully hardened cutters with high metal removal capabilities. All due to higher customer demands and closer tolerances



Face Milling cutters

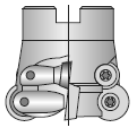
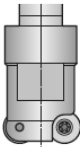
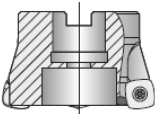
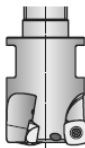
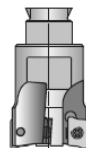
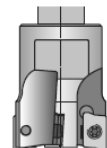
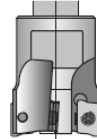
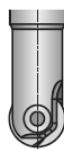
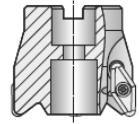
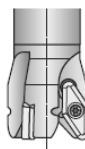
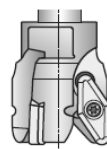
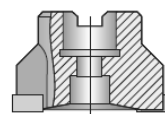
ToolSupply FaceMill is specifically engineered to deliver consistent performance in demanding applications.

- The S Series has highly positive rake for low-power machines or light fixtures.
- The W Series has excellent chip evacuation.



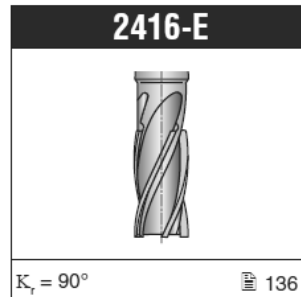
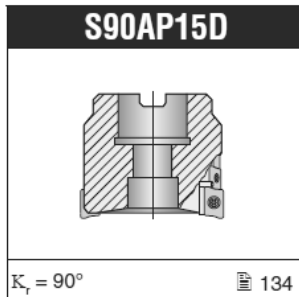
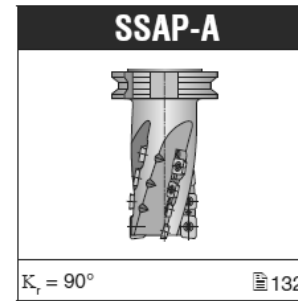
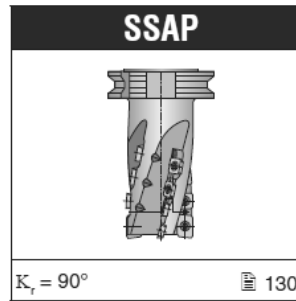
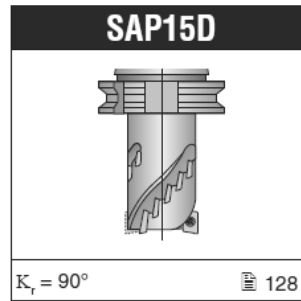
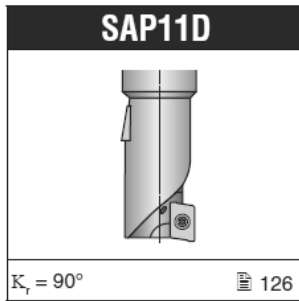
End Milling cutters

- Aggressive ramping angles.
- Superior surface finishes
- High-performance insert cutting edges.

SCMORD   90	B.-SRD..   92	S(C)RD   94	SMOZD..   96
B-SZD..   98	SZD..   100	SAD11E  $K_r = 90^\circ$  102	SAD16E  $K_r = 90^\circ$  104
SAP..D  $K_r = 90^\circ$  106	SRC-A   108	K2-SRC..   110	K2-SLC..  $K_r = 90^\circ$  114
S90VC22C  $K_r = 90^\circ$  118	A-SVC22C  $K_r = 90^\circ$  120	SVC22C  $K_r = 90^\circ$  122	S88CN  $K_r = 90^\circ$  124

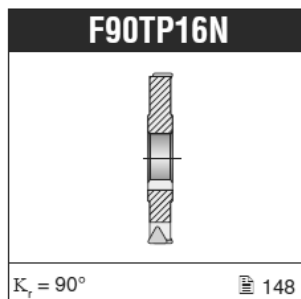
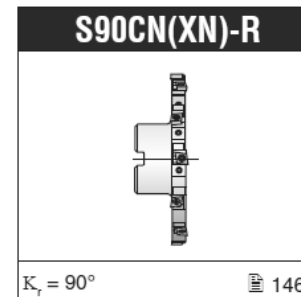
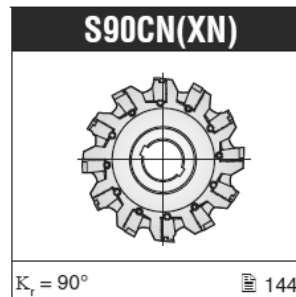
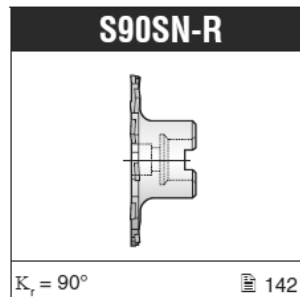
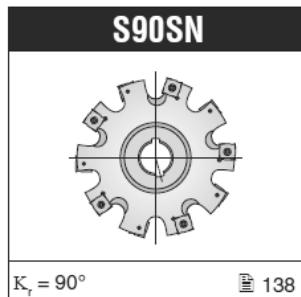
Copy Milling

- Optimized insert cutting edges for better productivity.
- Solutions for face and 90° mills, die & mold cutters, ball nose end mills, and Z-axis mills.
- Classic platforms with proven performance in all materials



Helical milling cutters

- parallel and tapered mills thread to a shoulder.
- Unparalleled size control.
- Low torque and horsepower needs give smaller machines versatility for larger threads.
- Complete tool lineup for internal threading

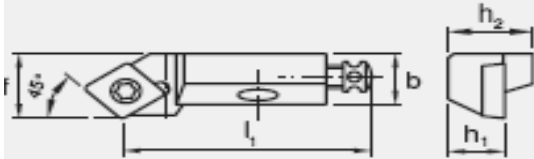
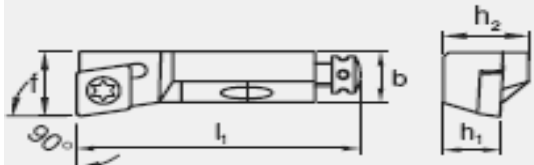
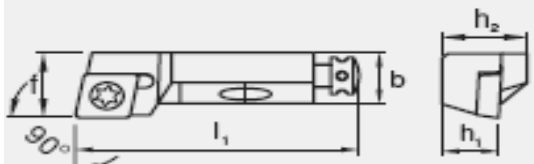


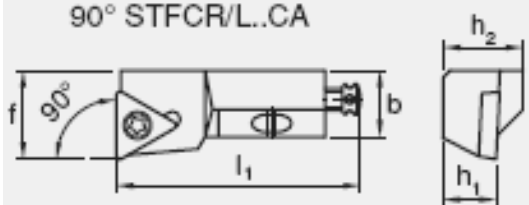
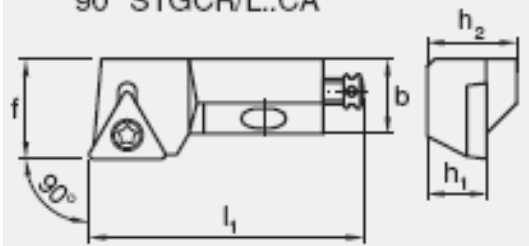
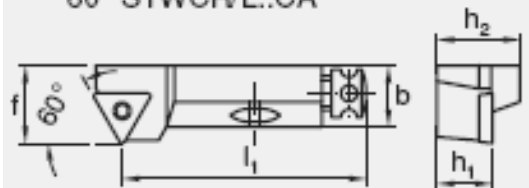
Disc milling Cutters

- very narrow slotters for all flat-bottom and cut-off operations.
- Adjustable or fixed pockets.
- Superior surface finishes.

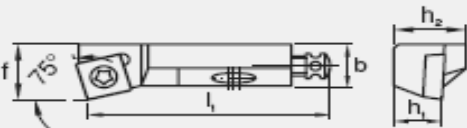
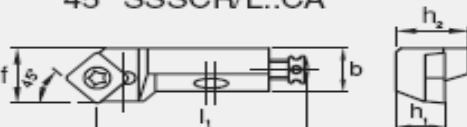
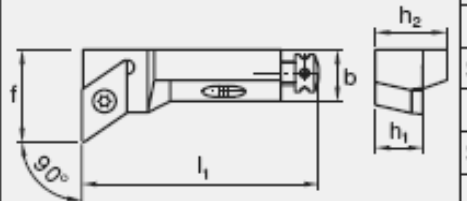
Cartridges

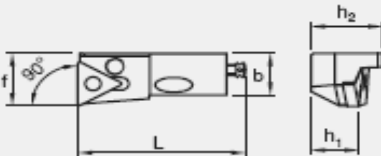
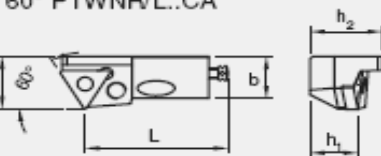
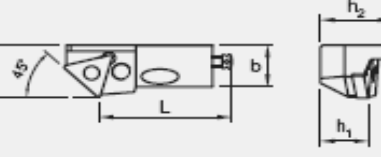
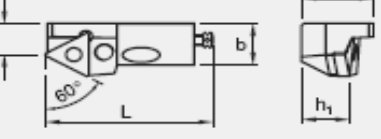
ISO P-Type

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90° SCFCR/L..CA 	SCFCR/L 06 CA 06 SCFCR/L 08 CA 06 SCFCR/L 10 CA 09 SCFCR/L 12 CA 12 SCFCR/L 16 CA 12
90° SCGCR/L..CA 	SCGCR/L 06 CA 06 SCGCR/L 08 CA 06 SCGCR/L 10 CA 09

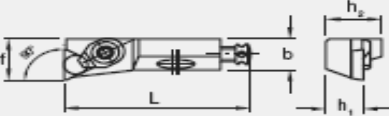
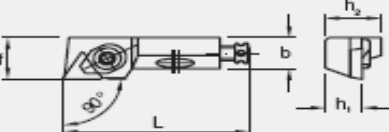
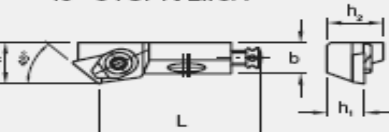
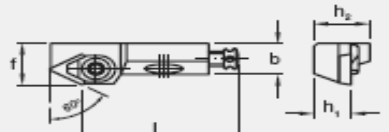
	ISO Code No. ISO Kod No.
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90° STGCR/L..CA 	STGCR/L 10 CA 11 STGCR/L 12 CA 16 STGCR/L 16 CA 16
60° STWCR/L..CA 	STWCR/L 08 CA 09 STWCR/L 10 CA 11

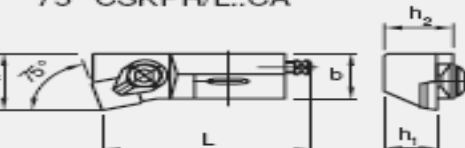
ISO P-Type

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45° SSSCR/L..CA 	SSSCR/L 10 CA 09 SSSCR/L 12 CA 12 SSSCR/L 16 CA 12
90° SDUCR/L..CA 	SDUCR/L 10 CA 07 SDUCR/L 12 CA 07 SDUCR/L 12 CA 11

	ISO Code No. ISO Kod No.
90° PTFNR/L..CA 	PTFNR/L 12 CA 16 PTFNR/L 16 CA 16 PTFNR/L 20 CA 22 PTFNR/L 25 CA 22
60° PTWNR/L..CA 	PTWNR/L 12 CA 16 PTWNR/L 16 CA 16 PTWNR/L 20 CA 22
45° PTSNR/L..CA 	PTSNR/L 12 CA 16 PTSNR/L 16 CA 16 PTSNR/L 20 CA 22
60° PTTNR/L..CA 	PTTNR/L 12 CA 16 PTTNR/L 16 CA 16 PTTNR/L 20 CA 22

Cartridges
ISO C-Type

	ISO Code No. ISO Kod No.
90° CTFPR/L..CA 	CTFPR/L 10 CA 11 CTFPR/L 12 CA 16 CTFPR/L 16 CA 16
90° CTGPR/L..CA 	CTGPR/L 10 CA 11 CTGPR/L 12 CA 16
45° CTSPR/L..CA 	CTSPR/L 10 CA 11 CTSPR/L 12 CA 16
60° CTPR/L..CA 	CTTPR/L 10 CA 11 CTTPR/L 12 CA 16

	ISO Code No. ISO Kod No.
75° CSKPR/L..CA 	CSKPR/L 10 CA 09 CSKPR/L 12 CA 12 CSKPR/L 16 CA 12
45° CSSPR/L..CA 	CSSPR/L 10 CA 09 CSSPR/L 12 CA 12





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