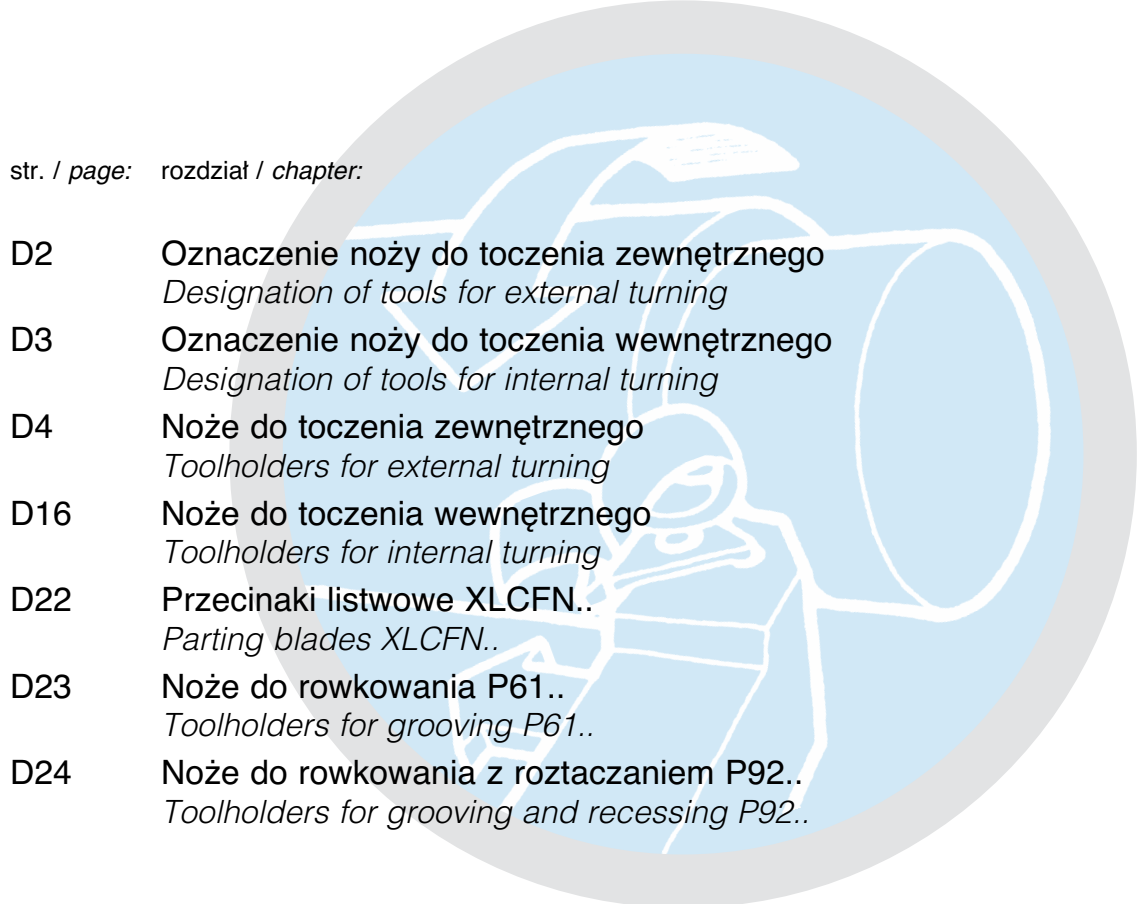
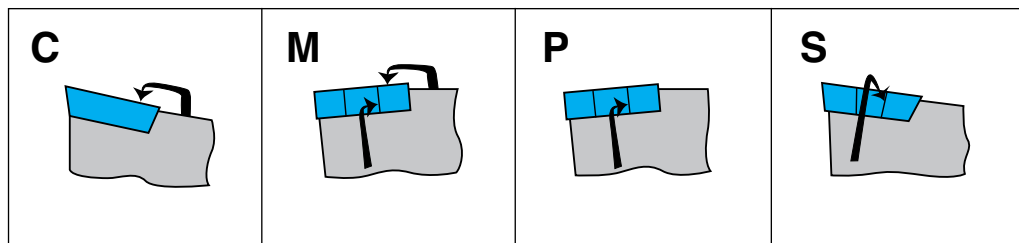
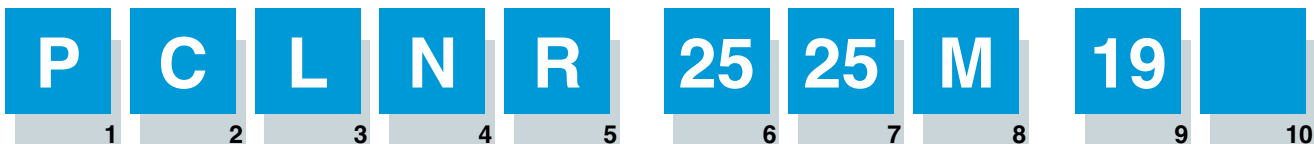


NARZĘDZIA DO TOCZENIA

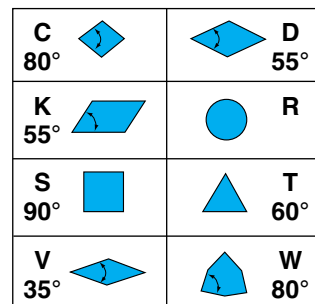
TOOLS FOR TURNING

str. / page: rozdział / chapter:

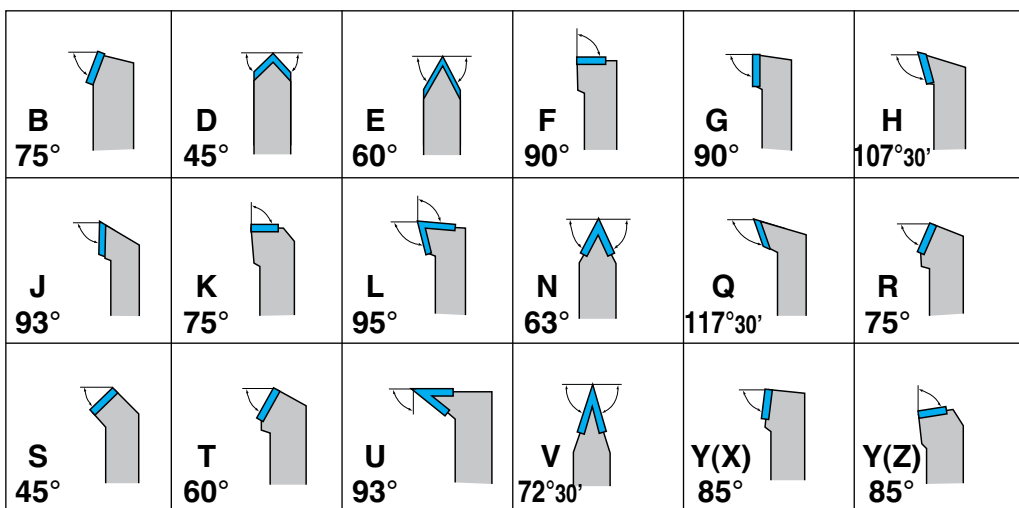
- 
- D2 **Oznaczenie noży do toczenia zewnętrznego**
Designation of tools for external turning
- D3 **Oznaczenie noży do toczenia wewnętrznego**
Designation of tools for internal turning
- D4 **Noże do toczenia zewnętrznego**
Toolholders for external turning
- D16 **Noże do toczenia wewnętrznego**
Toolholders for internal turning
- D22 **Przecinaki listwowe XLCFN..**
Parting blades XLCFN..
- D23 **Noże do rowkowania P61..**
Toolholders for grooving P61..
- D24 **Noże do rowkowania z roztaczaniem P92..**
Toolholders for grooving and recessing P92..



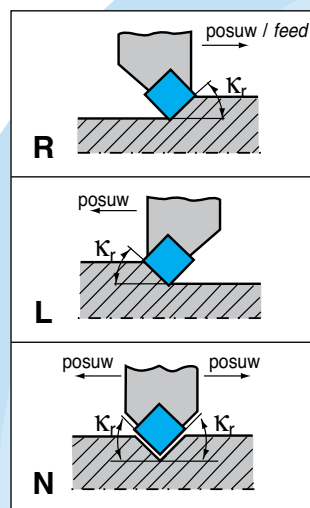
System mocowania / Clamping system 1



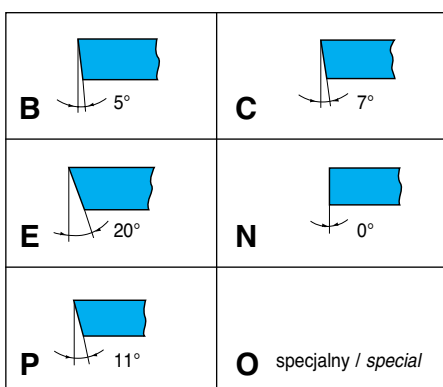
Kształt płytki 2
Insert shape



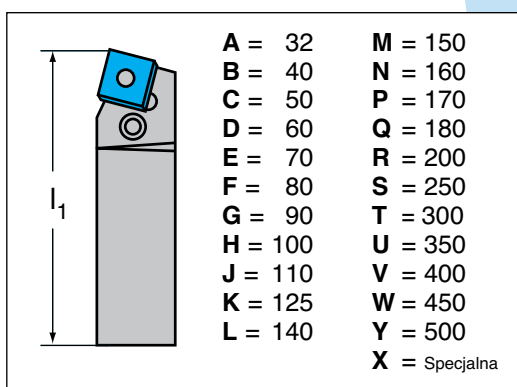
Rodzaj noża / Toolholder type 3



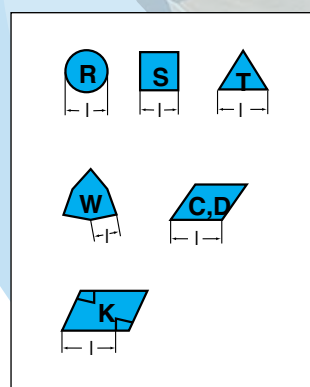
Kierunek skrawania 5
Cutting direction



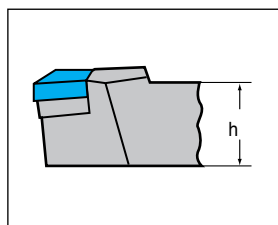
Kąt przyłożenia α_n 4
Normal clearance angle



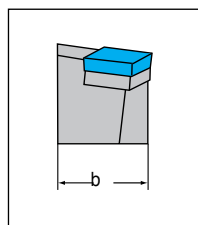
Długość noża / Toolholder length 8



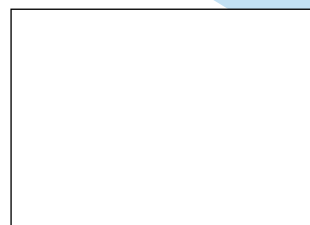
Długość boku płytki 9
Edge length



Wysokość noża 6
Toolholder height



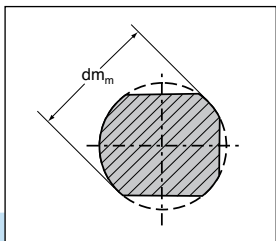
Szerokość noża 7
Toolholder width



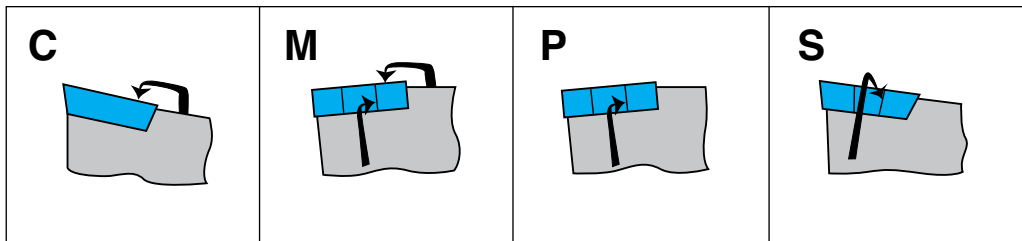
Informacja dodatkowa 10
Additional information

S **32** **U** - **P** **W** **L** **N** **R** **08**

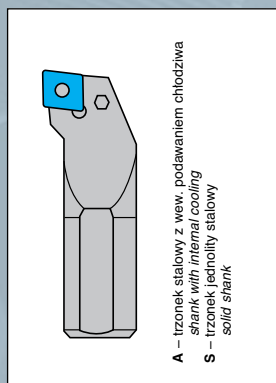
1 2 3 4 5 6 7 8 9 10



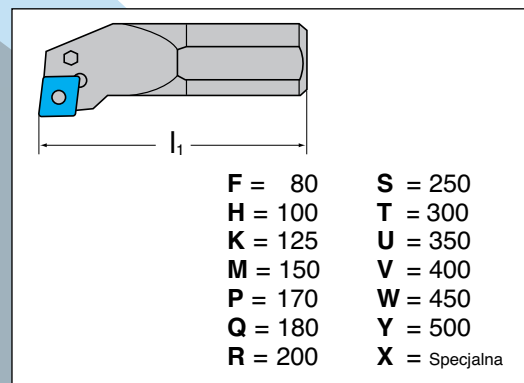
Srednica trzonu 2
Shank diameter



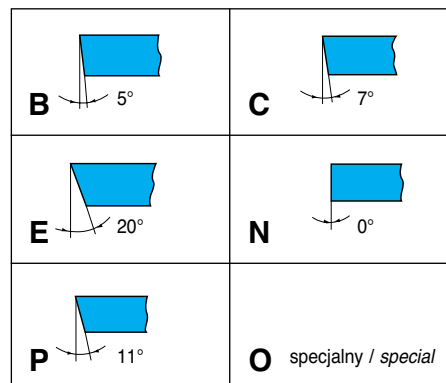
System mocowania / Clamping system 4



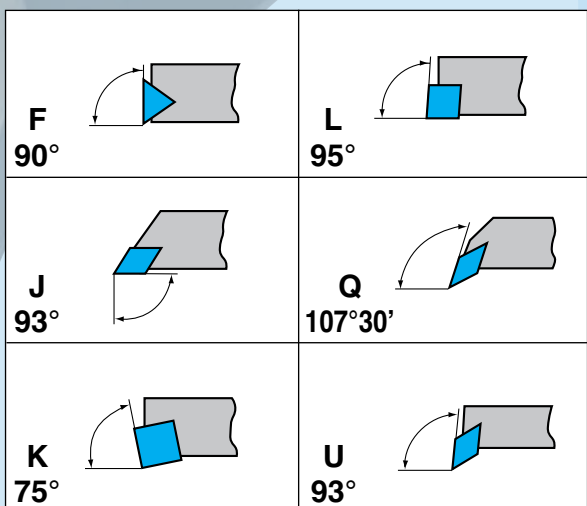
Wykonanie trzonu 1
Shank type



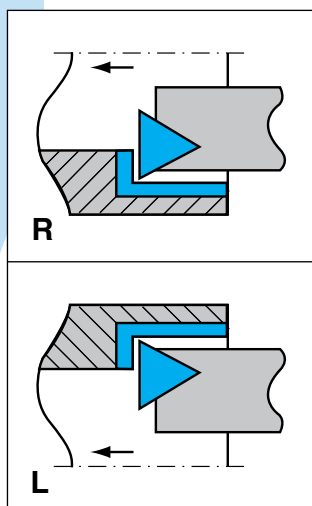
Długość noża / Toolholder length 3



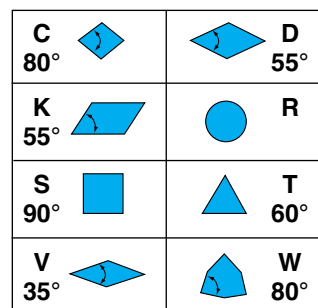
Kąt przyłożenia α_n 7
Normal clearance angle



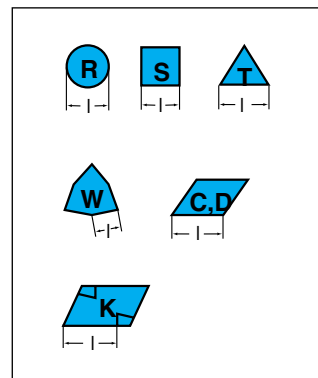
Rodzaj noża / Toolholder type 6



Kierunek skrawania 8
Cutting direction



Kształt płytki 5
Insert shape



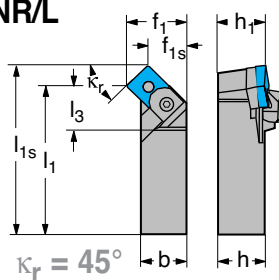
Długość boku płytki 9
Edge length

Np.

- W – mocowanie klinem / wedge clamping
- D – wymiar f_1 przedłużony o + 1,0 mm
extendend f_1 – dimension, + 1,0 mm
- E – wymiar f_1 przedłużony o + 2,0 mm
extendend f_1 – dimension, + 2,0 mm

Informacja dodatkowa / Additional information 10

MSSNR/L



M

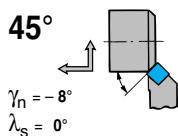
Zastosowanie
Application



Oznaczenie
Designation

h h₁ b l₁ l_{1s} l₃ f₁ f_{1s}
(mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm)

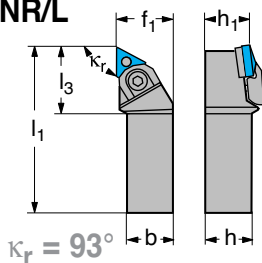
SNMA
SNMM
SNMG



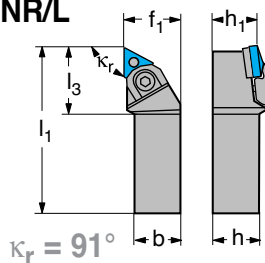
12	MSSNR/L 2525M12	25	25	25	150	158,3	23	32	23,9
19	MSSNR/L 3232P19	32	32	32	170	182,5	31,3	40	27,8
25	MSSNR/L 4040S25	40	40	40	250	266	34	50	34,3



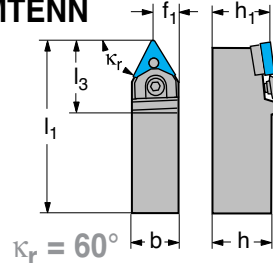
MTJNR/L



MTGNR/L



MTENN



M

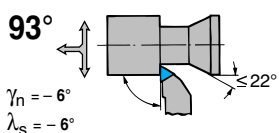
Zastosowanie
Application



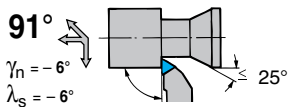
Oznaczenie
Designation

h h₁ b l₁ l₃ f₁
(mm) (mm) (mm) (mm) (mm) (mm)

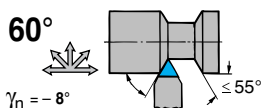
TNMA
TNMM
TNMG



16	MTJNR/L 2020K16M1	20	20	20	125	30,8	25
	MTJNR/L 2525M16M1	25	25	25	150	30,8	32
	MTJNR/L 3225P16M1	32	32	25	170	30,8	32
22	MTJNR/L 2525M22M1	25	25	25	150	34,8	32
	MTJNR/L 3225P22M1	32	32	25	170	34,8	32



22	MTGNR/L 2525M22M1	25	25	25	150	34,8	32
	MTGNR/L 3225P22M1	32	32	25	170	34,8	32
	MTGNR/L 3232P22M1	32	32	32	170	34,8	40



22	MTENN 2525M22M1	25	25	25	150	35,7	13
	MTENN 3225P22M1	32	32	25	170	35,7	13
	MTENN 3232P22M1	32	32	32	170	35,7	16,5



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Klin
Clamp



Pł. podporowa
Shim



Kołek
Pin



Śruba
Screw



Klucz
Key



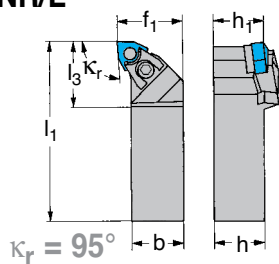
12	181.38-824-1	181.38-850	181.38-840	3212 010-255	174.1-864 (3,0)
19	181.38-825-1	181.38-851	181.38-841	3212 010-306	174.1-864 (3,0)
25	181.38-826-1	181.38-852	181.38-842	3212 100-357	3021 010-040 (4,0) 3021 010-050 (5,0) 3021 010-040 (4,0)



16	170.38-820-1	170.3-852	5313 021-02	3212 010-206	174.1-863 (2,5)
22	170.38-821-1	170.3-855	181.38-840	3212 010-255	174.1-864 (3,0)

Przykład zamówienia / Ordering example: MSSNR 2525M12 – 1 szt. / pcs

MWLNr/L



M

Zastosowanie
Application

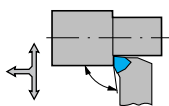


Oznaczenie
Designation

h h₁ b l₁ l₃ f₁
(mm) (mm) (mm) (mm) (mm) (mm)

95°

$\gamma_n = -6^\circ$
 $\lambda_s = -6^\circ$



06

MWLNr/L 2020K06
MWLNr/L 2525M06

20 20 20 125 26 25
25 25 25 150 26 32

08

MWLNr/L 2020K08
MWLNr/L 2525M08
MWLNr/L 3225P08

20 20 20 125 30 27
25 25 25 150 35 32
32 32 25 170 35 32

WNMA
WNMG



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Docisk
Clamp



Śruba
Screw



Pł. podporowa
Shim



Kolek
Pin



Klucz
Key



06

5431125-011

5512-030-03

5322-331-06

5313022-01

170.3-860 (2,5)
170.3-864 (1,98)

08

5431125-021

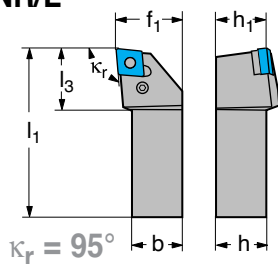
3212-010-255

5322-331-07

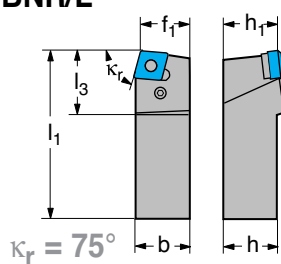
5313022-03

174.1-864 (3,0)

PCLNR/L



PCBNR/L



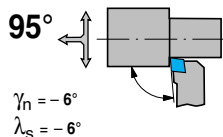
P

Zastosowanie
Application



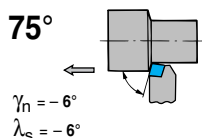
Oznaczenie
Designation

h (mm) h₁ (mm) b (mm) l₁ (mm) l₃ (mm) f₁ (mm)



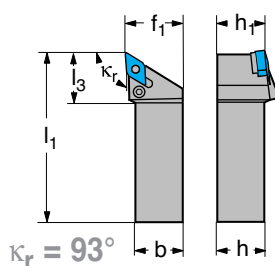
12	PCLNR/L 1616H12-M	16	16	16	100	26,1	20
	PCLNR/L 2020K12	20	20	20	125	29,4	25
	PCLNR/L 2525M12	25	25	25	150	30,0	32
	PCLNR/L 3225P12	32	32	25	170	30,0	32
19	PCLNR/L 2525M19	25	25	25	150	38,0	32
	PCLNR/L 3225P19	32	32	25	170	38,0	32
	PCLNR/L 3232P19	32	32	32	170	38,0	40
	PCLNR/L 4040S19	40	40	40	250	37,0	50

CNMA
CNMM
CNMG



12	PCBNR/L 2525M12	25	25	25	150	29,0	22
19	PCBNR/L 3232P19	32	32	32	170	37,9	27
	PCBNR/L 4040S19	40	40	40	250	37,2	35

PDJNR/L R/L 171.35



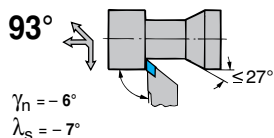
P

Zastosowanie
Application



Oznaczenie
Designation

h (mm) h₁ (mm) b (mm) l₁ (mm) l₃ (mm) f₁ (mm)



15	PDJNR/L 2020K15	20	20	20	125	34,7	25
	PDJNR/L 2525M15	25	25	25	150	34,7	32
	PDJNR/L 3225P15	32	32	25	170	34,7	40
15	R/L 171.35-4025-15	40	40	25	200	38,0	28,7
	R/L 171.35-5032-15	50	50	32	225	38,0	35

DNMG



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Dźwignia
Lever

Śruba
Screw

Pł. podporowa
Shim

Tuleja sprężysta
Shim pin

Klucz
Key



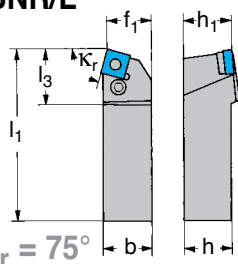
12	dla/for ...M	174.3-848M	174.3-858	171.31-850M	174.3-861	174.1-864 (3,0)
		174.3-841M	174.3-821	-	-	171.1-864 (3,0)
19		174.3-842M	174.3-822M	171.31-851M	174.3-862	3021 010-040 (4,0)
12	dla/for ...M12	174.3-841M	174.3-821	171.31-850M	174.3-861	174.1-864 (3,0)



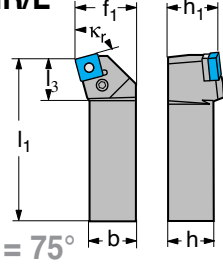
15		174.3-847M	174.3-830	171.35-851M	174.3-861	174.1-864 (3,0)
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Przykład zamówienia / Ordering example: PCLNR 1616H12-M – 1 szt. / pcs

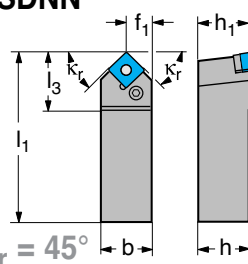
PSBNR/L



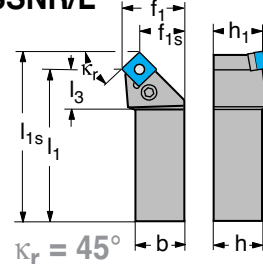
PSKNR/L



PSDNN



PSSNR/L

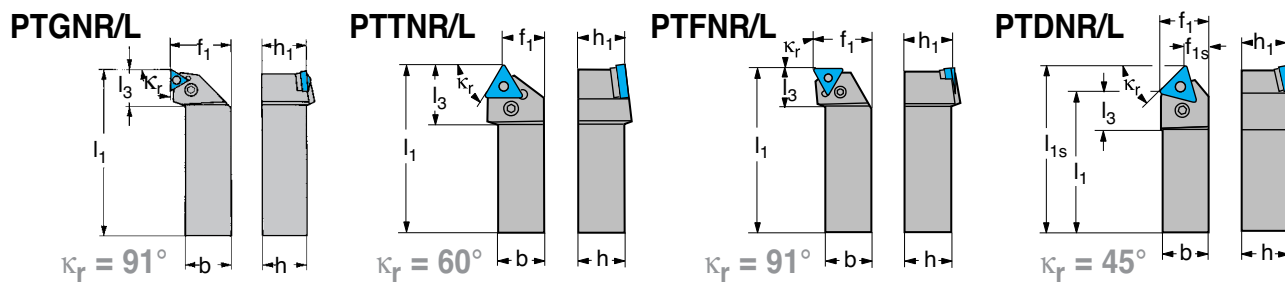


P

Zastosowanie Application	Oznaczenie Designation	h (mm)	h ₁ (mm)	b (mm)	l ₁ (mm)	l _{1s} (mm)	l ₃ (mm)	f ₁ (mm)	f _{1s} (mm)	
	09 PSBNR/L 1616K09	16	16	16	100	-	20,8	13	-	
	PSBNR/L 2020K09	20	20	20	125	-	23,0	17	-	
	12 PSNR/L 1212F09	12	12	12	80	-	21,0	13	-	
	PSBNR/L 2020K12	20	20	20	125	-	27,5	17	-	
	PSBNR/L 2525M12	25	25	25	150	-	27,5	22	-	
	PSBNR/L 3225P12	32	32	25	170	-	27,5	22	-	
	19 PSBNR/L 3232P19	32	32	32	170	-	39,2	27	-	
	PSBNR/L 4040S19	40	40	40	250	-	41,5	35	-	
	25 PSBNR/L 4040S25	40	40	40	250	-	47,5	35	-	
	PSBNR/L 5050T25	50	50	50	300	-	47,5	43	-	
	09 PSKNR/L 1616K09	16	16	16	100	-	16,5	20	-	
	PSKNR/L 2020K09	20	20	20	125	-	17,4	25	-	
	12 PSKNR/L 2020K12	20	20	20	125	-	22,7	25	-	
	PSKNR/L 2525M12	25	25	25	150	-	22,7	32	-	
	PSKNR/L 3225P12	32	32	25	170	-	22,7	32	-	
	19 PSKNR/L 3232P19	32	32	32	170	-	37,5	40	-	
	PSKNR/L 4040S19	40	40	40	250	-	32,9	50	-	
	25 PSKNR/L 5050T25	50	50	50	300	-	37,5	60	-	
	09 PSDNN 1010E09	10	10	10	70	-	20,0	5,3	-	
	PSDNN 1212E09	12	12	12	80	-	20,0	6,3	-	
	12 PSDNN 1616H09	16	16	16	100	-	21,0	8,3	-	
	PSDNN 2020K12	20	20	20	125	-	27,6	10,3	-	
	PSDNN 2525M12	25	25	25	150	-	27,6	12,8	-	
	PSDNN 3225P12	32	32	25	170	-	27,6	12,8	-	
	19 PSDNN 3225P19	32	32	25	170	-	40,4	13,0	-	
	PSDNN 3232P19	32	32	32	170	-	40,4	16,5	-	
	25 PSDNN 4040S25	40	40	40	250	-	48,8	21,0	-	
	09 PSSNR/L 1616H09	16	16	16	100	106,1	22,0	20	13,9	
	PSNR/L 2020K09	20	20	20	125	131,1	21,9	25	18,9	
	12 PSSNR/L 2525M09	25	25	25	150	156,1	23,0	32	25,9	
	PSNR/L 2020K12	20	20	20	125	133,3	29,3	25	17,0	
	PSNR/L 2525M12	25	25	25	150	158,3	29,3	32	24,0	
	PSNR/L 3225P12	32	32	25	170	178,3	29,3	32	24,0	
	15 PSSNR/L 2525M15	25	25	25	150	160,2	34,0	32	21,8	
PSNR/L 3225P15	32	32	25	150	180,2	34,0	32	21,8		
PSNR/L 3232P15	32	32	32	170	180,2	34,0	40	29,8		
19 PSSNR/L 3232P19	32	32	32	170	182,5	41,3	40	27,9		
PSNR/L 4040S19	40	40	40	250	262,5	41,5	50	37,9		
25 PSSNR/L 4040S25	40	40	40	250	266	8,8	50	34,4		
Części zamienne Spare parts		Dźwignia Lever		Śruba Screw		Pł. podporowa Shim		Tuleja sprężysta Shim pin		Klucz Key
	09*	174.3-840-1	174.3-829	-	-	170.1-870 (1,98)				
	09	174.3-840M	174.3-820M	174.3-850M	-	170.1-860 (2,5)				
	12	174.3-841M	174.3-821	174.3-851M	174.3-861	174.1-864 (3,0)				
	19	174.3-842M	174.3-822M	174.3-852M	174.3-862	3021 010-040 (4,0)				
	25	174.3-844M	174.3-827	174.3-853M	174.3-865	3021 010-050 (5,0)				

* tylko dla PSNR/L 1212F09

Przykład zamówienia / Ordering example: PSBNR 1616K09 – 1 szt. / pcs



P

Zastosowanie Application	Oznaczenie Designation	h (mm)	h ₁ (mm)	b (mm)	l ₁ (mm)	l ₃ (mm)	f ₁ (mm)		
91° $\gamma_n = -6^\circ$ $\lambda_s = -6^\circ$	16 PTG NR/L 1616H16	16	16	16	100	20,2	20		
	PTG NR/L 2020K16	20	20	20	125	20,2	25		
	PTG NR/L 2525M16	25	25	25	150	22,2	32		
	PTG NR/L 3225P16	32	32	25	170	22,2	32		
	22 PTG NR/L 2525M22	25	25	25	150	28,7	32		
	PTG NR/L 3225P22	32	32	25	170	28,7	32		
	PTG NR/L 3232P22	32	32	32	170	28,7	40		
	27 PTG NR/L 3232P27	32	32	32	170	35,2	40		
	PTG NR/L 4040S27	40	40	40	250	34	50		
	60° $\gamma_n = -6^\circ$ $\lambda_s = -6^\circ$	16 PTT NR/L 1616H16	16	16	16	100	23,4	13	
PTT NR/L 2020K16		20	20	20	125	25,9	17		
22 PTT NR/L 2525M22		25	25	25	150	31,9	22		
PTT NR/L 3225P22		32	32	25	170	31,9	22		
91° $\gamma_n = -6^\circ$ $\lambda_s = -6^\circ$		16 PTF NR/L 1616H16	16	16	16	100	19,7	20	
		PTF NR/L 2020K16	20	20	20	125	20,2	25	
	PTF NR/L 2525M16	25	25	25	150	20,2	32		
	22 PTF NR/L 2525M22	25	25	25	150	25,2	32		
PTF NR/L 3225P22	32	32	25	170	25,2	32			
PTF NR/L 3232P22	32	32	32	170	25,2	40			
27 PTF NR/L 3232P27	32	32	32	170	34,4	40			
PTF NR/L 4040S27	40	40	40	250	33,2	50			
45° $\gamma_n = -7^\circ$ $\lambda_s = 0^\circ$	22 PTD NR/L 2525M22	25	25,9	25	136	150	19,5	27	13

TNMA
TNMM
TNMG



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne Spare parts



Dźwignia
Lever



Śruba
Screw



Pł. podporowa
Shim



Tuleja sprężysta
Shim pin



Klucz
Key



16
22
27

174.3-840M
174.3-841M
174.3-843M

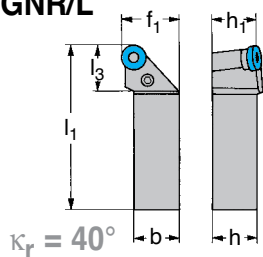
174.3-820M
174.3-821
174.3-825

179.3-850M
179.3-852M
179.3-854M

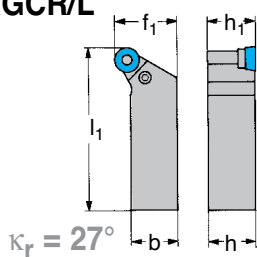
174.3-860
174.3-861
174.3-864

170.3-860 (2,5)
174.1-864 (3,0)
174.1-864 (3,0)

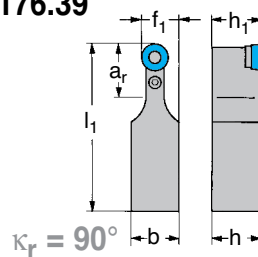
PRGNR/L



PRGCR/L



N 176.39



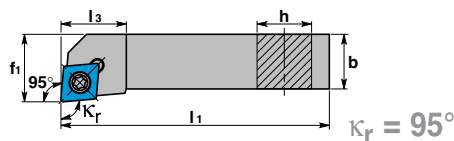
P

Zastosowanie Application	Oznaczenie Designation	h (mm)	h ₁ (mm)	b (mm)	l ₁ (mm)	l _s (mm)	a _r (mm)	f ₁ (mm)	RNMG
	09 PRGNR/L 2020K09	20	20	20	125	20,8	-	25	
	12 PRGNR/L 2525M12	25	25	25	150	27,2	-	32	
	15 PRGNR/L 3225P15	32	32	25	170	33,2	-	32	
	19 PRGNR/L 3232P19	32	32	32	170	38,0	-	40	
	25 PRGNR/L 4040S25	40	40	40	250	41,9	-	50	
	10 PRGCR/L 2020K10	20	20	20	125	-	-	25	
	12 PRGCR/L 2525M10	25	25	25	150	-	-	32	
	12 PRGCR/L 2020K12	20	20	20	125	-	-	25	
	12 PRGCR/L 2525M12	25	25	25	150	-	-	32	
	12 PRGCR/L 3225P12	32	32	25	170	-	-	32	
20 PRGCR/L 3232P20	32	32	32	170	-	-	40		
25 PRGCR/L 4040S25	40	40	40	250	-	-	50		
	10 N 176.39-2020-10	20	20	20	150	-	25	15,0	
	12 N 176.39-2525-12	25	25	25	150	-	28	18,5	
	12 N 176.39-3225-12	32	32	25	180	-	28	18,5	
	20 N 176.39-3232-20	32	32	32	180	-	40	26,0	
	25 N 176.39-4040-25	40	40	40	300	-	50	32,5	

κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne Spare parts	Dźwignia Lever	Śruba Screw	Pł. podporowa Shim	Tuleja sprężysta Shim pin	Klucz Key	
	09	174.3-840M	174.3-820M	176.3-850	174.3-863	170.3-860 (2,5)
	12	174.3-841M	174.3-821	176.3-851M	174.3-861	174.1-864 (3,0)
	15	174.3-843M	174.3-825	176.3-854M	174.3-864	174.1-864 (3,0)
	19	174.3-842M	174.3-822M	176.3-852M	174.3-862	3021 010-040 (4,0)
	25	174.3-844M	174.3-827	176.3-853M	174.3-865	3021 010-050 (5,0)
	10	176.39-840	174.3-834	176.39-850	174.3-860	170.3-864 (1,98)
	12	5432 005-01	174.3-820M	176.39-851	174.3-863	170.3-860 (2,5)
	20	176.39-843	174.3-825	176.39-853	174.3-864	174.1-864 (3,0)
	25	176.39-844	174.3-832	176.39-854	174.3-862	3021 010-040 (4,0)
	10	176.39-840	174.3-834	176.39-850	174.3-860	170.3-864 (1,98)
	12	5432 005-01	174.3-820M	176.39-851	174.3-863	170.3-860 (2,5)
	20	176.39-843	174.3-825	176.39-853	174.3-864	174.1-864 (3,0)
	25	176.39-844	174.3-832	176.39-854	174.3-862	3021 010-040 (4,0)

SCLCR/L



S

Zastosowanie
Application



Oznaczenie
Designation

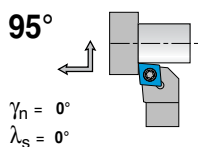
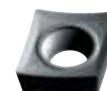
h b l_{1s} l₃ f₁
(mm) (mm) (mm) (mm) (mm)

CCMT

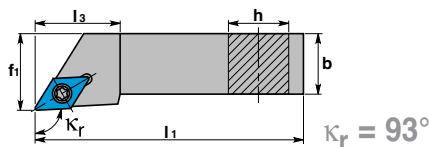
06	SCLCR/L 0808K06-S	8	8	125	8	8
	SCLCR/L 1010K06-S	10	10	125	10	10
	SCLCR/L 1212K06-S	12	12	125	12	12
	SCLCR/L 1616K06-S	16	16	125	16	16
09	SCLCR 1212F09-M	12	12	80	19,5	16
	SCLCR 1616H09	16	16	100	18	20
	SCLCR 2020K09	20	20	125	18	25
12	SCLCR 2020K12	20	20	125	25	25
	SCLCR 2525M12	25	25	150	25	32



CCGT



SDJCR/L



S

Zastosowanie
Application



Oznaczenie
Designation

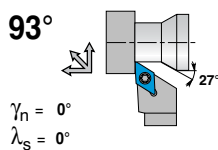
h b l₁ l₃ f₁
(mm) (mm) (mm) (mm) (mm)

DCMT

07	SDJCR/L 1010E07	10	10	70	17	12
	SDJCR/L 1212F07	12	12	80	19	16
	SDJCR/L 1616H07	16	16	100	19	20
	SDJCR/L 2020K07	20	20	125	22	25
11	SDJCR/L 2020K11	20	20	125	24	25
	SDJCR/L 2525M11	25	25	150	28	32



DCGT



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw

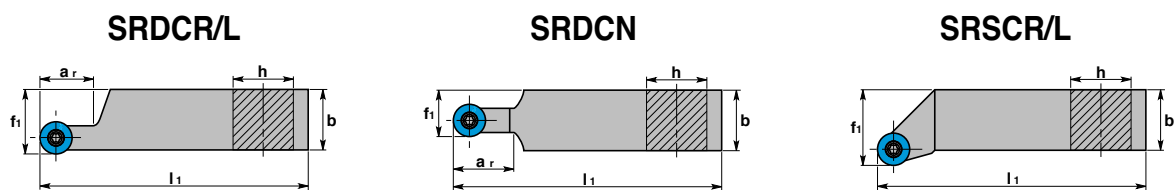


Klucz
Key


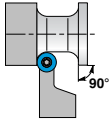

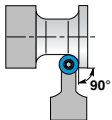

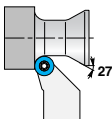



06	5513 020-03 (M2,5)	–	–	416.1-861 (T8)
	09 5513 020-01 (M3,5)	5322 232-01	5512 090-01	5680 049-01 (T15/3,5)
	dla/for ...-M 5513 020-10 (M3,5)	–	–	5680 016-01 (T15/3,5)
12	5513 020-18 (M4)	5322 232-02	5512 090-03	5680 049-01 (15IP)
07	5513 020-03 (M2,5)	–	–	5680 051-02 (7IP)
	11 5513 020-01 (M3,5)	5322 232-01	5512 090-01	5680 049-01 (15IP)

Przykład zamówienia / Ordering example: SCLCR 0808J06 – 1 szt. / pcs



S

Zastosowanie Application		Oznaczenie Designation	h (mm)	b (mm)	l ₁ (mm)	a _r (mm)	f ₁ (mm)
 $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$		06 SRDCR/L 2020K06A	20	20	125	20	20,5
		08 SRDCR/L 3225P06A	32	25	170	20	25,5
		08 SRDCR/L 2020K08A	20	20	125	20	20,5
		08 SRDCR/L 2525M08A	25	25	150	20	25,5
		08 SRDCR/L 3225P08A	32	25	170	20	25,5
 $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$		06 SRDCN 1212F06	12	12	80	12	9
		08 SRDCN 1616H08	16	16	100	16	12
		10 SRDCN 2020K10A	20	20	125	25	15
		10 SRDCN 2525M10A	25	25	150	25	17,5
		12 SRDCN 2525M12A	25	25	150	28	18,5
12 SRDCN 3225P12A	32	25	170	28	18,5		
 $\gamma = 0^\circ$ $\lambda_s = 0^\circ$		06 SRSCR/L 3225P06	32	25	170	-	32
		08 SRSCR/L 3225P08	32	25	170	-	32
		10 SRSCR/L 2020K10	20	20	125	-	25
		12 SRSCR/L 2525M12	25	25	150	-	32
		12 SRSCR/L 3225P12	32	25	170	-	32

RCMT



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



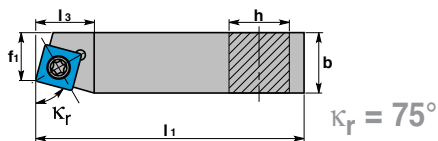
Klucz
Key



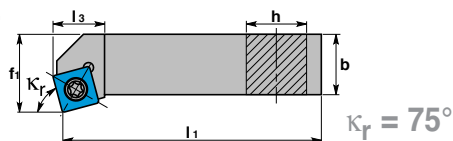
06	5513 020-05 (M2,2)	-	-	5680 051-02 (7IP)
08	5513 020-04 (M3)	-	-	5680 051-03 (9IP)
10	5513 020-10 (M3,5)	5322 110-01	5512 090-01	5680 016-01 (T15/3,5)
12	5513 020-01 (M3,5)	5322 110-02	5512 090-01	5680 016-01 (T15/3,5)

Przykład zamówienia / Ordering example: SRDCR 2020K08A – 1 szt. / pcs

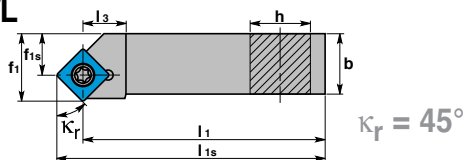
SSBCR/L



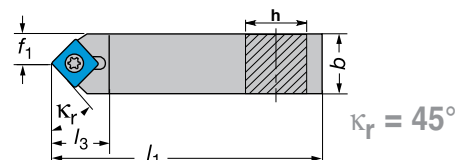
SSKCR/L



SSDCR/L



SSDCN



S

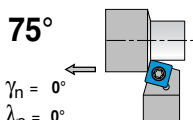
Zastosowanie
Application



Oznaczenie
Designation

h (mm) b (mm) l1 (mm) l3 (mm) f1 (mm) l1s (mm) f1s (mm)

75°



$\gamma_n = 0^\circ$
 $\lambda_s = 0^\circ$

09

SSBCR/L 1616H09

16 16 100 15,5 13 - -

12

SSBCR/L 2020K12

20 20 125 21 17 - -

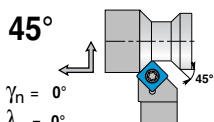
SSBCR/L 2525M12

25 25 150 24 22 - -

SCMT



45°



$\gamma_n = 0^\circ$
 $\lambda_s = 0^\circ$

09

SSDCR/L 1616H09

16 16 93,9 9,4 17 100 10,9

12

SSDCR/L 2020K09

20 20 118,9 12,9 22 125 15,9

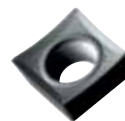
SSDCR/L 2020K12

20 20 116,7 15,7 22 125 13,7

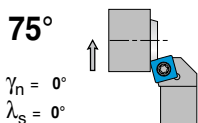
SSDCR/L 2525M12

25 25 141,7 15,7 27 150 18,7

SCGT



75°



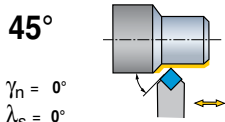
$\gamma_n = 0^\circ$
 $\lambda_s = 0^\circ$

09

SSKCR/L 1616H09

16 16 100 10,8 20 - -

45°



$\gamma_n = 0^\circ$
 $\lambda_s = 0^\circ$

09

SSDCN 1212F09-M

12 12 80 15,5 6 - -

SSDCN 1616H09

16 16 100 15,5 8 - -

κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Tuleja pł. podporowej
Shim pin



Klucz
Key



09*

5513 020-10 (M3,5)

-

-

-

5680 049-01 (15IP)

09

5513 020-01 (M3,5)

5322 420-01

5512 090-01

-

5680 049-01 (15IP)

12

5513 020-18 (M4x0,5)

5322 420-02

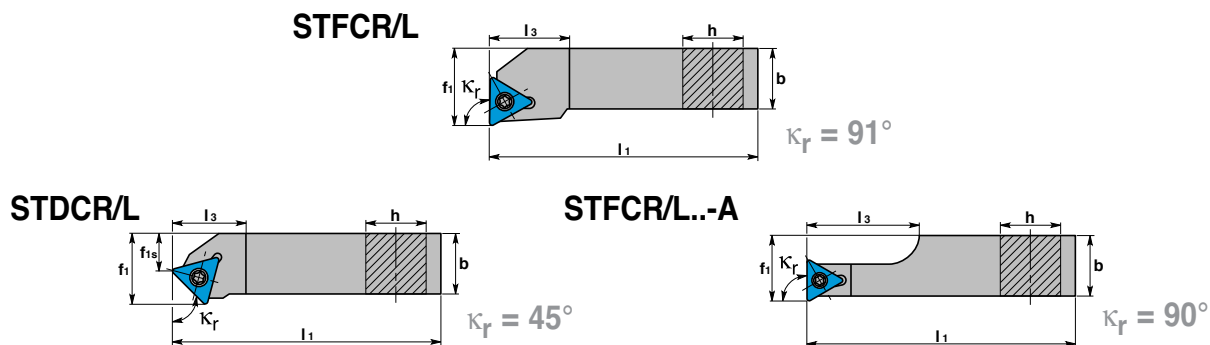
5512 090-03

-

5680 049-01 (3,5)

5680 049-02 (15IP)

5680 049-02 (4,0)



S

Zastosowanie Application	Oznaczenie Designation	h (mm)	b (mm)	l ₁ (mm)	l ₃ (mm)	f ₁ (mm)	f _{1s} (mm)
45° $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$	11 STDCR/L 1212F11	12	12	80	17,4	13	6
	16 STDCR/L 1616H11	16	16	100	17,4	17	10
91° $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$	11 STFCR/L 1212F11	12	12	80	16	16	-
	16 STFCR/L 1616H11	16	16	100	16	20	-
	16 STFCR/L 1616H16	16	16	100	22	20	-
	16 STFCR/L 2020K16	20	20	125	22	25	-
16 STFCR/L 2525M16	25	25	150	24	32	-	
90° $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$	11 STFCR/L 2020K11-A	20	20	125	37	20,8	-

TCMT



TCGT



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Klucz
Key



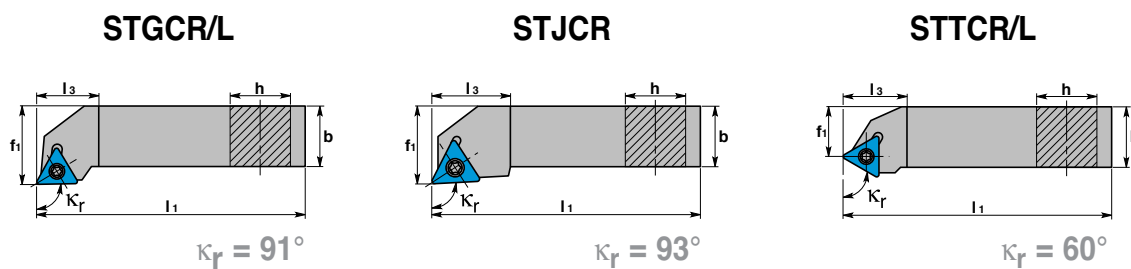
11
16

5513 020-03 (M2,5)
5513 020-01 (M3,5)

–
5322 320-01

–
5512 090-01

5680 051-02 (7P)
5680 049-01 (15IP)
5680 049-01 (3,5)



S

Zastosowanie Application		Oznaczenie Designation	h (mm)	b (mm)	l ₁ (mm)	l ₃ (mm)	f ₁ (mm)	
91° $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$	11	STGCR/L 1212F11	12	12	80	16,3	16	
		STGCR/L 1616H11	16	16	100	16,3	20	
		16	STGCR/L 1616H16	16	16	100	25	20
			STGCR/L 2020K16	20	20	125	26	25
		STGCR/L 2525M16	25	25	150	27	32	
93° $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$	11	STJCR 1010K11-S	10	10	125	16	10	
		STJCR 1212K11-S	12	12	125	16	12	
		STJCR 1616K11-S	16	16	125	16	16	
60° $\gamma_n = 0^\circ$ $\lambda_s = 0^\circ$	11	STTCR/L 1616H11	16	16	100	16,4	13	
		16	STTCR/L 1616H16	16	16	100	25	13
			STTCR/L 2020K16	20	20	125	25	17
			STTCR/L 2525M16	25	25	150	25	22

TCMT



TCGT



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Tuleja pł. podporowej
Shim pin

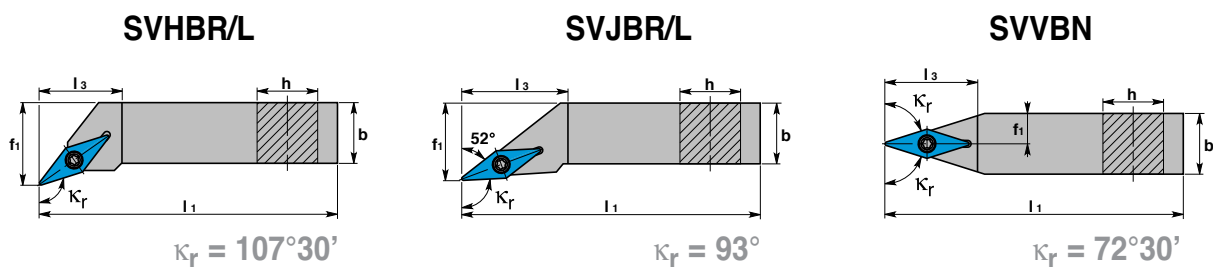


Klucz
Key



11	5513 020-03 (M2,5)	–	–	–	5680 051-02 (7IP)
16	5513 020-01 (M3,5)	5322 320-01	5512 090-01	–	5680 049-01 (15IP) 5680 049-01 (3,5)
16	dla/for STJCR 5513 020-49 (M4)	179.3-850M	–	174.3-860	5680 016-01 (T15/3,5)

Przykład zamówienia / Ordering example: STGCR 1212F11 – 1 szt. / pcs



Zastosowanie Application	Oznaczenie Designation	h (mm)	b (mm)	l1 (mm)	l3 (mm)	f1 (mm)
107°30' γ _n = 0° λ _s = 0°	16 SVHBR/L 2020K16	20	20	125	31,5	25
	SVHBR/L 2525M16	25	25	150	31,5	32
	SVHBR/L 3225P16	32	25	170	31,5	32
93° γ _n = 0° λ _s = 0°	11 SVJBR/L 1212F11	12	12	80	27	16
	SVJBR/L 1616H11	16	16	100	27	20
	SVJBR/L 2020K11	20	20	125	27	25
	SVJBR/L 2525M11	25	25	150	27	32
72°30' γ _n = 0° λ _s = 0°	16 SVJBR/L 2020K16	20	20	125	31,5	25
	SVJBR/L 2525M16	25	25	150	31,5	32
	SVJBR/L 3225P16	32	25	170	31,5	32
	11 SVVBN 1212F11	12	12	80	27	6,3
	SVVBN 1616H11	16	16	100	27	8,3
72°30' γ _n = 0° λ _s = 0°	16 SVVBN 2020K11	20	20	125	27	10,3
	SVVBN 2525M11	25	25	150	39,9	12,8
	SVVBN 2020K16	20	20	125	31,5	10,6
	SVVBN 2525M16	25	25	150	31,5	13,1
SVVBN 3225P16	32	25	170	31,5	13,1	

VBMT



VCGT



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Klucz
Key



11
16

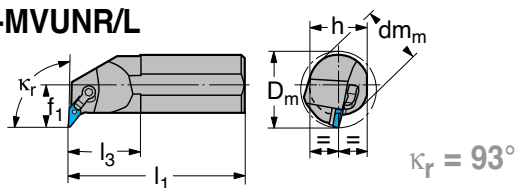
5513 020-03 (M2,5)
5513 020-01 (M3,5)

–
5322 270-01

–
5512 090-01

5680 051-02 (7IP)
5680 049-01 (15IP)
5680 049-01 (3,5)

S..-MVUNR/L



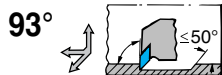
M

Zastosowanie
Application



Oznaczenie
Designation

dm_m h l₁ l₃ f₁ D_m_{min}
(mm) (mm) (mm) (mm) (mm) (mm)



$\gamma_n = -6^\circ$
 $\lambda_s = -10^\circ$

16

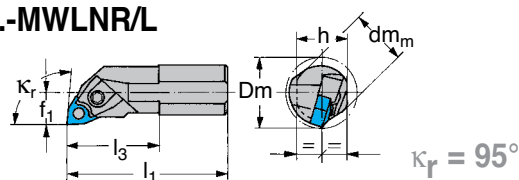
S40V-MVUNR/L 16

40 37 400 56 27 50

VNMG



A..-MWLNR/L



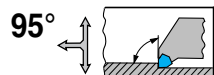
M

Zastosowanie
Application



Oznaczenie
Designation

dm_m h l₁ l₃ f₁ D_m_{min} λ_s
(mm) (mm) (mm) (mm) (mm) (mm) (°)



$\gamma_n = -6^\circ$
 $\lambda_s = \dots$

06

A20S-MWLNR/L 06

20 18 250 32,3 13 25 -14°

A25T-MWLNR/L 06

25 23 300 31,7 17 32 -12°

A32U-MWLNR/L 06

32 30 350 40,0 22 40 -14°

08

A25T-MWLNR/L 08

25 23 300 39,9 17 32 -14°

A32U-MWLNR/L 08

32 30 350 40,0 22 40 -14°

A40V-MWLNR/L 08

40 37 400 56,0 27 50 -12°

A50W-MWLNR/L 08

50 47 450 60,0 35 63 -10°

WNMA
WNMG



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Docisk
Clamp



Śruba
Screw



Pł. podporowa
Shim



Kołek
Pin



Klucz
Key



16

MC-12

MS-510

MVN-322

MN-34L

174.1-870 (1,98)
3021 011-532 (3,96)

06

dla/for A20S

5431 125-011

–

–

5313 022-02

170.3-860 (2,5)
170.3-864 (1,98)

dla/for A25T

5431 125-011

5512 030-03

5322 331-11

5313 022-01

170.3-860 (2,5)
170.3-864 (1,98)

dla/for A32U

5431 125-011

–

5322 331-06

5313 022-02

170.3-860 (2,5)

08

dla/for A25T

5431 125-021

–

5322 331-09

5313 022-03

174.1-864 (3,0)

dla/for A40V

5431 125-021

5512 030-04

5322 331-07

5313 022-03

174.1-864 (3,0)

dla/for A50W

5431 125-021

5512 030-04

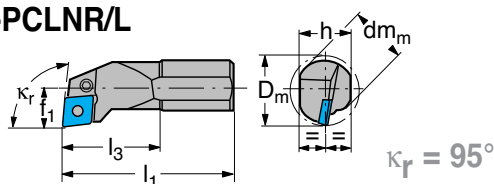
5322 331-07

5313 022-03

174.1-864 (3,0)
174.1-863 (2,5)

Przykład zamówienia / Ordering example: S40S-MWLNR 16 – 1 szt. / pcs

S..-PCLNR/L



P

Zastosowanie
Application

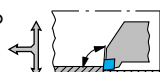


Oznaczenie
Designation

dm_m (mm) h (mm) l_1 (mm) l_3 (mm) f_1 (mm) D_{mmin} (mm) λ_s (°)

CNMA
CNMM
CNMG

95°

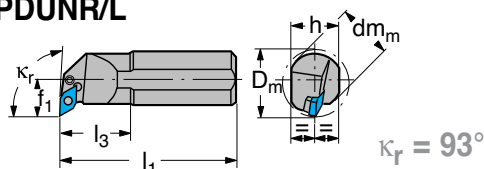


$\gamma_n = -6^\circ$
 $\lambda_s = \dots$

12	S25T-PCLNR/L 12 S32U-PCLNR/L 12 S40V-PCLNR/L 12	25 32 40	23 30 37	300 350 400	37 40 56	17 22 27	32 40 50	-13° -11° -10°
19	S50W-PCLNR/L 19	50	47	450	63	35	63	-11°



S..-PDUNR/L



P

Zastosowanie
Application

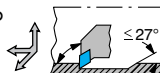


Oznaczenie
Designation

dm_m (mm) h (mm) l_1 (mm) l_3 (mm) f_1 (mm) D_{mmin} (mm) λ_s (°)

DNMG

93°



$\gamma_n = -6^\circ$
 $\lambda_s = \dots$

15	S40V-PDUNR/L 15 S50W-PDUNR/L 15	40 50	37 47	400 450	56 63	27 35	50 63	-11° -10°
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κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Dźwignia
Lever

Śruba
Screw

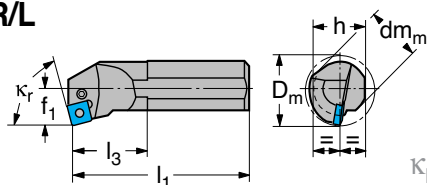
Pł. podporowa
Shim

Tuleja sprężysta
Shim pin

Klucz
Key

12	dla/for S25T	438.3-832M	174.3-832M	–	–	174.1-863 (2,5)
	dla/for S32U	174.3-848M	174.3-858	171.31-850M	174.3-861	174.1-864 (3,0)
	dla/for S40V	174.3-841M	174.3-821	171.31-850M	174.3-861	174.1-864 (3,0)
19		174.3-849M	174.3-822M	171.31-851M	174.3-868	3021 010-040 (4,0)
15		174.3-847M	174.3-830	171.35-850M		174.1-864 (3,0)

S...PSKNR/L



P

Zastosowanie
Application

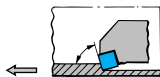


Oznaczenie
Designation

dm_m h l₁ l₃ f₁ D_mmin λ_s
(mm) (mm) (mm) (mm) (mm) (mm) (°)

SNMA
SNMM
SNMG

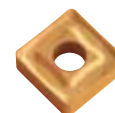
75°



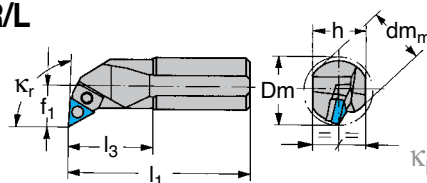
γ_n = -6°
λ_s = ...

12

S25T-PSKNR/L 12 25 23 300 36,8 17 32 -11°
S32U-PSKNR/L 12 32 30 350 37,8 22 40 -10°
S40V-PSKNR/L 12 40 37 400 49,8 27 50 -10°



S...PTFNR/L



P

Zastosowanie
Application

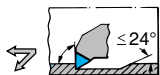


Oznaczenie
Designation

dm_m h l₁ l₃ f₁ D_mmin λ_s
(mm) (mm) (mm) (mm) (mm) (mm) (°)

TNMA
TNMM
TNMG

91°



γ_n = -6°
λ_s = ...

16

S25T-PTFNR/L 16-W 25 23 300 36,8 17 32 -13°
S32U-PTFNR/L 16-W 32 30 350 45 22 40 -12°
S40V-PTFNR/L 16-W 40 37 400 49,5 27 50 -11°
S50W-PTFNR/L 16-W 50 47 450 56 35 63 -10°



22

S40V-PTFNR/L 22W 40 37 400 58,9 27 50 -11°
S50W-PTFNR/L 22W 50 47 450 65,9 35 63 -10°

κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Dźwignia
Lever

Śruba
Screw

Pł. podporowa
Shim

Tuleja sprężysta
Shim pin

Kotek
Pin

Klucz
Key



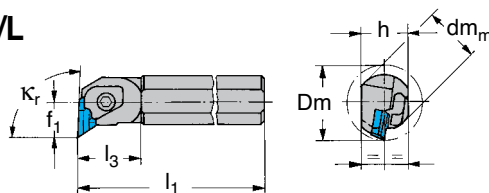
12	dla/for S25T	438.3-832M	174.3-832M	–	–	–174.3-863 (2,5)
	dla/for S32U	174.3-848M	174.3-858	174.3-851M	174.3-861	–174.1-864 (3,0)
	dla/for S40V	174.3-841M	174.3-821	174.3-851M	174.3-861	–174.1-864 (3,0)



16	dla/for S25T	170.38-823-2	5512 031-01	–	–	5313 021-01 174.1-864 (3,0) 5680 051-03 (9IP)
	dla/for S32U, S40V	170.38-823-1	5512 031-01	170.3-852	–	5313 021-02 174.1-864 (3,0) 5680 051-03 (9IP)
	dla/for S50W	170.38-823-1	3212 100-206	170.3-852	–	5313 021-02 174.1-864 (3,0) 174.1-870 (1,98)
22		170.38-824-1	5512 031-02	170.3-855	–	5313 021-03 3021 010-040 (4,0) 5680 049-02 (15IP)

Przykład zamówienia / Ordering example: S25T-PSKNR 12 – 1 szt. / pcs

S..-CKUNR/L



$\kappa_r = 93^\circ$

C

Zastosowanie
Application



Oznaczenie
Designation

dm_m h l_1 l_3 f_1 D_{mmin}
(mm) (mm) (mm) (mm) (mm) (mm)

93°



$\gamma_n = -6^\circ$
 $\lambda_s = -10^\circ$

16

S32U-CKUNR/L 16

32

30

350

54

22

44

S40V-CKUNR/L 16

40

37

400

54

27

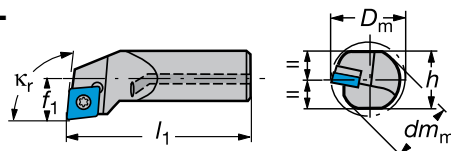
48

KNUX



Do noża w wersji prawej stosować płytkę lewą.
With a right-hand toolholder use a left-hand insert.

A..-SCLCR/L



$\kappa_r = 95^\circ$

S

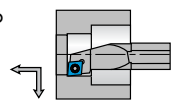
Zastosowanie
Application



Oznaczenie
Designation

dm_m l_1 h f_1 D_{mmin}
(mm) (mm) (mm) (mm) (mm)

95°



$\gamma_n = 0^\circ$
 $\lambda_s = -5^\circ$

06

A08H-SCLCR/L 06

08

100

7

5

10

A10K-SCLCR/L 06

10

125

9

6

12

A12M-SCLCR/L 06

12

150

11

9

16

A16R-SCLCR/L 06

16

200

15

11

20

09

A16R-SCLCR 09

16

200

15

11

20

A20S-SCLCR/L 09

20

250

18

13

25

A25T-SCLCR/L 09

25

300

23

17

32

12

A25T-SCLCR/L 12

25

300

23

17

32

A32T-SCLCR/L 12

32

300

30

22

40

A40T-SCLCR/L 12

40

300

37

23

50

CCMT



CCGT



Części zamienne
Spare parts



Docisk R
Clamp R

Docisk L
Clamp L

Śruba
Screw

Pł. podporowa
Shim

Sprężyna
Spring

Sprężyna i kołek
Spring and pin

Klucz
Key

16

170.5-825

170.5-824

170.5-865

170.5-851

170.5-848

170.5-841

3021 010-040 (4,0)



Śruba
Screw

Pł. podporowa
Shim

Śruba
Screw



Klucz
Key

06

09

09

12

12

dla/for 16-20

dla/for 25

dla/for 25

dla/for 32-40

5513 020-03

5513 020-09

5513 020-10

5513 020-17

5513 020-18

–

–

–

–

5322 232-02

–

–

–

–

5512 090-03

5680 051-02 (7IP)

5680 049-01 (15IP)

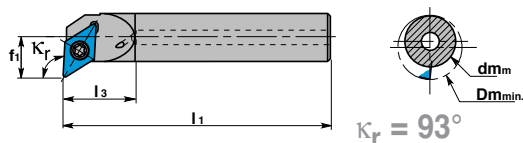
5680 049-01 (15IP)

5680 049-02 (15IP)

5680 049-02 (15IP)

Przykład zamówienia / Ordering example: S32U-CKUNR 16 – 1 szt. / pcs

A..-SDUCR/L



S

Zastosowanie
Application



Oznaczenie
Designation

dm_m l_1 l_3 h f_1 D_{min} λ_s γ_n
(mm) (mm) (mm) (mm) (mm) (mm) (°) (°)

DCMT

07

A10K-SDUCR/L 07

10 125 19,8 9 7 13 -9° 0°

A12M-SDUCR/L 07

12 150 22 11 9 16 -6,5° 0°

A16R-SDUCR/L 07

16 200 27 15 11 20 -4° 0°

11

A20S-SDUCR/L 11

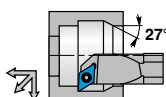
20 250 30,4 18 13 25 -5,5° 0°

A25T-SDUCR/L 11

25 300 46 23 17 32 -3° 0°

DCGT

93°



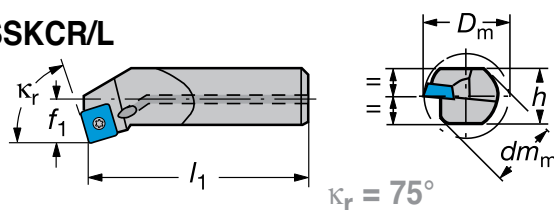
$\gamma_n = \dots$

$\lambda_s = \dots$



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

A..-SSKCR/L



S

Zastosowanie
Application



Oznaczenie
Designation

dm_m l_1 h f_1 D_{min} λ_s
(mm) (mm) (mm) (mm) (mm) (°)

SCMT

09

A16R-SSKCR/L 09

16 200 15 11 20 -8°

A20S-SSKCR/L 09

20 250 18 13 25 -6°

12

A25T-SSKCR/L 12

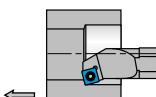
25 300 23 17 32 -4,5°

A32T-SSKCR/L 12

32 300 30 22 40 -9°

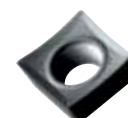
SCGT

75°



$\gamma_n = 0^\circ$

$\lambda_s = \dots$



κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Klucz
Key



07

11

dla/for 20
dla/for 25

5513 020-03

5513 020-09

5513 020-10

–

–

–

–

–

–

5680 051-02 (7IP)

5680 049-01 (15IP)

5680 049-01 (15IP)



09

12

dla/for 25
dla/for 32

5513 020-09

5513 020-17

5513 020-18

–

–

5522 420-02

–

–

5512 090-03

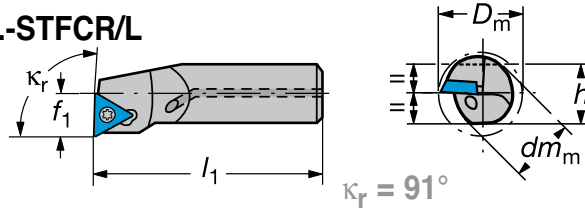
5680 049-01 (15IP)

5680 049-02 (15IP)

5680 049-02 (15IP)

Przykład zamówienia / Ordering example: A10K-SDUCR 07 – 1 szt. / pcs

A..-STFCR/L



S

Zastosowanie
Application



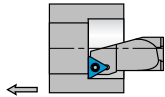
Oznaczenie
Designation

dm_m l₁ h f₁ D_mmin λ_s
(mm) (mm) (mm) (mm) (mm) (°)

TCMT



91°



γ_n = 0°
λ_s = ...

11

A12M-STFCR/L 11-B1
A16R-STFCR/L 11-B1
A20S-STFCR/L 11-B1

12 150 11 9 16 -8°
16 200 15 11 20 -5°
20 250 18 13 25 -3°

16

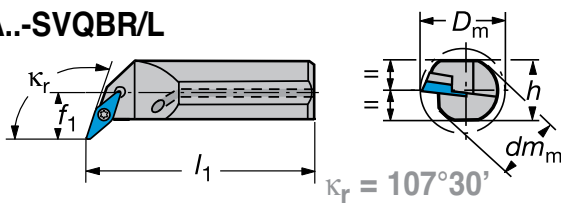
A25T-STFCR/L 16
A32T-STFCR/L 16
A40T-STFCR/L 16

25 300 23 17 32 -3°
32 300 30 22 32 -7°
40 300 37 27 32 -4,5°

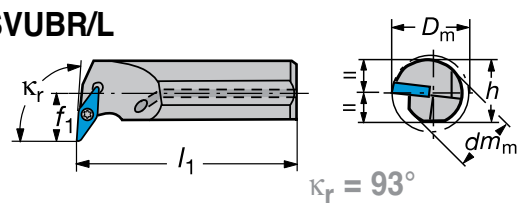
TCGT



A..-SVQBR/L



A..-SVUBR/L



S

Zastosowanie
Application



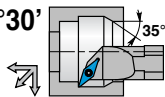
Oznaczenie
Designation

dm_m l₁ h f₁ D_mmin λ_s
(mm) (mm) (mm) (mm) (mm) (°)

VBMT



107°30'



γ_n = 0°
λ_s = ...

11

A16R-SVQBR/L 11-EB1
A20S-SVQBR/L 11-EB1
A25T-SVQBR/L 11-DB1

16 200 15 13 22 -7°
20 250 18 15 27 -6°
25 300 23 18 33 -4°

16

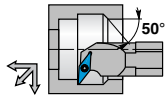
A25T-SVQBR/L 16-D
A32U-SVQBR/L 16
A40V-SVQBR/L 16

25 300 23 18 33 -6°
32 350 30 22 40 -8°
40 400 37 27 50 -8°

VCGT



93°



γ_n = 0°
λ_s = ...

11

A16R-SVUBR/L 11-EB1
A20S-SVUBR/L 11-EB1
A25T-SVUBR/L 11-DB1

16 200 15 13 22 -7°
20 250 18 15 27 -5°
25 300 23 18 33 -4°

16

A25T-SVUBR/L 16-D
A32T-SVUBR/L 16
A40T-SVUBR/L 16

25 300 23 18 33 -6,5°
32 300 30 22 40 -6°
40 300 37 27 50 -3,5°

κ_r – kąt przystawienia, γ_n – kąt natarcia, λ_s – kąt pochylenia / tool cutting edge angle / tool normal rake / tool cutting edge indication /

Części zamienne
Spare parts



Śruba
Screw



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Klucz
Key



11

16

dla/for 25
dla/for 32-40

5513 020-03
5513 020-10
5513 020-01

5322 320-01

5512 090-01

5680 051-02 (7IP)
5680 049-01 (15IP)
5680 049-01 (15IP)



11

16

dla/for 25
dla/for 32-40

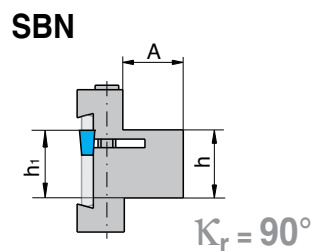
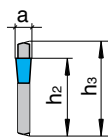
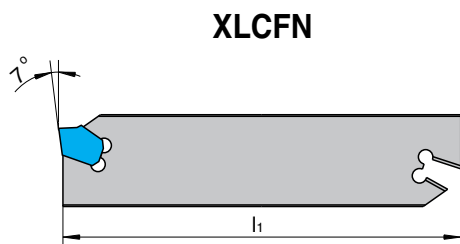
5513 020-03
5513 020-10
5513 020-01

5322 270-01

5512 090-01

5680 051-02 (7IP)
5680 049-01 (15IP)
5680 049-01 (15IP)

Przykład zamówienia / Ordering example: A12M-STFCR 11-B1 – 1 szt. / pcs



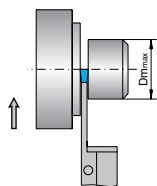
Zastosowanie
Application



Listwa
Blade

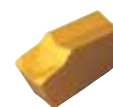
h₃ (mm) l₁ (mm) h₂ (mm) D_{mmax} (mm) a (mm)

90°



2	XLCFN 1902G22	19	90	15,7	30	2,2
	XLCFN 2602J22-FX	26	110	21,4	40	2,2
	XLCFN 3202M22-FX	32	150	25,0	40	2,2
3	XLCFN 2603J31-FX	26	110	21,4	75	3,1
	XLCFN 3203M31-FX	32	150	25,0	100	3,1
4	XLCFN 2604J41-FX	26	110	21,4	75	4,1
	XLCFN 3204M41-FX	32	150	25,0	100	4,1
5	XLCFN 3205M51-FX	32	150	25,0	100	5,1

LFMX



Imak blokowy
Tool block

h=h₁ (mm) A (mm)

2	SBN 1616-19	16	16
2, 3, 4	SBN 2019-26	20	19
2, 3, 4, 5	SBN 2019-32	20	19
2, 3, 4, 5	SBN 2520-32	25	20
2, 3, 4, 5	SBN 3228-32	32	28

K_r – kąt przystawienia / tool cutting edge angle

Części zamienne Spare parts



Płytki
Insert

Listwa
Blade

Imak blokowy
Tool block



Klucz płytki
Insert key



Śruba
Screw

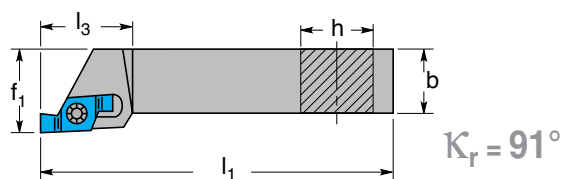


Klucz
Key

2	LFMX 2R	XLCFN 1902G22	SBN 1616-19	150.19-130	M520	KI 04
		XLCFN 2602J22-FX	SBN 2019-26	150.19-130	M630	KI 05
		XLCFN 3202M22-FX	SBN 2019-32	150.19-130	M630	KI 05
			SBN 2520-32	150.19-130	M630	KI 05
			SBN 3228-32	150.19-130	M630	KI 05
3	LFMX 3N	XLCFN 2603J31-FX	SBN 2019-26	150.19-130	M630	KI 05
		XLCFN 3203M31-FX	SBN 2019-32	150.19-130	M630	KI 05
			SBN 2520-32	150.19-130	M630	KI 05
			SBN 3228-32	150.19-130	M630	KI 05
4	LFMX 4N	XLCFN 2604J41-FX	SBN 2019-26	150.19-130	M630	KI 05
		XLCFN 3204M41-FX	SBN 2019-32	150.19-130	M630	KI 05
			SBN 2520-32	150.19-130	M630	KI 05
			SBN 3228-32	150.19-130	M630	KI 05
5	LFMX 5N	XLCFN 3205M51-FX	SBN 2019-32	150.19-130	M630	KI 05
			SBN 2520-32	150.19-130	M630	KI 05
			SBN 3228-32	150.19-130	M630	KI 05

Przykład zamówienia / Ordering example: XLCFN 2602J22-FX – 1 szt. / pcs
+ imak blokowy: / tool block: SBN 2019-26 – 1 szt. / pcs

P61.SFR/L



zewnątrzne / external

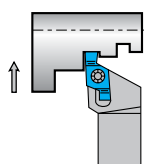
Zastosowanie
Application



Oznaczenie
Designation

b (mm) h (mm) l1 (mm) l3 (mm) f1 (mm)

91°



06

P61.SFR/L-1616H-06
P61.SFR/L-2020K-06
P61.SFR/L-2525M-06

16 16 100 21 20
20 20 125 25 25
25 25 150 32 32

09

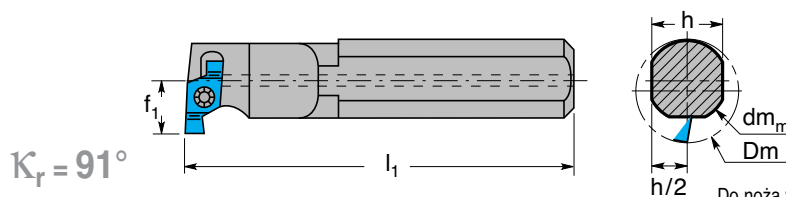
P61.SFR-2020K-09
P61.SFR/L-2525M-09

20 20 125 25 25
25 25 150 32 32

X61..R/L
X61..R..R/L



P61.SGR/L



wewnętrzne / internal

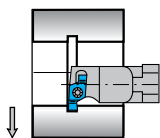
Zastosowanie
Application



Oznaczenie
Designation

dm (mm) h (mm) l1 (mm) f1 (mm) Dm (mm)

91°



06

P61.SGR/L-0012M-06
P61.SGR/L-A-0016M-06
P61.SGR/L-A-0020P-06
P61.SGR/L-A-0025R-06
P61.SGR/L-A-0032T-06

12 11 150 9 16
16 15 150 11 20
20 18 170 13 25
25 23 200 17 32
32 30 300 22 40

09

P61.SGR-A-0020P-09

20 18 170 13 25

X61..R/L
X61..R..R/L



Do noża w wersji prawej stosować płytkę lewą.
With a right-hand toolholder use a left-hand insert.

Kr – kąt przystawienia / tool cutting edge angle

Części zamienne
Spare parts



Śruba
Screw



Klucz
Key



Pł. podporowa
Shim



Śruba pł. podpor.
Shim screw



Klucz
Key



06

TORX-P-M2,5x6/7

MA2-8304

–

–

–

09

TORX-P-M3x10A/9

T9 MD703

PZ61-09 R/L

DVT0332

UNI 2415-2



06

TORX-P-M2,5x6/7

MA2-8304

–

–

–

09

TORX-P-M3x10A/9

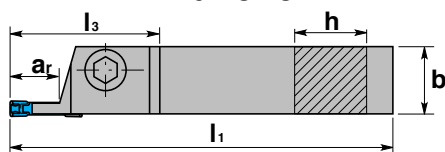
T9 MD703

PZ61-09 R/L

–

–

P92.CXCBR/L



$K_r = 90^\circ$

zewnętrzne / external

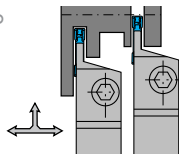
Zastosowanie
Application



Oznaczenie
Designation

h b l1 l3 ar
(mm) (mm) (mm) (mm) (mm)

90°



3

P92.CXCBR/L 2020M-30V

20 20 150 34 14

4

P92.CXCBR/L 2525M-30V

25 25 150 34 14

5

P92.CXCBR/L 2020M-40V

20 20 150 34 14

P92.CXCBR/L 2525M-40V

25 25 150 34 14

P92.CXCBR/L 2020M-50V

20 20 150 40 20

P92.CXCBR/L 2525N-50V

25 25 160 40 20

X92 ...-N

X92 ...-R

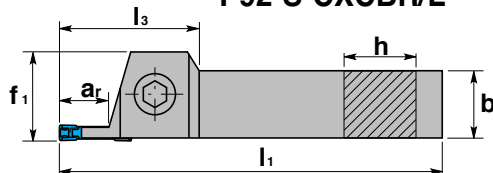
X92 ...-L

X92 ...-S

X92 ...-MS

X92 ...-VS

P92-S-CXCBR/L



$K_r = 90^\circ$

zewnętrzne / external

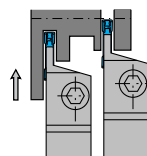
Zastosowanie
Application



Oznaczenie
Designation

h b f1 l1 l3 ar
(mm) (mm) (mm) (mm) (mm) (mm)

90°



2

P92.S-CXCBR 0808 K20V

08 08 12 125 21 11

P92.S-CXCBR/L 1010 K20V

10 10 12 125 21 11

P92.S-CXCBR/L 1212 K20V

12 12 - 125 21 11

P92.S-CXCBR/L 1612 K20V

16 12 - 125 21 11

P92.S-CXCBR/L 2020 K20V

20 20 - 125 21 11

P92.S-CXCBL 2525 M20V

25 25 - 150 21 11

X92 ...-20N

X92 ...-20R

X92 ...-20L

K_r – kąt przystawienia / tool cutting edge angle

Części zamienne
Spare parts



Nóż
Toolholder



Śruba
Screw



Klucz
Key

3, 4, 5

..2020M..

UNI 5931 M6x20

186-843

..2525M..

UNI 5931 M6x25

186-843

2

..0808..

UNI 5931 M4x8

MA2-688

..1010..

UNI 5931 M4x10

MA2-688

..1212..

UNI 5931 M4x10

MA2-688

..1612..

UNI 5931 M4x12

MA2-688

..2020..

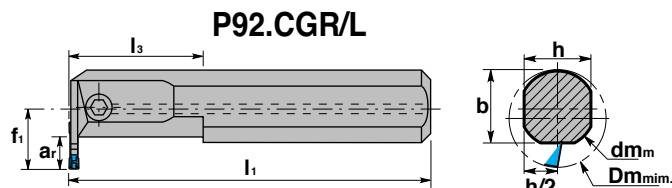
UNI 5931 M4x16

MA2-688

..2525..

UNI 5931 M4x16

MA2-688



$K_r = 90^\circ$

wewnętrzne / internal

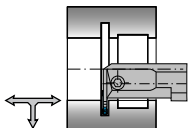
Zastosowanie
Application



Oznaczenie
Designation

dm_m h b f_1 l_1 l_3 $a_{r_{max}}$ $D_{m_{min}}$
(mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm)

90°



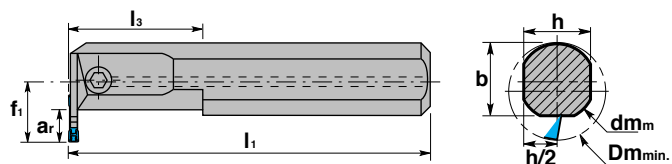
3
4
5

P92.CGR/L-A-0020R-30V
P92.CGR/L-A-0025R-30V
P92.CGR-A-0032S-30V
P92.CGR/L-A-0025R-40V
P92.CGR/L-A-0032S-40V
P92.CGR/L-A-0040T-40V
P92.CGR-A-0040T-50V

dm_m	h	b	f_1	l_1	l_3	$a_{r_{max}}$	$D_{m_{min}}$
20	18	18	13	200	30	7	25
25	23	22,5	17	225	40	10	32
32	30	29,5	22	250	45	12	40
25	23	22,5	17	225	40	10	32
32	30	29,5	22	250	45	12	40
40	37	37,5	30	300	80	16	52
40	37	37,5	30	300	80	16	52



P92.CGR/L..-30C



$K_r = 90^\circ$

wewnętrzne / internal

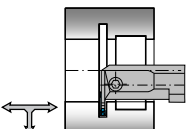
Zastosowanie
Application



Oznaczenie
Designation

dm_m h b f_1 l_1 l_3 $a_{r_{max}}$ $D_{m_{min}}$
(mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm)

90°



3

P92.CGR/L-0012M-30CV
P92.CGR/L-A-0016P-30CV

dm_m	h	b	f_1	l_1	l_3	$a_{r_{max}}$	$D_{m_{min}}$
12	11	11,5	9	150	22	3 5,5	15,5 18
16	15	15,5	11	170	26	4,5 7	20 22,5



K_r – kąt przystawienia / tool cutting edge angle

Części zamienne
Spare parts



Nóż
Toolholder



Śruba
Screw



Klucz
Key

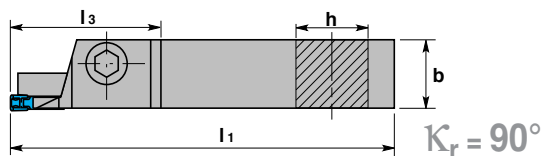
3
4
5
3

..0020R..
..0025R..
..0032S..
..0025R..
..0032S..
..0040T..
..0040T..
..0012M..
..0016M..

UNI 5931 M5x12
UNI 5931 M6x16
UNI 5931 M6x16
UNI 5931 M6x16
UNI 5931 M6x16
UNI 5931 M6x20
UNI 5931 M6x20
UNI 5931 M4x8
UNI 5931 M5x10

174.818
186-843
186-843
186-843
186-843
186-843
186-843
MA2-688
174.818

P92-2-CXCRC-.. + C92-RC-..



rowkowanie osiowe
axial grooving

Zastosowanie
Application



Oznaczenie
Designation

b l1 l3 h
(mm) (mm) (mm) (mm)

3

P92-2-CXCRC-2020M-30V
P92-2-CXCLC-2020M-30V
P92-2-CXCRC-2525N-30V
P92-2-CXCLC-2525N-30V

20 150 44 20
20 150 44 20
25 160 44 25
25 160 44 25



X92 200-30-V-N
X92 200-40-V-N

4

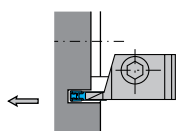
P92-2-CXCRC-2020M-40V
P92-2-CXCLC-2020M-40V
P92-2-CXCRC-2525N-40V
P92-2-CXCLC-2525N-40V

20 150 44 20
20 150 44 20
25 160 44 25
25 160 44 25

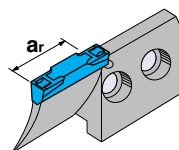
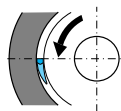


X92 200-30-V-S
X92 200-40-V-S

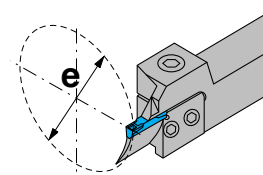
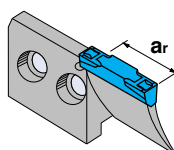
90°



C92-RC



C92-LC



Kompletne narzędzie składa się z oprawki i wkładki.
A complete tool consist of a toolholder and a cartridge.

Wkładki prawe R
Right-hand cartridge R

E_{min-max} a_{rmax}

C92-RC-3035-30	30 - 35	15
C92-RC-3542-30	35 - 42	15
C92-RC-4250-30	42 - 50	15
C92-RC-5058-30	50 - 58	15
C92-RC-5866-30	58 - 66	15
C92-RC-6675-30	66 - 75	15
C92-RC-75100-30	75 - 100	15
C92-RC-100200-30	100 - 200	15

Wkładki lewe L
Left-hand cartridge L

E_{min-max} a_{rmax}

C92-LC-3035-30	30 - 35	15
C92-LC-3542-30	35 - 42	15
C92-LC-4250-30	42 - 50	15
C92-LC-5866-30	58 - 66	15
C92-LC-75100-30	75 - 100	15
C92-LC-100200-30	100 - 200	15

C92-RC-4254-40	42 - 54	15
C92-RC-5466-40	54 - 66	15
C92-RC-6680-40	66 - 80	15
C92-RC-80100-40	80 - 100	15
C92-RC-100200-40	100 - 200	15

C92-LC-5466-40	54 - 66	15
C92-LC-6680-40	66 - 80	15
C92-LC-80100-40	80 - 100	15
C92-LC-100200-40	100 - 200	15

K_r – kąt przystawienia / tool cutting edge angle

Części zamienne
Spare parts



Nóż
Toolholder



Śruba
Screw



Klucz
Key



Śruba
Screw



Klucz
Key



3, 4

..2020M..
..2525M..

UNI 5931 M6x20
UNI 5931 M6x20

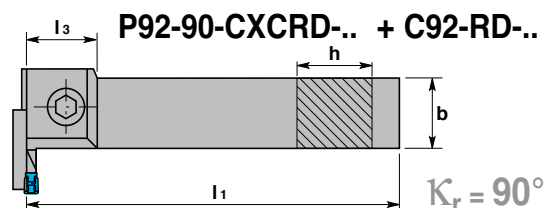
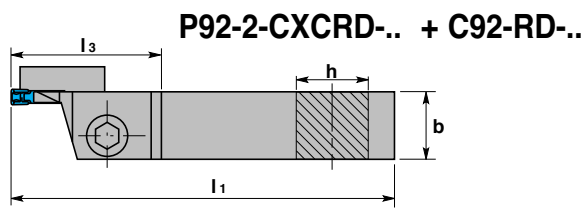
186-843
186-843

N°2 - UNI 5931 M4x12
N°2 - UNI 5931 M4x12

MA2-688
MA2-688

Przykład zamówienia / Ordering example: P92-2-CXCRC-2020M-30V – 1 szt. / pcs
+ wkładka: / cartridge: C92-RC-3035-30 – 1 szt. / pcs

rowkowanie osiowe
axial grooving



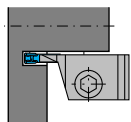
Zastosowanie
Application



Oznaczenie
Designation

b l1 l3 h
(mm) (mm) (mm) (mm)

90°



3

P92-2-CXCRD-2020M-30V

20 150 44 20

P92-2-CXCLD-2020M-30V

20 150 44 20

P92-2-CXCRD-2525N-30V

25 160 44 25

P92-2-CXCLD-2525N-30V

25 160 44 25

4

P92-2-CXCRD-2020M-40V

20 150 44 20

P92-2-CXCRD-2525N-40V

25 160 44 25

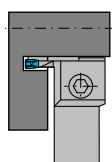
P92-2-CXCLD-2525N-40V

25 160 44 25



X92 200-30-V-N
X92 200-40-V-N

90°



3

P92-90-CXCRD-2525N-30V

25 160 44 25

P92-90-CXCLD-2525N-30V

25 160 44 25

4

P92-90-CXCRD-2525N-40V

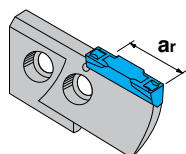
25 160 44 25

P92-90-CXCLD-2525N-40V

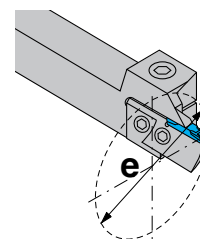
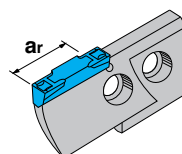
25 160 44 25

X92 200-30-V-S
X92 200-40-V-S

C92-RD



C92-LD



Kompletne narzędzie składa się z oprawki i wkładki.
A complete tool consist of a toolholder and a cartridge.

Wkładki prawe R
Right-hand cartridge R

$e_{min-max}$

a_{rmax}

Wkładki lewe L
Left-hand cartridge L

$e_{min-max}$

a_{rmax}

C92-RD-3035-30
C92-RD-3542-30
C92-RD-4250-30
C92-RD-5058-30
C92-RD-5866-30
C92-RD-6675-30
C92-RD-75100-30
C92-RD-100200-30

30 - 35
35 - 42
42 - 50
50 - 58
58 - 66
66 - 75
75 - 100
100 - 200

15
15
15
15
15
15
15
15

C92-LD-3035-30
C92-LD-3542-30
C92-LD-4250-30
C92-LD-5058-30
C92-LD-5866-30
C92-LD-6675-30
C92-LD-75100-30
C92-LD-100200-30

30 - 35
35 - 42
42 - 50
50 - 58
58 - 66
66 - 75
75 - 100
100 - 200

15
15
15
15
15
15
15
15

C92-RD-4254-40
C92-RD-5466-40
C92-RD-6680-40
C92-RD-80100-40
C92-RD-100200-40

42 - 54
54 - 66
66 - 80
80 - 100
100 - 200

15
15
15
15
15

C92-LD-4254-40
C92-LD-5466-40
C92-LD-6680-40
C92-LD-80100-40
C92-LD-100200-40

42 - 54
54 - 66
66 - 80
80 - 100
100 - 200

15
15
15
15
15

K_r – kąt przystawienia / tool cutting edge angle

Części zamienne
Spare parts



Nóż
Toolholder

Śruba
Screw

Klucz
Key

Śruba
Screw

Klucz
Key



3, 4

..2020M..
..2525M..

UNI 5931 M6x20
UNI 5931 M6x20

186-843
186-843

N°2 - UNI 5931 M4x12
N°2 - UNI 5931 M4x12

MA2-688
MA2-688

Przykład zamówienia / Ordering example: P92-2-CXCRD-2020M-30V – 1 szt. / pcs
+ wkładka: / cartridge: C92-RD-3035-30 – 1 szt. / pcs

