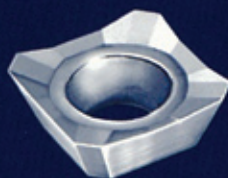


Combidex
Milling



COMBIDEX[®]



Ordering Code	Specifications	Page
Shoulder Milling Cutters (90°)	CAP 9011 for APKT 11T3 inserts CAP 9016 for APKT 1604 inserts	4 5
Multitooth Helical Endmills	CAP 9011R for APKT 11T3 inserts CAP 9016R for APKT 1604 inserts	6 7
Face Milling Cutters (45°)	CSE 4512B for SEHW / SEHT 1204 inserts	8
Milling Inserts	APKT 11T3, APKT 1604, SEHW 1204, SEHT 1204	9
Cutting Conditions		10

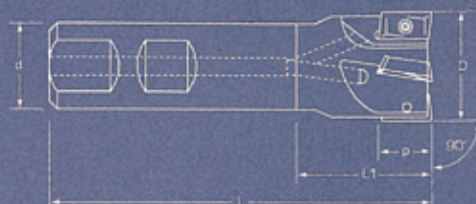
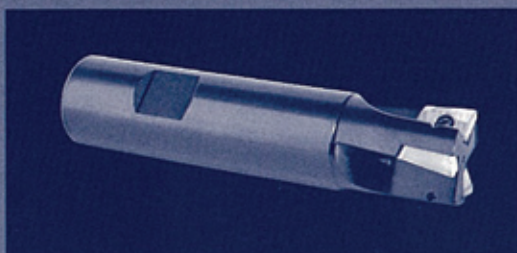


CAP 9011W

CAP 9011B

COMBIDEX®

Endmills - Shoulder Milling



CAP 9011W

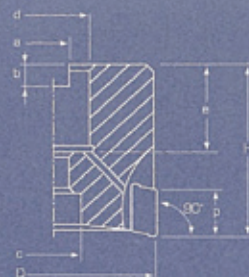
Axial rake + 3° / 10°
Radial rake - 10° / -14°

Spare parts



D (mm)	d	L	L1	p	n° of teeth	ART.	INSERT
10	16	80	24	11	1	CAP 9011W-D10	APKT 11T3
12	16	80	24	11	1	CAP 9011W-D12	
14	16	80	24	11	1	CAP 9011W-D14	
16	16	85	25	11	2	CAP 9011W-D16	
18	20	85	25	11	2	CAP 9011W-D18	
20	20	90	25	11	3	CAP 9011W-D20	
22	25	95	25	11	3	CAP 9011W-D22	
25	25	95	25	11	4	CAP 9011W-D25	
28	25	95	25	11	4	CAP 9011W-D28	
30	25	95	25	11	4	CAP 9011W-D30	
32	25	95	26	11	5	CAP 9011W-D32	

Endmills - Shoulder Milling Shell type



CAP 9011B

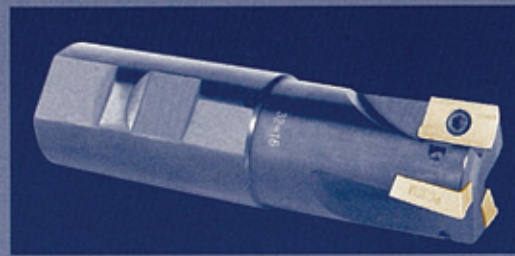
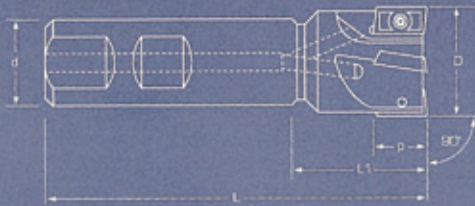
Axial rake + 8° / 11°
Radial rake - 10° / -11°

Spare parts



D (mm)	d	c	e	a	b	H	p	n° of teeth	ART.	INSERT
40	22	17	21	10,4	6,3	40	11	6	CAP 9011B-D40	APKT 11T3
50	22	17	21	10,4	6,3	40	11	7	CAP 9011B-D50	
63	22	17	21	10,4	6,3	40	11	8	CAP 9011B-D63	

Endmills - Shoulder Milling



CAP 9016W

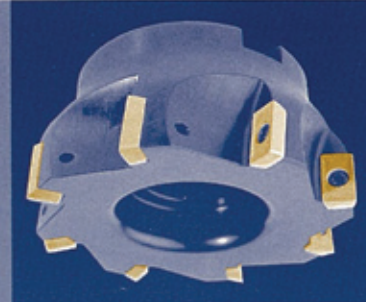
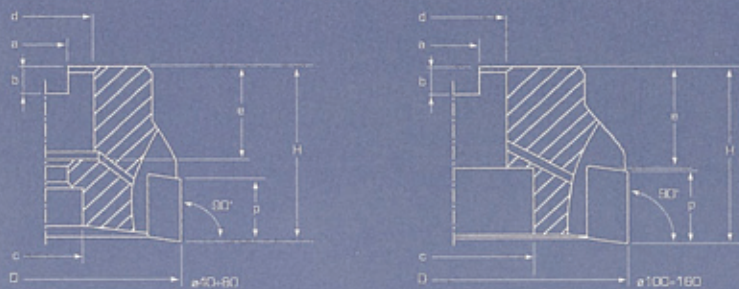
INSERT	ART.	D (mm)	d	L	L1	p	n° of teeth
APKT 1604	CAP 9016W-D25	25	25	100	44	16	2
	CAP 9016W-D32	32	32	110	50	16	3
	CAP 9016W-D40	40	32	115	45	16	4

Axial rake + 6°
Radial rake - 13° / -14°

Spare parts



Face Mills - Shoulder Milling



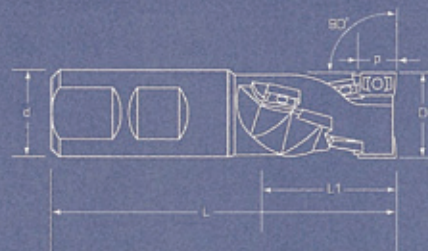
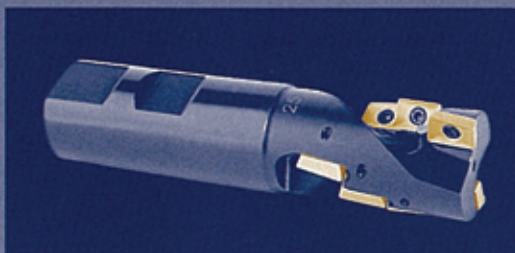
CAP 9016B

INSERT	ART.	D (mm)	d	c	e	a	b	H	p	n° of teeth
APKT 1604	CAP 9016B-D40	40	16	12	18	8,4	5,6	40	16	4
	CAP 9016B-D50	50	22	18	21	10,4	6,3	40	16	5
	CAP 9016B-D63	63	22	18	21	10,4	6,3	40	16	6
	CAP 9016B-D80	80	27	20	22	12,4	7	50	16	7
	CAP 9016B-D100	100	32	45	26	14,4	8	50	16	8
	CAP 9016B-D125	125	40	56	38	16,4	9	63	16	9
	CAP 9016B-D160	160	40	87	32	16,4	9	63	16	10

Axial rake + 6°
Radial rake - 8° / -11°

Spare parts





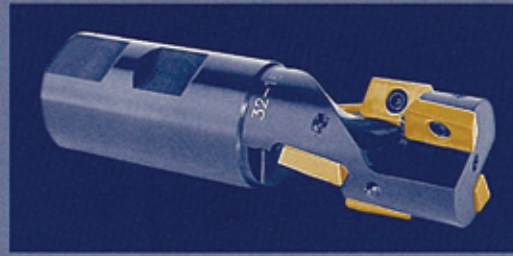
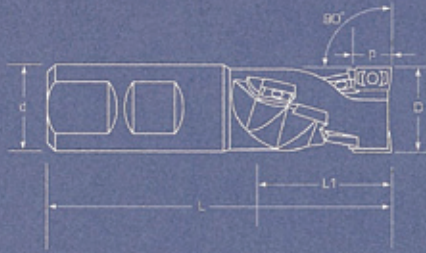
CAP 9011RW

D (mm)	d	L	L1	p	n° of teeth	n° of inserts	ART.	INSERT
20	20	86	28	11	1	4	CAP 9011RW-D20	APKT 11T3
25	25	100	36	11	2	8	CAP 9011RW-D25	
32	32	120	45	11	2	12	CAP 9011RW-D32	
40	32	130	54	11	2	14	CAP 9011RW-D40	

Spare parts



Multitooth Helical Endmills



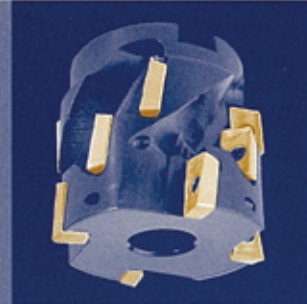
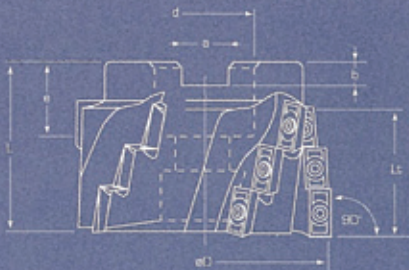
CAP 9016RW

INSERT	ART.	D (mm)	d	L	L1	p	n° of teeth	n° of inserts
APKT 1604	CAP 9016RW-D25	25	25	105	29	16	1	2
	CAP 9016RW-D32	32	32	115	44	16	2	6
	CAP 9016RW-D40	40	32	130	58	16	2	8

Spare parts



Multitooth Helical Endmills Shell type

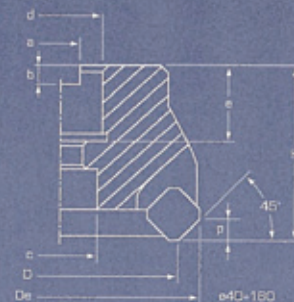
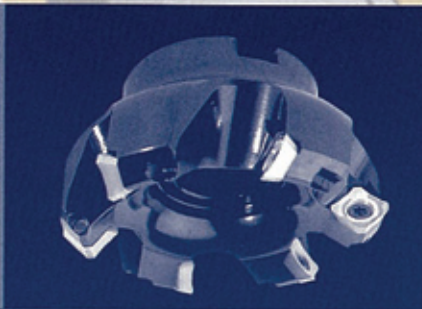


CAP 9016RB

INSERT	ART.	D (mm)	d	L	L1	e	a	b	n° of teeth	n° of inserts
APKT 1604	CAP 9016RB-D50	50	27	50	30	28	12,4	7	3	6
	CAP 9016RB-D63	63	27	60	44	28	12,4	7	4	12
	CAP 9016RB-D80	80	32	60	44	28	14,4	8	5	15
	CAP 9016RB-D100	100	40	60	44	30	16,4	9	6	18

Spare parts





CSE 4512B

Axial rake + 20°
Radial rake - 8° / - 6°

Spare parts



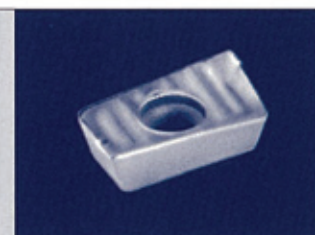
D (mm)	De	d	c	e	a	b	H	p	n° of teeth	ART.	INSERT
40	53	16	14	18	8,4	5,6	40	6	3	CSE 4512B-D40	SEHW SEHT 1204
50	63	22	17	21	10,4	6,3	48	6	4	CSE 4512B-D50	
63	76	22	19	21	10,4	6,3	48	6	5	CSE 4512B-D63	
80	93	27	38	24	12,4	7	50	6	6	CSE 4512B-D80	
100	113	32	45	26	14,4	8	50	6	6	CSE 4512B-D100	
125	138	40	56	32	16,4	9	63	6	7	CSE 4512B-D125	
160	173	40	-	-	-	9	63	6	8	CSE 4512B-D160	



d 6,6 l 12 s 3,6 d₁ 2,85 r 0,5



APKT 11T3



APKT 11T3 PDR-WV
PA30M

	Grades					
	K10M	PC30M	PC40M	PA30M	PA40M	
APKT 11T3 PDR-WF		•	•		•	
APKT 11T3 PDR-WV		•		•		
APKT 11T3 PDR-P	•					

d 9,5 l 17,1 s 5,3 d₁ 4,4 r 0,8



APKT 1604



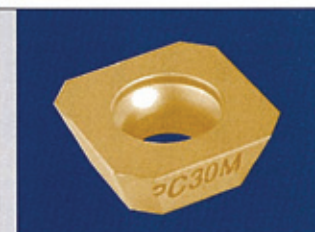
APKT 1604 PDR-WV
PC30M

	Grades					
	K10M	PC30M	PC40M	PA30M	PA40M	
APKT 1604 PDSR		•				
APKT 1604 PDR-WF		•	•		•	
APKT 1604 PDR-WV		•		•		
APKT 1604 PDR-P	•					
APKT 1604 PDR-WP	•					

I.C. 12,7 s 4,76 d₁ 5,5 b 2,1



SEHW 1204



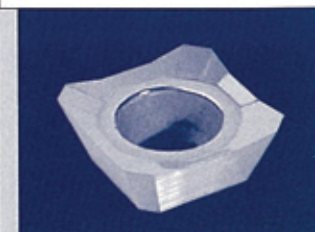
SEHW 1204 AFTN
PC30M

	Grades					
	K10M	PC30M	PC40M	PA30M	PA40M	
SEHW 1204 AFSN	•					
SEHW 1204 AFTN		•				

I.C. 12,7 s 4,76 d₁ 5,5 b 2,1



SEHT 1204



SEHT 1204 AFFN-P
K10M

	Grades					
	K10M	PC30M	PC40M	PA30M	PA40M	
SEHT 1204 AFEN					•	
SEHT 1204 AFFN					•	
SEHT 1204 AFFN-P	•					

• = standard stock

Material	HBr.	APKT 11T3 / APKT 1604		APKT 11T3 / APKT 1604		APKT 11T3 / APKT 1604		SEHT 1204 / SEHW 1204			
		P - type K10M	fz 0,1~0,2	WV - type PC30M / PA30M	fz 0,1~0,2	WF - type PC40M / PA40M	fz 0,1~0,2	K10M	PC30M	fz 0,1~0,2	PA40M
Carbon Steels	150		200 ~ 350	160 ~ 280		200 ~ 350	160 ~ 280				
	190		140 ~ 250	110 ~ 200		140 ~ 250	110 ~ 200				
	250		100 ~ 200	80 ~ 160		100 ~ 200	80 ~ 160				
	Alloyed- and Tool Steels	~200		180 ~ 300	140 ~ 240		180 ~ 300	140 ~ 240			
		200-250		150 ~ 250	120 ~ 200		150 ~ 250	120 ~ 200			
250-325		140 ~ 200	120 ~ 160		140 ~ 200	120 ~ 160					
325-375		120 ~ 180	110 ~ 150		120 ~ 180	110 ~ 150					
375-425		100 ~ 150	80 ~ 120		100 ~ 150	80 ~ 120					
425-475		80 ~ 120	60 ~ 90		80 ~ 120	60 ~ 90					
Stainless Steels	Ferritic	135-175	230 ~ 300	180 ~ 240		230 ~ 300	180 ~ 240				
		175-225	180 ~ 240	140 ~ 190		180 ~ 240	140 ~ 190				
		130-175	150 ~ 200	120 ~ 160		150 ~ 200	120 ~ 160				
	Austenitic	275-325	130 ~ 180	100 ~ 140		130 ~ 180	100 ~ 140				
		325-425	60 ~ 90	50 ~ 80		60 ~ 90	50 ~ 80				
Cast Iron	Carbon	~150	180 ~ 350	140 ~ 280		180 ~ 350	140 ~ 280				
		150-200	150 ~ 320	120 ~ 250		150 ~ 320	120 ~ 250				
		200-250	120 ~ 260	100 ~ 200		120 ~ 260	100 ~ 200				
	Alloyed	250-300	100 ~ 200	80 ~ 160		100 ~ 200	80 ~ 160				
		Cast Steel	Carbon	-150	180 ~ 240	140 ~ 190		180 ~ 240	140 ~ 190		
				150-200	150 ~ 200	120 ~ 160		150 ~ 200	120 ~ 160		
	Alloyed	200-250	120 ~ 180	100 ~ 140		120 ~ 180	100 ~ 140				
		250-300	100 ~ 160	80 ~ 130		100 ~ 160	80 ~ 130				
Aluminium		200 ~ 1000				200 ~ 1000					





Combidex®
NL-3115 HE