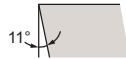




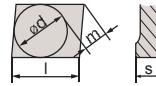
A P K T



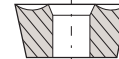
Shape



Clearance Angle



Tolerance
 $d \pm 0.05$
 $m \pm 0.013$
 $s \pm 0.025$



**Fixing
Chip breaker**

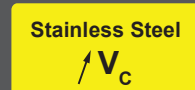
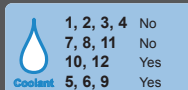
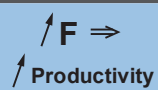
	Insert Designation	Grade	l	s	r	Direction	Catalog Nr.
From Q1-2013	APKT 1604 PDTR	LT 30	15.3	4.76	0.8	Right	M0000022
	APKT 1604 PDTR*	LT 30	15.3	4.76	0.95	Right	M0000021
	APKT 160424 ER	LT 30	15.3	4.76	2.4	Right	M0000300
	APKT 1705 PETR	LT 30	15.8	5.12	0.8	Right	M0001810

* This item is available until mid 2013 including its cutter bodies (LT 730 serie) and will be phased out after.

Surfacing Insert Lead angle 90°

Multi purpose 90° Milling insert. Suitable for Roughing to Finishing-Slotting, Shoulder and Face Milling operations.

Application Guide



Machine Recommendations
Guide. Details on page 10

APKT 1604 PDTR LT 30

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/tooth]		V _c [m/min]		Optimal cutting conditions		
					min	max	min	max	min	max	D.O.C.	Feed	V _c
Steel	Non-alloyed	1	1 C35, Ck45, 1020,	125 HB	0.5	15.0	0.18	0.32	190	330	4.0	0.23	250
		2	1045, 1060,	190 HB		15.0		0.32		300			220
		3	28Mn6	250 HB		15.0		0.32		250			200
	Low alloyed	2	6 42CrMo4, St50,	180 HB	0.5	15.0	0.15	0.25	150	240	4.0	0.20	200
		4,6	Ck60, 4140, 4340,	230 HB		15.0		0.25		210			180
		5,7	100Cr6	280 HB		15.0		0.22		130			150
		8		350 HB		15.0		0.22		130			140
	High alloyed	3	10 X40CrMoV5,	220 HB	0.5	10.7	0.12	0.22	90	150	3.0	0.18	130
		10	H13, M42, D3,	280 HB		10.7		0.22		130			120
		11	S6-5-2, 12Ni19	320 HB		10.7		0.18		60			100
		11		350 HB		10.7		0.18		60			80
Stainless Steel	Austenitic	4	14 304, 316,	180 HB	0.5	15.0	0.15	0.25	190	250	4.0	0.20	220
		14	X5CrNi18-9	240 HB		15.0		0.22		160			190
	Duplex	5	14 X2CrNiN23-4,	290 HB	0.5	10.7	0.12	0.18	70	130	3.0	0.16	100
		14	S31500	310 HB		10.7		0.18		120			90
	Ferritic & Martensitic	6	12 410, X6Cr17,	200 HB	0.5	15.0	0.15	0.25	150	210	4.0	0.20	190
		13	17-4 PH, 430	42 HRc		10.7		0.20		90			130
Cast Iron	Grey	7	15 GG20, GG40,	150 HB	0.5	15.0	0.18	0.32	150	240	4.0	0.23	200
		15	EN-GJL-250,	200 HB		15.0		0.32		220			180
		16	No30B	250 HB		15.0		0.32		190			160
	Malleable & Nodular	8	17,19 GGG40, GGG70,	150 HB	0.5	15.0	0.15	0.28	100	200	4.0	0.20	180
		17,19	50005	200 HB		15.0		0.28		180			150
		18,20		250 HB		15.0		0.28		150			130
	Fe, Ni & Co based	9	31,32 Incoloy 800	240 HB	0.5	10.7	0.12	0.18	25	45	3.0	0.16	32
		33	Inconel 700	250 HB		10.7		0.18		45			30
		34	Stellite 21	350 HB		10.7		0.18		45			30
High Temp. Alloys	Ti based	10	36 TiAl6V4	-	0.5	10.7	0.12	0.20	40	65	3.0	0.18	55
		37	T40	-		10.7		0.18		30			40
Hardened Mat.	Steel	11	38 X100CrMo13,	45 HRc	0.5	5.4	0.10	0.18	40	80	2.0	0.14	60
		38	440C,	50 HRc		3.2		0.16		70			55
		38	G-X260NiCr42	55 HRc		1.6		0.14		60			50
	Chilled Cast Iron	40	Ni-Hard 2	400 HB	0.5	4.3	0.10	0.18	40	80	1.5	0.14	50
NF	White Cast Iron	41	G-X300CrMo15	55 HRc	0.5	1.6	0.10	0.14	30	60	1.0	0.12	40
	Al (>8%Si)	12	25 AISI12	130 HB	0.5	15.0	0.18	0.32	200	400	4.0	0.25	280