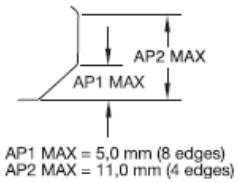
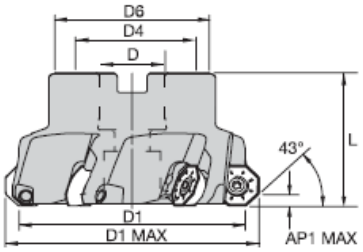
NEW!

- Available in diameters of 63 mm to 160 mm.
- Three geometries and six grades for use in most workpiece materials.
- Eight cutting edges.





Shell Mills — Medium Pitch

D1	order number	catalog number	Z	D	D1 max	D4	D6	L	Ap1 max	Max Ramp Angle	kg	Max RPM
63	3115873	KSOM63R04OF07	4	22	74	–	50	43	5,0	5.5°	0,6	10100
80	3115875	KSOM80R04OF07	4	27	91	–	60	50	5,0	4.0°	1,1	7900
100	3115877	KSOM100R05OF07	5	32	111	–	80	50	5,0	3.0°	1,7	6300
125	3115879	KSOM125R06OF07	6	40	136	–	90	63	5,0	2.3°	2,6	5000
160	3115881	KSOM160R07OF07	7	40	171	67	110	63	5,0	1.7°	4,2	3900

Spare Parts

D1	insert screw	Nm	wrench	mounting screw	coolant screw	coolant cap
63	193.409	6	TTP20	125.025	MS1234CG	–
80	193.409	6	TTP20	125.230	MS2038CG	–
100	193.409	6	TTP20	–	MS2189CG	–
125	193.409	6	TTP20	–	420.200	470.232
160	193.409	6	TTP20	–	420.200	470.233

Shell Mills — Fine Pitch

D1	order number	catalog number	Z	D	D1 max	D4	D6	L	Ap1 max	Max Ramp Angle	kg	Max RPM
63	3115582	KSOM63R05OF07	5	22	74	–	50	43	5,0	5.5°	0,6	10100
80	3115874	KSOM80R06OF07	6	27	91	–	60	50	5,0	4.0°	1,1	7900
100	3115876	KSOM100R08OF07	8	32	111	–	80	50	5,0	3.0°	1,6	6300
125	3115878	KSOM125R10OF07	10	40	136	–	90	63	5,0	2.3°	2,7	5000
160	3115880	KSOM160R12OF07	12	40	171	67	110	63	5,0	1.7°	4,3	3900

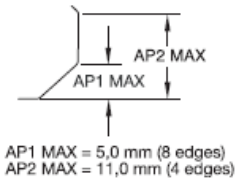
Spare Parts

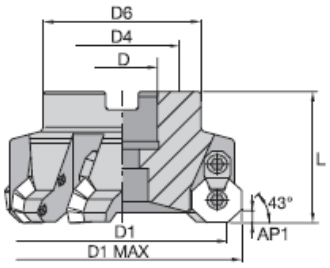
D1	insert screw	(Nm)	wrench	mounting screw	coolant screw	coolant cap
63	193.409	6	TTP20	125.025	MS1234CG	–
80	193.409	6	TTP20	125.230	MS2038CG	–
100	193.409	6	TTP20	–	MS2189CG	–
125	193.409	6	TTP20	–	420.200	470.232
160	193.409	6	TTP20	–	420.200	470.233

Indexable Shell Mills

NEW!

- 5 mm depth-of-cut capability.
- Cutting diameter ranges from 63 mm to 160 mm.
- Enables unsurpassed feed rates.
- Eight cutting edges for economy and reduced tooling inventory.
- Through-coolant standard.





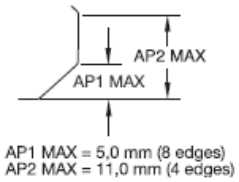
Shell Mills — Screw Clamping — Coarse Pitch

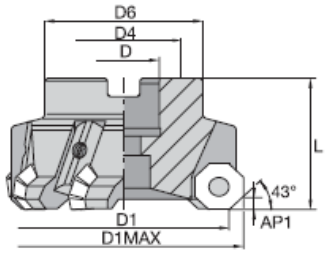
D1	order number	catalog number	Z	D	D1 max	D4	D6	L	Ap1 max	Ap2 max	kgs	Max RPM
63	2250670	63A05RS45OF07A	5	22	74	–	54	43	5,0	11,0	0,6	10100
80	2228047	80A06RS45OF07A	6	27	91	–	64	50	5,0	11,0	1,1	7900
100	2213791	100B08RS45OF07A	8	32	111	–	84	50	5,0	11,0	1,7	6300
125	2252793	125B10RS45OF07A	10	40	136	–	94	63	5,0	11,0	2,9	5000
160	2241172	160C12RS45OF07A	12	40	171	102	114	63	5,0	11,0	4,5	3900

Spare Parts

D1	insert screw	torque (Nm)	clamp	clamp screw	torque (Nm)	wrench	mounting screw	coolant clamping screw	coolant cap
63	193.409	6	470.257	193.409	6	TTP20	125.025	420.100	–
80	193.409	6	470.257	193.409	6	TTP20	125.230	420.120	–
100	193.409	6	470.257	193.409	6	TTP20	–	420.160	–
125	193.409	6	470.257	193.409	6	TTP20	–	420.200	470.232
160	193.409	6	470.257	193.409	6	TTP20	–	420.200	470.233

NEW!





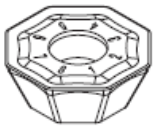
Shell Mills — Wedge Clamping — Fine Pitch

D1	order number	catalog number	Z	D	D1 max	D4	D6	L	Ap1 max	Ap2 max	kgs	Max RPM
63	2252910	63A07RF45OF07A	7	22	74,2	–	54	43	5,00	11,00	0,7	7580
80	2255272	80A09RF45OF07A	9	27	90,9	–	64	50	5,00	11,00	1,1	5970
100	2255333	100B11RF45OF07A	11	32	111,0	–	84	50	5,00	11,00	1,7	4770
125	2255334	125B13RF45OF07A	13	40	135,9	–	94	63	5,00	11,00	2,9	3820
160	2255335	160C17RF45OF07A	17	40	170,8	66,7	114	63	5,00	11,00	4,5	2980

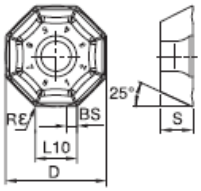
Spare Parts

D1	wedge	wedge screw	torque (Nm)	wrench	mounting screw	coolant clamping screw	coolant cap
63	470.259	STCM1115IP	5	TTP15	125.025	420.100	–
80	470.259	STCM1115IP	5	TTP15	125.230	420.120	–
100	470.259	STCM1115IP	5	TTP15	–	420.160	–
125	470.259	STCM1115IP	5	TTP15	–	420.200	470.232
160	470.259	STCM1115IP	5	TTP15	–	420.200	470.233

Indexable Inserts for KSOM OF.T07L6...



OFKT



● first choice
○ alternate choice

H													
S										●	●		
N		●								○			
K				●						○		●	○
M										●	●		○
P										○	●		●

catalog number	cutting edges	D	S	L10	BS	Rε	hm	KC410M	KC520M	KC522M	KC725M	KC915M	KC935M
OFKT07L6AFENGB	8	18,70	6,00	7,50	–	1,20	0,10		●	●	●	●	●
OFKT07L6AFENLB	8	18,70	6,00	7,50	2,10	1,20	0,05		●	●	●	●	●
OFKT07L6AFFNLNJ	8	18,70	6,00	7,50	–	1,20	0,05	●					
OFKT07L6AFSNHB	8	18,70	6,00	7,50	–	1,20	0,20		●	●	●	●	●
OFKT07L6AFSNLB	8	18,70	6,00	7,50	2,10	1,20	0,20		●	●	●	●	●
OFPT07L6AFENGB	8	18,70	6,00	7,50	–	1,20	0,10		●	●	●	●	●
OFPT07L6AFSNHB	8	18,70	6,00	7,50	–	1,20	0,20		●	●	●	●	●

Recommended Starting Speeds [m/min]

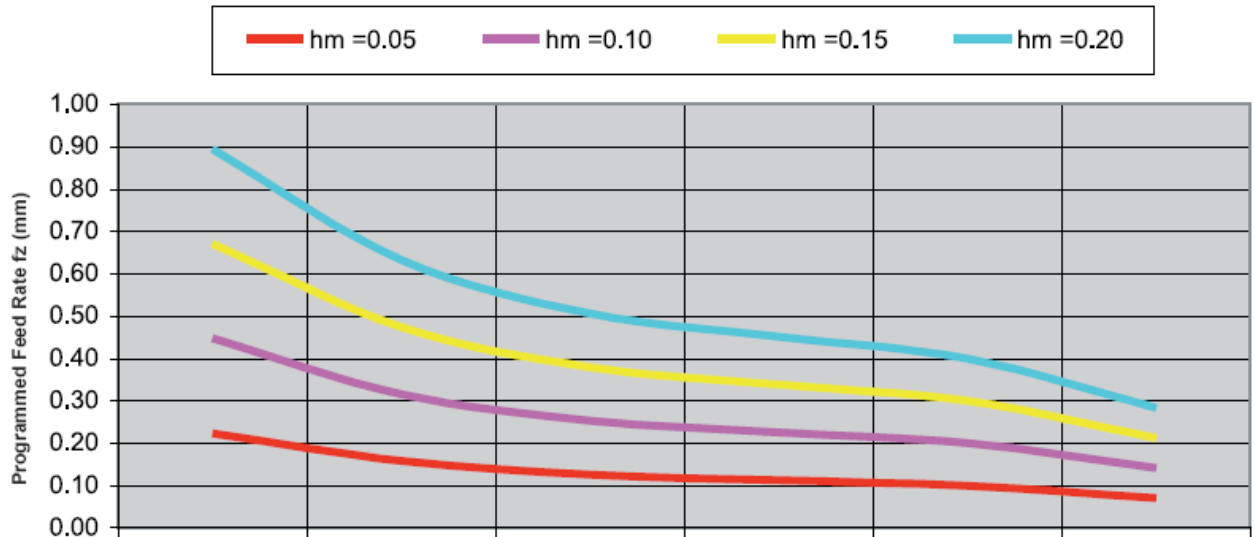
43º approach angle

Material Group	KC410M			KC520M			KC522M			KC725M						KC935M		
P1										310	**270**	250				470	**410**	380
P2										190	**180**	160				290	**260**	240
P3										180	**160**	140				260	**240**	220
P4							120	**110**	100	130	**120**	110				200	**180**	160
P5							155	**150**	135	180	**160**	150				265	**240**	215
P6							100	**80**	70	110	**90**					160	**140**	
M1							180	**160**	150	200	**180**	160				310	**270**	250
M2							170	**150**	140	180	**170**	150				280	**250**	230
M3							120	**110**	90	140	**120**					210	**180**	
K1				320	**290**	260				200	**180**	160	440	**400**	350	310	**280**	250
K2				250	**220**	210	240	**220**	200	160	**140**	130	350	**310**	290	240	**220**	200
K3				210	**190**	170	200	**180**	170	130	**120**	110	290	**260**	240	200	**180**	170
N1	1450	**1290**	1190															
N2																		
S1							40	**30**		40	**40**							
S2							30	**30**		40	**40**							
S3							40	**40**		50	**50**							
S4							50	**50**		60	**50**							
H1																		

FIRST choice starting speeds are in bold type.
As the average chip thickness value goes higher the speed should be decreased.

Recommended Starting Feeds

43° Approach Angle Feed-Per-Tooth Compensation
(Radial Width-of-Cut Dependent)



	10%	20%	30%	40%	50%	100%
hm =0.05	0.22	0.16	0.13	0.11	0.10	0.07
hm =0.10	0.45	0.32	0.25	0.23	0.20	0.14
hm =0.15	0.67	0.47	0.38	0.34	0.30	0.21
hm =0.20	0.89	0.63	0.51	0.45	0.40	0.28

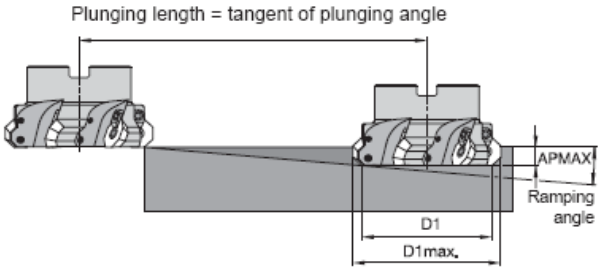
Percentage of the Cutter Diameter in Cut

KSOM Application

KENNAMETAL

OF.T07L6

Ramping



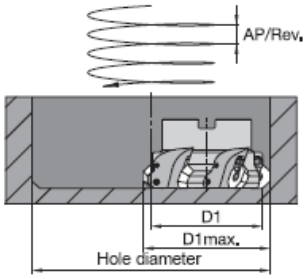
Metric version

D1 mm	D1 max. mm	max ap mm	Ramping Angle (°)	Ramping Length mm
63	74,2	11,7	5,5	121,5
80	91,1	11,7	4,0	167,3
100	111,0	11,7	3,0	223,2
125	135,9	11,7	2,3	291,3
160	170,8	11,7	1,7	394,2

Inch version

D1 inch	D1 max. inch	max ap inch	Ramping Angle (°)	Ramping Length inch
2.50	2.94	.46	5.5	4.78
3.00	3.44	.46	4.2	6.27
4.00	4.43	.46	2.9	9.09
5.00	5.43	.46	2.2	11.99
6.00	6.43	.46	1.8	14.65

Helical Interpolation



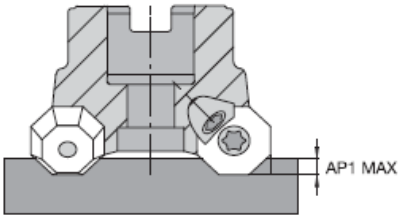
Metric version

D1 mm	D1 max. mm	Hole Diameter min. mm	Hole Diameter max. mm	AP/Rev. mm
63	74,2	122,7	145,0	6,3
80	91,1	156,6	178,0	6,3
100	111,0	196,5	218,7	6,3
125	135,9	246,4	268,7	6,3
160	170,8	316,3	338,6	6,3

Inch version

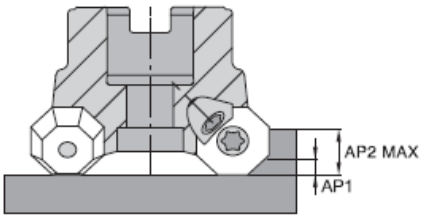
D1 inch	D1 max. inch	Hole Diameter min. inch	Hole Diameter max. inch	AP/Rev. inch
2.50	2.94	4.872	5.748	.248
3.00	3.44	5.868	6.744	.248
4.00	4.43	7.863	8.739	.248
5.00	5.43	9.859	10.736	.248
6.00	6.43	11.857	12.733	.248

Plunging



Max. Plunging Depth	mm
AP1 MAX	4,2

Face Milling



Max. DOC AP	mm	Chipload (fz)
AP1 MAX	5,0	1 x fz
AP2 MAX	11,7	0,6 x fz