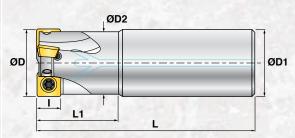
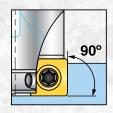


Square Shoulder Milling	Cutters Program Contents	- Inch Section	
SSS-S09-1000	Straight Shank	3	
SSH-S09-1000	Screw On Head	3	
SSA-S09-2000	Arbor Style Milling Holder	3	
Insert Data		4	
Grades Description		5	inc
Machining Application Data		6	
Metric Program Contents		7 - 11	
	20110		

Milling	Milling Cutters Identification System											
Measure- ment System	Denotes Square Shoulder Milling Cutters	S = Single line of inserts M= Multi- lines of Inserts	S= Straight Shank A= Arbor Cutter H= Screw on Head	Denotes insert Style	Denotes Insert Size	Denotes Cutting Diameter Size	Denotes Overall Cutter Length	Denotes Shank Diameter Size	Denotes Number of Flutes			
Imperial	S	S	S	S	09	1000	7-34	1000	3			
Imperial	S	S	Н	S	09	1000	-	-	3			

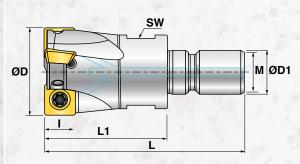


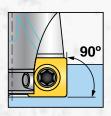






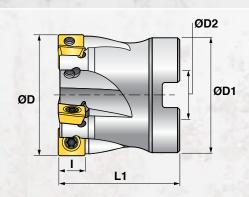
Square Shoulder Straight Shank for SOKT 09T3 Insert											
Millstar Part Number	ØD	ØD1	L	L1	N° Flutes	ı	Insert size	Screw	N max	Torx	ØD2
SSS-S09-1000-4.0-1000-3	1.0	1.0	4.0	1.550	3	.315	9mm	MSSS-1	3.20	T08	.66
SSS-S09-1250-4375-1250-4	1.250	1.250	4.375	2.10	4	.315	9mm	MSSS-1	3.20	T08	.94

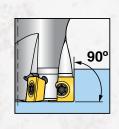






Square Shoulder Screw On Heads for SOKT 09 Insert												
Millstar Part Number	ØD	ØD1	L	L1	Thread M	N° Flutes		Insert size		N max	Torx	sw
SSH-S09-1000-3	1.0	12.5mm	2.250	1.380	M12	3	.315	9mm	MSSS-1	3.20	T08	.67
SSH-S09-1250-4	1.250	17mm	2.480	1.570	M16	4	.315	9mm	MSSS-1	3.20	T08	.95

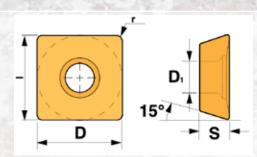






Square Shoulde	Square Shoulder Arbor Style Milling Holder for SOKT 09 Insert												
Millstar Part Number	ØD	ØD1	L1	ØD2 (H6)	Key Width	N° Flutes	- 1	Insert size		N max	Torx		
SSA-S09-2000-6	2.0	1.770	1.570	.750	.312	6	.315	9mm	MSSS-1	3.20	T08		
SSA-S09-3000-9	3.0	2.360	1.960	1.0	.375	9	.315	9mm	MSSS-1	3.20	T08		
SSA-S09-4000-9	4.0	3.750	1.960	1.50	.625	9	.315	9mm	MSSS-1	3.20	T08		





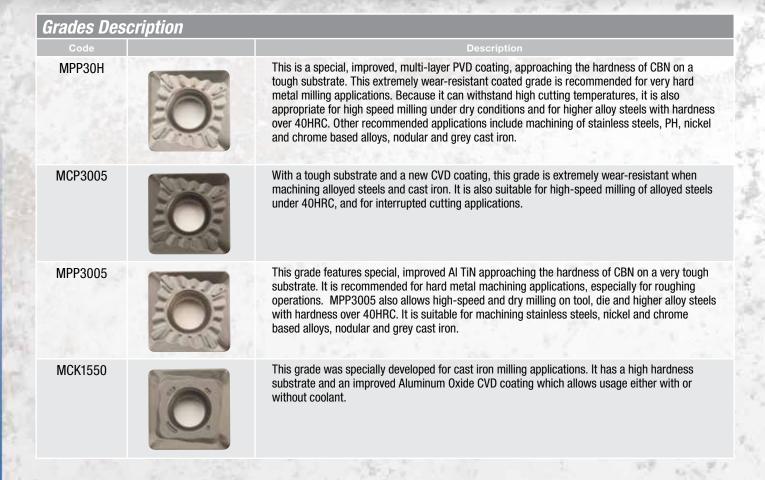


Insert Data											
Insert Code		ا	Dimensions	(mm)							
	D	1	S	r	D1	МРР30Н	MCP3005	MPP3505	MCK1505		
SOKT 09T308-S	.375	.375	.156	.031	.173	•	•	•			
SOKT 09T308-E	.375	.375	.156	.031	.173	•					
SOKT 09T308-C	.375	.375	.156	.031	.173				20 10-1		

denotes available item

Code		Description
S	2	The S geometry was designed for milling high alloyed steels. It provides a strong edge for best results even in hard machining applications.
С		With its very strong cutting edge, C geometry is the first choice for machining cast iron.
E	Coming Soon	The E geometry is the best choice for machining stainless steels. It has a sharp edge which is also well-suited to steel finishing applications.





Mac	hining Ap	pplication Data	a - Grade	s Applica	ation					
	Wo	rk Material	MPP30H		MCP3005		MPF	23005	MCK1505	
ISO Typ	Type	Properties	Vc	fz	Vc	fz	Vc	fz	Vc	fz
	1,750	r roportios	SFM	inch	SFM	inch	SFM	inch	SFM	inch
	Carbon	<24 N/inch	800-1200	.003016	800-1200	.003016	800-1200	.003016		
	Steel	<37 N/inch	600-1000	.003012	600-1000	.003012	600-1000	.003012		
Р	T 10 D	28-37 N/inch	600-900	.003010	600-900	.003010	600-900	.003010		
	Tool & Die Steel	35-47 N/inch	500-700	.003008	500-700	.003008	500-750	.003008		
		47-55 N/inch	325-500	.003008	250-450	.003008	250-450	.003008		
М	Stainless	Austenitic & Feritic	600-1000	.003016			600-800	.003016		
IVI	Steel	Martensitic	325-500	.003010			250-450	.003010		
		GG-Ft							800-1200	.003008
K	Cast Iron	GGG-FGS							600-900	.003006
		GTS-MN/MP							500-800	.003006

- For Slant Milling or Helical Interpolation decrease the recomended feed by 30%
- In case of Helical Interpolation do not exceed the max Ap/revolution
- For Plunging use 50% of recommended feed only

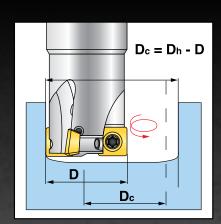


## Machining Application Data

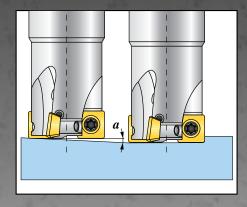
Helical Interpolation									
Tool Code	Tool ØD	ØDh(min)	ØDh(max)	a°					
SSS-S09-1000-4.0-1000-3	1.0	1.457	1.890	4°					
SSS-S09-1250-4375-1250-4	1.250	1.850	2.441	2°					
SSA-S09-2000-6	2.0	2.480	3.071	0.75°					
SSA-S09-3000-9	3.0	3.268	3.858	0.5°					
SSA-S09-4000-9	4.0	4.291	4.882	0.4°					
SSH-S09-1000-3	1.0	1.457	1.890	4°					
SSH-S09-1250-4	1.250	1.850	2.441	2°					

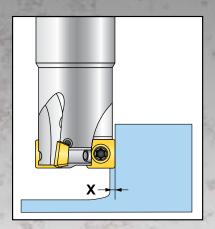
A CONTRACTOR OF THE PARTY OF TH		
Slant Milling		
Tool Code	Tool ØD	a°
SSS-S09-1000-4.0-1000-3	1.0	4°
SSS-S09-1250-4375-1250-4	1.250	2°
SSA-S09-2000-6	2.0	0.75°
SSA-S09-3000-9	3.0	0.5°
SSA-S09-4000-9	4.0	0.4°
SSH-S09-1000-3	1.0	4°
SSH-S09-1250-4	1.250	2°

Axial Plunging		
Tool Code	Tool ØD	X(max)
SSS-S09-1000-4.0-1000-3	1.0	.020
SSS-S09-1250-4375-1250-4	1.250	.020
SSA-S09-2000-6	2.0	.012
SSA-S09-3000-9	3.0	.012
SSA-S09-4000-9	4.0	.012
SSH-S09-1000-3	1.0	.020
SSH-S09-1250-4	1.250	.020
SSS-S09-1000-4.0-1000-3 SSS-S09-1250-4375-1250-4 SSA-S09-2000-6 SSA-S09-3000-9 SSA-S09-4000-9 SSH-S09-1000-3	1.0 1.250 2.0 3.0 4.0 1.0	.020 .020 .012 .012 .012 .020



• Dc is calculated value for rotation



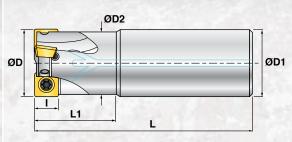


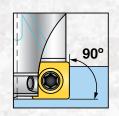




Milling	Cutters Id	entification	on Systen	7					
Measure- ment System	Denotes Square Shoulder Milling Cutters	S = Single line of inserts M= Multi- lines of Inserts	S= Straight Shank A= Arbor Cutter H= Screw on Head	Denotes insert Style	Denotes Insert Size	Denotes Cutting Diameter Size	Denotes Overall Cutter Length	Denotes Shank Diameter Size	Denotes Number of Flutes
Metric	S	S	S	S	09	25	7 75	25	3
Metric	S	S	Н	S	09	25	-	-	3

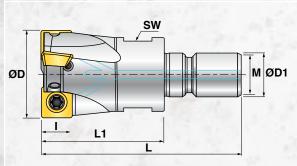


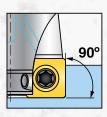






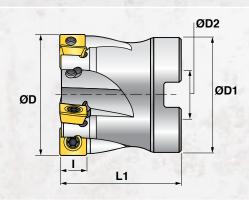
Square Shoulde	r Straig	ht Shank	k for SOF	KT 09T3	Insert						
Millstar Part Number	ØD	ØD1	L	L1	N° Flutes	- 1	Insert size	Screw	N max	Torx	ØD2
SSS-S09-25-88-25-3	25	25	88	25	3	8	9	MSSS-1	3,20	T08	17
SSS-S09-32-96-25-4	32	32	96	39	4	8	9	MSSS-1	3,20	T08	24

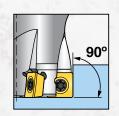






Square Shoulder Screw On Heads for SOKT 09 Insert												
Millstar Part Number	ØD	ØD1	L	L1	Thread M	N° Flutes	1	Insert size		N max	Torx	sw
SSH-S09-25-3	25	12,50	57	35	M12	3	8	9	MSSS-1	3,20	T08	17
SSH-S09-32-4	32	17,00	63	40	M16	4	8	9	MSSS-1	3,20	T08	24

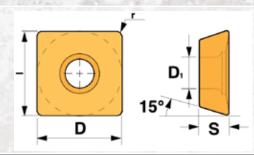






Square Shoulder Arbor Style Milling Holder for SOKT 09 Insert												
Millstar Part Number	ØD	ØD1	Li	ØD2 (H6)	Key Width	Clamping screws for milling adapters (metric)	N° Flutes		Insert size		N max	Torx
SSA-S09-40-5	40	38	40	16	8.4	M12x30	5	8	9	MSSS-1	3,20	T08
SSA-S09-50-6	50	43	40	22	10.4	M16x30	6	8	9	MSSS-1	3,20	T08
SSA-S09-63-7	63	48	40	22	10.4	M16x30	7	8	9	MSSS-1	3,20	T08
SSA-S09-80-9	80	58	50	27	12.4	M20x30	9	8	9	MSSS-1	3,20	T08





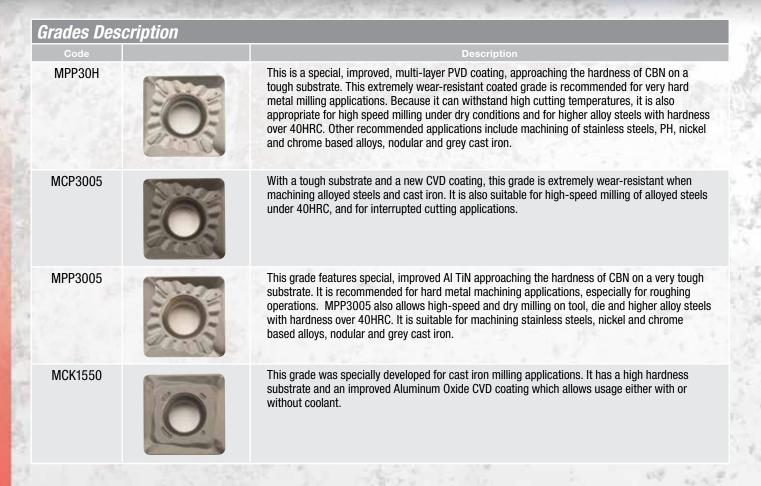


Insert Data									
Insert Code		Di	mensions (	mm)			Gr	ades	
	D	ı	S	r	D1	МРР30Н	MCP3005	MPP3505	MCK1505
S0KT 09T308-S	9,52	9,52	3,97	0,8	4,4	•	•	•	
S0KT 09T308-E	9,52	9,52	3,97	0,8	4,4	•			
S0KT 09T308-C	9,52	9,52	3,97	0,8	4,4				•

denotes available item

Code		Description
S		The S geometry was designed for milling high alloyed steels. It provides a strong edge for best results even in hard machining applications.
С	1	With its very strong cutting edge, C geometry is the first choice for machining cast iron.
E	Coming Soon	The E geometry is the best choice for machining stainless steels. It has a sharp edge which is also well-suited to steel finishing applications.





Мас	hining Ap	plication Data	- Grades	Applica Applica	ntion					
	Wo	rk Material	MPP30H		MCP3005		MPP3005		MCK1505	
ISO	Туре	Properties	Vc	fz	Vc	fz	Vc	fz	Vc	fz
	туре	Froperties	m/min	mm	m/min	mm	m/min	mm	m/min	mm
	Carbon	<600 N/mm	270-360	0,1-0,4	250-340	0,1-0,4	250-350	0,1-0,4		
	Steel	<950 N/mm	200-300	0,1-0,3	200-290	0,1-0,3	200-250	0,1-0,3		
Р	Tool & Die Steel	700-950 N/mm	200-280	0,1-0,25	200-290	0,1-0,25	170-230	0,1-0,25		
		900-1200 N/mm	160-220	0,1-0,2	150-200	0,1-0,2	130-220	0,1-0,2		
		1200-1400 N/mm	100-150	0,1-0,2	80-140	0,1-0,2	80-140	0,1-0,2		
М	Stainless	Austenitic & Feritic	200-280	0,1-0,4			200-260	0,1-0,4		
IVI	Steel	Martensitic	100-160	0,1-0,25			80-140	0,1-0,25		
		GG-Ft							250-360	0,10-0,20
K	Cast Iron	GGG-FGS							190-280	0,10-0,15
15-		GTS-MN/MP							170-250	0,10-0,15

- For Slant Milling or Helical Interpolation decrease the recomended feed by 30%
- In case of Helical Interpolation do not exceed the max Ap/revolution
- For Plunging use 50% of recommended feed only

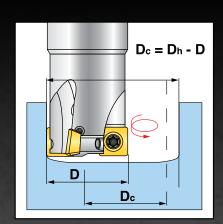


## Machining Application Data

Helical Interpolation								
Tool Code	Tool ØD	ØDh(min)	ØDh(max)	a°				
SSS-S09-25-88-25-3	25	37	48	4°				
SSS-S09-32-96-25-4	32	47	62	2°				
SSA-S09-40-5	40	63	78	0,75°				
SSA-S09-50-6	50	83	98	0,5°				
SSA-S09-63-7	63	109	124	0,4°				
SSA-S09-80-9	80	143	158	0,25°				
SSA-S09-25-3	25	37	48	4°				
SSH-S09-32-4	32	47	62	2°				

Slant Milling								
Tool Code	Tool ØD	a°						
SSS-S09-25-88-25-3	25	4°						
SSS-S09-32-96-25-4	32	2°						
SSA-S09-40-5	40	0,75°						
SSA-S09-50-6	50	0,5°						
SSA-S09-63-7	63	0,4°						
SSA-S09-80-9	80	0,25°						
SSA-S09-25-3	25	4°						
SSH-S09-32-4	32	2°						

	. 17	1381 10 a.F
Axial Plunging		
Tool Code	Tool ØD	X(max)
SSS-S09-25-88-25-3	25	0,5
SSS-S09-32-96-25-4	32	0,5
SSA-S09-40-5	40	0,3
SSA-S09-50-6	50	0,3
SSA-S09-63-7	63	0,3
SSA-S09-80-9	80	0,3
SSA-S09-25-3	25	0,5
SSH-S09-32-4	32	0,5



• Dc is calculated value for rotation

