

**Grades Description** 

**Machining Application Data** 

**Metric Program Contents** 

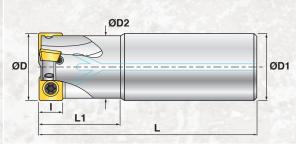
# SSS-S09-1000 SCrew On Head 3 SSA-S09-2000 Arbor Style Milling Holder 3 Insert Data Straight Shank 3 4

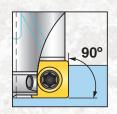
Square Shoulder Milling Cutters Program Contents - Inch Section

Milling	Cutters Id	entificati	on Systen	7			220		
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

6

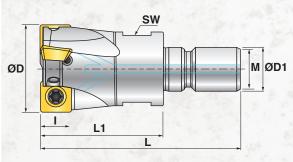
# **MILLSTAR**.

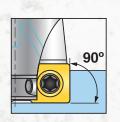






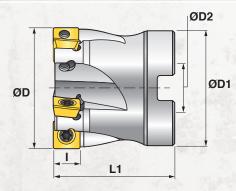
Square Shoulder Straight Shank for SOKT 09T3 Insert											
Millstar Part Number	ØD	ØD1	L	L1	N° Flutes	1	Insert size	Screw	N max	Torx	ØD2
SSS-S09-1000-4.0-1000-3	1.0	1.0	4.0	1.550	3	.315	9mm	MSSS-1	3.20	T08	.66
SSS-S09-1250-4375-1250-4	1.250	1.250	4.375	2.10	4	.315	9mm	MSSS-1	3.20	T08	.94

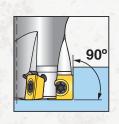






Square Should	Square Shoulder Screw On Heads for SOKT 09 Insert												
Millstar Part Number ØD ØD1 L L1 Thread M N° Flutes I Insert size Screw N max Torx SW													
SSH-S09-1000-3	1.0	12.5mm	2.250	1.380	M12	3	.315	9mm	MSSS-1	3.20	T08	.67	
SSH-S09-1250-4	1.250	17mm	2.480	1.570	M16	4	.315	9mm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

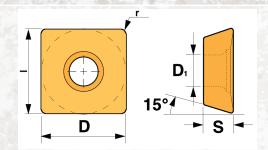






Square Shoulde	er Arbo	r Style IV	Ailling I	Holder fo	or SOKT	09 In	sert				
Millstar Part Number	ØD	ØD1	L1	ØD2 (H6)	Key Width	N° Flutes		Insert size		N max	Torx
SSA-S09-2000-6	2.0	1.770	1.570	.750	.312	6	.315	9mm	MSSS-1	3.20	T08
SSA-S09-3000-9	3.0	2.360	1.960	1.0	.375	9	.315	9mm	MSSS-1	3.20	T08
SSA-S09-4000-9	4.0	3.750	1.960	1.50	.625	9	.315	9mm	MSSS-1	3.20	T08

# **△**MILLSTAR。



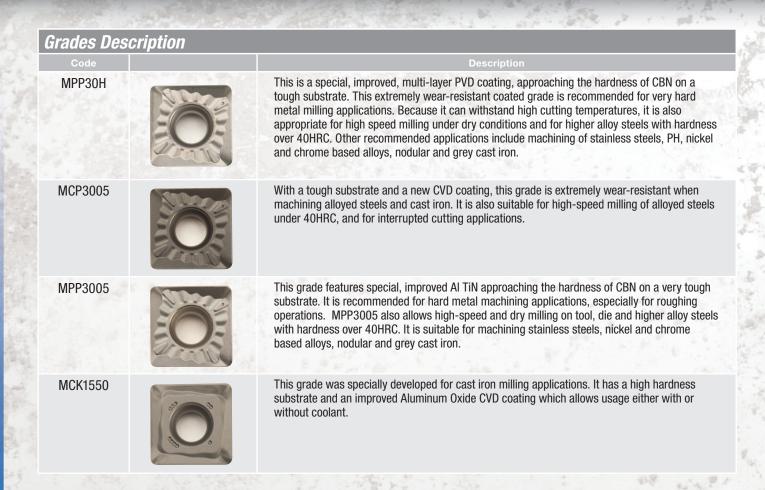


Insert Data									
Insert Code			Dimensions	(mm)			Gra	des	
	D	ı			D1	МРР30Н	MCP3005	MPP3505	MCK1505
S0KT 09T308-S	.375	.375	.156	.031	.173	•	•	b white	
S0KT 09T308-E	.375	.375	.156	.031	.173	•			
SOKT 09T308-C	.375	.375	.156	.031	.173				

denotes available item

ert Geom	igu y	
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		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.





		rk Material	MPI	P30H	MCP3005		MPP3005		MCK1505	
so	Туре	Properties	Vc	fz	Vc	fz	Vc	fz	Vc	fz
	Туре	rioperties	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	T10 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	.00300
K	Cast Iron	GGG-FGS							600-900	.00300
		GTS-MN/MP							500-800	.00300

- 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

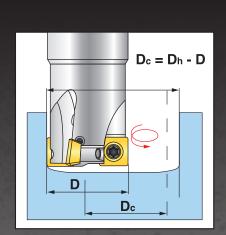


### Machining Application Data

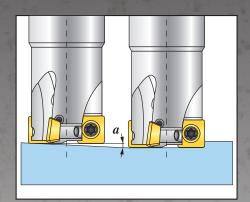
ACLEANDED PARTIES DE COMO TOURS	- A Table &	PREPROCES	HALLING ATTO	10940000
Helical Interpolation	n			
Tool Code	Tool ØD	ØDh(min)	ØDh(max)	a°
SSS-S09-1000-4.0-1000-3	1.0	1.457	1.890	4°
SSS-S09-1250-4375-1250-4	1.250	1.850	2.441	2°
SSA-S09-2000-6	2.0	2.480	3.071	0.75°
SSA-S09-3000-9	3.0	3.268	3.858	0.5°
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°

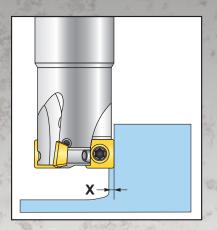
		- Ou
Slant Milling		
Tool Code	Tool ØD	a°
SSS-S09-1000-4.0-1000-3	1.0	4°
SSS-S09-1250-4375-1250-4	1.250	2°
SSA-S09-2000-6	2.0	0.75°
SSA-S09-3000-9	3.0	0.5°
SSA-S09-4000-9	4.0	0.4°
SSH-S09-1000-3	1.0	4°
SSH-S09-1250-4	1.250	2°

Tool ØD	X(max)
1.0	.020
1.250	.020
2.0	.012
3.0	.012
4.0	.012
1.0	.020
1.250	.020
	1.0 1.250 2.0 3.0 4.0 1.0



• Dc is calculated value for rotation



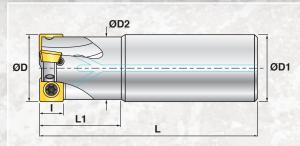


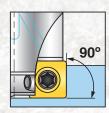


SSS-S09-25	ng Cutters Program Content Straight Shank	8	
SSH-S09-32	Screw On Head	8	
SSA-S09-50	Arbor Style Milling Holder	8	
Insert Data		9	
Grades Description		10	
Grades Description  Machining Application Data		10	

Milling	Cutters Id	entification	on Systen	1					
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	7.34	25	3
Metric	S	S	Н	S	09	25	-	-	3

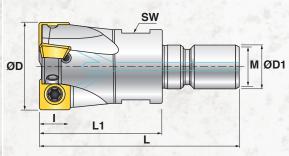
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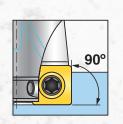






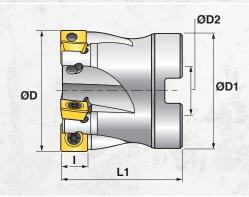
Square Shoulde	r Straig	ht Shanl	k for SOF	KT 09T3	Insert						
Millstar Part Number	ØD	ØD1	L	L1	N° Flutes	- 1	Insert size	Screw	N max	Torx	ØD2
SSS-S09-25-88-25-3	25	25	88	25	3	8	9	MSSS-1	3,20	T08	17
SSS-S09-32-96-25-4	32	32	96	39	4	8	9	MSSS-1	3,20	T08	24

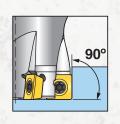






Square Should	ler Scre	w On H	eads f	or SOF	KT 09 Ins	sert						
Millstar Part Number	ØD	ØD1	L	L1	Thread M	N° Flutes	I	Insert size		N max	Torx	sw
SSH-S09-25-3	25	12,50	57	35	M12	3	8	9	MSSS-1	3,20	T08	17
SSH-S09-32-4	32	17,00	63	40	M16	4	8	9	MSSS-1	3,20	T08	24

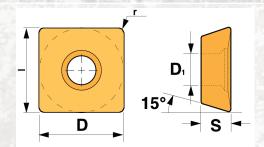






Square Should	er Arbo	or Style	e Milli	ing Hola	ler for S	OKT 09	Insert					
Millstar Part Number	ØD	ØD1	L1	ØD2 (H6)	Key Width	Clamping screws for milling adapters (metric)	N° Flutes	ı	Insert size		N max	Torx
SSA-S09-40-5	40	38	40	16	8.4	M12x30	5	8	9	MSSS-1	3,20	T08
SSA-S09-50-6	50	43	40	22	10.4	M16x30	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

# MILLSTAR.





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

denotes available item

Insert Geome	etry	
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.
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	achining Application Data  Work Material		MPP30H		MCP3005		MDD	2005	MCK1505	
so [	vvo I	rk Materiai	Vc Vc	fz	Vc	fz	MPP Vc	fz	Vc WiCr	fz
	Туре	Properties	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	N 47.	1
	Steel	<950 N/mm	200-300	0,1-0,3	200-290	0,1-0,3	200-250	0,1-0,3		
Р		700-950 N/mm	200-280	0,1-0,25	200-290	0,1-0,25	170-230	0,1-0,25		
	Tool & Die Steel	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		
M	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	0,10-0,2
K	Cast Iron	GGG-FGS							190-280	0,10-0,1
		GTS-MN/MP							170-250	0,10-0,1

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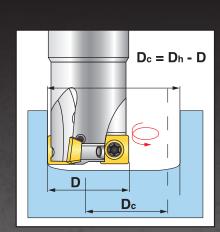


### Machining Application Data

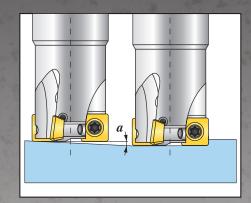
THE PROPERTY OF STREET, AND ST			The second secon	CONTRACTOR OF THE PARTY OF THE
Helical Interpolation	7			
Tool Code	Tool ØD	ØDh(min)	ØDh(max)	
SSS-S09-25-88-25-3	25	37	48	4°
SSS-S09-32-96-25-4	32	47	62	2°
SSA-S09-40-5	40	63	78	0,75°
SSA-S09-50-6	50	83	98	0,5°
SSA-S09-63-7	63	109	124	0,4°
SSA-S09-80-9	80	143	158	0,25°
SSA-S09-25-3	25	37	48	4°
SSH-S09-32-4	32	47	62	2°

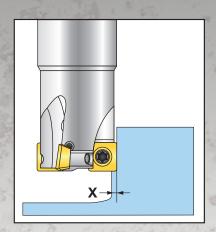
PACKET CANCELLED TO THE COLUMN TO THE CANCELLED THE CANCELLED TO THE CANCELLED THE CAN		
Slant Milling		
Tool Code	Tool ØD	a°
SSS-S09-25-88-25-3	25	4°
SSS-S09-32-96-25-4	32	2°
SSA-S09-40-5	40	0,75°
SSA-S09-50-6	50	0,5°
SSA-S09-63-7	63	0,4°
SSA-S09-80-9	80	0,25°
SSA-S09-25-3	25	4°
SSH-S09-32-4	32	2°

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





# MILLSTAR TOOLING



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