



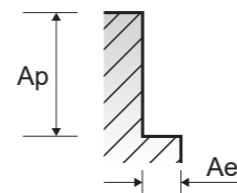
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDPARAMETER

SEME72 SERIES 4 FLUTE - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev./min.
FEED = mm/min.
LOC = Length of Cut

ISO	VDI 3323	Material Description	Ae	Ap	Parameter	Diameter (Ø)																						
						1.0		1.0		1.0		1.0		1.0		1.0		1.2		1.2		1.2		1.2				
						LOC	3	4	5	6	7	8	10	12	4	6	8	10	12	4	6	8	10	12	4	6	8	10
P	1-5	Non-alloy steel	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002											
					RPM	19099	19099	19099	17189	17189	17189	17189	15279	16181	16181	14589	14589											
					FEED	153	153	153	138	138	138	138	122	194	194	175	117											
					Vc	60	60	60	54	54	54	54	48	61	61	55	55											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002											
	6-8	Low alloy steel	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002											
					RPM	19099	19099	19099	17189	17189	17189	17189	15279	16181	16181	14589	14589											
					FEED	153	153	153	138	138	138	138	122	194	194	175	117											
					Vc	34	34	34	31	31	31	31	28	35	35	31	31											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002										
9	High alloyed steel, and tool steel	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55												
				fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002											
				RPM	10823	10823	10823	9868	9868	9868	9868	8913	9284	9284	8223	8223												
				FEED	87	87	87	79	79	79	39	36	74	74	66	66												
				Vc	60	60	60	54	54	54	54	48	61	61	55	55												
				fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002											
10-11.1	High alloyed steel, and tool steel	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55												
				fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002											
				RPM	19099	19099	19099	17189	17189	17189	17189	15279	16181	16181	14589	14589												
				FEED	153	153	153	138	138	138	138	122	194	194	175	117												
				Vc	34	34	34	31	31	31	31	28	35	35	31	31												
				fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002											
11.2	High alloyed steel, and tool steel	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55												
				fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002											
				RPM	10823	10823	10823	9868	9868	9868	9868	8913	9284	9284	8223	8223												
				FEED	87	87	87	79	79	79	39	36	74	74	66	66												
				Vc	34	34	34	31	31	31	31	28	35	35	31	31												
				fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002											
K	15-20	Grey cast iron Nodular cast iron Malleable cast iron	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002											
					RPM	19099	19099	19099	17189	17189	17189	17189	15279	16181	16181	14589	14589											
					FEED	153	153	153	138	138	138	138	122	194	194	175	117											
					Vc	21	21	21	19	19	19	19	17	21	21	19	19											
					fz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001										
H	38.1 - 38.2	Hardened steel	0.02D	2.0D	Vc	21	21	21	19	19	19	19	17	21	21	19	19											
					fz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001										
					RPM	6685	6685	6685	6048	6048	6048	6048	5411	5570	5570	5040	5040											
					FEED	27	27	27	24	24	24	24	22	45	45	40	20											
					Vc	34	34	34	31	31	31	31	28	35	35	31	31											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002										
	40	Chilled Cast Iron	0.05D	2.5D	Vc	60	60	60	54	54	54	54	48	61	61	55	55											
					fz	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002										
					RPM	10823	10823	10823	9868	9868	9868	9868	8913	9284	9284	8223	8223											
					FEED	87	87	87	79	79	79	39	36	74	74	66	66											
					Vc	21	21	21	19	19	19	19	17	21	21	19	19											
					fz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001											
41	Hardened Cast Iron	0.02D	2.0D	Vc	21	21	21	19	19	19	19	17	21	21	19	19												
				fz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001												
				RPM	6685	6685	6685	6048	6048	6048	6048	5411	5570	5570	5040	5040												
				FEED	27	27	27	24	24	24	24	22	45	45	40	20												
				Vc	21	21	21	19	19	19	19	17	21	21	19	19												
				fz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001												

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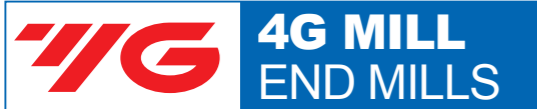


RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDPARAMETER

SEME72 SERIES 4 FLUTE - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev./min.
FEED = mm/min.
LOC = Length of Cut

VDI 3323	Parameter	Diameter (Ø)																											
		1.2		1.5		1.5		1.5		1.5		1.5		2.0		2.0		2.0		2.5		2.5		2.5		3.0		3.0	
		LOC	12	6	8	10	12	14	16	8	10	12	14	16	10	12	16	20	26	10	12	16	20	26	10	12	16	20	26
1-5	Vc	55	65	59	59	59	59	52	66	66	60	60	60	71	71	64	64	57	70	70									
	fz	0.002	0.004	0.004	0.004	0.003	0.003	0.003	0.006	0.006	0.005	0.005	0.005	0.007	0.007	0.006	0.006	0.005	0.009	0.009									
	RPM	14589	13793	12520	12520	12520	12520	11035	10504	10504	9549	9549	9549	9040	9040	8149	8149	7257	7427	7427									
	FEED	117	221	200	200	150	150	132	252	252	191	191	191	253	196	196	145	145	267	267									
6-8	Vc	55	65	59	59	59	59	52	66	66	60	60	60	71	71	64	64	57	70	70									
	fz	0.002	0.004	0.004	0.004	0.003	0.003	0.003	0.006	0.006	0.005	0.005	0.005	0.007	0.007	0.006	0.006	0.005	0.009	0.009									
	RPM	14589	13793	12520	12520	12520	12520	11035	10504	10504	9549	9549	9549	9040	9040	8149	8149	7257	7427	7427									
	FEED	117	221	200	200	150	150	132	252	252	191	191	191	253	196	196	145	145	267	267									
9	Vc	31	37	33	33	33	33	30	38	38	34																		



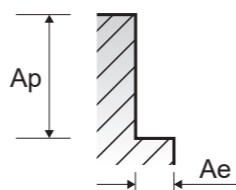
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDPARAMETER

SEME72 SERIES 4 FLUTE - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev/min.
FEED = mm/min.
LOC = Length of Cut

Table with columns for ISO, VDI 3323, Ae, Ap, Parameter, and Diameter (Ø) ranging from 3.0 to 5.0. Rows include ISO P (1-5, 6-8, 9, 10-11.1, 11.2) and ISO K (15-20) materials.

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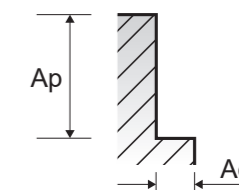
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDPARAMETER

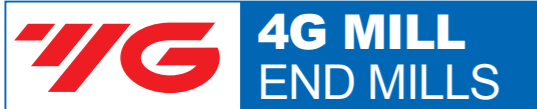
SEME72 SERIES 4 FLUTE - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev/min.
FEED = mm/min.
LOC = Length of Cut

Table with columns for VDI 3323, Parameter, and Diameter (Ø) ranging from 6.0 to 10.0. Rows include VDI 1-5, 6-8, 9, 10-11.1, 11.2, 15-20, 38.1-38.2, 40, and 41 materials.

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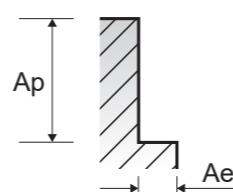
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDPARAMETER

SEME72 SERIES 4 FLUTE - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev/min.
FEED = mm/min.
LOC = Length of Cut

Table with columns for ISO, VDI 3323, Ae, Ap, Parameter, LOC, and Diameter (Ø) ranging from 10.0 to 16.0. Rows include material grades P, K, and H with various flute counts and cutting parameters.

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RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDPARAMETER

SEME72 SERIES 4 FLUTE - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev/min.
FEED = mm/min.
LOC = Length of Cut

Table with columns for VDI 3323, Parameter, LOC, and Diameter (Ø) ranging from 16.0 to 25.0. Rows include material grades P, K, and H with various flute counts and cutting parameters.

