7/EAW13













Standard cutting conditions

	Grade	SFM	Roughing (Depth of cut: > .039 in)					
Work Material			Feed per tooth fz (ipt)					
			MJ	ML	HJ	MS	Without Chipbreaker	AJ
Mild Steel, Unhardened Steels (<180 HB)	AH120	330-890	.002012	.002010	.008024	-	.002012	-
	T3130	500-985	.002012	-	.008024	-	.002012	-
	AH140	260-590	.002012	-	-	.004010	-	-
	NS740	330-985	.002009	-	-	-	.002009	-
Carbon Steels, Alloy Steels (<300 HB)	AH120	330-760	.002010	.002008	.008020	-	.002010	-
	T3130	490-920	.002010	-	.008020	-	.002010	-
	AH140	260-490	.002010	-	.008020	-	-	-
	NS740	330-760	.002008	-	-	-	.002008	-
Die Steels, Prehardened Steels (<30 HRC)	AH120	330-590	.002008	.002006	.008016	-	.002008	-
	T3130	330-590	.002008	-	.008016	-	.002008	-
Stainless Steels (<250 HB)	AH120	490-820	.004010	.004008	.008020	-	.004010	-
	AH130	330-760	.004010	.004008	.008020	.004008	-	-
	AH140	260-660	.004010	-	.008020	.004008	-	-
Cast Irons, Ductile Irons	T1115	330-820	.002010	-	.008024	-	.002010	-
	AH120	330-820	.002010	.002008	.008024	-	.002010	-
Aluminum Alloys (Si<12%)	KS05F	985-3300	-	-		-		.002008
Aluminum Alloys (Si>13%) Copper Alloys	KS05F	260-985	-	-	-	-	-	.002008
	KS05F	660-1650	-	-	-	-	-	.002008

	Grade	SFM	Light cutting to finishing (Depth of cut: < .039 in) Feed per tooth fz (ipt)						
Work Material									
			MJ	ML	HJ	MS	Without Chipbreaker	AJ	
Mild Steel, Unhardened Steels (<180 HB)	AH120	330-890	.002010	.002008	.008024	-	.002010	-	
	T3130	500-985	.002010	ı	.008024	ı	.002010	-	
	AH140	260-590	.002010	-	-	.002008	-	-	
	NS740	330-985	.002008	-	-	-	.002008	-	
Carbon Steels, Alloy Steels (<300 HB)	AH120	330-760	.002008	.002006	.008020	ı	.002008	-	
	T3130	490-920	.002008	ı	.008020	ı	.002008	-	
	AH140	260-490	.002008	-	.008020	-	-	-	
	NS740	330-760	.002007	-	-	-	.002007	-	
Die Steels, Prehardened Steels (<30 HRC)	AH120	330-590	.002007	.002005	.008016	-	.002007	-	
	T3130	330-590	.002007	-	.008016	-	.002007	-	
Stainless Steels (<250 HB)	AH120	490-820	.004008	.004007	.008020	-	.004008	-	
	AH130	330-760	.004010	.004007	.008020	.004007	-	-	
	AH140	260-660	.004008	-	.008020	.004007	-	-	
Cast Irons, Ductile Irons	T1115	330-820	.002008	-	.008024	-	.002008	-	
	AH120	330-820	.002008	.002007	.008024	-	.002008	-	
Aluminum Alloys (Si<12%)	KS05F	985-3300	-	-	-	-	-	.002008	
Aluminum Alloys (Si>13%) Copper Alloys	KS05F	260-985	-	-	-	-	-	.002008	
	KS05F	660-1650	-	-	-	-	-	.002008	

Notes: • When cutting at a large depth of cut or a large cutting width, the cutting speed (v_c) and feed (f_z) should be set to the lower side of the values shown in the above table.

- Dry cutting (or air-blowing) is generally recommended. However, when chips tend to excessively adhere to the cutting edges such as when machining stainless steel, use a water soluble cutting fluid. In this case, use AH140 grade at speeds lower than v_c = 400 SFM.

 • When wet machining mild steels, carbon steels, and alloy steels, use T3130 at lower cutting conditions.
- TAW13 type TAC mills can not be used for axial-feed cutting such as ramping, plunging, and drilling.