GENERAL PURPOSE END MILLS - COBALT - ROUGHING Technical Information

General Purpose Cobalt Roughing End Mills										
Material Guide		Rc	SFM	Feed Per Tooth						
				1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
COBALT BASE ALLOYS	Stellite, HS-21, Haynes 25/188, X-40, L-605	< 32	5-25	.00090011	.00120014	.00180020	.00260029	.00330037	.00400045	.00530059
NICKEL BASE ALLOYS	Inconel-625/718, Waspalloy, Rene, Hastelloy	< 32	10-20	.00090011	.00120014	.00180020	.00260029	.00330037	.00400045	.00530059
IRON BASE ALLOYS	Incoloy 800-802, Multimet N-155, Timkin 16-25-6, Carpeneter 22-b3	< 32	15-35	.00090011	.00120014	.00180020	.00260029	.00330037	.00400045	.00530059
MONEL	Monel-65% Nickel		10-20	.00090011	.00120014	.00180020	.00260029	.00330037	.00400045	.00530059
TITANIUM ALLOYS	Commercially Pure, 6AL-4V, Astm 1/2/3, 6Al-25N-4Zr-2Mo-Si		50-90	.00150017	.00200022	.00280030	.00400045	.00520057	.00620067	.00800090
STAINLESS STEEL (PRECIPITATION)	13/8, 15/5, 17-4, AM-350/355	< 32	60-80	.00110015	.00160020	.00260029	.00360040	.00460050	.00540060	.00700075
STAINLESS STEEL (AUSTENTIC)	200 Series, 302, 303, 304, 316, 304L, 316L	< 32	60-80	.00150019	.00200025	.00300034	.00450049	.00560061	.00670074	.00900098
STAINLESS STEEL (MARTENSITIC)	403, 410, 416, 440	< 32	60-100	.00150019	.00200025	.00300034	.00450049	.00560061	.00670074	.00900098
HIGH STRENGTH TOOL STEELS	4140, 4340, 6150, 5210, A2, D2 P20, H11, H13, S2, 01	< 32	50-80	.00110015	.00150020	.00250028	.00350039	.00450050	.00530059	.00710079
MEDIUM ALLOY STEELS	200, 250, 300	< 32	60-120	.00160020	.00230027	.00330040	.00500054	.00320070	.00750082	.00930110
CARBON STEELS	1000's, 1100's, 1300's	< 32	70-150	.00180022	.00250029	.00370042	.00530059	.00680074	.00800090	.01000115
DUCTILE	Ductile Cast Irons		40-80	.00150018	.00190024	.00300034	.00420048	.00560061	.00650073	.00870093
CAST IRONS	Gray Cast Irons		60-150	.00100014	.00140018	.00240027	.00340038	.00440050	.00530058	.00700078
ALUMINUM	2014, 2024, 6061-(T1-T6), 7075, Die Cast, Extruded		400-650	.00240027	.00580063	.00670076	.01030110	.01120120	.01800205	.02100260

These values are a starting point based on an uncoated tool. For AlTiN Coated tools increase SFM values by up to +40%