

Solid Carbide End Mill Program - High Feed



HFI4 - High Feed Four Flute Solid Carbide

Tool Ordering No.	Diameter (D1)	Programmable Radius	Shank Diameter (D2)	Neck Diameter (D3)	Length of Cut (L2)	Neck Length (L3)	Overall Length (L1)	Step Over Ae	Depth of Cut Ap	Feed per Tooth Fz
HFI4-0125	0.125	0.015	0.250	0.115	0.0938	0.650	3	0.094	0.005	0.003 - 0.006
HFI4-0187	0.187	0.022	0.250	0.170	0.1250	0.750	3	0.135	0.007	0.004 - 0.009
HFI4-0250	0.250	0.031	0.250	0.235	0.1500	1.000	3	0.187	0.009	0.006 - 0.011
HFI4-0375	0.375	0.046	0.375	0.360	0.1700	1.250	4	0.280	0.014	0.009 - 0.016
HFI4-0500	0.500	0.061	0.500	0.485	0.1800	1.500	4	0.375	0.019	0.012 - 0.022



HFI6 - High Feed Six Flute Solid Carbide with Coolant Through

Tool Ordering No.	Diameter (D1)	Programmable Radius	Shank Diameter (D2)	Neck Diameter (D3)	Length of Cut (L2)	Neck Length (L3)	Overall Length (L1)	Step Over Ae	Depth of Cut Ap	Feed per Tooth Fz
HFI6-0250-3.0-CH	0.250	0.026	0.250	0.235	0.1560	0.5000	3	0.187	0.009	.006-.011
HFI6-0312-3.0-CH	0.312	0.036	0.312	0.290	0.1560	0.5000	3	0.230	0.012	.007-.014
HFI6-0375-3.0-CH	0.375	0.040	0.375	0.360	0.1875	0.5625	3	0.280	0.014	.009-.016
HFI6-0500-4.0-CH	0.500	0.056	0.500	0.485	0.1875	0.5625	4	0.375	0.019	.012-.022
HFI6-0625-4.0-CH	0.625	0.070	0.625	0.615	0.2180	0.6250	4	0.450	0.021	.015-.025

HFI Cutting Conditions

Work Material	Material Hardness	Cutting Depth at Diameter ap max				Cutting Width	Coating type Recom.	Cut speed at D	Max Feed per Tooth Fz at cutting insert diameter D			
USA/W.-Nr./JIS	Hrc	0.125	0.250	0.375	0.500	Ae max	Coating	SFM	0.125	0.250	0.375	0.500
H13/1.2344/SKD61	<41	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
H13/1.2344/SKD61	41-50	0.006	0.010	0.016	0.020	75%	HSN	600-800	.003-.006	.006-.011	.009-.016	.012-.022
H13/1.2344/SKD61	51+	0.005	0.008	0.012	0.016	75%	HSN	300-600	.003-.006	.006-.011	.009-.016	.012-.022
A2/1,2363/SKD12	<41	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
A2/1,2363/SKD12	41-50	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
A2/1,2363/SKD12	51+	0.005	0.008	0.012	0.016	75%	HSN	300-600	.003-.006	.006-.011	.009-.016	.012-.022
P20/1,2330	<41	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
P20/1,2330	41-50	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
D2/1,2379/SKD11	<41	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
D2/1,2379/SKD11	41-50	0.006	0.010	0.016	0.020	75%	HSN	300-600	.003-.006	.006-.011	.009-.016	.012-.022
D2/1,2379/SKD11	51+	0.005	0.010	0.012	0.016	75%	HSN	250-500	.003-.006	.006-.011	.009-.016	.012-.022
Grey Cast Iron/GG	<41	0.006	0.010	0.016	0.020	75%	HSN	1000-3000	.003-.006	.006-.011	.009-.016	.012-.022
Cast Iron/GGG	41+	0.006	0.010	0.016	0.020	75%	HSN	800-1200	.003-.006	.006-.011	.009-.016	.012-.022
Titanium (6AL 4V)		0.006	0.010	0.016	0.020	75%	HSN	400-600	.003-.006	.006-.011	.009-.016	.012-.022