SPEEDS & FEEDS VMAX

Recomme	naea :	spee	as and	reeas	FOT IVI	x Serie	es Ena	IVIIIIS V	vith 4	X O FIL	
CUTTING SPEEDS			1/8″	3/16"	1/4″	5/16"	3/8″	1/2″	5/8"	3/4"	1″
Work Material	SFI	М	ipt	ipt	ipt	ipt	ipt	ipt	ipt	ipt	ipt
Titanium Alloys			,	,	,	,					
	HIGH	250	0.0004	0.0004	0.0005	0.0008	0.001	0.0013	0.0014	0.0021	0.0025
	LOW	212	0.0005	0.0005	0.0006	0.0009	0.0011	0.0014	0.0015	0.0022	0.0026
High Temp Alloys											
	HIGH	125	0.0003	0.0003	0.0006	0.001	0.001	0.0016	0.0018	0.0023	0.0023
	LOW	106	0.0004	0.0004	0.0007	0.0011	0.0011	0.0017	0.0019	0.0024	0.0024
Alloy Steels											
4140-4340	HIGH	575	0.0005	0.0009	0.0015	0.0019	0.0024	0.003	0.0034	0.0036	0.0039
Below 36Rc	LOW	450	0.0006	0.001	0.0016	0.002	0.0025	0.0031	0.0035	0.0037	0.004
4140-4340	HIGH	387	0.0005	0.0009	0.0015	0.0019	0.0024	0.003	0.0034	0.0036	0.0039
Above 36Rc	LOW	325	0.0006	0.001	0.0016	0.002	0.0025	0.0031	0.0035	0.0037	0.004
Grey Cast Iron		•			'	'	•				
	HIGH	700	0.0007	0.0007	0.0007	0.0011	0.0011	0.0017	0.0019	0.0023	0.0027
	LOW	575	0.0008	0.0008	0.0008	0.0012	0.0012	0.0018	0.002	0.0024	0.0028
Tool Steels											
Below 36Rc	HIGH	575	0.0004	0.0006	0.0013	0.0018	0.0019	0.0024	0.003	0.0031	0.0034
	LOW	450	0.0005	0.0007	0.0014	0.0019	0.002	0.0025	0.0031	0.0032	0.0035
Above 36Rc	HIGH	262	0.0004	0.0006	0.0013	0.0018	0.0019	0.0024	0.003	0.0031	0.0034
	LOW	211	0.0005	0.0007	0.0014	0.0019	0.002	0.0025	0.0031	0.0032	0.0035
Stainless Steels											
Hard to Machine	HIGH	362	0.0003	0.0003	0.0005	0.0009	0.0009	0.0015	0.0017	0.0021	0.0021
	LOW	325	0.0004	0.0004	0.0006	0.001	0.001	0.0016	0.0018	0.0022	0.0022
			0.000	0.000	0.0000	0.001		0.0010	0.0010	0.0022	0.0022
Mild to Machine	HIGH	375	0.0004	0.0004	0.0006	0.001	0.001	0.0016	0.0018	0.0022	0.0022
	LOW	337	0.0005	0.0005	0.0007	0.0011	0.0011	0.0017	0.0019	0.0023	0.0023
			0.0000	0.0000	0.0007	0.0011	0.0011	0.0011	0.00.0	0.0020	0.0020
Easy to Machine	HIGH	487	0.0005	0.0005	0.0007	0.0011	0.0011	0.0017	0.0019	0.0023	0.0023
	LOW	387	0.0006	0.0006	0.0008	0.0012	0.0012	0.0018	0.002	0.0024	0.0024
		337	0.000	0.000	0.000	0.0012	0.0012	0.0010	0.002	0.0024	0.5027
Soft Steels	HIGH	762	0.0005	0.0007	0.0007	0.0011	0.0011	0.0017	0.0019	0.0023	0.0027
	LOW	637	0.0006	0.0007	0.0007	0.0011	0.0011	0.0017	0.0013	0.0023	0.0027
		031	0.0000	3.0000	3.0000	3.0012	3.0012	3.0010	3.002	3.0024	3.0020
Die Steels											
Die Steels Below 37Rc	HIGH	387	0.0005	0.0009	0.0015	0.0019	0.0024	0.003	0.0034	0.0036	0.0039

- Speed and feed recommendations are for *profile milling* (side cut) operations up to 20% of the cutter diameter
- Decrease values by 20% for slotting operations
- Rates based on *HIGH* values are for optimum working conditions