## **REAMER SPEED AND FEED RECOMMENDATIONS**

Speed and Feed

		Feed (I.P.R.)			
	Material	Speed Still	1200	1/4"	
Aluminum / Aluminum Alloys		100 - 300	0.005″	0.010″	0.015″
Aluminum Alloyed Si > 10%		75 - 200	0.004"	0.008″	0.012"
Cast Irons	Soft	75 - 150	0.005"	0.008″	0.012"
	Medium	60 - 100	0.005″	0.008″	0.012"
	Malleable	40 - 100	0.003″	0.006"	0.010"
	Brass	75 - 175	0.003″	0.004″	0.006″
	Bronze	65 - 125	0.003″	0.004"	0.006"
Coppers / Copper Alloys		75 - 150	0.005″	0.008″	0.012"
Magnesium		150 - 250	0.005"	0.010"	0.015"
Nickel Alloys		50 - 90	0.005″	0.008″	0.012"
Stainless Steels	Free Machining	50 - 90	0.005"	0.008″	0.012"
	Work Hardening	30 - 75	0.003″	0.006″	0.010″
Steels	Low Carbon	60 - 125	0.003″	0.006″	0.010"
	Medium Carbon	100 - 150	0.003″	0.005″	0.008″
	High Tensile (35 - 40Rc)	90 - 125	0.003″	0.005"	0.008″
	High Tensile (40 - 45Rc)	60 - 100	0.001″	0.004″	0.006″
	High Tensile (45Rc +)	30 - 90	0.002″	0.002"	0.004"
Tool Steels		60 - 100	0.002″	0.005″	0.008″
Titanium	Soft	50 - 125	0.003″	0.006″	0.010"
	Hard	20 - 60	0.002″	0.004"	0.008″

## **FLUTE STYLES**





## **RH SPIRAL FLUTES**

For blind holes and abrasive, ductile materials. Do not use for holes with interruptions unless material is reasonably soft.



Produces better finishes on hard materials such as heat-treated steels. Shear action is excellent for holes with interruptions; i.e., keyways, elongated slots, etc.

## **STOCK REMOVAL**

Sufficient amount of stock should be left in the work area to permit the reamer to cut rather than to burnish or glaze.

The amount of stock removal for machine reaming:

