



## List 16640 - A Brand AT-2 List 16645 - A Brand AT-2

Work Material		Cutting Speed (SFM)	Feed Rate (in/t)
Low Carbon Steel	~C0.25%	115 - 180	0.0004 - 0.0028
Medium Carbon Steel	C0.25%~0.45%	260 - 525	0.0004 - 0.0028
High Carbon Steel	C0.45%~	260 - 525	0.0004 - 0.0028
Alloy Steel	4140, 4340, 8620	200 - 400	0.0004 - 0.0028
Hardened Steel	25-45 HRC	115 - 250	0.0004 - 0.0028
	45-50 HRC	115 - 215	0.0004 - 0.0028
	50-65 HRC	115 - 180	0.0004 - 0.0028
Stainless Steel	300-Series, 400-Series	115 - 330	0.0004 - 0.0028
Tool Steel	D2, H13, A6	115 - 330	0.0004 - 0.0028
Cast Steel	-	115 - 330	0.0004 - 0.0028
Cast Iron	-	115 - 330	0.0004 - 0.0028
Ductile Cast Iron	-	115 - 330	0.0004 - 0.0028
Copper	-	115 - 330	0.0004 - 0.0028
Brass	B21, B36	115 - 330	0.0004 - 0.0028
Brass Casting	B62	115 - 330	0.0004 - 0.0028
Bronze	B124, B103, B159	115 - 330	0.0004 - 0.0028
Aluminum	6061, 7075, 2014	115 - 330	0.0004 - 0.0028
Aluminum Alloy Casting	-	115 - 330	0.0004 - 0.0028
Magnesium Alloy Casting	-	115 - 330	0.0004 - 0.0028
Zinc Alloy Casting	-	115 - 330	0.0004 - 0.0028
Titanium Alloy*	Ti-6Al-4V	115 - 180	0.0004 - 0.0028
Nickel Alloy*	Inconel	115 - 180	0.0004 - 0.0028
Thermosetting Plastic	-	115 - 330	0.0004 - 0.0028
Thermo Plastic	-	115 - 330	0.0004 - 0.0028

- The tool is left-hand cutting - program the spindle for counterclockwise rotation.**
  - The indicated speeds and feeds are for air blow cooling.
  - Please use water soluble coolant when machining aluminum materials.
  - When machining magnesium please refer to the coolant oil manufacturer's specification for recommended oil. Please also properly dispose of the cutting chips to prevent fire hazards.
  - Please adjust the cutting conditions depending on the rigidity of the machine, tool holder, and workpiece clamping.
  - Tool vibration should be kept at a minimum level to ensure highest thread accuracy.
  - Select a higher feed rate for larger diameter tooling and a lower feed rate for smaller diameters.
- \*Titanium and Nickel alloy parameters are only to be used for tools with internal coolant running water soluble coolant.

