

RushMachinery

Grind better.



Tool Blank Preparation Machines
Reduce cost and increase throughput!

 **IMTS2026**
Booth 237233

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Proud member:
 **AMT**
THE ASSOCIATION FOR
MANUFACTURING TECHNOLOGY

Rush Machinery builds and services an extensive line of production and support machines for industries that use diamond and CBN wheels and work with carbide and other hard materials.

Cut-Prepoint-Chamfer Machine

The Cut-Prepoint-Chamfer Machine converts full length, blank carbide rods into tool blanks that are ready for fluting and finish grinding. It cuts rod blanks from 1/8" to 1-1/64" (3mm to 26mm) diameter in length, and can prepoint or chamfer one end or both ends. It can also be used for cutting only, prepointing only, or chamfering only. Rods up to 23.5" (600mm) long are automatically loaded from the magazine. Up to 2 different lengths can be cut from the same rod. The cut lengths can be up to 13" (330mm). Angles are generated by specific wheel angles or through interpolation.



Chamfer Machine

The compact Rush Machinery Chamfer Machine automatically chamfers carbide or high speed steel rod tool blanks. The machine has a magazine loader for long periods of unattended operation, freeing the operator for other tasks. The Chamfer Machine automatically loads rod sizes of 1/8" to 1" (3mm to 25mm) in diameter and lengths of 1-1/2" to 7" (38mm to 180mm). Manual loading increases capacities to 1-1/4" (32mm) diameter and 10-1/4" (260mm) in length.



Automatic Cut-Off Machines

The "Auto-Cut" Cut-Off Machine automatically cuts carbide rod into precision lengths. These production machines, designed for cutting tool manufacturers and carbide rod processors, have a large capacity magazine and an automatic loader to allow for hours of unattended operation.

The 2 Rod "Auto-Cut" can increase the production rate for cutting carbide and hardened steel rod when compared to manual cut-off machines.

Full Enclosure

Automatic Loader

Large Capacity Magazine

CNC Auto-Cut



Easy to use Controls

Flood Coolant System



Semi-Automatic Cut-Off Machines

Convenient HMI
Operator Console

Pneumatic
Clamping

Flood Coolant
System



Fully Enclosed

Automatic Clamping and
Cutting Cycle or
Manual Cutting Cycle

Length
Measurement

*Our proven
commitment to
quality, service, and
innovation has made
us an industry
leader since 1983.*



RushCut

The RushCut is used by cutting tool manufacturers and regrind shops to provide a safe, effective way of cutting carbide and HSS rods and tool ends.

Features and Options

- Custom workholding upon request
- Fast cutting time



Machine Functions

- Pre-pointing
- Squaring
- Radii
- Angles
- Chamfering



End Profile Grinding Machine

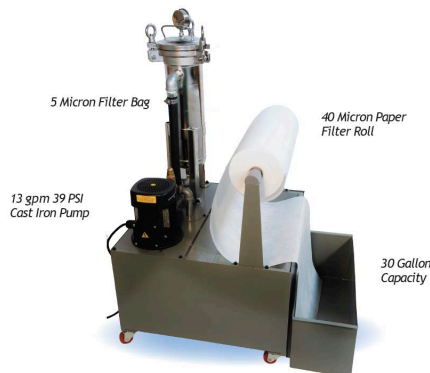
This production machine with automatic loader is designed to prepare the ends of tool blanks to reduce the overall cycle time of the main grinding process.



Optional Accessories (all machines)



Mist Collection



30-Gallon Coolant System



Fire Suppression

Rush Machinery provides top quality products and service that help people grind better.

	CH-CM0406 Cut-Prepoint-Chamfer Machine	CH-CM0203 Chamfer Machine	CH-CM0207 Auto-Cut Cut-Off Machine	RCM-01 Rush-Cut
Machine Weight	4520 Lbs. (2055 KG)	1740 Lbs. (790 KG)	2250 Lbs. (1020 Kg)	800 Lbs. (362 KG)
Crated Weight	5100 Lbs. (2425 KG)	2300 Lbs. (990 KG)	2650 Lbs. (1200 Kg)	1125 Lbs. (510 KG)
Machine Dimensions (L x W x H)	111"L x 60"W x 77"H	52"L x 50"W x 78"H	61"L x 43"W x 71"H	48"L x 34"W x 56"H
Crated Dimensions (L x W x H)	109"L x 75"W x 83"H	65"L x 63"W x 84"H	81"W X 61"D x 76"H	48"L x 48"W x 72.5"H
Base Construction	Cast iron	Fabricated	Cast Iron	Fabricated
Enclosure	Fabricated. Doors on all sides - front slides	Access doors on all sides, sliding front door	Full enclosure with large window	Fabricated
Mist Port	4" hole on top	4" (100mm) hole on top with protective grille	4" (100mm) hole on top with protective grille	4" Hole with Grille
Spindle Motor 1:	2 HP	1 HP	5.5 HP (4KW)	3 HP
Motor 1: RPM Range:	N/A	N/A	1750 - 2600 RPM	1750 - 2600 RPM
Spindle Motor 2:	1 HP	N/A	N/A	N/A
Motor 2: RPM Range:	400 - 1000 RPM	N/A	N/A	N/A
Machine Controller	UTC-600V	UTC-400V	UTC-400V	N/A
Documentation	Instruction and parts manual	Instruction and parts manual	Instruction and parts manual	Instruction and parts manual
	One-year limited warranty			
	Supply Requirements			
Electrical Volts	200-240V, 60Hz	200-240V, 50/60Hz	200-240V, 50/60Hz	200-240V, 50/60Hz
Electrical Phases	3-Phase	3-Phase	3-Phase	3-Phase
Electrical Amps	30A	15A	20A	15A
Coolant	Water with rust inhibitor or oil	Oil or dry	Water with rust inhibitor or oil	Water with rust inhibitor or oil
Compressed Air Requirement	50 LPM at 6.0 Bar, filtered and dried	25 LPM at 6.0 Bar, filtered and dried	50 LPM at 6.0 Bar, filtered and dried	80psi and 5cfm
	Capacities & Performance			
Materials	Carbide and HSS	Carbide and HSS	Carbide and HSS	Carbide and HSS
Material Loader	Automatic	Automatic or manual	Automatic	By hand
Minimum Diameter	1/8" (3mm)	1/8" (3mm)	0.063" (1.6mm)	0.125" (3mm)
Maximum Diameter	1 1/64" (26mm)	1" (25mm) w/auto or 1 1/4" (32mm) w/manual	1.378" (35mm)	1.250" (32mm)
Minimum Length	4" (100mm)	1.5" (38mm)	3" (76.2mm)	0.5" (12mm)
Maximum Length	23.5" (600mm)	7" (180mm)w/auto or 10 1/4" (260mm) w/ manual	16.929" (430mm)	Unlimited
	Finished Part Capacities			
Minimum Diameter	1/8" (3mm)	1/8" (3mm)	0.063" (1.6mm)	0.125" (3mm)
Maximum Diameter	1 1/64" (26mm)	1" (25mm) w/auto or 1 1/4" (32mm) w/manual	1.378" (35mm)	1.250" (32mm)
Minimum length	1" (25mm)	1.5" (38mm)	0.125" (3.175mm)	0.080" (2mm)
Maximum Length	13" (330mm)	7" (180mm) w/auto or 10 1/4" (260mm) w/manual	11.5" (292.1mm)	Unlimited

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