

New Equipment Announcement

Southern Machine Works (SMW) is pleased to announce our latest equipment acquisition. SMW has purchased and installed a **MAZAK HCN-4000 horizontal machining center (HMC)** equipped as follows:

- ✓ Chip Conveyor
- ✓ Workpiece Air Blast
- ✓ SuperFlow T8 Hi-Pressure Coolant (1000 PSI)
- ✓ Renishaw OMP60M Probe
- ✓ 60 tool magazine



Unsurpassed performance, precision, reliability and production value for high-volume operations. The world-class HCN-4000 horizontal machining center combines advanced technology and outstanding value with high performance and high productivity for achieving maximum performance when working with virtually any type of material. The machine features spacious work envelope and pallet size as well as a fast rapid traverse speed and rigid, reliable spindles.

At 18,000 rpm max spindle speed, the HCN-4000 allows for efficient and versatile machining of a wide variety of materials from steels to non-ferrous materials. This machine excels at parts ranging in size from 1x1x1" to 4x4x10" if parts are fixtured on tombstones; with tombstones removed, the HMC can accommodate up to 10x10x10" part size.

The 4-position palletized rotary worktable allows for simultaneous machining while the operator-faced pallet is exposed for manual loading and unloading to maximize machine efficiency and runtime.



Figure 1- Actual Pistol Slide part machined on our HCN-4000 HMC

SPECIFICATION		VALUES
Capacity	Pallet Size	15.750 in / 400 mm
	Maximum Workpiece Height	35.430 in / 900 mm
Spindle	Spindle Taper	No 40
	Maximum Speed	18,000 rpm
Magazine	Number of Tools	60
Feed Axes	Travel (X Axis)	22.05 in / 560 mm
	Travel (Y Axis)	25.20 in / 640 mm
	Travel (Z Axis)	25.20 in / 640 mm

Let SMW put this workhorse high-precision HMC to work on your next prismatic part project!



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