

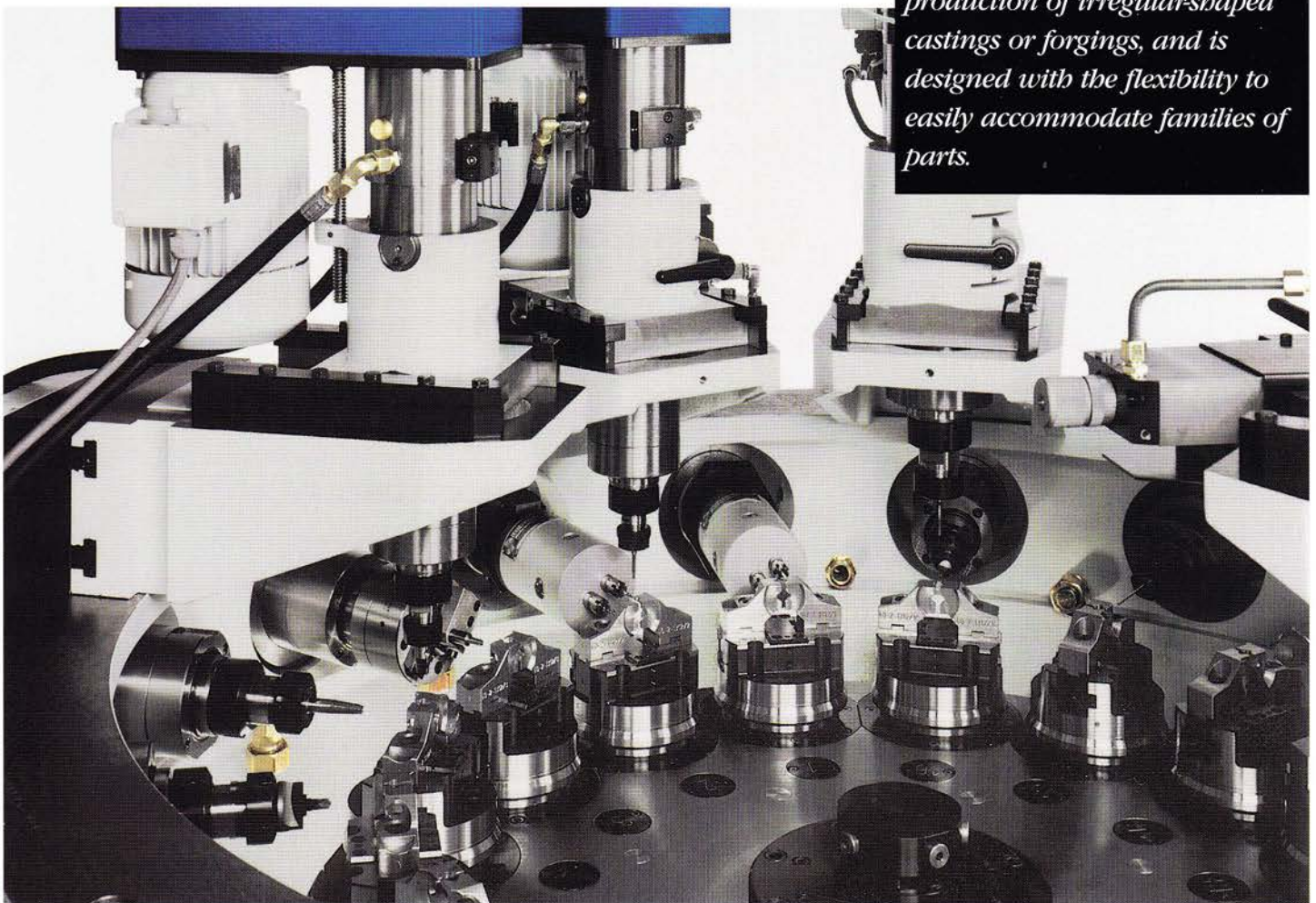
HS 12/HS 16

INDEXING CHUCK MACHINE

The HS Indexing Chuck machine combines precision chucks with the indexing accuracy and reliability of the Hirth ring.

Available in 12 or 16 station models, the HS is fully integrated into the Hydromat program, so the same modular components used with Hydromat's popular rotary transfer models are compatible with the HS machine.

This system is ideal for the mid- to high-volume, precision production of irregular-shaped castings or forgings, and is designed with the flexibility to easily accommodate families of parts.

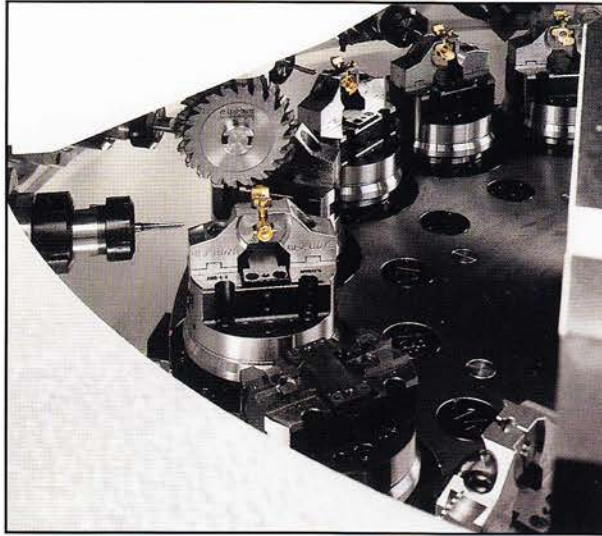


Committed to Excellence

Hydromat[®] Inc.
precision transfer machines

PRECISION CHUCKING

The HS Indexing Chuck machine utilizes hydraulically-actuated, self-centering two- or three-jaw chucks, or custom clamp fixtures, to provide the highest accuracy and part clamping rigidity. This accurate chuck indexing provides precise part positioning for complex multi-axis machining that requires one chucking to maintain overall part quality and statistical capability. ■



Close-up of HS precision two-jaw chuck.



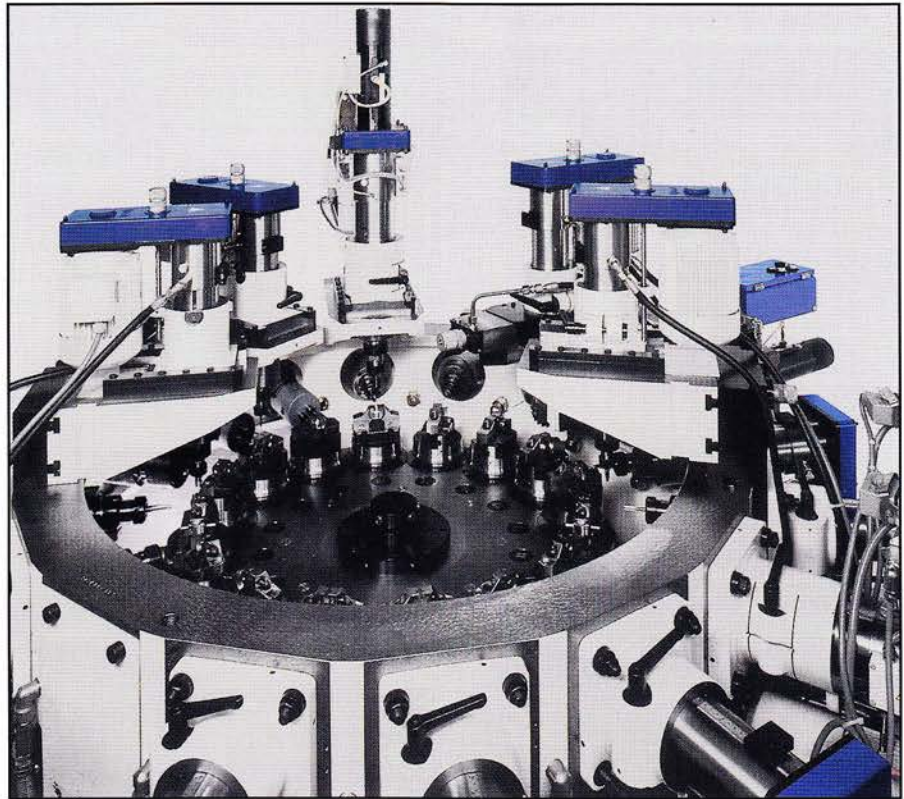
The hydraulic control for the indexing chucks is modular and can be incorporated at any station.

Full view of HS-16 Machine



The chucks are positioned on the indexing table in a satellite arrangement, and are indexed hydraulically. Indexing of the satellite chucks is free programmable, and can be arranged so that no cycle time is lost. Variable clamping pressure can be provided to critical chucks at certain stations for ideal gripping performance without damaging or distorting the finished part. —

A large group of irregular-shaped components, cast or forged, can be loaded by semi-automatic or fully-automatic pick-and-place systems, or bowl feeding, depending upon the specific part requirements. Loading and unloading takes place on the same



station, and typically falls well within the cycle time. Bar stock also can be fed to the machine using a fully automatic bar feeder and cutoff saw. —

Machining area of the HS-16 machine, with hood removed.



Modular components like toolspindle units and hydraulic control valves are compatible with the entire Hydromat machine model system.



MANY APPLICATIONS

The HS machine has the rigidity to handle all components within the capacity range of the machine; 4" cube capacity on the HS-12, and 3" cube capacity on the HS-16.

Typical components ideally suited for machining on the HS machine include: ■

Automotive

ABS and brake systems

Fuel and electrical

Engine and steering

Plumbing and HVAC

Brass and bronze valve castings

Faucet bodies

Gas valves and connectors

Hardware and Appliances

Power tools and appliance housings

Welding

Lock applications

Electrical

Wire connectors

Switch bodies

Telecommunication applications

Defense and Aerospace

Fuse Bodies

Instrument Housings

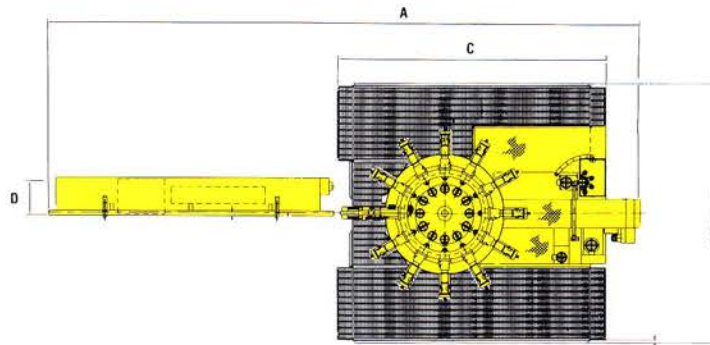
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Technical data HS12/HS16



ROTARY INDEXING CHUCK MACHINE MODELS													
Machine Model	Dimensions				Max. Stock Sizes			Hor. Sta.	Ver. Sta.	Index Time	Weight lbs.	Machine Power	Size Unit
	A	B	C	D	Blank	Rnd.	Lgt.						
HS 12	380"	165"	173"	27"	4" cube	1 3/4"	8"	12	6	1.2	18,500	53 HP (AVG.)	25/80 36/100 45/120
HS 16	380"	165"	173"	27"	3" cube	1 3/4"	6"	16	8	1.0	20,000	66 HP (AVG.)	25/80 36/100 45/120