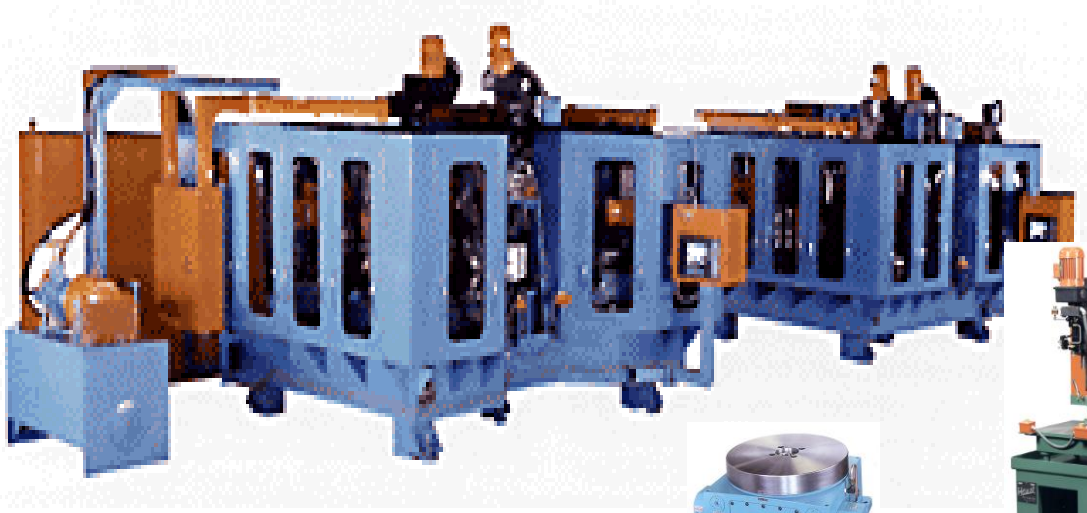
Hause Company History

- In 1933 Ralph Hause and A.C. Brammer formed a partnership and called it “Hause Valve Company” to manufacture valves used in underground oil well equipment. In the following ten-year period, the product line was expanded to include complete oil well pump assemblies with the trademark “Moroil”.
- After the death of A.C. Brammer in 1940, his son Eugene in 1942, and a fire which destroyed the plant in 1943, the manufacture of oil field equipment was discontinued. The plant was partially rebuilt and operated by Ralph Hause as a sole proprietorship, doing production machine work to order. The Hause Valve Company was incorporated in 1947 and continued to expand its facilities for production machine work.
- Development of the present “Holomatic” product line was started in 1952 and a second company “Hause Machines, Inc.” was organized in 1953 and incorporated in 1957 to market this equipment.
- The term “Holomatic” is a registered trade name that identifies the patented power feed unit design principles. These units are used to drive a wide variety of end working tools in manufacturing. The capacity, range and versatility of this concept has made possible the development and sale of complete production machines.
- After the death of Ralph Hause in 1976, Hause Machines, Inc. was owned and operated by eight shareholders. Because a number of these eight shareholders were approaching retirement, they decided to collectively sell their shares and put Hause Machines, Inc. under new ownership.
- In July of 1987, James Smythe of Toledo acquired the majority interest in Hause Machines, Inc. After 18 years of ownership, Mr. Smythe decided to sell the machine tool business and devote more time to his security business.
- In July of 2005, James Fruchey and Robert Brubaker, both existing employees of the company, purchased the assets of Hause Machines, Inc. Under the new ownership the company will continue to operate as Hause Machines to maintain the 74 year history of good quality products at a reasonable price.

Hause Machines - 809 S. Pleasant St. Montpelier, Oh 43543
Phone 419-485-3158 Website: www.hausemachines.com

Hause Machines - capabilities

- DESIGN AND ENGINEERING
- SPECIAL MACHINES
- DESIGNED PER APPLICATION
- SLIDE/SHUTTLE MACHINES
- DIAL INDEX MACHINES
- TRUNION MACHINES
- SINGLE STATION MACHINES
- SINGLE/DOUBLE END
- HORIZONTAL/VERTICAL
- AIR HYDRAULIC DRILLING UNITS: 2”- 10” STROKES
- PNEUMATIC AND HYDRAULIC LEAD SCREW UNITS
- HYDRAULIC AND BALL SCREW SERVO UNITS: 3” – 10” STROKES
- TAPPING UNITS: 2” - 6” STROKES
- LEAD SCREW UNITS: PNEUMATIC, HYDRAULIC AND BALLSCREW



- INDEXERS : VERTICAL AND HORIZONTAL WITH HIGH ACCURACY—HIRTH COUPLED, HYDRAULIC AND SERVO
- MULTIPLE SPINDLE HEADS: FIXED CENTER, ADJUSTABLE AND ECCENTRIC
- MACHINE COMPONETS: BASES, RISERS AND COLUMNS
- FIXTURES AND TOMBSTONES
- DIAL PLATES
- CNC MACHINES: VERTICAL AND LATHE, TOOLED/UNTOOLED

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Machined Parts

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Productions Fixtures (Tombstone)

A total workholding package including concept, design, test, and proven out through manufacturing.

Workholding actuation may be:

- Continuous hydraulic
- Captured oil accumulator built into fixture for cell applications
- Manual
- Pneumatic
- Special applications
- Progressive fixtures
- Broach fixtures
- Applications
- 2, 3, 4 and 5 sided production fixtures
- Collet centralizing fixtures
- Replacement detail part manufacturing

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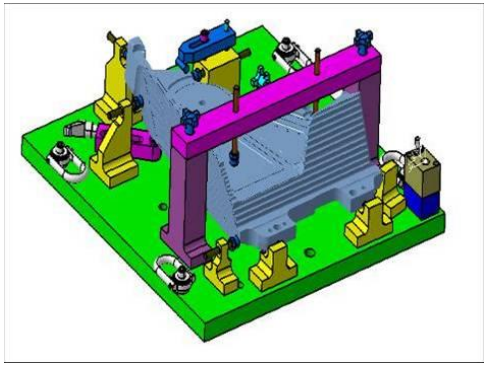
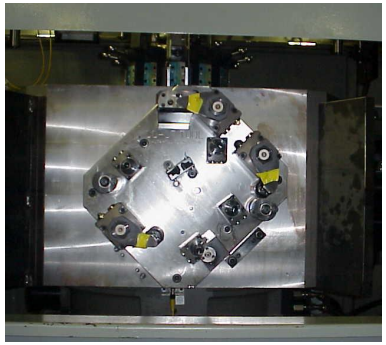
Fixture styles





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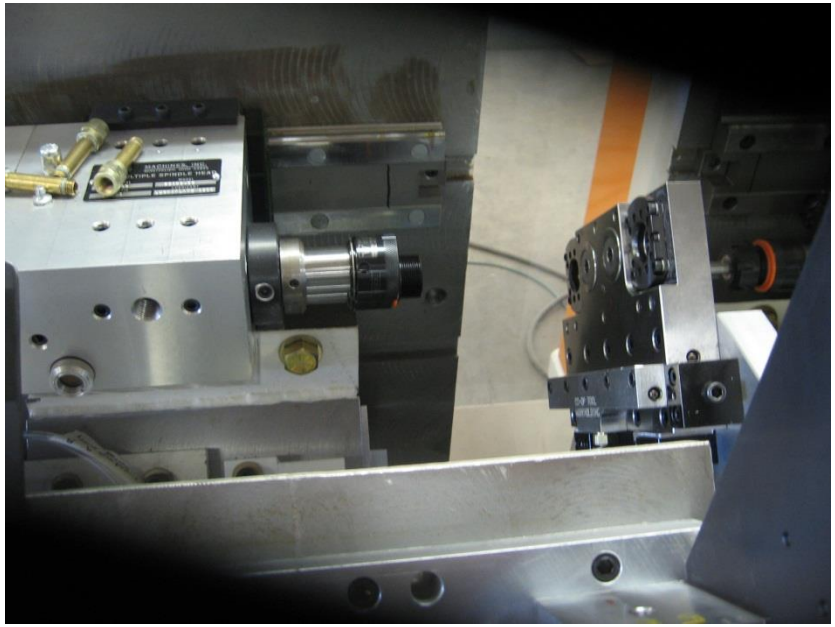
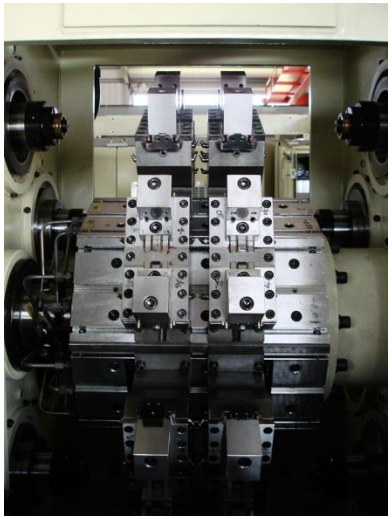
Fixture styles





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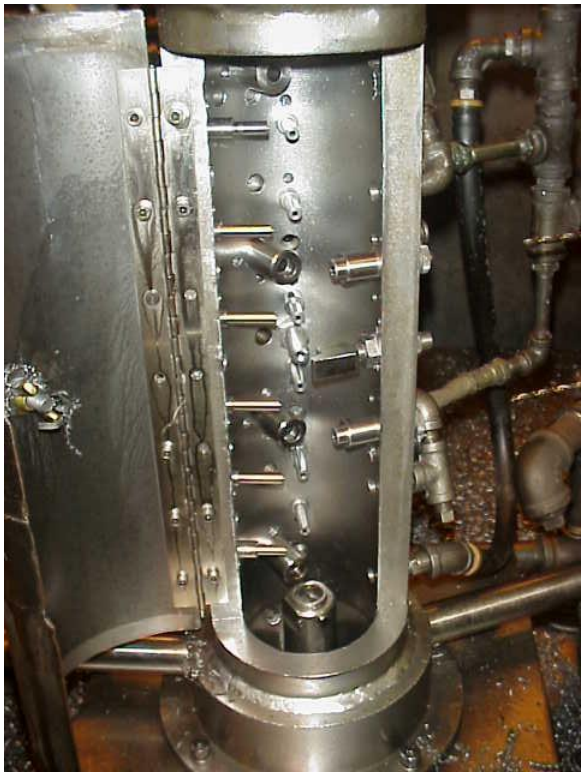
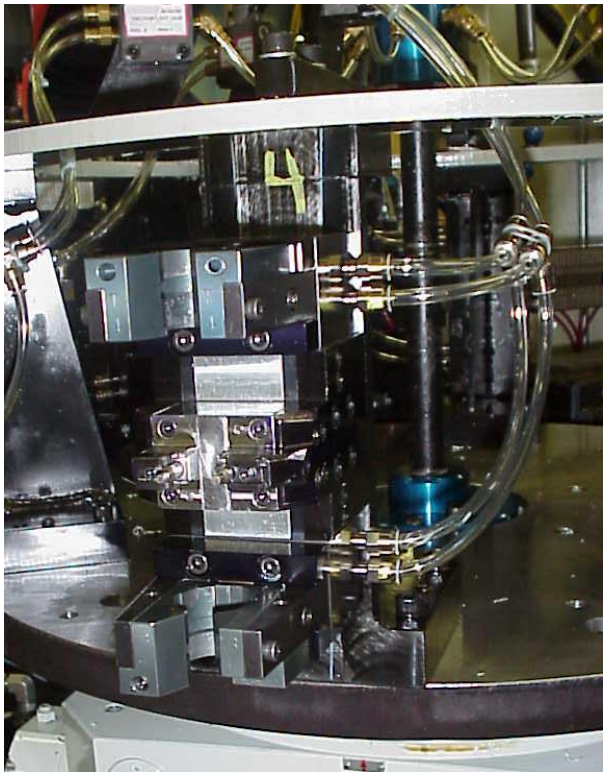
Fixture styles





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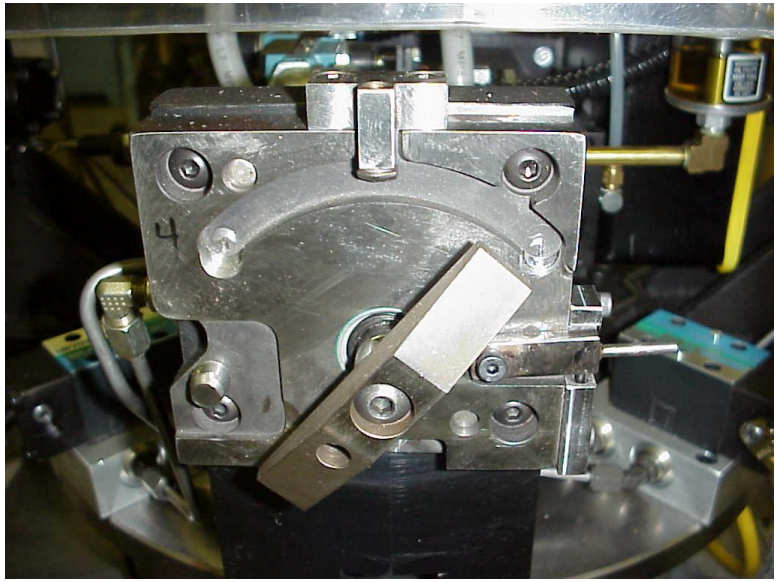
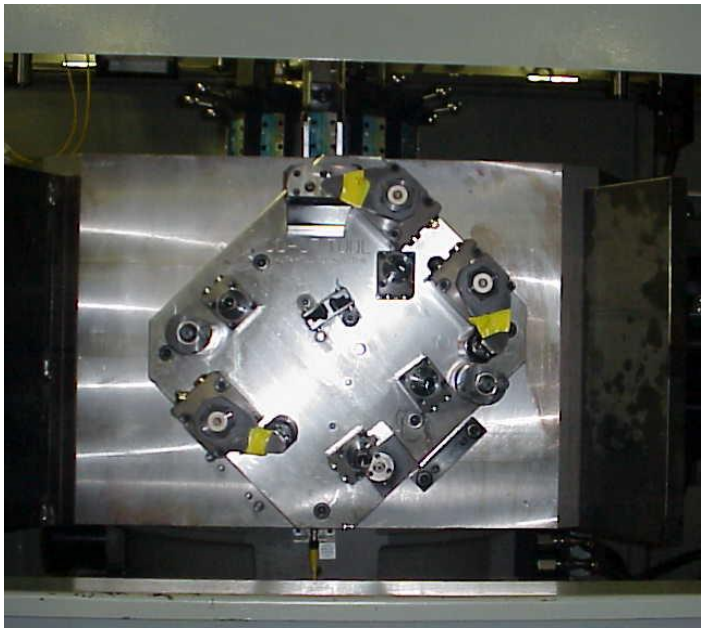
Fixture styles





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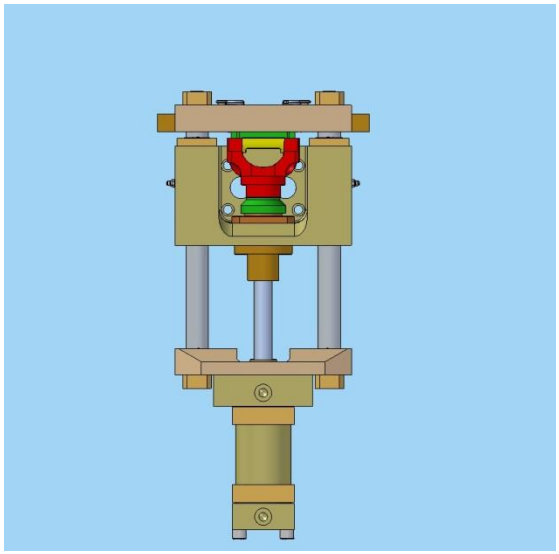
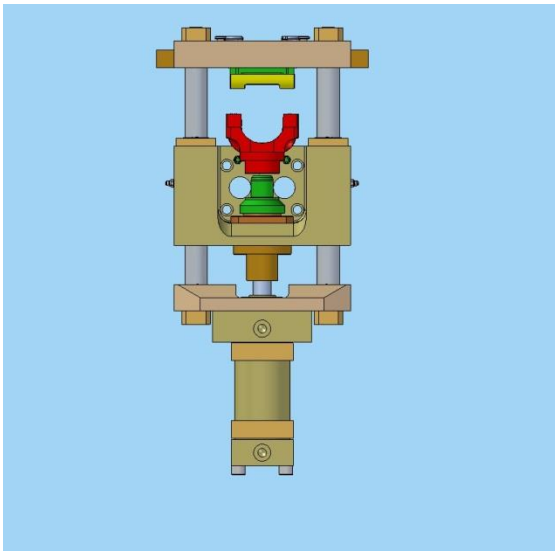
Fixture styles





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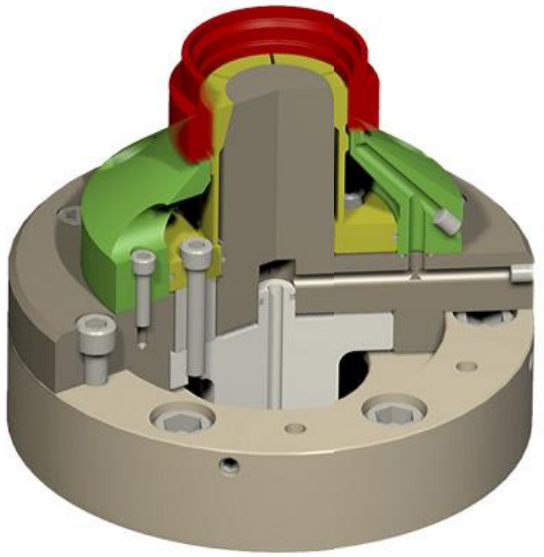
Collet Chuck

- The most common and versatile of all work holding devices offering superior holding power, higher accuracy and engineered for high speed machining applications.
- Designed for applications ranging from "hogging" to grinding.
- Concentricity within 0.0005" T.I.R. or better.
- OD or ID chucking Applications.
- Versatile design adapts to most chucking applications and diameters by changing collets or collet pads.
- Fast changeover.
- Contamination resistant design.
- Increased torque transmission.
- Positive pullback against work stops.
- Self-releasing — preload assures easy part removal.
- Special applications
- Fragile or thin-wall applications
- Designed for automatic loading
- Pullback designs
- Thru-hole designs
- Air blow off of part locators air sensing control on the work stop
- Through chuck coolant multiple collet designs replacement collets designed and built to customer's applications pitch line chucking applications



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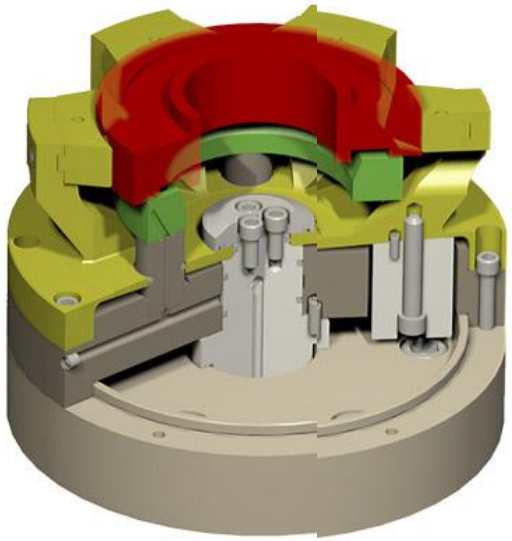
Diaphragm Chuck

- Primarily, a second operation chuck generally used for grinding, boring, facing and light turning applications.
- Designed to grip on pre-machined or precision-cast surfaces.
- Precision to 0.0001" T.I.R.
- Totally sealed, no maintenance design.
- Consistently control concentricity.
- Counter centrifugal design for high speed machining.
- 1-piece high alloy steel diaphragm design.
- Contamination resistant design.
- Replaceable jaw inserts and locators accommodate easy changeover.
- OD or ID chucking applications from 2" to 16" diameter.
- Positive pullback against work stops.
- Machine adapters and mounting hardware custom-made to your needs.
- Special applications
- Fragile or thin-wall applications
- Pitch-line chucking applications
- Quick change tooling air blow off of part locators
- Air sensing control on the work stop
- Through chuck coolant
- Design for automatic loading
- Double diaphragm
- Replacement diaphragm
- Designed and built to customer's application



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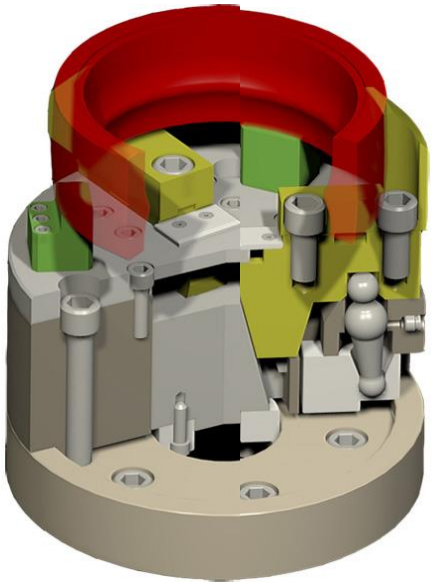
3 Jaw Chuck

- Primarily, a first operation chuck. Superior gripping force permits higher speeds and feeds for optimum machining efficiency.
- Large jaw travel accommodates rough castings and large size variations.
- No pullback.
- Engineered for quick change over.
- OD/ID chucking applications.
- Locators, top jaws, machine adapters and mounting hardware custom-made to your needs.
- Available in 6", 8", 10", 12", 15" or 18" diameters.
- Bore in place jaws.
- Applications
- Quick change tooling
- Counter centrifugal for high speed machining
- Air blow off of part locators
- Air sensing control on the work stop
- Through chuck coolant
- Design for automatic loading
- High/low chucking
- Replaceable carbide grippers in a variety of styles



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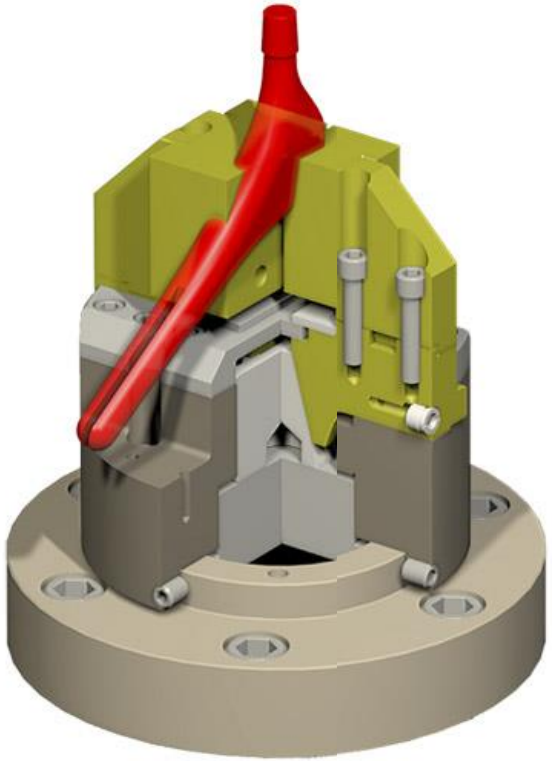
5 Jaw Chuck

- Designed for most CNC cutter grinding applications.
- Repeatability within 0.0002" T.I.R.
- Versatile design adapts to most chucking applications and diameters.
- Fast Changeover.
- Contamination resistant design.
- Available Ranges
- .120" thru .500"
  .180" thru .625"
  .625" thru 1.00"



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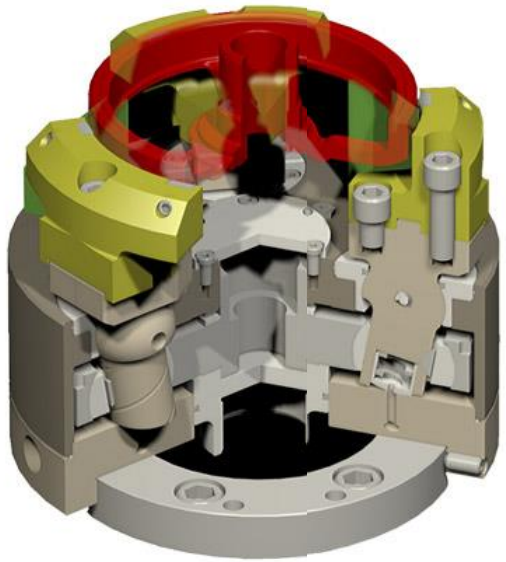
Ball Lock Style

- Primarily, a first operation chuck. Superior gripping force permits higher speeds and feeds for optimum machining efficiency.
- Large jaw travel accommodates rough castings and large size variations.
- Pullback through the entire chucking range.
- Contamination resistant design.
- Engineered for quick change over.
- Converts from OD to ID chucking in minutes.
- Jaw homing device centralizes jaw for part size variations.
- Locators, top jaws, machine adapters and mounting hardware custom-made to your needs.
- Available in 6", 8", 10", 12", 15", and 18" diameters.
- Off-the-shelf availability.
- Special applications
- Compensating design
- Quick change tooling
- Air blow off of part locators air sensing control on the work stop
- Through chuck coolant design for automatic loading
- Pitch-line applications
- High/low chucking
- Replaceable carbide grippers in a variety of styles



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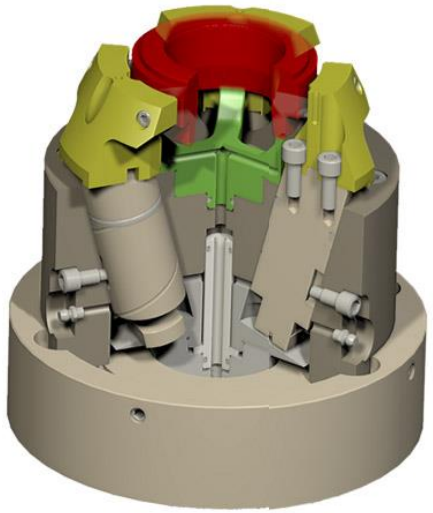
Wedge Grip Style

- Primarily a first operation chuck. Superior gripping force permits higher speeds and feeds for optimum machining efficiency.
- Large jaw travel accommodates rough castings and large size
  variations.
- Maximum Pullback through the entire chucking range.
- Contamination resistant design.
- Locators, Top Jaws, Machine Adapters and mounting hardware
  custom made to your needs.
- Available in sizes up to 18" in diameter
- Virtually un affected by centrifugal force
- Special applications
- Compensating design (2Jaw)
- Quick change tooling
- Air blow off of part locators
- Air sensing control on the work stop
- Through chuck coolant
- Designed for automatic loading
- Pitch-line applications
- High/low chucking
- Replaceable carbide grippers in a variety of styles



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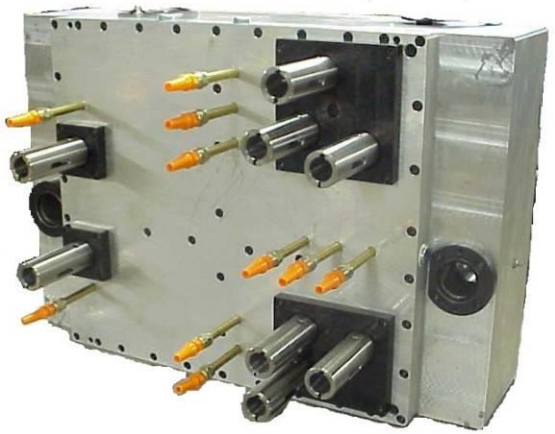
Hause Spindles

Various multiple spindle heads to fit our drilling units as well as other brands.



Multiple spindle heads designed to fit drill presses or other large vertical machines.

160mm boring spindle - SM type

Small heads for CNC machine

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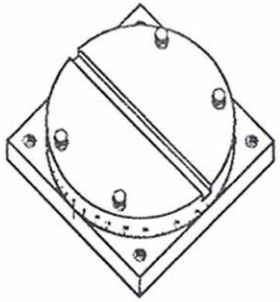
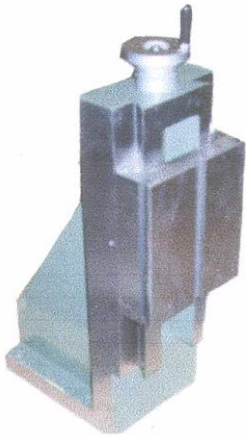
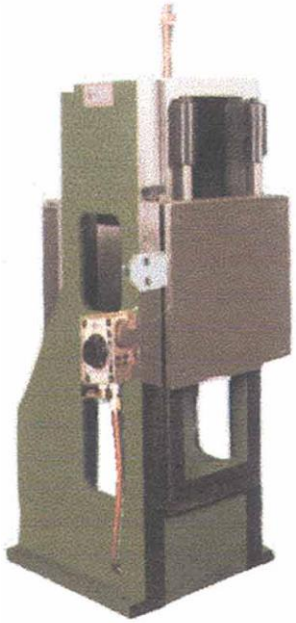
Slide and base options







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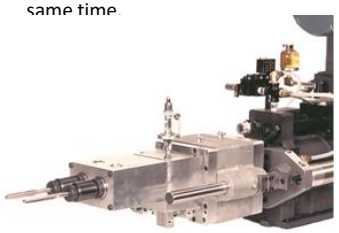
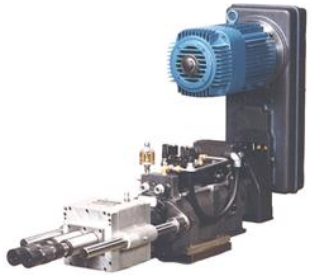
Units, Components and Associated Equipment

Steel housing and internal parts for a three spindle right angle multiple spindle head.

Two spindle fixed center tapping head, tapping two different pitches at the same time.





Model 3496 Lead Screw unit with a two spindle head for tapping 3/8-16 in steel.

Model 2293 Unit for drilling

Model FD15-150 Ballscrew unit for Trunnion machines.

Four spindle, two position indexable head with shot pin locator and bolt secured.

Three spindle, right angle, multiple spindle heads fully assembled. Used for a "back feed" drilling application.

AIR-HYDRAULIC
4" and 6" Stroke

Model 2497 with four spindle, fixed center head, traveling bushing carrier and booster cylinders for additional advance and retract thrust.

- Fully adjustable 6" stroke
- 1-3/8" AA Spindle
- In line shaft drive
- 3 HP 1200 rpm motor
- 5 step pulleys (580-830-1160-1620-2320 rpm's)
- Depth switch
- Full retract interlock switch
- Overhead belt housing (with belt)

HYDRAULIC
4" and 6" Stroke

- Fully adjustable 6" stroke
- 1-1/16" AA Spindle
- In line shaft drive
- 2 HP 1800 rpm motor
- 5 step pulleys (830-1330-1750-2270-3650 rpm's)
- Depth switch
- Full retract interlock switch
- Extended belt housing (with belt)

Model F7N-80 Tapping unit with out belthousing and motor.

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Special Purpose Machines (SPM)

Transmission Part, (2) Cells, (7) Units & Bushing Plates, Drill & Countersink

Steel Hub, (8) Station Trunnion Machine

OD Knurling Brass Nuts, (1.3) Second Cycle Time

Wheel Hub, Double End Drill & Chamfer, Robot Load & Unload

Gantry Pick & Place, (4) Station, (5) Slides Units, Drill & Tap Unit, (4) Multiple Spindle Heads

Ball Hitch, Drill & Chamfer, Magazine Load & Unload

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