

# *Components for Machine Building*

*Power Feed Units*

*Indexers*

*Drill Presses*

*Multiple Spindle Heads*

*Special Components*





# H

ause Machines, Inc. provides a wide range of answers to complex engineering problems. Our customers turn to us for many different types of precision components – our “engineered solutions” – to fulfill their need for productive machines.

At Hause, we understand your need for components that will allow you to produce goods of the highest quality. And to achieve such “manufacturing excellence,” you need components that are accurate, reliable and durable. Components that produce exactly the same required result, time after time.

We know our customers operate in an extremely competitive environment – one in which product quality is an ever-expanding concept – a target that moves higher and higher through continuous improvement programs. That means our components can never be just “good enough.” They have to be capable of top-notch performance, no matter how far up the demands are ramped.

“Engineered solutions for manufacturing excellence” is also a succinct statement of our company’s vision. For us, it’s a constant reminder of our commitment to provide the best solutions, to stay aware of our customers’ needs and to always search for new ways to be of service. It means we don’t rest on proven solutions alone, we strive for continuous improvement ourselves and seek out new technologies that will be of benefit to our customers.

In this brochure, you’ll see a selection of these engineered solutions as well as a complete listing of our component offerings. We believe you’ll find a Hause component to fulfill your exact need. And if you don’t see what you’re looking for here, remember that Hause can custom build many different types of components. Please call us at 1-800-932-8665 to discuss your requirements, or visit our Web site at [www.hausemachines.com](http://www.hausemachines.com).

# *Standard and Custom Components to Fit Your Needs Exactly*

If you're building equipment to drill, tap, chamfer or thread, Hause Machines can help you create a machine that will fulfill your most demanding requirements.

Our vastly expanded product line includes a broad array of components; only a few of which are featured in this overview. And the product line is constantly expanding.

Building on a long tradition of excellence, we've also renewed our commitment to quality, value and service. With product warranties ranging from one year to five years, standard Hause components are available for a wide-range of manufacturing functions. Off-the-shelf type components include:

- Drilling Units
- Tapping Units
- Indexers
- Multiple Spindle Heads
- Drill Presses and Tap Presses
- Special Components: columns, risers and bases

## ***Custom Components***

Although one of our standard components may fulfill your requirements, our experienced engineering group is ready to develop a custom component that will fit your production needs exactly.

We'll draw from a wide-range of proven solutions and new technologies to solve your problems and increase your productivity.

## ***Visit Hause Machines on the Web***

To see our full line of engineered solutions – and to learn more about how Hause can help you solve manufacturing problems – please visit our home on the Worldwide Web. The Web site is an exciting development at Hause. We are using it for rapid communication with customers, troubleshooting, electronic commerce and more. Come see what Hause can do for you at [www.hausemachines.com](http://www.hausemachines.com).



# Power Feed Units

## Quill Feed Units For Manufacturing

Hause Machines offers power feed units for a variety of machining applications including drilling, reaming, tapping, threading, facing, chamfering, thread rolling, boring, and counterboring. Machined materials include steel, aluminum, magnesium, cast iron, wood, plastics, glass, and a range of others. Extensive testing assures customers many years of high quality machining and trouble-free unit life.



Model 6629 Servo Hydraulic Unit



Model FD55-80 Pneumatic Drilling Unit



Model 2427 Air Hydraulic Unit

## Pneumatic Drilling Units

- High Speed Drilling
- Small Diameter Holes
- Optional Spindle RPM
- Optional Spindle noses
- 1" or 2" feed stroke
- Up to 4" total stroke
- Various motor mounting configurations
- Up to 2 HP

Front and rear spindle bearings give these drilling units extra support. These machines are long lived, low cost, off-the-shelf drilling units with a one (1) year full warranty.

## Air Hydraulic Drilling Units

- Up to 7500 rpm
- Pressure Compensating Feed Valves
- Positive stop is concentric to spindle centerline
- 0 to 10" stroke and 0 to 10" of feed
- Digital readout stroke control
- Rapid advance and retract available
- Up to 5 HP

Fully customizable end working units can be used in almost any application. Thousands of options including dual feed for drill-tapping or drill-reaming, skip feed, retract feed, spindle support for heavy tools, and gear reductions, and yoke operators. These machines are the highest quality power feed units and come complete with a five (5) year limited warranty.

## Hydraulic Drilling Units

- High RPM applications available
- Pressure Compensating Feed Valves available in certain models
- Up to 10" of stroke
- Digital readout stroke control available in certain models
- Up to 10 HP (application dependent)
- Various off-the-shelf units available with various spindle and motor mounting configurations
- Fully customizable units available with a wide variety of options including gear reductions, dual feed, multi-spindle head adaptations, and a five (5) year limited warranty
- Servo hydraulic quill units available with AC, DC, or servo controlled spindle motors available

Heavy-duty power feed units rugged enough to withstand the harshest of environments. These units are available with high-torque spindles and use hydraulic thrust for the most demanding applications.

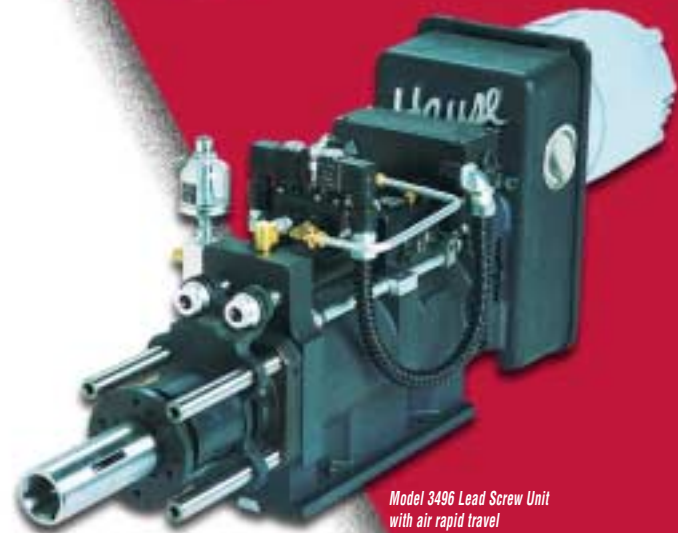


Model 6615 with support bracket and piloted slot spindle

## Lead Screw Tapping Units

- Standard and high-torque models available
- High precision tapping
- Over-torque protection available in certain models
- No-hole protection available in certain models
- Air or hydraulic rapid advance available
- Various motor mounting configurations and drives available
- Many spindle options including piloted slot spindles for multiple spindle head applications

Off-the-shelf units range up to 2" diameter tapping in steel. These units can run either vertical or horizontal, and a one (1) year warranty is available. Fully customizable units have easily changed leadscrews, step-pulleys, and gear reduction options. A five (5) year limited warranty is available.



Model 3496 Lead Screw Unit with air rapid travel

## Servo Controlled Ballscrew Units

- Up to 4500# of thrust
- Up to 35 IPS rapid travel speeds
- Programmable for almost any application
- Peck feed, drap, tap, drill, ream, skip feed, etc.
- AC, DC, and Servo motor available on the spindle motor

Reprogram with the touch of a button. The latest in Servo technology. No more setting switches for peck drilling, no more changing leadscrews when changing tap sizes. We offer a complete control package for these units.



Model 8701 Ball Screw Feed Unit

# Indexers

## Vertical Hydraulic Index Tables

- Hirth Coupled with  $\pm 5$  arc sec accuracy
- Heavy Duty - carries large, heavy fixtures
- Hydraulic Powered
- "Non-lifting" dial plate
- Less than .0004" table run out
- Electric powered version available
- Tailstocks are available

These high precision indexers are perfect for most trunnion and carousel type machines. Their heavy load capacity and "non-lifting" tabletop make them even more enticing. The interlocking three-piece gear increases the accuracy of these tables the longer they are used.

## Horizontal Hydraulic Index Tables

- Hirth coupled with  $\pm 5$  arc sec repeatability
- "Non-lifting" dial plate
- Standard 4,6,8,10 and 12 station indexers
- 2,3,5 and other specials available
- Sealed housing keeps coolant out of the oil and away from the switches

These heavy-duty indexers feature a "non-lifting" tabletop that allows them extra capacity. The interlocking three-piece gear increases repeatability with use and makes them perfect for precision machine tools. Hydraulic power packs are available for operating these indexers. Electrical versions are also available.

# Drill and Tap Presses

## Drill Presses

- Manual, semi-automatic, and automatic models
- Air-hydraulic and hydraulic models available
- 1 HP to 3 HP
- Bench models or standard 72" height available
- Adaptable for multi-spindle heads
- Base, coolant, and shielding packages also available
- Available with peck feed and skip feed

These drilling presses are ideal for lower volume applications or for a variety of applications where changeover occurs often. They can be used as flexible, stand-alone, machine systems or tooled and fixtured for short production runs. A small PLC can be incorporated into some models. Multiple presses can be mounted to a common base for a dedicated "cell".

## Tapping Presses

- Variable Speeds
- Gear fed version available
- Up to 1 1/4" in steel capacity
- Up to 5" of stroke
- Up to 2 HP motors
- Base, coolant, and shielding packages available

Adjustable spindle heights and large capacity make these tapping presses ideal for small production runs or easily changed machines. Up to 23" of throat area is available for fixturing and part position.



Model CT-250V Vertical Indexer



Model CT-340 Horizontal Indexer



Model HD-PAM 750  
Hydraulic Drill Press with Base

Model HD-25 Manual Drill Press

# Multiple Spindle Heads

## Basic Fixed And Adjustable Heads

- Eccentric and adjustable heads
- Gear and universal joint drives available
- Fixed center, custom built heads available
- Adaptable to most drilling units, drill and tap presses, and CNC machines
- Variety of spindles including collets, Jacob's tapers, and adjustable adapters
- Floating spindle adapters available
- Up to 6000-rpm spindle speed available

Whatever your application, we have a multiple spindle head to suit. Guide rod supported, or simply attached to a drill press, these multiple spindle heads are perfect wherever multiple holes need to be drilled. The cast housings and internal lubrication make these multiple spindle heads rugged enough for most applications.

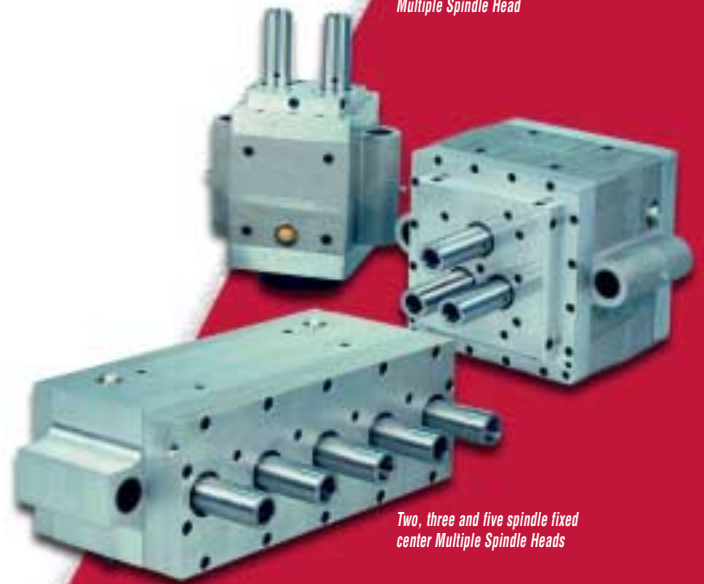


Four spindle adjustable Multiple Spindle Head

## Automotive Quality Heads

- .001 c/c positioning on the spindles
- Extra heavy duty with larger bearings and bigger spindles
- Spindle choices for a variety of tool holders
- Internal coolant passages for maintaining temperature
- Spindles are ground to close tolerances from hardened alloy materials
- Precision ball bearings or needle bearings
- Large diameter extended bushing guide rods when required
- Foot-mounted version available for mounting to slides
- Grease or oil lubrication available (application dependent)

The Hause reputation for quality and long life is the foundation for these multiple spindle heads. Only the highest machine tool standards are maintained for every unit designed and constructed. Whether machined from aircraft quality aluminum, steel, or from our castings, these heads are used where precision, repeatability, and dependability are necessary.



Two, three and five spindle fixed center Multiple Spindle Heads

# Special Components

## Bases, Risers, Columns, and Sub-Bases

- Standard risers and columns for use with our line of power feed units
- Specific application welded risers and columns available
- Engineered for the optimum in rigidity and quality
- Standard and specially designed machine bases available
- Adjustable columns and risers available
- Basic unfixtured and untooled machines available with control package

The foundation of every good machine is a good structure. Hause Machines offers both standard machine building components and specific design for the application machine components. From a basic double-ended machine to a large 10 station rotary dial machine, Hause Machines can provide you with all of the components required for a high quality, long lasting machine tool.



Standard and special design columns, risers and weldments



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