



FOR OVER SEVENTY YEARS,
WORKHOLDING YOU CAN TRUST.



AHB
TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS
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2018
ALL PRODUCTS FLYER

Workholding You Can Trust.

Variety and Versatility

Our work holding equipment is versatile and ideal for turning, drilling and milling operations, gear cutting and finishing, balancing, inspection equipment, and many uses on fixtures and tombstones.

Our standard lines offer in stock chucks, collets, mandrels, actuators, adapters, drivers, and pins for immediate delivery. Many applications can be fully accommodated using our off-the-shelf standard items.

Our engineers will custom-design solutions for your special workholding applications and have a multitude of existing drawings available for your review.

SPEEDGRIP CHUCK: Internal and external gripping collet chucks, diaphragm chucks, finger chucks. From a simple mandrel to a complex hydraulic collet-clamp fixture, we are your source for special workholding.

CAMERON: Internal and external hydraulic chucks and arbors with our internal expanding collet systems from our Sabertooth line.

MADISON FACE DRIVER: Hydra-Drive line for extreme accuracy requirements is perfect for grinding, gear hobbing / grinding, and hard turning. Madison also has a large selection of standard drivers and pins as well as special design face drivers.

Standard External Collet Chuck

Our standard external collet chuck has been designed to offer a vast range of options. Speedgrip standard external collet chucks are available in stock for diameters from .750" up to 6.50" and feature:

- Quick-Change Collets
- One Piece Collet Design
- Greater Part Diameter Ranges
- Collets easily resized / modified
- Greater Collet Gripping Range – Up to .080"
- Easily Adapts to Multiple Draw Tube Sizes
- Easily Adapts to Different Spindle Types
- Two Different Workstop Locations



Speedgrip Standard Products

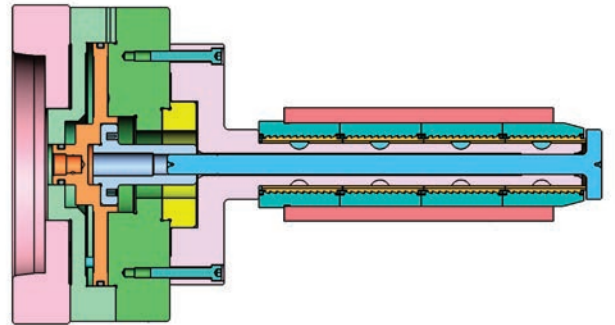
Quality crafted, cost efficient, and capable, Speedgrip Chuck has been in the business of manufacturing everything from a simple mandrel to complex hydraulic collet-clamp fixtures for over seventy years. Although we have often been copied, we have not been equaled in the quality, cost efficiency or capability that our mechanisms offer to customers.

- Standard repetitive tolerances of .0005" T.I.R. Guaranteed
- Perfect for internal and external close tolerance work when turning, milling, drilling, hobbing, grinding and inspection.
- Available in pull-back and dead length options
- Internal in stock diameters from .500" up to 14.00"
- Standard external collet chucks in stock for diameters from .750" up to 6.50"
- Quick change collets
- Adapter options (A-2 5", 6", 8", & 11") are in stock



Speedgrip Sabertooth

Sabertooth Expanding Mandrels are available in several variations to suit the specific need of almost every application. Mandrels can be actuated manually, using the draw bar or drawtube of the machine or by utilizing our own self-contained actuator assembly. Our Sabertooth Mandrels are designed and built with the following features that make Sabertooth the logical choice when applying an internal expanding mandrel in your operation:



- Standard tolerances of .0008" T.I.R.
- Provides uniform expansion and eliminates bridging effect by using 96 pressure planes per linear inch of sleeve travel.
- Ideal for machining of thin walled parts since the expanding sleeve is supported the entire gripping length.
- Unlike single or double taper collet systems parts can be securely gripped anywhere on the sleeve without the need of a retainer ring.
- Our drive cage provides superior anti-rotation protection, by equalizing the torque transfer, superior to other systems which use a woodruff key to lock the expander.
- "In stock" for quick delivery.
- Special multi-collet designs available
- Accidental over-expansion is eliminated by our built-in safety features.
- Double-length Sabertooth mandrels are able to accommodate various part lengths by using one mandrel with a combination of sleeves, bushings and spacers.

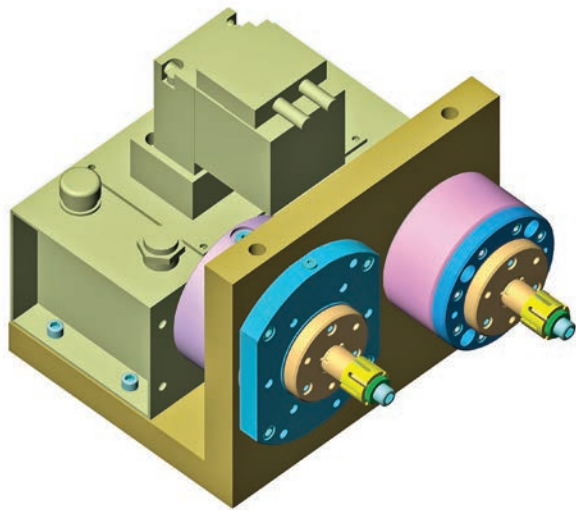
Madison Face Driver

Complete O.D. Machining in one Operation

Hydra-Drive This unique design guarantees .0002" T.I.R. by combining the quality and innovation of our Madison Face Driver with a Cameron hydraulic chuck. HydraDrive, with the ability to handle greater side loads, is perfect for grinding, gear hobbing/grinding, and hard turning operations.

Our standard Madison Face Driver is the most economical domestic manufacturer of standard and special face driving centers. Face drivers locate a shaft type part between centers and hold the part in place by utilizing several knife edge drive pins.

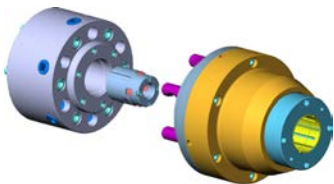
The Max-Life® Drive Pins developed by Madison Face Driver, are engineered and manufactured using an all new concept that is unique to Madison drive pins. They are proven to be the longest lasting drive pins on the market today.



Mini Actuator

The "mini actuator" is a powerful actuator with the holding power of a conventional actuator in nearly half the space. At only 4½ diameter, the actuator provides chucking forces for our standard chucks and many custom designs.

Recesses completely into a fixture, tombstone, or pallet and all actuation & release ports are accessible from inside or backside.



Quick Change Adapter/ Jaw Chuck Adapter

Shorter part runs and just in time inventory has created the need for versatility and quick change over with minimal downtime. Our quick-change mechanism utilizes taper to taper contact and a simple Cam-loc clamping mechanism.

Our unique jaw chuck adapter system converts your Kitagawa or other 3 jaw chucks into an internal mandrel setup. Easily converts to a manually actuated mandrel or using the machine draw tube with a simple modification.

Push-On Inspection Arbors



Designed for inspection applications the Push-On Arbor is an economical, durable, and accurate chucking mechanism. The simplicity of its construction provides a greater measure of accuracy at a lower cost. The piece part is simply pushed onto the arbor and gripped by its own inherent forces. There are no actuating components and therefore not subject to influences from cylinder or wrench tightening forces.

Cameron Hydraulic Chucks & Arbors

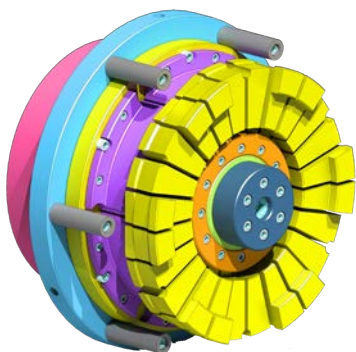


Unlike most hydraulic arbors, our unique adjusting screw feature gives the user the ability to easily re-charge the system, saving critical down time. Standard Tolerances of .0002" T.I.R. Completely repairable if damaged or worn. Can be actuated manually using machine drawbar, and/or external hydraulic source.

Unusual Flexibility : Positive Oil Retention Durability and Accuracy for Rough Machining to final inspection.

Speedgrip "Finger" Chuck

The finger chuck is engineered to conform to the part rather than the part taking on the form of the workholding as most conventional chucks do.



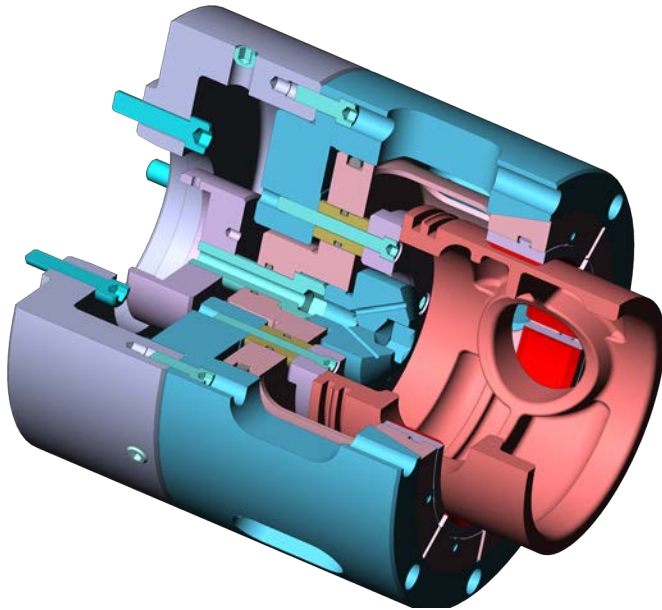
Although a chuck cannot truly be 100% distortion free the Speedgrip "Finger" Chuck is an amazing solution for meeting the ever increasing need for distortion reducing workholding.



- Merges the attributes of a diaphragm and collet chuck
- One piece "flex" plate provides excellent concentricity and repeatability
- 360 degree wrap for ultimate part support
- Individual fingers for contour compensation
- Engineered to hold with "just the right amount" of pressure for machining operation
- Perfect for thin walled parts.

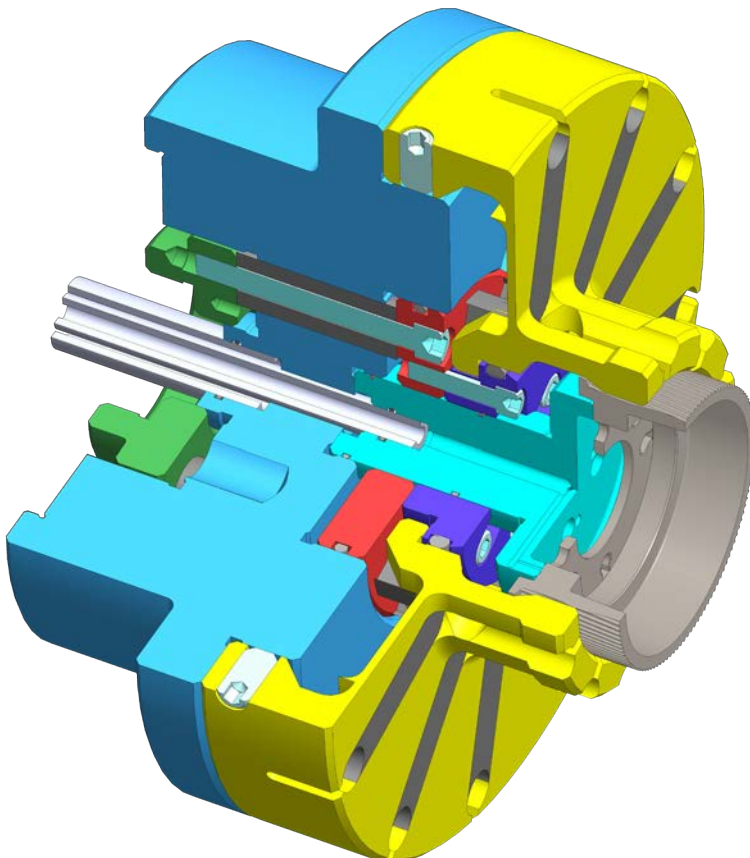
Custom Design & Build Workholding

External collet chuck, drawtube actuation.



The workpiece is a piston for large heavy duty trucks. Gripping on the OD of the workpiece. The collet has inserts that can be changed for various piston OD's coolant is introduced thru the center to help flush out chips.

External finger collet, drawtube actuation.

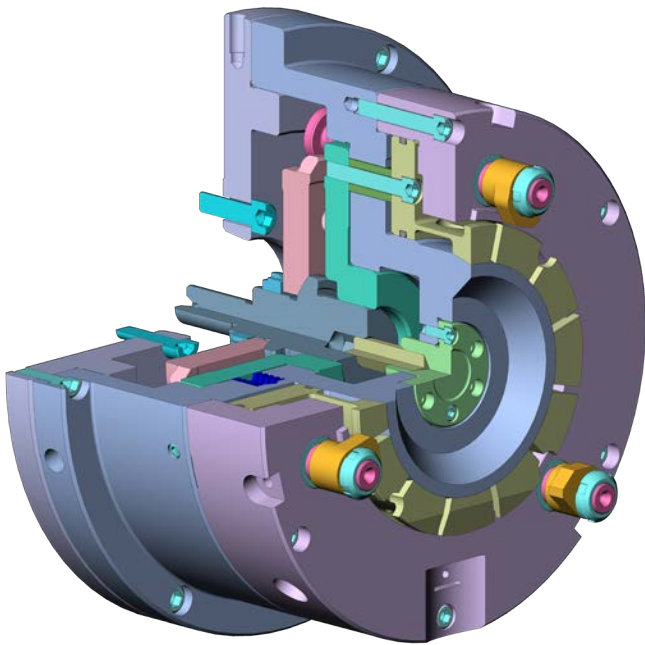


The workpiece is for the automotive industry. The part is not round, and can't be distorted during the chucking process.

Coolant is introduced thru the center to help flush out chips, along with air confirmation for part detection.

Custom Design & Build Workholding

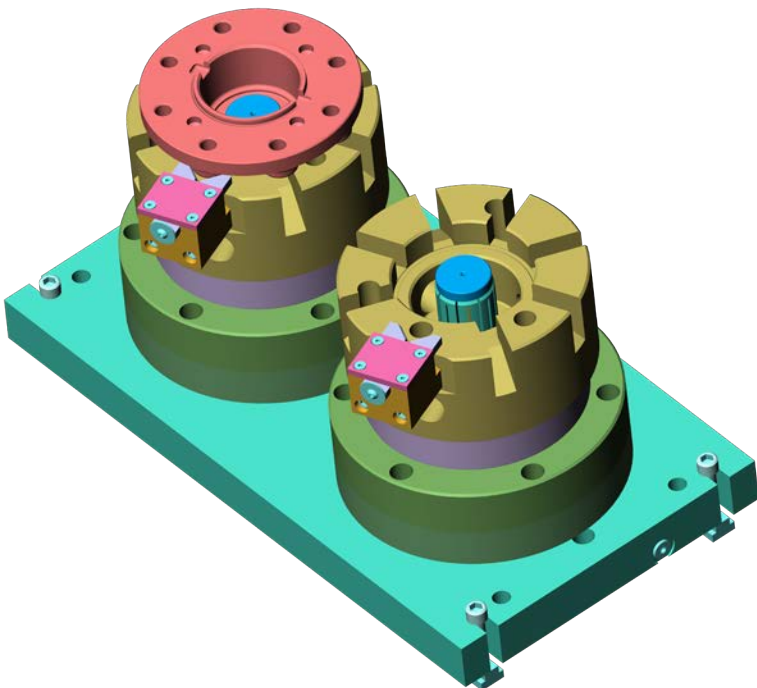
Internal collet chuck with external swing clamps.



This chuck was built to hold a workpiece for the appliance industry. The internal collet is spring actuated, and the swing clamps are actuated by the machines drawbar.

The actuation of the chuck is timed so the collet grips the workpiece then the swing clamps contact on the parts flange.

Internal expanding mandrel, spring actuation, air release.



The workpiece is for the automotive industry. The collet grips on the ID of the part and radially locates externally on a cast boss.

The operation is to drill and tap holes in the part flange. Angular evacuation slots help flow the chips outward of the mandrel.

Workholding You Can Trust.

Speedgrip Chuck Company Delivers Premier Engineered Workholding Solutions For Manufacturers.

Our products deliver the highest levels of quality and productivity for customers in every industry where metal cutting is a part of the manufacturing process. Our highly qualified and solution oriented engineering staff designs solutions which hold tight tolerances, help you make the best parts, and deliver efficiency to the manufacturing floor.

All Speedgrip products are produced in our 43,000 square foot facilities in Elkhart, Indiana. We offer responsive delivery schedules and we strive to deliver 95% of all orders on or before the promised date. Speedgrip's commitment to quality and customer service is unmatched.

A Letter from the President

At Speedgrip Chuck Company, we want to be a valued partner in delivering the highest possible level of quality and efficiency to your manufacturing operations. Our engineered solutions are made to fit the specific requirements of your operations.

Speedgrip workholding products provide gripping solutions which guarantee that parts are made right every time. Our solutions minimize set-up and change-over time, reducing costs and improving productivity.

Our experienced staff has many years of experience and they are truly dedicated to our customers. We work hard to deliver your order on time and as designed. If there is a problem, we will fix it quickly. Your satisfaction is our most important objective.

Thank you for your interest in our products. We look forward to showing you why the largest manufacturers in North America rely on Speedgrip Chuck Company.

Sincerely,

Kevin Snyder

Kevin Snyder, President

