



TOOL & MANUFACTURING

5005 County Rd. 29 ♦ Auburn, IN 46706

o: 260.925.2128 w: www.rathburntool.com

CUSTOMER SOLUTIONS: #14 HELPING CUSTOMERS DEVELOP A STRATEGIC ADVANTAGE.

We were helping a long-time customer produce clutch brakes for transmissions in heavy trucks using a one-piece, stamped design they developed in-house. That particular design required removal of the entire transmission to replace the clutch brake.



WE THOUGHT ABOUT HOW THESE PARTS ARE USED.

While pretty typical for the industry at that time, we saw an opportunity to improve our customer’s product for their end user. We worked closely with the customer to design and patent a two-piece, bolted assembly, made from cast aluminum. It was challenging because the difference in materials required us to change the part dimensions and balance its weight vs. strength. Ultimately, the manufacturing process included precision CNC milling, assembly, sanding, facing (requiring an outside bonding process), final inspection and retail packaging. To make the part efficiently, we invested in the design and creation of custom mold and trim die.

OUR INGENUITY GAVE OUR CUSTOMER AN ADVANTAGE.

Our creative solution simplified the process for replacing the part which would save the end user hours of maintenance and replacement time. Our wide-ranging capabilities enabled our customer to purchase and distribute a retail ready part. Bringing that part to market gave them a strategic advantage and strengthened our relationship, which is still going strong more than 25 years later. That’s what it’s like to partner with Rathburn.

Visit our plant in Auburn, Indiana and see for yourself how for 35+ years, we’ve used the latest technology while applying ingenuity and consistent quality standards to produce an experience our customers call “hard to believe”.





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EQUIPMENT & FACILITIES

CNC TURNING CENTERS:

(1) Hyundai 2 Axis L280

- Maximum Turning Diameter: 16.14"
- Maximum Thru Spindle: 3"

(1) Takisawa TCN-2100G L3

- Diameter Thru Spindle: 2"
- Maximum Turning Diameter: 11.81"
- Box Slide Way X Z

(2) Takisawa TCN-2600L6

- Diameter Thru Spindle: 2.9"
- Maximum Turning Diameter: 16"
- Box Slide Way X Z

CNC MILLING CENTERS:

(4) Mazak 410A Nexus

- 4th Axis Head Index
- Axis Travel: x = 30" Y = 16" Z = 20"
- SMW 175 4th Axis Rotary Head

(3) Brother TC-S2D

- 4th Axis Head Index
- Axis Travel:
x = 19.7" Y = 15.7" Z = 11.8"
- Independent Full 4th Axis Rotary Head

(1) Brother TC-S2D

- Axis Travel:
x = 19.7" Y = 15.7" Z = 11.8"

OTHER TECHNOLOGY

ROBOTICS:

(4) Motoman NX100 Robots

CUSTOMIZED AUTOMATION:

(2) Multispindle Torque Machine

(2) Multispindle Drill & Tap with autoloader

(1) Takisawa TM-4000Y2

- Diameter thru Spindle: 3.7" (3.23" Max. Bar Capacity)
- Maximum Turning Diameter: 10"
- 12-Station Milling Turret, upper & lower
- High Rigid Box Type Slide Way
- LNS Sprint S3 Barfeeder

(1) Citizen Swiss Cincom L32 VIII

- 3 Station Modular Tooling Unit
- Live Face 3-front / 3-back
- Low Frequency Vibration
- CAV32-CAV32LE Cincom Magazine Barloader

(2) Amera Seiki TC-2L

- Diameter Thru Spindle: 2"
- Maximum Turning Diameter: 13"
- Programmable Tail Stock

(1) Brother S700X1

- Axis Travel:
X=27.5" Y=15.75" Z=11.8"

(1) Brother S500X1

- 4th Axis Head Index
- Axis Travel:
X=19.68" Y=15.75" Z=11.8"

(1) Mazak 640M VTC160B

- Axis Travel: X=44" Y=16" Z=22"

(1) Hyundai-Kia VX500 Vertical

- 4th Axis Head Index
- Axis Travel: x = 40" Y = 20" Z = 20"

(1) Autoloader sorting/ Weighting Machine with Auto Paint Marker

(1) Autoloader Laser Checker For Lathes

SAWING EQUIPMENT:

(2) Hy-Mech H12 Band Saw

- Capacity: 12" x 12" / 12" round

(1) Mazak Quick Turn 250 HP

- Diameter Thru Spindle: 3.15"
- Maximum Turning Diameter: 10"
- Maximum Swing: 17.3"
- Maximum Bar Diameter: 2-3/4" (3" w/ bore chuck)

(2) Takisawa TC-203J &

(2) Takisawa TC-203JG

- Diameter Thru Spindle: 2"
- Maximum Turning Diameter: 11.81"
- Box Slide Way X Z

(1) Citizen Swiss A32 VIII PL

- Maximum Turning Diameter: 1-1/4"
- C332 barloader

(1) Fadal VMC 2216FX

- 4th Axis Head Index
- Axis Travel: X=30" Y=16" Z=20"
- 8,000 RPM 22 HP

(1) Kent KVR-2418

- Axis Travel:
X=24.01" Y=18.11" Z=18.89"
- Spindle Taper

(4) Kitamura 3XD

- 12000 RPM Spindle Speed
- Axis Travel: X=30" Y=30" Z=20"

METROLOGY:

(1) Mitutoyo B-231 Manual CMM

(1) Hexagon Global S Green 710.7 DCC CMM