



CLASSIC TOOL AND DIE INC.

Building Tomorrows Tooling Technology

Like great masterpieces, Classic Tool & Die's design and build solutions are perfectly balanced creations of innovation and inspiration, empowered by exceptional skill, vision and artistry of a great manufacturer.

Dedicated engineers, accredited with years of experience in the field of die design, plan the development of your tools. Optimizing material usage, minimizing maintenance and eliminating all customers' concerns of running high volume dies, is our area of expertise.

Specializing in progressive, transfer and line dies, Classic Tool & Die Inc. utilize CAD/CAM precision machining with a variety of try-out presses to serve the local auto industry in Ontario and Mid-Eastern U.S.A. Skilled tradesmen program and operate advanced machinery such as Wire-Cut EDMs and Parpas CNC mills, aiding in their manufacture of quality tools, dies, and prototypes. Using the latest in simulation software technology for reverse engineering, Classic Tool & Die Inc. reproduces parts directly from customer's samples or CAD data.

A comprehensive quality control inspection is carried out during the entire manufacturing process, because at Classic, we are committed to exceed the expectations of our most fastidious customers. This commitment has rewarded us with a trail of successes from our inception in 1978 and continues to encourage us to maintain this dedication today.

Creative Ideas ***** Powerful Solutions ***** Excellent Results



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CLASSIC TOOL & DIE INC.

2325 Olympia Dr. - Oldcastle, Ont. Canada - N0R 1L0
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1500 T Danly Stamping Press Available for die try-out

Press Specs:

| | |
|----------------------------|------------|
| Capacity | 1500 tons |
| Bed size | 96" x 212" |
| Strokes / minute | 6 - 20 |
| Shut height | 80" |
| Stroke | 36" |
| Rolling bolster | |
| Inching motor for spotting | |

Feeder Specs:

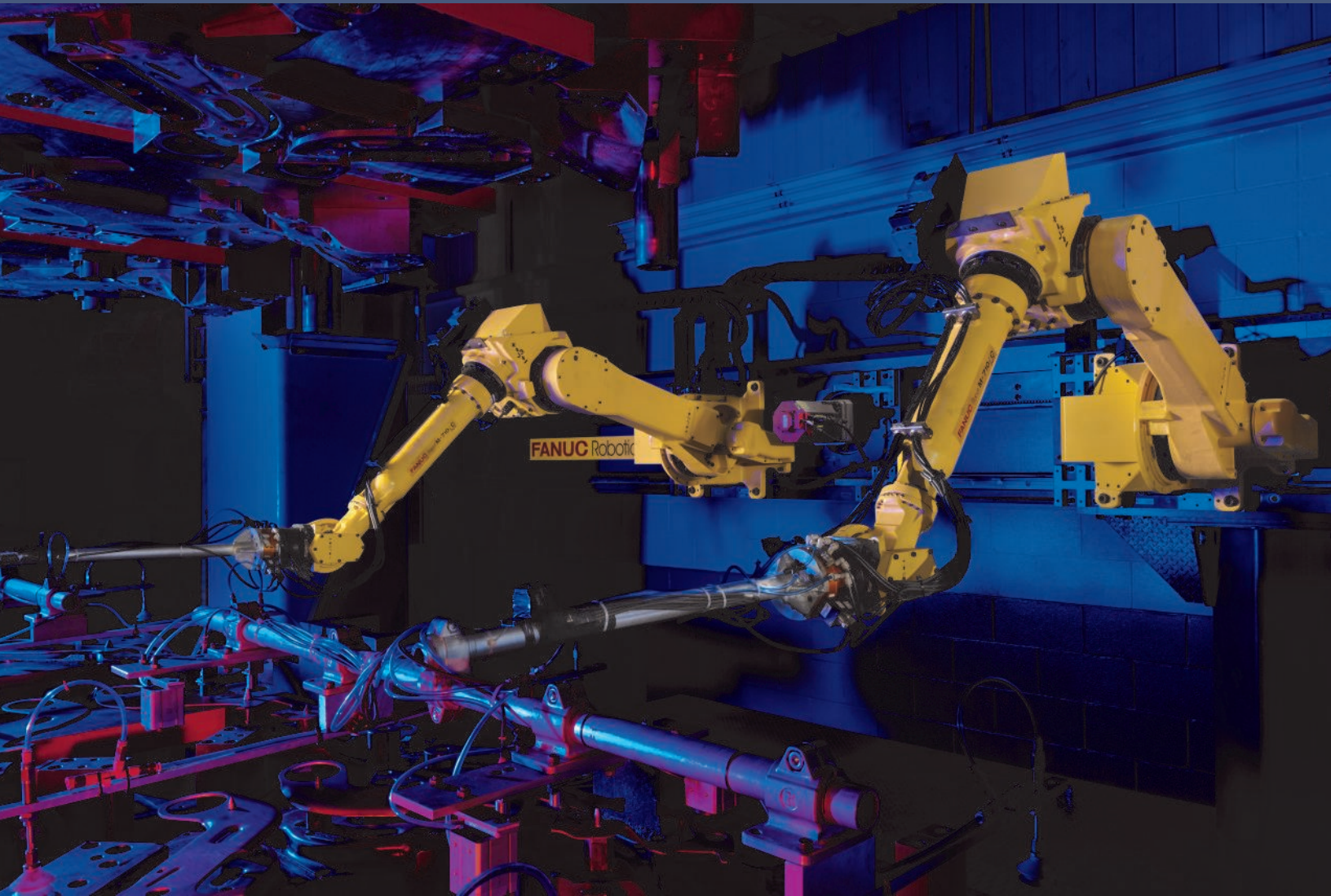
Dallas 72" x 0.150" feeder
Egan 48" 20,000 lb Decoiler

For further information contact:
Adriano Oppio
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Production Stamping *Dual robotic transfer system*



As a value-added service, CTD offers stamping for low-volume part production utilizing your existing tooling or as a complete tool build-to-production solution. If you require a few hundred or a few thousand parts, CTD has established procedures to run production quickly and efficiently.

We work in conjunction with your company to develop a plan that is mutually beneficial, and economical keeping the higher costs associated with low-volume production to a minimum.

Line Dies / Low Volume / Service Parts / Emergency Runs / Special Requirements



www.classic-tool.com

WIRE CUT EDM SERVICE

Classic Tool & Die Inc. is not just a preferred metal stamping die supplier, but also a valuable source for customers with Wire-Cut EDM needs. In 1984, Classic Tool & Die pioneered wire cut EDM service in Southern Ontario. Today, more than ever, we understand the demands you face to produce larger and more complex components. Classic, the most experienced in EDM wire cutting, can accommodate your oversized work pieces, using machines with the largest cutting capacity available in North America. Don't let your customers' larger tooling requests limit your options to conventional machining. Call us for solutions. We offer the largest Wire EDM capacity to meet tomorrow's challenges today:

- **DIES**
- **MOLDS**
- **DETAILS**
- **PROTOTYPES**
- **LOW / HIGH VOLUME PARTS PRODUCTION**

Give us any work piece of conductive material, soft or hardened, including carbide and titanium, and let us put our system to work for you. With the best technology to cut material in two or four axis with a Z height of up to 20", the possibilities are endless. We can generate cutter paths from customer CAD data, print, or your part may be digitized from a sample. Give us your biggest, we'll give you our best.

| Machine Type | Hitachi 8Q | Charmilles Robofil 690 | Elox P series |
|--------------------|------------------------|------------------------|--------------------|
| Maximum Work Piece | X-60" Y-41" Z-20" | X-54.5" Y-39.5" Z-16" | X-25" Y-30" Z-8" |
| Table Stroke | 39.375" x 31.5" | 39.375" x 31.5" | 14" x 10" |
| Maximum Weight | 4,600 lbs. | 4,410 lbs. | 352 lbs. |
| Maximum Taper | Over 7.875" +/- 12 deg | Over 4.375" +/- 15 deg | Over 4" +/- 10 deg |

Adriano Oppio
Wire EDM Applications

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3D LASER SCANNING SERVICE

3D scanning, the process of converting physical objects into precise digital models, enables you to quickly and accurately capture your object's shape and geometries. This process supplies you with a complete digital representation of your part to be used for reverse engineering, quality inspection or at any point of a typical manufacturing cycle.

Classic Tool utilizes state-of-the-art, non-contact, laser-based hardware and software scanning technology that produces highly accurate scan data.



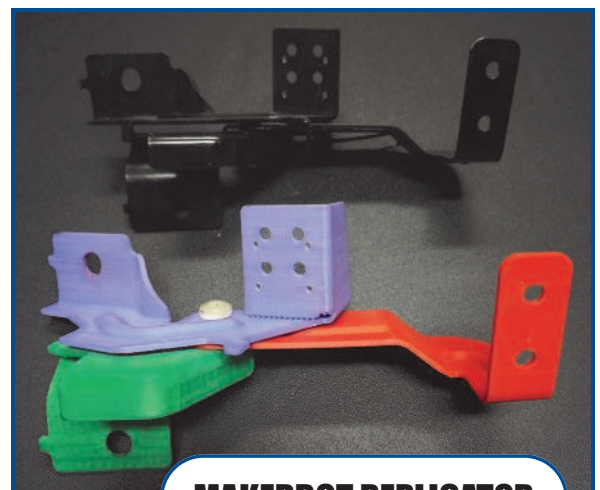
HANDYSCAN 700

The most versatile 3D scanner on the market for inspection and demanding reverse engineering.

3D PRINTING SERVICE

Classic Tool and Die now offers 3D printing service. We can offer PLA models of your design or we can create and model a design for you with your specifications.

- Turn your idea into reality.
- Low cost alternative to prototype tooling and manufacturing.
- Quickly design and modify models as you innovate.
- Verify functionality before production
- Perfect for marketing or a visual tool



MAKERBOT REPLICATOR

Print technology: Fused Deposition Modeling
Layer Resolution: 100 Microns (0.0039 in)

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Precision Machining Service

As part of our mission to provide complete manufacturing solutions to our customers, Classic Tool & Die offers unparalleled machining using a wide variety of materials. Whatever the size or volume of your product, our precision machining services can help you drive down costs, shorten lead times and simplify your supply chain. We provide machining for a wide variety of markets including the automotive, automation, aerospace, medical, and research/testing industries.

Achieve your machining objectives

When your project demands machined components with strict tolerances for quality, cost and time-to-market, Classic Tool & Die delivers the right solution for your precision machining and metal fabrication requirements. Precision machining benefits include:

- Low/high volume CNC and metal stamping production
- Medium- to high-complexity components
- In-house welding (TIG, MIG)
- 30 years experience in Wire-EDM cutting and currently operates the largest EDM in North America
- In-house CMM capabilities
- Fully equipped engineering department utilizing the latest in CAD and simulation software
- Small to large fabrications

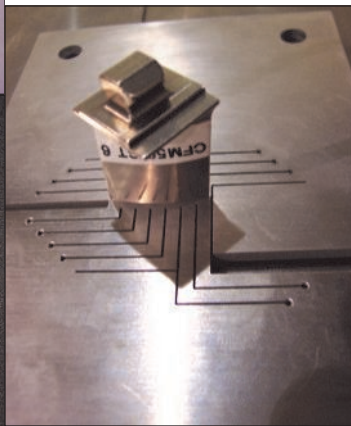
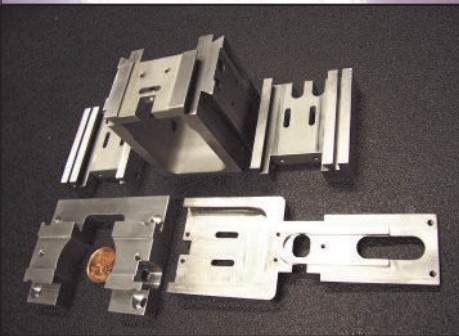
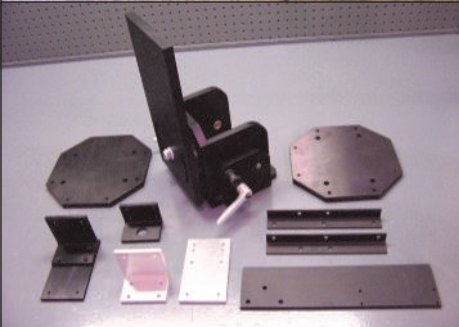
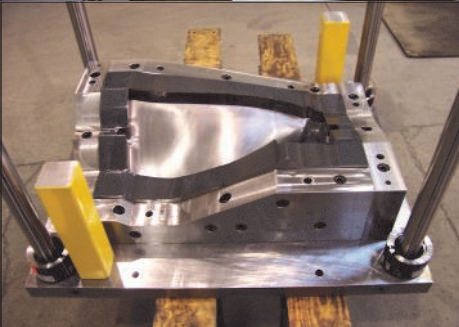
Efficiency

Our number one focus is to streamline your production and deliver the services you need to stay competitive. Our value-added services include:

- Design and engineering
- "Lights-out" manufacturing
- Rapid-response production support

A Partner You Can Trust

When you partner with Classic Tool & Die, you gain access to a suite of state-of-the-art, computer-controlled machining equipment that satisfies your most rigorous demands for production and quality.





www.classic-tool.com

CMM INSPECTION SERVICES

At Classic Tool & Die, precision measurement is our first order of business. Our highly qualified professionals use leading edge equipment and instruments to meet your exacting measurement and quality standards. Our dedicated CMM inspection facility is in a controlled environment to provide our customers with accurate and efficient solutions for their inspection needs.

Utilizing a Dea Scirocco as the core of our quality assurance system and PC-DIMIS software, we can provide our customers with detailed inspection reports including 3D plots and graphs to demonstrate conformance of parts directly to the original CAD data.

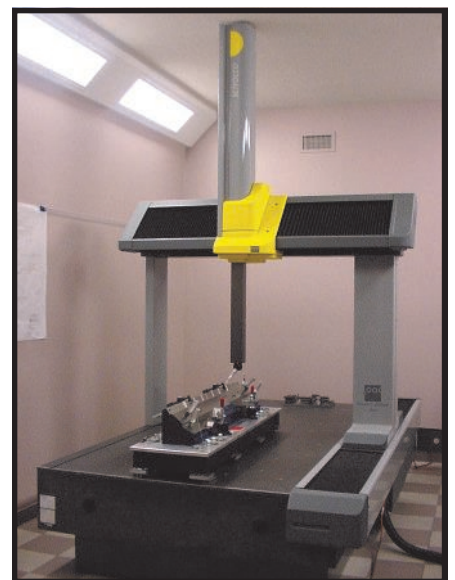
Our services include:

- Reverse engineering. Send us your part, tool, prototypes etc. and we'll send you a CAD file
- Customized reporting including process capability and SPC analysis
- Part dimensional conformance
- Full 3D scanning capability
- Gauge and fixture qualification R&R studies
- Third party certification
- Surface or profile digitizing

Machine capacity:

X - 2m Y - 1.3m Z - 1m Weight - 4000 Kg

Adriano Oppio
CMM Applications



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EQUIPMENT LIST

COMPUTER SYSTEMS

Our Engineering Department utilizes the latest high-end physical and virtual Workstations , networked through highly advanced clustered redundant data servers that allow our engineers, die leaders and CNC operators to streamline operations, reduce data transfer errors and optimize jobs. Overnight unmanned machining is monitored and controlled 24 hours a day via internet using custom software and hardware.

Software: Cimatron, Dynaform, Fastform, Geomajic, BobCad and PC-DMIS

CNC MACHINING CENTERS

AWEA LP-4025 gantry with Heidenhain control (X-158", Y-83", Z-30")

AWEA SP3016HSS gantry with Fanuc 18i-MB (X-120.5", Y-63", Z-30")

Takumi H22S gantry with Heidenhain control (X-86.6", Y-65", Z-31.5")

Makino A71nx horizontal with multiple rotating pallets (X-31.5", Y-29.5", Z-23.7")

Tos Varnsdorf WHN 13 horizontal boring mill (X-138", Y-80", Z-50")

Parpas BF-100 with Heidenhain control (X-79", Y-39", Z-35")

I.M. Parpas SL-100 with Heidenhain control (X-100", Y-40", Z-52")

Takumi V11A CNC with Heidenhain control (X-43", Y-22", Z-25.6")

Sharanoa HPM-85 machining centre with Tiger 6 Control (X-82", Y-32", Z-30")

All Classic CNC machines are capable of 18,000 RPM utilizing a Faemat FA80H high speed head.

CNC WIRE ELECTRONIC DISCHARGE MACHINES

Hitachi 8Q Wire-Cut EDM : 41" x 60" x Z-20" (Largest in North America)

Charmilles Robofil 690 Wire-Cut EDM 39.5" x 54.5" x 16"

Elox Wire-Cut EDM P series with cutting capacity of 25" x 30" x 8"

STAMPING PRESSES AND PRODUCTION

1500-Ton Danly 96" x 212" Bed 8-20 SPM

Feeder / straightener 72" wide x 0.150" coil capacity 30,000 lbs

Dual Fanuc robotic transfer system

50-Ton Bliss 80" x 120" Bed 15 SPM

350-Ton British Clearing 50" x 108" Bed 16 SPM

250-Ton Clearing 62" X 84" Bed 13 SPM

MEASURING EQUIPMENT

HandySCAN 700 laser scanning system

DEA Scirocco X-2.0m, Y-1.3m, Z-1.0m

48" x 62" Surface Plate

24" x 36" Surface Plates

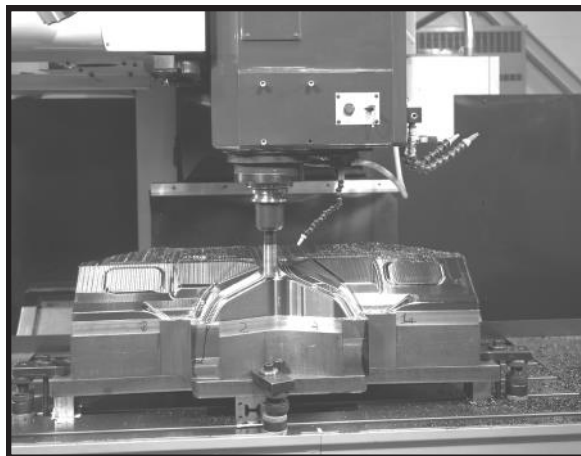
VERTICAL MILLING MACHINES

Bridgeport Milling Machine

4—First Milling Machines LC1-1/2VS

First Milling Machine LC-185VS

Forthworth CS-VBM-5VHL Vertical /Horizontal mill with 25" x 16" Magnetic Chuck



3D PRINTING

Makerbot Gen 5 Replicator

DRILL PRESSES

Erlo TCA-45-1 Drill Press
Mas Radial Drill 5 ft. arm V05A
Mas Radial Drill 6 ft. arm VR63

GRINDERS

Okamoto ACC-12.24ST grinder 12" x 24"
Chevalier FSG-3A1224H grinder 12" x 24"
Jacobsen SJ102 surface grinder 10" x 24"
Kent KGS-616S surface grinder 6" x 14"
Ex-Cell-O Surface Grinder 6" x 18"
Boyar & Schultz No. 2 Profile Grinder
Sunnens Honing Machine
General Combination Disc & Belt Sander
Cutter Grinders

SAWS

Grob 4 V-24 Vertical Band Saw
Hyd-Mech S20 Band Saw
K&K rollaway saw

TRANSPORT VEHICLES

International 7500HD truck 45,000 lb cap
2x GMC Silverado 1/2 Ton Pick-up trucks
Clark lift truck 6000 lbs
Hyster lift Truck 12,000 lbs.

FACILITY

Our modern 30,000 square foot facility is conveniently located in south-western Ontario Canada.

CRANES

3-ton Yale
5-ton Demag
5-ton Demag
13.7-ton Demag
20-ton Demag

LATHE

Tarnow Lathe 24" swing 84" between centres

FABRICATION EQUIPMENT

Haco 10" shear x 1/4" capacity
Allsteel 45 ton press brake 8'

WELDING EQUIPMENT

Miller Syncrowave 250 AC/DC welders
Lincoln Electric Power mig 300 MIG Welder
Lincoln Electric Wire-matic 250 MIG Welder
Heat treating oven 16" x 21" x 9"
Hypertherm Powermax 45 plasma cutting system
Oxygen & Acetylene torches

OTHER MACHINES/EQUIPMENT

Atlas Copco GA45 50 H.P. Air Compressor
Atlas Copco G11FF 15 H.P. Air Compressor
36" Trinco Dry Blast
Telesis Pinstamp TMP3200 w/ TMC420 Controller
FlexArm
Brier Drill Sharpener
Wilson Rockwell hardness tester
AR-35 Arrestall Dust Collector



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