



Facility Profile and Equipment List

Company Profile:

- *Cornell Welding & Fabricating Ltd.
P.O. Box 1574
Woodstock, Ontario
Canada N4S 0A7
Phone: (519) 539-8146
Fax: (519) 539-2322
E-mail: sales@cornell.on.ca*
- ✓ *Established 1967.*
- ✓ *Privately owned and operated.*
- ✓ *Non-Unionized.*
- ✓ *Currently employing 50+/- people within two primary facilities.*

Current Certifications:

- *ISO9001 (2008) (Registration Number: FM62921 see attached cert.)*
- *CWB CSA Standard W47.1 Division: 2.1 (symbol 3094.5 Woodstock On)*
- *CWB CSA Standard W47.2 Division: 2.1*
- *AWS D1.1, D1.2, D1.3 & D1.6*
- *N.P.C.A. (National Precast Concrete Association)*
- *CPA (Concrete Precast Association of Ontario)*
- *CGD (Controlled Goods Program of Canada Reg # 22682)*

Plant Locations:

- ***Main Fabrication Plant:***

	<i>960 Keyes Drive</i>
<i>18,000</i>	<i>Woodstock, Ontario</i>
<i>Sq. Ft.</i>	<i>Canada N4V 1C2</i>
- ***Plant # 2 Welding & Assembly Plant***

	<i>984 Keyes Drive</i>
<i>22,000</i>	<i>Woodstock, Ontario</i>
<i>Sq. Ft.</i>	<i>Canada N4V 1C2</i>
- ***Plant # 3***

	<i>R.R. # 1 (Satellite Operations)</i>
<i>10,000</i>	<i>Burgessville, Ontario</i>
<i>Sq. Ft.</i>	<i>Canada</i>

Current Equipment and Capacities:

➤ **Shop Controls and Computer Information**

- ✓ Operating System = Microsoft Windows SB & Terminal 2010.
- ✓ Integrated Office and Shop Software = JobBoss (JBW).
- ✓ Fax - Send and Receive 8 1/2" x 11" through 11" x 17"
- ✓ Auto Cad Inventor 2011, Auto-Cad Mechanical 2011

➤ **Engineering**

- ✓ Fully Automated using Auto Cad Inventor & Mechanical 2011 by Autodesk.
- ✓ Accept and work with all conventional & manually produced Drawings and Sketches.
- ✓ C.N.C. Control off machine programming software:
 - C.N.C. Turret Fab. Centers.
 - C.N.C. Multi-Head Flame Cutter.
 - C.N.C. Plasma Cutter.
 - CAD-MAN L Laser Programming software

➤ **Fabrication Equipment**

✓ **Cutting**

- 1 @ SMT Pullmax Hydraulic 1/2" Plate x 10'-0" long Shear.
- 1 @ Hyd-Mech S20A Automatic Band Saw.
- 1 @ Hyd-Mech S20 Manual Band Saw.
- 1 @ Hypertherm HPR400XD Plasma Cutting Machine.
 - 100% Hypertherm Controlled.
 - 120" x 300" Maximum Material size.
 - 2-1/2" Maximum Material thickness Carbon.
 - 1-1/2" Maximum Material Thickness Aluminum.
 - 1-1/2" Maximum Material Thickness Stainless.
- 1 @ LVD/Strippit 4020 Orion Laser Cutter
 - 4500 Watt
 - 4m (x) x 2m (y) sheet capacity
 - 1" Mild Steel (high strength low alloy)
 - 3/8" Aluminum (6061-T6)
 - 1/2" Stainless Steel (300 series)
- 2 @ Piranha Iron Workers
 - 5" x 5" x 3/8" Structural Angle.
 - 3/4" x 10" Mild Steel Fat Bar.
- 1 @ Warco Punch Press.
 - Used for high volume and high accuracy Angle Cutting.

✓ **Punching**

- 1 @ Shape Delta 50 Fabricators.
 - Fully C.N.C. controlled.
 - 20 Station Turret.
 - 1/4" Plate maximum material thickness.
 - Full range of stock tooling.
- 1 @ Pierce-All 3050-A Perf-O-Mator single station punch.
 - 30" y-axis (Throat Depth)
 - Unlimited x-axis travel.
 - 3/8" Plate maximum material thickness.
 - 5" Hole Diam. through 1/8" Mild Steel.
- 2 @ Piranha Iron-Workers
 - 1-1/16" Diam. through 3/4" Plate Steel.
 - Able to punch Flat Bars, Angle Irons and Channels.

✓ **Notching**

- 2 @ Pierce-All Mechanical Notchers.
 - 1 @ 5" x 5" x 1/4" Maximum Material.
 - 1 @ 5" x 5" x 1/8" Maximum Material
- 2 @ Piranha Iron-Workers.
 - Multiple notching and cropping tools.

✓ **Forming**

- 1 @ Cincinnati 400-Ton Mechanical Brake Press.
 - 15'-8" Bed Length.
- 1 @ Cincinnati 150-Ton Mechanical Brake Press.
 - 15'-0" Bed Length.
- 1 @ Pullmax 300-Ton Hydraulic Brake Press.
 - 12'-2" Bed Length.
 - 6 Axis Fully C.N.C. Controlled.
- 1 @ LVD/Strippit 200-Ton Hydraulic Brake Press.
 - 10'-0" Bed Length.
 - 4 Axis Fully C.N.C. Controlled.
- 1 @ Warco Punch Press (manual feed).
- 1 @ Russelle Punch Press (manual feed).
- 1 @ Sergi Plate Rolls
 - 1/4" maximum Plate capacity.
 - 87" Maximum section width.

➤ **Machining.**

Through our satellite location we can now offer the following capacities and services.

5 @ Vertical Machining Centers (fully C.N.C. controlled)

- 2 @ Cincinnati (x=30" y=17" z=17")

- 3 @ Tree (x=30" y=17" z=17")

2 @ Turning Centers

- 1 @ CNC (chuck = 10" center = 16")

- 1 @ Manual (chuck = 15" swing = 20" center = 40")

➤ **Welding and Assembly.**

1 @ Conventional 300 amp. Stick Welder.

1 @ Air-Arc 300 amp.

8 @ Semi-Automatic M.I.G. Welders.

450 amp. through 650 amp.

.035" through .062" Hard and Metal cored Wire.

4 @ 350 amp Pulse M.I.G. Welders.

.035" through .045" wire size

Steel, Stainless and Aluminum.

3 @ Dynasty 350 amp. Pulse T.I.G. Welders.

Steel, Stainless and Aluminum.

1 @ 350 amp. T.I.G. Welders.

Steel, Stainless and Aluminum.

1 @ 250 amp. T.I.G. Welders.

Steel, Stainless and Aluminum.

1 @ 75 KVA Spot Welder c/w 30" y-axis.

1 @ CVS Stud Welder (1/4-20UNC Max)

1 @ 4500 lb. Weld Positioner.

1 @ 1000 lb. Weld Positioners.

2 @ 500 lb. Weld Positioner.

1 @ 12'-0" x 12'-0" x 18" Set-up Table (flat and square +/- 0.005").

1 @ PEM set machine.

10 @ Large Weld Stations serviced by two 10,000 lb. Overhead Cranes.

Multiple Smaller Weld Stations serviced by 2 Ton Jibs & Hoists

➤ **Finishing**

- Air Grinders, Sanders and Buffers.

- Geographically located close to the following.

* Sandblasting.

* Conventional Air Painting.

* Multi-Stage Surface Prep. and Powder Coating.

➤ **Quality Control**

- ISO-9001 (2008) Registered since 1999.
- Fully Documented and Controlled QA program.
- Fully Equipped and Maintained Inspection Department.
- Inspection of First Off, In-process and Final. (P.P.A.P. Supplied as requested)
- Specialty Go/No Go Gauges and Custom Certified Templates.
- FARO Edge 9ft 3D CMM, accuracy within 0.0007" with full documentation.

➤ **Material Handling Equipment.**

- 2 @ 25,000 + sq. ft. storage and staging yards.
- 1 @ 15,500 lb. Outside lift truck.
- 1 @ 7,000 lb. Inside lift truck
- 2 @ 6,000 lb Inside lift trucks
- 1 @ 10 Ton Delivery Truck with 28' Soft Side Roll Tarp.
- 1 @ 3 Ton Delivery Truck.
- 1 @ 40 Ton x 48' Tractor & Flat Bed Trailer.

➤ **General Information**

We are currently supplying Fabrications and Weldments to the following industries, from initial proto-types stages through to medium to high volume production part requirements.

- Rail Industry. (Car production and Track work components)
- Forms and Molds for the Precast Concrete industry.
- Mass Transit (LRT & SRT Rail components and supplies)
- Mining Equipment (sub-components)
- Military (fabrications, weldments and complete assemblies)
- Electronic and Electrical (enclosures and control panels)
- Heavy Equipment (sub-components)
- Industrial Equipment (sub-components)
- Recycling Equipment. (sub components)

If you require any additional information, would like see one of our sales reps, or visit our facilities please just call, fax or e-mail us. Our contact information is shown above (page 1), or on our web site:

www.cornell.on.ca