

# OPEN SHOP

The Newsletter of Cox Metalworks and Superior Tray

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2010

## **MEDICO FABRICATION:**

Rebranding to reflect our vision for the future.

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## **YAG LASER:**

Adding to our equipment arsenal.

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## **INCREASED CAPACITY:**

30 ton LVD OMEGA 1500 increases punching capacity.

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## **LOOKING TO THE FUTURE WITH WELDING AUTOMATION**

In order to meet increasing demand, Cox Metalworks is taking a bold step forward to solidify our reputation as an industry leader. We are proud to announce the addition of two automated welding cells to our facility. Material handling is carried out by two Fanuc S-420iW 6-axis robots with 155 kg payload capacity. Welding duties are shared by four ARC Mate 100i 6-axis welding robots with Lincoln Electric Power Wave robotic welding power sources. The cells are self loading and unloading, and all integration is being done in house.

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**“Combined with a larger shop, these equipment additions are allowing us to meet a growing customer demand.”** MARTIN COX - PRESIDENT



# WELDING AUTOMATION

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Specializing in product design, it should be no surprise that Cox Metalworks has decided to integrate the robot cells in-house. Our design team, which includes a Mechatronics integrator, is working to prepare the foundation for future automation development.

All circuits are being designed and built in-house, with the overriding principle of simplicity and expandability.

For instance, the robust self-loading and unloading systems have been designed with growth in mind, and will be easily adaptable to new product lines.

These two new welding cells give our skilled welders an opportunity to make the best use of their talents, being able to work on more complex and lower volume projects. Automation reduces production time, while maintaining our high quality. CWB certification allows us to produce consistent and top quality welded products. Ultimately, Cox Metalworks will be home to the first CWB certified robot welders in the province.

We are constantly looking for opportunities to improve our efficiency. The addition of robots to our equipment base will increase our overall production capacity. Thanks to cost-effective fabrication, we have been able to maintain a fixed cost for our customers over the years, despite a constant rise in the price of raw materials.

**"Automation reduces production time, while maintaining our high quality."**

# MEDICO FABRICATION: NEW LOOK & FUTURE VISION

When Medico Fabrication was established in 1996, we specialized in design and manufacturing of medical equipment. Since the beginning, our motivation has always been to produce higher quality products through continuous innovation. Over the years, our services and product offerings have expanded, but our inspiration will never change.

In the decades to come, we will continue to exceed our clients' expectations by offering the same level of service under two new names: Cox Metalworks and Superior Tray. This name change indicates our expansion from the niche medical market, and is more relevant to our vision for the future.

We will be working guided by the same values that have always distinguished us: innovation, safety, responsibility and reliability. Our products will be made with the same commitment, same quality, same expertise and same effectiveness. In order to serve you better, Cable Bus and Cable Tray customers will now be served by Superior Tray, and all product development and custom design by Cox Metalworks.

## INCREASED CAPACITY WITH LVD OMEGA 1500 FABRICATING CENTER

Customers can look forward to quicker turnaround times thanks to a major addition to our facility. We are pleased to announce the acquisition of an LVD Omega 1500 Fabricating Center with an automated material handling system. At its core are a 30 metric ton punch with hydraulic ram control and a 40 station turret with 6 auto-indexes. This state-of-the-art machine is capable of self-loading up to 5'x12' sheets of 1/2" material, and features part sorting and slug conveyors. The Omega 1500 compliments two other punches in our facility; an LVD Strippit 20 ton CNC turret punch, and an LVD Strippit 30 ton CNC single station punch.

### KEY FEATURES:

**30 ton punch**  
**40 station turret**  
**6 auto-indexes**  
**Right angle shear**

The Omega 1500 reduces the number of times material is handled. It improves production efficiency, reducing 3 separate operations down to 1. In addition, the machine increases our Aluminum plate punching capacity from 1/4" to 1/2". The Omega 1500 will be a huge time-saver for large Superior Tray projects as well, making production of our CSA and UL certified cable bus enclosures one of the fastest in the industry.

## NEW SERVICES WITH YAG LASER

Continuous improvement is more than a reputation we uphold at Cox Metalworks – it's our obsession. Making new services available to our customers is something we're very proud of. We are currently in the process of adding a new 400W YAG Laser to our equipment arsenal. Unlike standard CO<sub>2</sub> lasers, YAG is perfectly suited for working with Aluminum. The laser will work beside our two CNC router tables to give customers a full line of engraving and lettering options for any product.

## PRODUCT HIGHLIGHT: CUSTOM VAULT DESIGN

*Weighing less than 35kg, aluminum covers are easy for technicians to handle.*



Cox Metalworks provides custom vault design to the utilities industry. Our systems are engineered to CAN/CSA-S6 code, and load tested to 39 000 lbs. Sandblasted aluminum covers can include custom

lettering, and provide a visually appealing non-slip surface. Vault covers weigh in at less than 35 kg each (77 lbs) as recommended by the Workers' Compensation Board. Light enough for workers to handle

without the hassle of a crane truck, routine maintenance tasks are finally as simple as they should be.

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