

STEELCON FABRICATION INC.: Introducing North America's First Robotic Steel Beam Assembler



Steelcon is experiencing increased productivity, enhanced accuracy, savings in man-hours per ton and a small footprint with the SBA Compact.

EXECUTIVE SUMMARY

CUSTOMER NAME: Steelcon Fabrication Inc.

INDUSTRY: Structural Steel Fabricator

LOCATION: Brampton, ON, Canada

CHALLENGE: Steelcon wanted to be a pioneer for automation in the structural industry.

SOLUTION: Zeman SBA Compact robotic steel beam assembler

RESULTS: Increased productivity, higher degree of accuracy, minimized human error, cost savings and increased safety

Automated welding has long been a cost saving solution executed within manufacturing facilities, and has finally made its way into structural steel fabrication. Past challenges in the unique aspects of structural steel weld elements have been revolutionized by robotic assembling and welding technology.

The industry-first steel beam assembler provides fabricators with technology that can fully assemble profiles in a single pass. Detail components and beams leave the assembler fully fit-up and welded as dictated by the original design within the 3D building model. Increased shop productivity, enhanced accuracy, labor savings and compact design were only some of the extensive features that caught Steelcon Fabrication's attention.

Steelcon Competes in Canada

Serving structural steel markets from Ontario, Canada, all the way to the western coast of British Columbia, Mr. Bianco, Owner, and the team at Steelcon pride themselves on upholding the family business's reputation. Delivering fast service, competitive pricing and exceeding clients' expectations complements their company motto: "Where Speed Meets Excellence".



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The machine scans parts to be welded to the main section.



Detail components and beams leave the SBA fully fit-up and welded as dictated by the original design.

Established in 2002, Mr. Bianco and his family have incurred growth since inception. But becoming a prominent competitor within the structural steel industry was no easy task for the business. Before automation, Mr. Bianco was not satisfied with Steelcon's operation and knew it was not as advanced as it should be.

"Steelcon understood that the market was eventually moving towards automated fabrication and we wanted to be a pioneer in the industry," Mr. Bianco explained. "Looking for a competitive edge, we were first introduced to Zeman technologies a few years ago."

Investigating Automated Solutions

Zeman, an Austrian manufacturer of robotic steel beam assemblers, and Peddinghaus Corporation, North America's exclusive distributor, provided Steelcon with the advanced system they had been searching for: the SBA Compact.

Since its introduction to their fabrication firm, Mr. Bianco reports the automation investment resulted in increased productivity a higher degree of accuracy, and minimized human error from manual welding methods. Cost savings from reduced man hours per ton and increased safety due to no manual operator intervention are added bonuses to Steelcon's processing.

"What sets our firm apart from others in the industry is our ability to fabricate steel at an expedited delivery," Mr. Bianco stated. "This is largely a result of our experienced, 100-employee workforce and our use of the advanced SBA Compact with automated technology. Automation has brought Steelcon to the next level."

The Proof is in the Projects

Mr. Bianco and the Steelcon team have utilized the SBA Compact for projects spanning across Canadian markets. Specializing in institutional, retail/commercial and government projects, Steelcon has completed the TTC Wilson Carhouse, the Raptors basketball training facility, the Stockyards and the Providence Care Hospital project.

The first of its kind in North America, Steelcon has paved the way for introducing this newer automated advancement into structural steel fabrication. Mr. Bianco and his family are proud to acquire this breakthrough technology and to offer their customers advanced engineered solutions in return.



“We consider [Peddinghaus] a leader in the automated industry and look forward to a continued partnership”



Peddinghaus Corp Bradley, IL, USA

“Steelcon is very satisfied with the SBA Compact and has a great deal of respect for Zeman and Peddinghaus,” Mr. Bianco said. “We consider them a leader in the automated industry and look forward to a continued partnership.”

FOR MORE INFORMATION

To learn more about Peddinghaus Corporation visit:
www.peddinghaus.com

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- Beam Drill Lines
- Angle Masters
- Plate Processing
- Coping Machines
- Thermal Cutting
- Automated Layout Marking
- Structural Band Saws
- Ironworkers
- Material Handling
- Shot Blasting
- Raptor 3D CAD/CAM Software