

The BeamCut 50 is part of Groupe CFR's BeamCut family of products that features a wide range of application possibilities depending on your specific needs. When it comes to working on three or four-face metal, we've got what you need.

**HERE'S SHORT DESCRIPTION OF EACH PRODUCT:**

**TECHNICAL CHART**

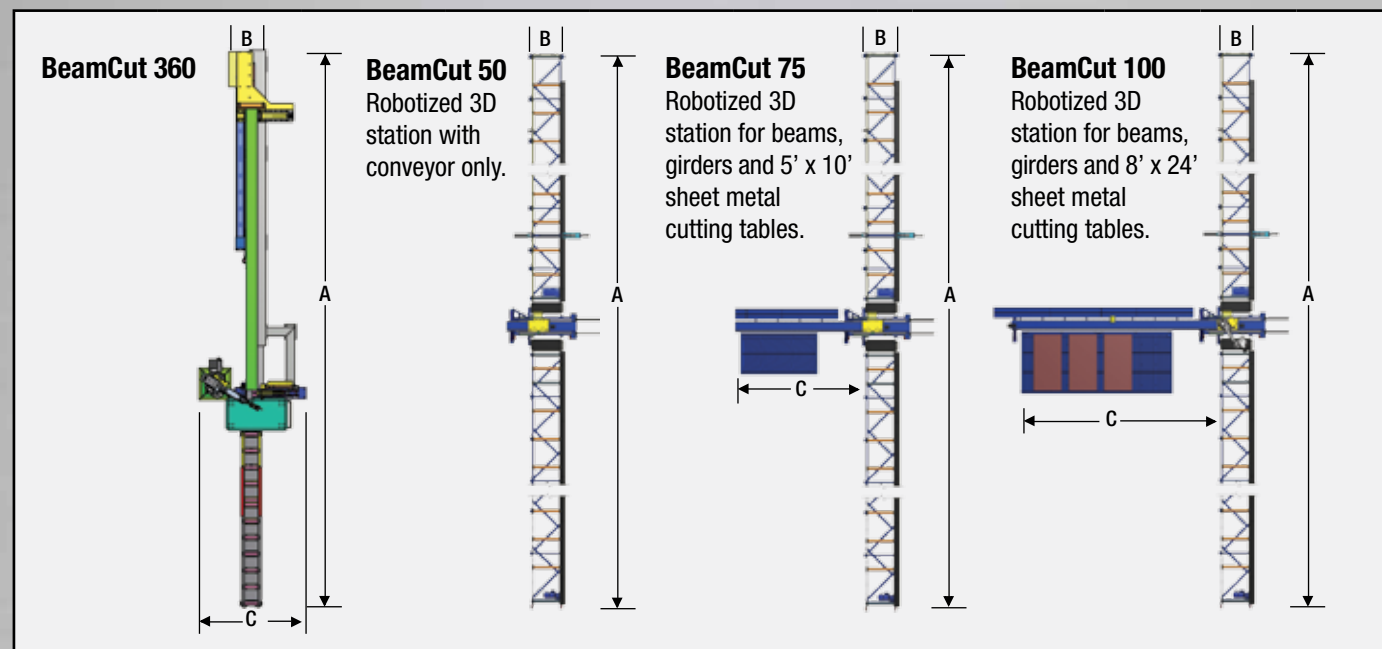
|                         | BeamCut 360          | BeamCut 50   | BeamCut 75            | BeamCut 100 |
|-------------------------|----------------------|--------------|-----------------------|-------------|
| <b>Cutting Capacity</b> | Plate                | N/A          | N/A                   | 5' X 10'    |
|                         | I-Beam               | 10" X 10"    |                       | 40" X 16"   |
|                         | Square               | 10"          |                       | 16"         |
|                         | Angle                | 7" X 7"      |                       | 8" X 8"     |
|                         | Channel              | 10" X 4,325" |                       | 36" X 4"    |
| <b>Max Length</b>       | 24'                  |              | 60'                   |             |
| <b># of faces</b>       | 4                    | 4            | 3                     | 3           |
| <b>Thickness</b>        | 1,25<br>(Edge: 1,5") |              | 1,75"<br>(Edge: 2,5") |             |
| <b>Robot Axis</b>       | Motoman 6 axis       |              | Motoman 7 axis        |             |
| <b>Plasma System</b>    | HPR130               |              | HPR260                |             |
| <b>Positioning</b>      | Laser Sensor         |              | Camera System         |             |
| <b>Interface</b>        | PC & Robot Interface |              |                       |             |
| <b>Nesting</b>          |                      |              | Included              |             |
| <b>Welding prep.</b>    |                      |              | 45°                   |             |
| <b>Scrubbing</b>        |                      |              | Yes                   |             |

**SYSTEM DIMENSIONS**

|             | A    | B   | C    |
|-------------|------|-----|------|
| BeamCut 360 | 40'  | 31" | 7'6" |
| BeamCut 50  | 120' | 46" | S/O  |
| BeamCut 75  | 120' | 46" | 20'  |
| BeamCut 100 | 120' | 46" | 30'  |

**AVAILABLE OPTIONS**

- Conventional drilling station can be added to Plasma 3D drilling station
- Pipe cutting
- Cutting on 4<sup>th</sup> face of square tubes
- Motorized conveyor that can also handle pipes and beams without flat base
- Robotized welding



Groupe CFR can adapt any of its robotic cutting solutions to fit your manufacturing environment and your material.

[www.cfr-qc.com](http://www.cfr-qc.com)

195, 1<sup>ère</sup> rue Ouest, Parc Industriel  
 Sainte-Claire (Québec)  
 Canada, GOR 2V0  
 Phone: (418) 883-2955 Fax: (418) 883-4269  
 1 866 683-2955

Contact your sales representative



225, boul. Bona-Dussault  
 Saint-Marc des Carrières, (Québec)  
 Canada, GOA 4B0  
 Phone: (418) 268-4020 Fax: (418) 268-4021  
[www.machitechautomation.com](http://www.machitechautomation.com)

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# BEAMCUT50.

by GROUPE CFR



The robotic plasma cutting that combines  
**technology, performance et flexibility**





# BEAMCUT50.



Groupe **CFR**, a Canadian robotics and automation specialist, has been designing, developing manufacturing high-performance solutions for close to 20 years. Its multi-disciplinary team offers customized equipment that combines productivity with profitability to suit your individual needs.

Groupe CFR proudly serves manufacturing companies of all sizes whose objective is to improve their industry competitiveness.

## A WIDE RANGE OF APPLICATIONS

The BeamCut 50 has been designed to suit a wide range of applications, transforming various shapes such as: H- and I-beams, tubes, channels, flatbars, angles and C-plates.

## CUSTOM SOLUTIONS

The BeamCut 50 offers visual positioning, automatic in-line input and output as well as the versatility to incorporate other cutting-edge equipment offered by Groupe CFR, including servo-assisted in/out conveyors for increased speed and accuracy when it comes to material positioning. The system works on both sides of the conveyor, holding material in place so as to facilitate its manipulation during operations.

- Mechanical safety barriers, optical safeguards and advanced controls facilitate the manufacturing process and make for an extremely safe working environment.

## CHARACTERISTICS

- Visual positioning is faster than touch sensing. A single digital camera mounted on the tip of the robot arm is ideal to mark and cut plasma plus it facilitates positioning for traditional drilling and welding techniques.
- A single operation reduces multiple set-ups, related errors and manufacturing time.
- Detailed toolpath simulations reduce the risk of collisions and the delays they cause.
- Compatible with SDS/2 and X-Steel software.
- The robust construction of the BeamCut 50 is ideally suited to the steel industry.
- Simplified man/machine interface provides a user-friendly operating system.
- Pre-programmed functions are included, making subsequent programming easier and more enjoyable.
- The plasma tip cleaning unit that extends useability is available as an option.
- The beam area cut zone is confined by an automated fume-extraction cabin.

## THE BEAMCUT 50 OFFERS MANY BENEFITS:

- **Flexibilité du système.**
- Quick return on investment.
- Improved manufacturing processes.
- Before each cut, the BeamCut 50 measures the piece to cut and takes its dimensional variance into account before cutting.
- Increases level of part complexity attainable over standard methods.
- Tangible gains in productivity.
- Easy operation.
- Compatible with most leading 3D-software.
- Unparalleled cut quality.
- Reduced labour costs.

## OPTIONS (traduction à venir)

- Table de découpe
  - Intégrer avec logiciel de Nesting
  - Découpe bevel sur la table
  - Possibilité de découpe des forme complexe
- Option de découpe de profile rond
- Les convoyeurs de transfert à l'entrée et à la sortie
- L'importation des dessins en format 3D, DSTV, DXF

Photo de pièces à venir

