

PCR41

Advanced Robotic
Plasma Steel Cutting

The PCR41 is an innovative design that combines robotics, vision systems, and plasma torch technology to bring you the best combination of value, speed, precision, and 4-face operation to cutting structural steel.

It's been designed to incorporate as many fabrication functions as possible into one machine. The PCR41 is able to produce completely finished parts at the lowest manufacturing cost. This machine automates all cutting operations typically performed on structural steel.

The PCR 41 processes DSTV/ NC1 files directly from design drawing packages such as Tekla XSTEEL, Design Data SDS/2, Graitec Advance steel and others.

ProEVS DSTV viewer/editor was developed by Prodevco for our plasma cutting robots. This software allows you to create a new part from scratch and edits existing parts drawing for use with the Prodevco OS in a process oriented and user-friendly interface

FANUC

HYPERTHERM
A Hypertherm Associates Brand

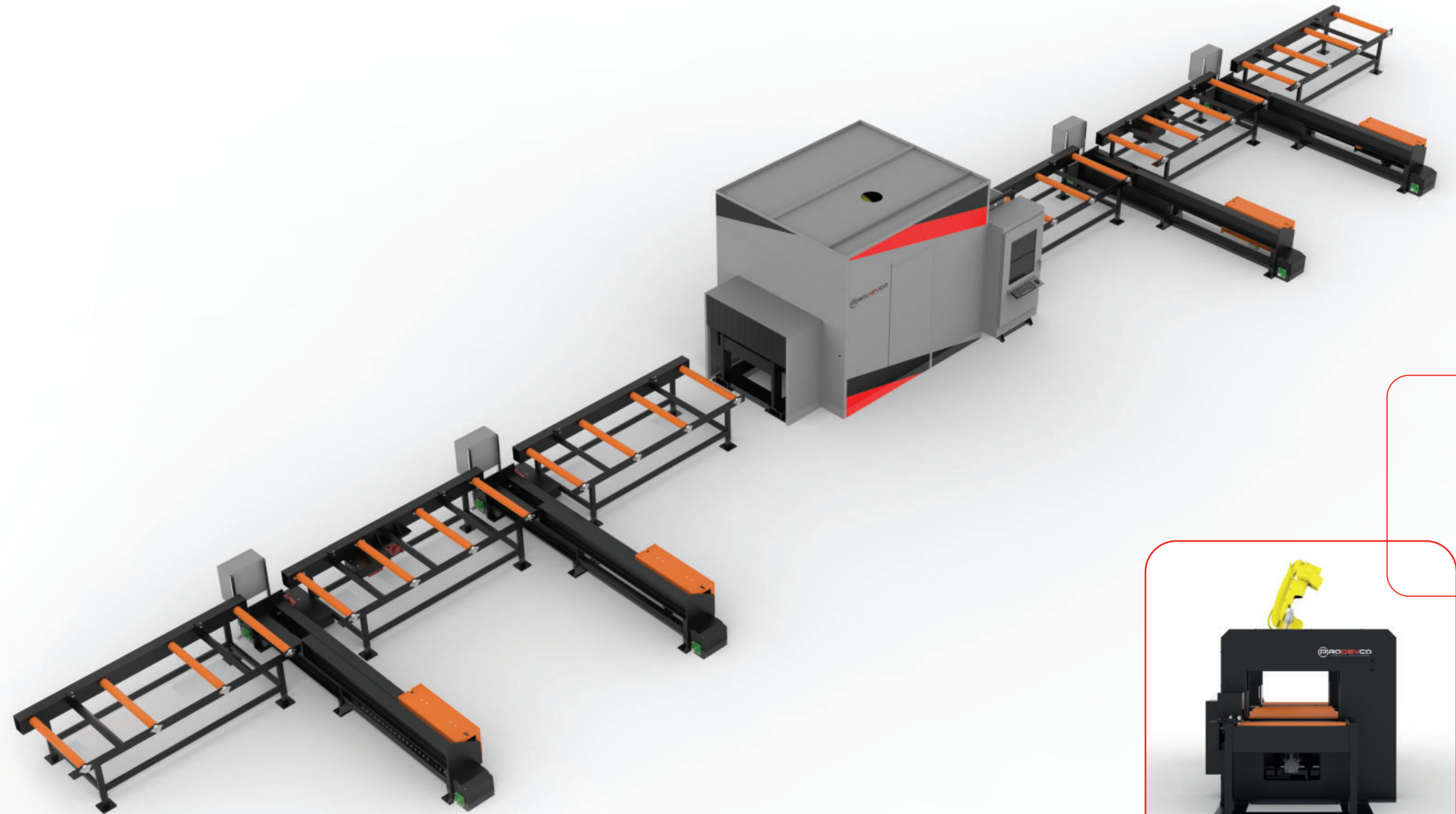
PRODEVCO
ROBOTIC SOLUTIONS

40 Citron Court, Concord, Ontario, Canada L4K 2P5
Sales 1-877-226-4501

www.prodevcoind.com

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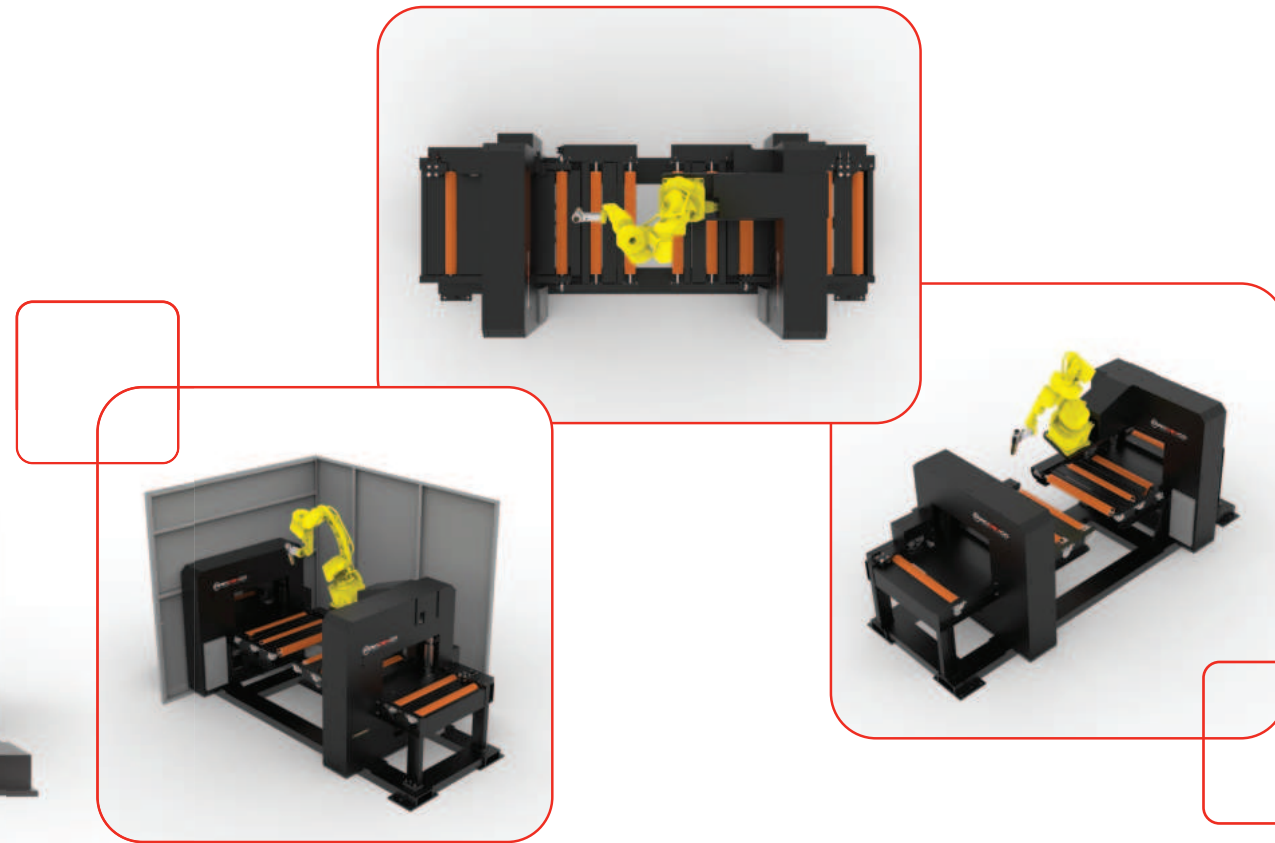
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After Sales Service

Remote access to the PCR via Internet for fast diagnostic and troubleshooting. Cameras within the enclosure let our technicians see what the operator sees.

Feel confident that the PCR 41 is fully covered for parts and labour under warranty.

"Prodevco understands what it takes to be a modern fabricator, and their equipment is designed to meet the unique challenges we face each day.

Having them on our team makes all the difference and allows us to take on more work with confidence!"

- Joshua L. Hanson Sr,
MSD Building Group.



"We ordered a new PCR41 and the machine came in on time and assembled as quickly and easily as advertised. Took us about a week of running complicated structural beams to figure out this machine can easily outrun our shop.

We basically could not have completed this project without this machine - it has allowed us to be ahead of schedule, and under budget.."

- Conrad Klotzbach,
Con-Fab.



Quality Accuracy

Our laser measuring system finds the actual dimensions of the raw material and automatically compensates for any variation so the end result matches the drawing.

4 Face Processing

The PCR 41 can cut slots, holes, copes, and markings onto all 4 faces of square and rectangular tubing .

Low maintenance

The System was designed with a low maintenance criteria. Fanuc robots are widely available throughout the world and have the longest MTBF's in the market (Mean Time Before Failure).

Simple to Use

Our software is developed in-house to process even the most complex DSTV files.

Short cycle times

Our 3D vision measuring system allows for faster and very accurate measurements as well as a greater number of measurements in a fraction of the time of physical probing.

Scribing and Layout

Reduce costly fitting errors with the added benefit of scribing, layout and markings.

Shape	Shapes Processed			
	Minimum (in)		Maximum (in)	
	Width	Height	Width	Height
H Beam	4	4	30	16
Channel	3	1-1/4	30	16
Angle	2	2	8	8
HSS	2	2	16	16
Plate Processing*	2	1/8	26	1-1/2

*requires plate processing option

Supported Operations
Copes and notches
Holes and slots
Compound angle cuts
Welding preparation up to 45°
Beam splitting
Scribing, pop marks, letters, etc.

Hypertherm XPR_300 Plasma Cut Capability (in)		* Data sources
Pierce	Edge Start	DSTV files from TEKLA, SDS/2, GRAITEC and other detailing software
1-3/4	3	

