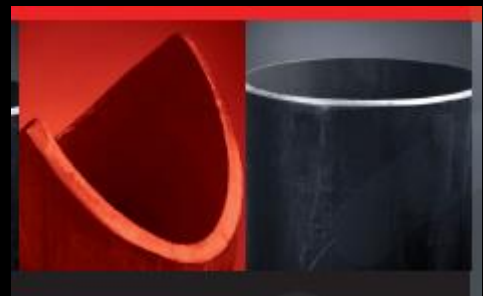# PRODEVCO
ROBOTIC SOLUTIONS

PCR31

PCR42

PCR42 Sample Cuts

Pipe Cutting using PCR42

Prodevco introduces the first system able to cut standard steel profiles AND round tubes.

An innovative solution for your steel

Using plasma cutting technology, the PCR31 offers you the capability of a beam coping machine while being able to process plates in the same working space. The new PCR31 features multiple options at the same time as being compact, robust and easy to use. This machine automates all cutting operations typically performed on structural steel.

WHAT AND HOW WE CUT
The PCR31 coping machine cuts notches, holes and weld preps, it splits beams, and it scribes and marks on up to 3 faces H-beams, channels, angles, HSS and plates. Using the Hypertherm plasma cutter delivers time-saving and cost-saving structural steel shapes

PLATE PROCESSING

SHORT CYCLE TIME

LAYOUT VERSATILITY

USER-FRIENDLY OPERATION CONSOLE

NON-CONTACT MEASURING SYSTEM

LOW MAINTENANCE AND ROBUST CONSTRUCTION

AUTOMATIC PATH ADJUSTMENT TO EXACT MATERIAL DIMENSIONS
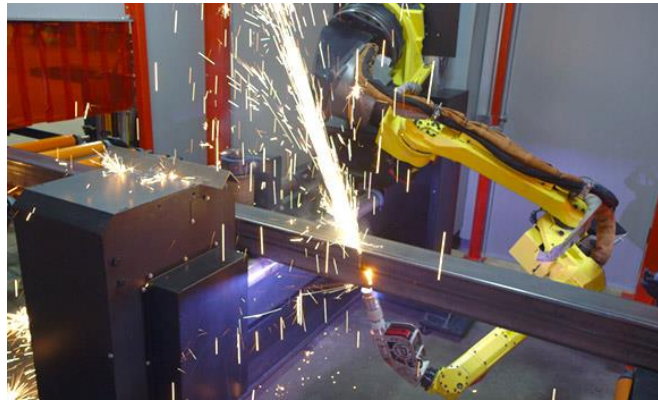
DIRECT USE OF DSTV FOR PROFILE CUTTING

Shapes Processed		
Shapes	**Maximum (in)**	
	Width	**Height**
H Beams	44"	22"
Channels	44"	16"
Angles	8"	8"
HHS	20"	16"
Plate (Standard)	48"	1-1/2"
Plate (in option)	60"	1-1/2"
Table Weight Capacity	500 lb/linear ft.	

Overall Dimensions (ft)			
Including enclosure (shop space required)			
	Length	**Width**	**Height**
Minimum	20'	8.5'	9'
Extra modules	11.5'	8.5'	9'

Hypertherm HPR XD Plasma Cut Capability (In)			
Amperage	Dross free	Pierce	Edge Start
130	5/8"	1-1/4"	1-1/2"
260 (included)	1-1/4"	1-1/2"	2-1/2"
400	1-1/2"	2"	3.2"

Supported Operations
Holes and Slots
Compound Angle Cuts
Welding preparation up to 45°
Beam Spitting
Scribing, Pop marks, Letters, etc.
Bevel on Plate

*Data Sources
DXF for Plate, DSTV files from TELLA, SDS/2, GRAOTEC and other detailing software

The most advanced robotic plasma steel cutting system available

The PCR42 advanced robotic plasma steel cutting system combines CNC plasma cutting and torch technology with fully-automated robotics and vision systems. For structural steel cutting this delivers the perfect combination of speed, precision and **full** four-face operation.

For Structural Fabrication the PCR42 performs all these tasks and more:

- **Beam coper from CNC**
- **Drill line**
- **Coping machine**
- **Beam fabrication**
- **Structural bolt holes**
- **Weld prep**

WHAT AND HOW WE CUT
The PCR42 robotic plasma cutting system does beam coping, notches, holes and weld preps, splits beams, and scribes plus marks on all four faces of H-beams, channels, angles, HSS and plates.

FOUR-FACE OPERATION

PIPE CUTTING & ROUND TUBES (PATENT PENDING)

NON-CONTACT MEASURING SYSTEM

EASY TO USE

PART VARIATION COMPENSATION

LOW MAINTENANCE AND ROBUST CONSTRUCTION
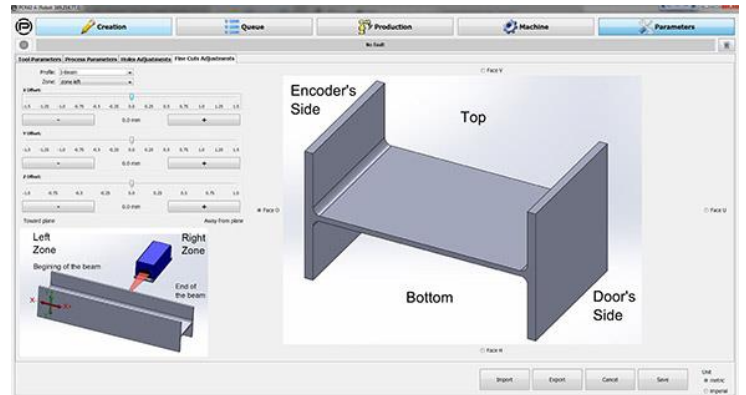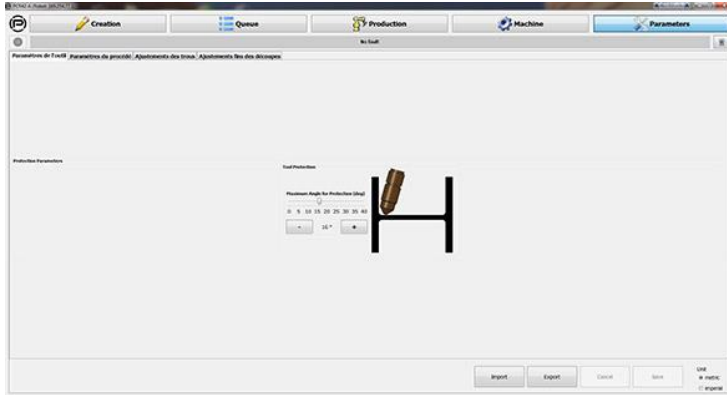
SMALL FOOTPRINT, LAYOUT VERSATILITY

NO PROGRAMMING REQUIRED

Supported Operations
Copes and Notches
Holes and Slots
Compound Angle Cuts
Welding preparation up to 45°
Beam Spitting
Scribing, Pop marks, Letters, etc.

*Data Sources
DXF for Plate, DSTV files from TELLA, SDS/2, GRAOTEC and other detailing software

Shapes Processed				
Shapes	**Maximum (in)**		**Maximum (in)**	
	Width	**Height**	**Width**	**Height**
H Beams	4	4	36	16
Channels	3	1-1/4	36	16
Angles	2	2	8	8
HHS	2	2	24	20
Round*	4	4	26	26
Minimum raw shape length is 7'				

Hypertherm HPR XD Plasma Cut Capability (In)			
Amperage	Dross free	Pierce	Edge Start
130	5/8"	1-1/4"	1-1/2"
260	1-1/4"	1-1/2"	2-1/2"
400	1-1/2"	2"	3.2"

Our Operating System

Behind every Prodevco product is our versatile and adaptable operating system. This technology has been 100% developed in-house by the Prodevco team allowing for customization to meet our individual customers' needs.

Direct import of your files
Prodevco's operating system imports DSTV files directly without macros eliminating the need to export your files to a new file format, saving time and costly errors in translation.

Direct visualization
See what you are working on before you start. Prodevco software allows for direct visualization of your drawings on the PCR control panel.

Automatic conversion of your CAD drawings
Our system saves time by automatically converting your CAD drawings into a robot trajectory. No manual operation required.

Fast calculation
Planning production times and scheduling work is easy with the fast calculations of the process time for a fully-produced steel part.

Dimensional correction
Using measurements from a precise laser vision system integrated in the robot, the SmartProSteel applies dimensional correction to varying profiles in order to provide the perfect final product with a perfect cut.

Nesting capabilities
Run smoothly and efficiently while reducing waste. Prodevco's software quickly and easily delivers efficient, and time-saving methods of nesting your parts to minimize material loss to reduce cost.

Metric and Imperial
Prodevco's software has the ability to switch between Metric and Imperial at the touch of a button accommodating any drawings and any operator. This saves time while reducing costs.

Production parameters control
The software interface will allow quick and simple control of the in-feed and out-feed roller conveyors speed and transfer. Control production parameters such as layout marking speed and depth, or swapping between different types of cuts. Plus store and export production data for future use making the next job setup more efficient.

Remote access
Save time and money. With remote access to the PCR via Internet Prodevco is just a click away to offer fast diagnostics and troubleshooting.

Fast
Fully automated, from first specs and drawings, to cutting trajectories and finished parts

Versatile
A one-of-a-kind cutting system for all types of production: profiles, plates, round tubes

Reliable
Proven reliability combined with impeccable after-sales service minimizes disruption to operations

JATAS Machinery Sales, Inc.

Tony Heck • Cell: 218-929-1577
E-Mail: sales@jatas.com

503 Frontage Ave. West • Underwood, MN 56586
Phone: 218-826-6464
Website: www.jatas.com