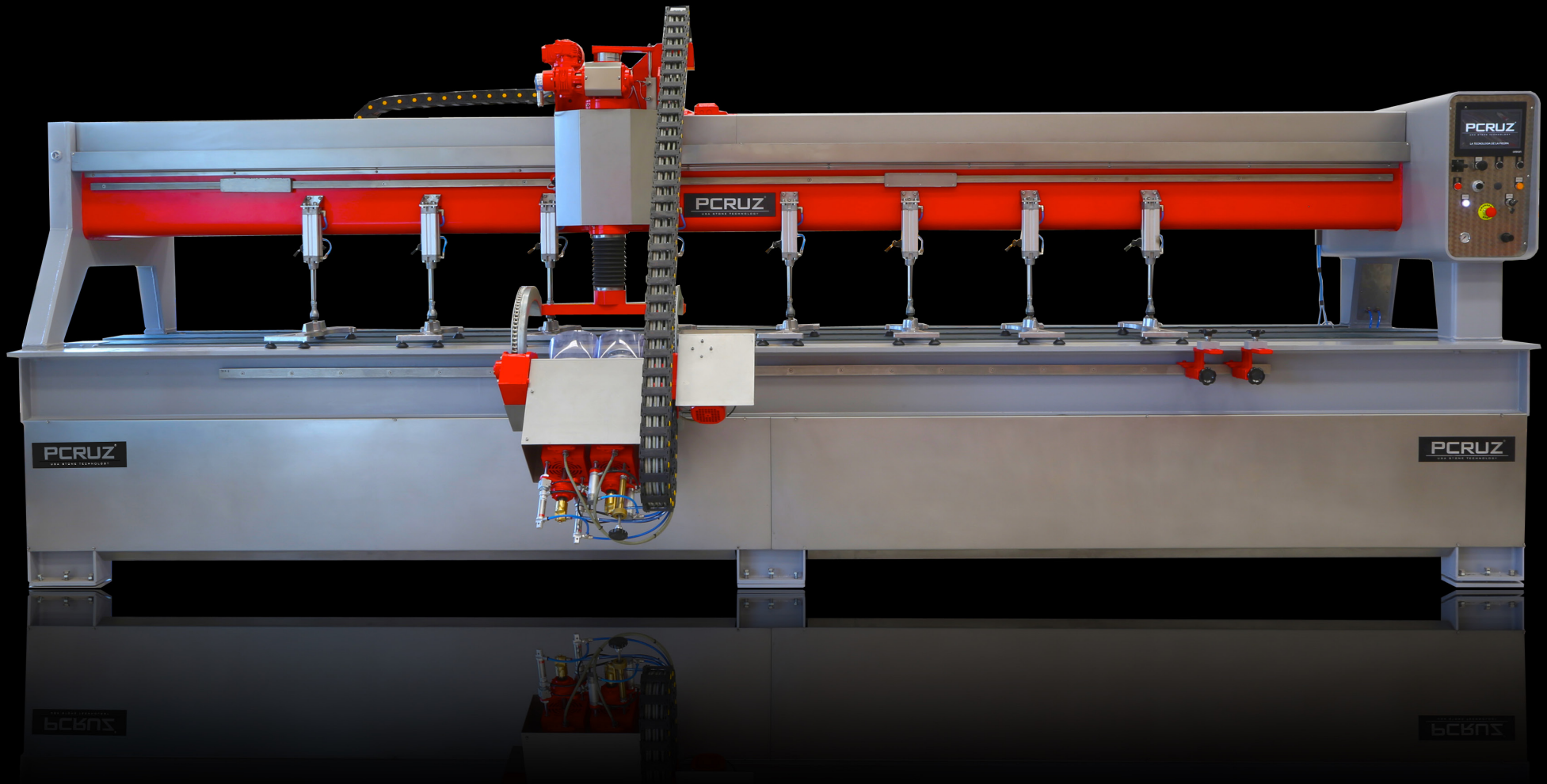


# MILLENNIUM Double Head

EDGE POLISHER



NEW DESIGN  
2016 EDITION

# PCRUZ USA

STONE TECHNOLOGY



After nearly 40 years of innovation and leadership in the global stone technology, **PCruz Group**, producer of high-quality machinery based in Europe, decided to establish **PCruz USA**, a company focused on the US market.

**PCruz USA** has been working for several years in the US market and recently has introduced a new range of stone machinery.

Our approach is to be a reliable long-term partner for our customers. We are here to offer perfect solutions for their needs and to provide them with the maximum level of product quality and service.



ISO 9001

**BUREAU VERITAS**  
Certification



# MILLENNIUM Double Head

## EDGE POLISHER

**MILLENNIUM Double Head** edge polisher is designed to produce a large variety of edge types. It works with a wide range of materials including marble, granite and compact artificial materials, and always provide the highest quality of finishing.

**MILLENNIUM Double Head** has one calibrating head and one polishing head and is equipped with systems minimizing tool wearing. The work table is equipped with a system for 360° rotation of the material which increases speed and productivity.

A solid structure, wide use of stainless steel, only the best components from top manufacturers, an intelligent safety system result in high precision, reliability and low maintenance costs.

A modern touch-screen monitor and user-friendly **EasyEdge** software make **MILLENNIUM Double Head** management simple and enjoyable.

Due to these and many other features **MILLENNIUM Double Head** is synonymous to high technology and efficiency.





# PERFECT COMBINATION OF ROBUSTNESS AND PRECISION

## 1. SOLID STRUCTURE

**MILLENNIUM Double Head** has a solid monoblock structure self-supported on 6 levelled slabs.

It is made of stabilized milled steel to guarantee strength, solidity, protection and safety. Steel parts are sand-blasted, double coated with zinc and finished with two layers of high quality industrial paint.

The monoblock structure facilitates machine transportation, assembly and installation. It also provides for increased resistance to vibrations that results in higher precision of finishing.

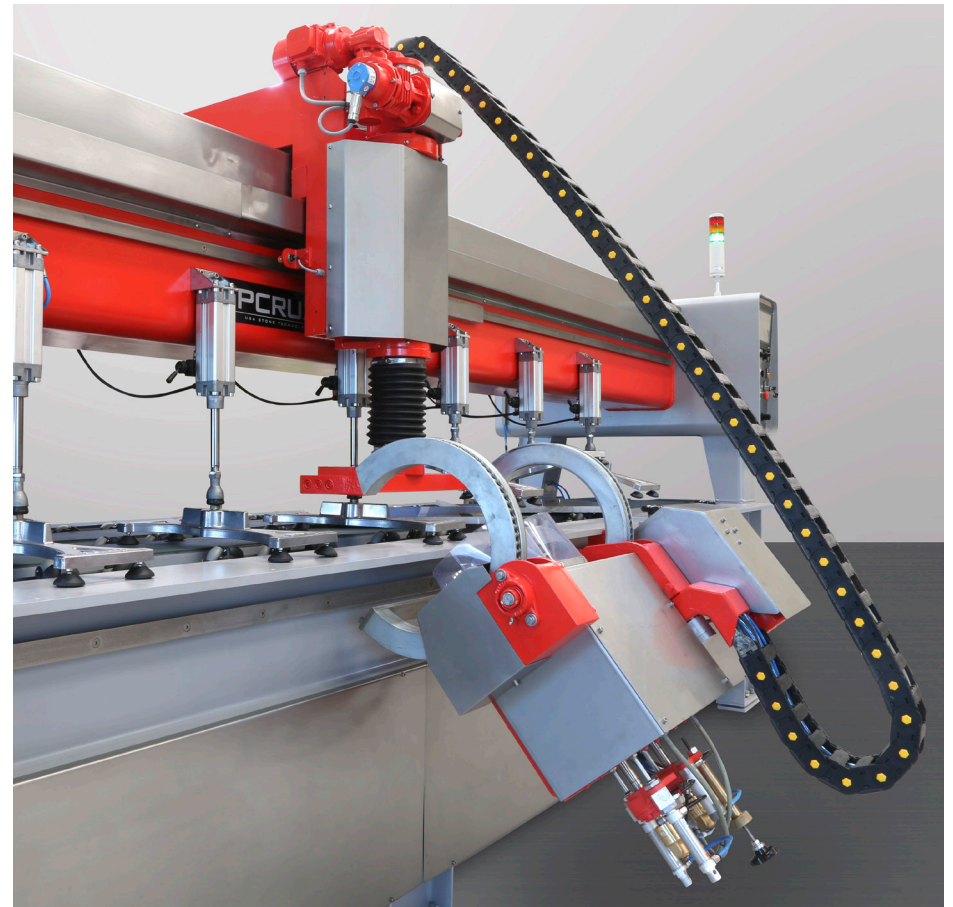
**MILLENNIUM Double Head** has total stainless steel protection from water and dust resulting in very low maintenance costs.



## 2. HIGH PRECISION MOVEMENTS

**MILLENNIUM Double Head** is equipped with high-accuracy linear guides immersed in oil baths and totally protected from water and dust with stainless steel and requires no maintenance.

The system is identical to the one used in our CNC machines.

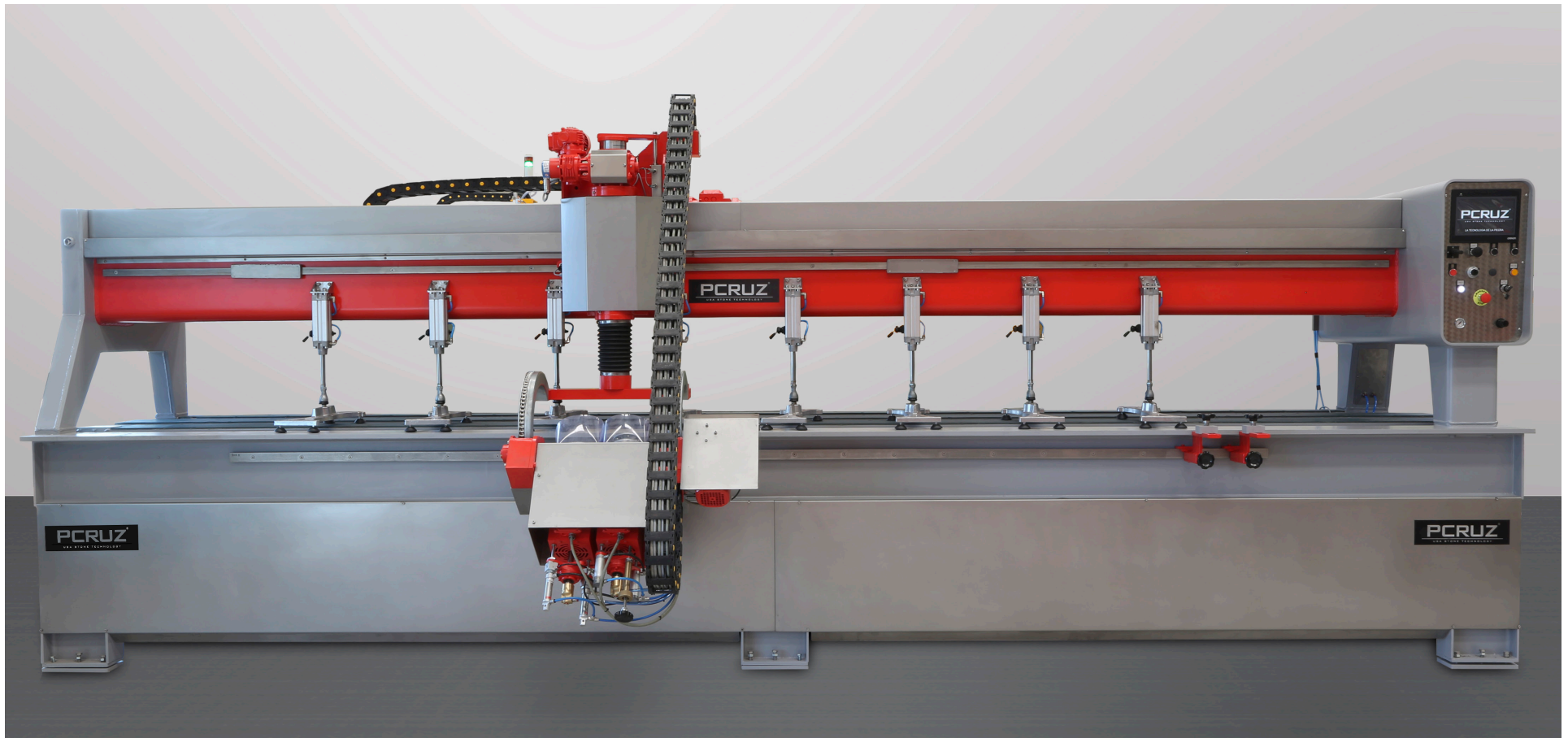


### 3. INTELLIGENT COMBINATION OF CALIBRATING AND POLISHING HEADS

Each head of **MILLENNIUM Double Head** is equipped with a direct motor. Water for tool refrigeration goes inside motor axes.

The heads' group can rotate from 0° to 180°. Vertical movements are performed by means of a chromed rod which ensures robustness of the entire head structure. The calibrating head features automatic regulation of tool pressure to ensure optimal conditions during the entire process and minimal tool wearing.

The polishing head has an automatic control of tool wearing which optimizes tool usage.



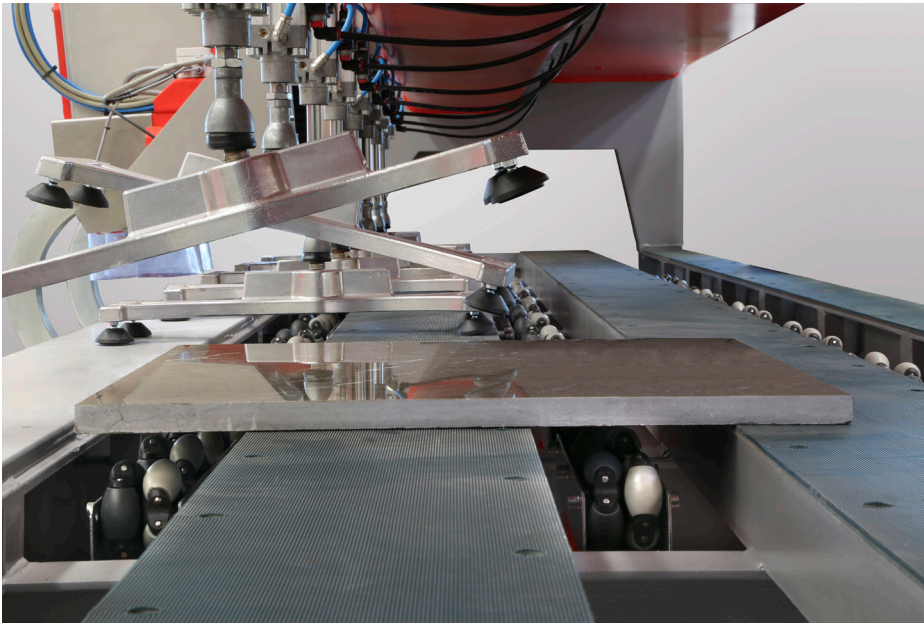


# PERFECT COMBINATION OF ROBUSTNESS AND PRECISION (CONT-D)

## 4. TABLE WITH ROLLERS FOR 360° ROTATION OF THE MATERIAL

The working table of **MILLENNIUM Double Head** is made of stabilized steel, rectified and covered with an anti-sliding PVC tape.

The table has a special roller system for 360° rotation of the material which allows for easy and fast polishing of all edges of a piece.



## 5. PNEUMATIC SYSTEM FOR MATERIAL FIXATION

**MILLENNIUM Double Head** is equipped with an automatic system for reliable fixation of material. It is composed of 8 independent working arms supplemented with pneumatic systems.

### System for backslash fixation [optional]

Special aluminum supports designed to add width to narrow pieces ensure their perfect fixation.



# TECHNICAL DATA AND DIMENSIONS

## 6. HIGH SAFETY STANDARDS

We care about safety of **PCruz** machines' operation at all times.

**MILLENNIUM Double Head** has a safety system for working zone based on photocells shield and control module.

## 7. ONLY THE BEST COMPONENTS

We have carefully selected each component of **MILLENNIUM Double Head** from the best manufacturers globally and made sure that each part is available in the local market together with the best technical assistance.



### General

<b>Number of heads</b>	2
<b>Crown diameter</b>	100–130 mm / 3.9–5.1 in.
<b>Calibrating head power</b>	2.4 kW / 3.2 hp
<b>Polishing head power</b>	2.2 kW / 3 hp
<b>Forward motor power</b>	2.2 kW / 3 hp
<b>Head low / rise power</b>	0.2 kW / 0.25 hp
<b>Head rotation power</b>	0.2 kW / 0.25 hp
<b>Total power installed</b>	7.2 kW / 9.7 hp
<b>Water consumption</b>	10 l per min. / 2.6 Gal per min.
<b>Tool refrigeration</b>	Int. + Ext.
<b>Pneumatic pressure</b>	6 bar
<b>Voltage / Frequency</b>	220 or 480 V / 60 Hz

### Working speeds

<b>"X" axis</b>	60 m per min. / 197 ft per min
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### Useful axes

<b>"X" axis</b>	3,600 mm / 141.7 in.
<b>"Y" axis</b>	1,350 mm / 53.1 in. (ext. possible)
<b>"Z" axis</b>	10 mm / 0.39 in. (min)
	100 mm / 3.93 in. (max)

### Dimensions of the machine

<b>Length</b>	6,000 mm / 236.2 in.
<b>Width</b>	2,800 mm / 110.2 in.
<b>Height</b>	2,600 mm / 102.4 in.
<b>Weight</b>	4,000 Kg / 8,820 lb

*Note: Technical data are provided for information purposes only. PCruz reserves the right to make technical modifications and improvements without prior notice.*

# PCRUIZ SOFTWARE

## SIMPLE AND MULTIVARIATE



An interactive PC with a touch-screen and intuitive interface of **PCruz** proprietary **EasyEdge** software allows for easy handling of the machine. An operator can input full information on the jobs to be performed: type of the material, size, thickness, shape of the edge, as well as define the machining mode.

**EasyEdge** is a user-friendly software that does not require computer knowledge from an operator. Together with the touch-screen, it makes management of **MILLENNIUM Double Head** simple and enjoyable.

**Defining a job:** any edge you want - just touch the screen

- Define a job directly at the machine PC
  - Select one of the pre-defined shapes and customize it to the job performed by changing dimensions, radius, etc.
  - Create a new edge form

**Performing a job:** always optimal

- Automatic calculation of the material position on the table
- Generation of work cycles and corresponding adjustment of all machine parameters to perform the job in the optimal way in terms of time and tool usage
- Manual adjustments are allowed, even after the work started

**Supplement functions:** assistance and convenience

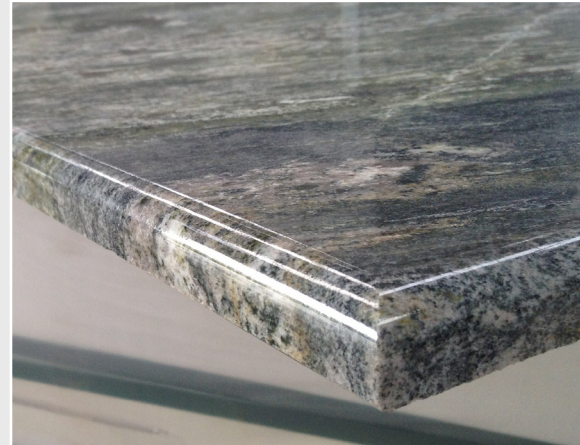
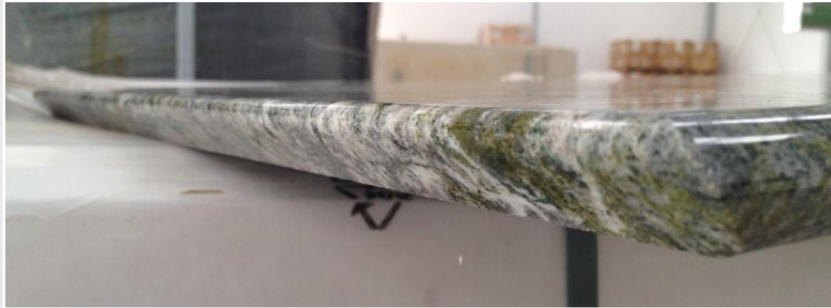
- Machine diagnostics and alarm system
- Teleassistance and telemaintenance software



# LARGE VARIETY OF EDGES

**MILLENNIUM Double Head** produces a wide range of edge types.

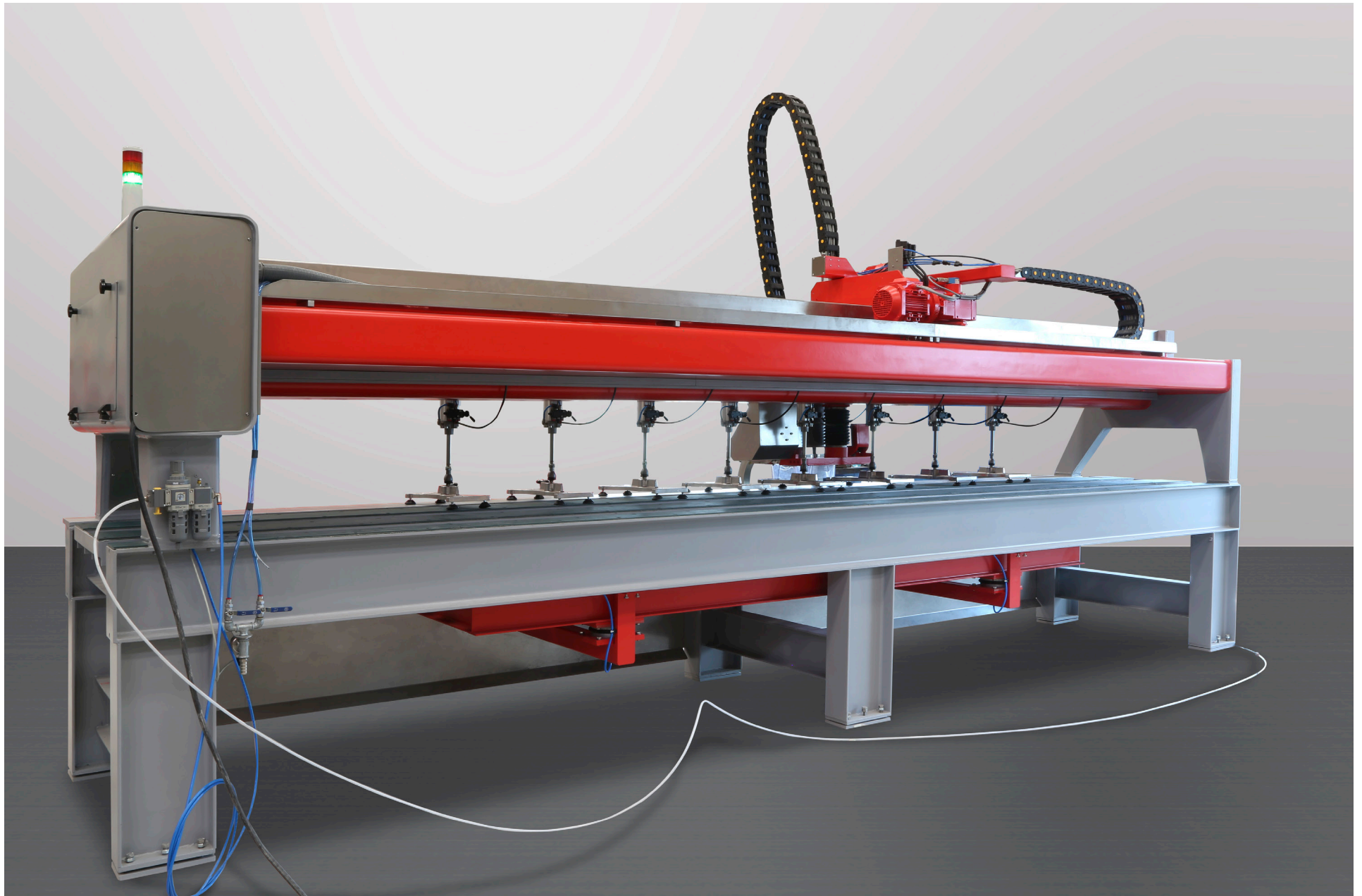
The machine is able to work with pieces of high thickness (up to 3.93 in.) which extends its application to processing tombstones, memorials, etc.



# HIGH PERFORMANCE COUPLED WITH **REFINED DESIGN**



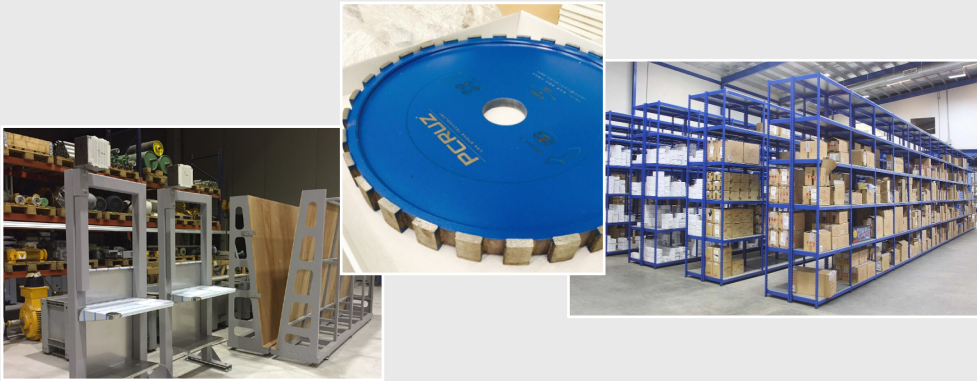






# PCRUZ USA PARTS MANAGEMENT

MINIMIZING DOWNTIME



## **Large stock of spare parts:**

We keep substantial inventory at our warehouse in Fort Lauderdale, FL, to make sure our customers timely get spare and consumable parts they might need.

## **Working with the most important international machinery suppliers:**

Most components of our machines are available in the local market allowing for efficient inventory management.

# PCRUZ USA CUSTOMER SERVICE

ALWAYS HERE FOR YOU



WE ARE COMMITTED TO PROVIDE THE LEVEL OF SERVICE AND AFTER-SALE SUPPORT MATCHING THE QUALITY AND MERITS THAT OUR MACHINES POSSESS

## **Installation:**

Our engineers will perform all installation and commissioning works on your site.

## **Training:**

Our professionals will provide trainings for your employees, including certification and advanced seminars.

## **Software upgrade and customization:**

To ensure that your **PCruz** machines always perform at the edge of their capabilities and perfectly meet your needs, we upgrade our software and offer customization options.

## **On-site support and maintenance service:**

Our customer service team is trained to solve any issue you might have with the machine in 24 hours.

## **Remote support:**

This service, available only for CNC machines, allows our technical team to access the machine from our offices and solve electronic and mechanical problems in a very short time, even in minutes.

## **Preventative maintenance:**

We advise keeping machines in the best condition at all times to ensure the quality of work. This also extends our guarantee term.



*"To go one step ahead is a continuous challenge  
for everyone who loves innovation."*

**PEDRO CRUZ**