

MILLENNIUMCNC 5 axes Indianapolis

BRIDGE SAW



REFERENCE IN THE GLOBAL MARKET
6TH GENERATION

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 designed especially for US customers.

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



MILLENNIUMCNC 5 axes Indianapolis

NEW CONCEPT NUMERICAL CONTROL BRIDGE SAW

MILLENNIUMCNC 5 axes Indianapolis is a new concept bridge saw designed by **PCruz**. Our team of engineers and designers has worked tirelessly for years to create and refine this concept which will allow fabricators to customize machines to satisfy all their cutting needs in the future.

The customer will be able to select various options to modify the machine, e.g., add the production line or combine waterjet with blade. These options will allow to significantly increase productivity, perform special jobs and get other targets.

This machine was engineered on the foundation of our top-ranking bridge saw **MILLENNIUMCNC 5 axes Monoblock** and shares all of its top-level features guaranteeing high precision and the utmost durability: all motion systems immersed in oil baths, full stainless steel protection, absence of transmissions.

Possibility of further modifications coupled with high quality of components, high level of accuracy, special design, advanced technological level, ease of management makes **MILLENNIUMCNC 5 axes Indianapolis** the bridge saw of choice for many fabricators.



ON-SHOULDER STRUCTURE

PRECISION AND QUALITY

MILLENNIUMCNC 5 axes Indianapolis has an on-shoulder structure requiring no concrete walls for installation.

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.

Linear precision guides of **MILLENNIUMCNC 5 axes Indianapolis** are immersed in oil which allows to achieve high speed and precision of both longitudinal and transversal movements while requiring a minimal maintenance.





TECHNICAL DATA AND DIMENSIONS

General

Blade diameter	350–400 mm / 13.8–15.7 in.
Main motor power	15 kW / 20 hp
Speed control	15 kW / 20 hp Speed Variator
Hydraulic central power	1.5 kW / 2 hp
Water consumption	10–15 l per min. / 2.6–4.0 Gal per min.
Voltage / Frequency	220 or 480 V / 60 Hz

Working speeds

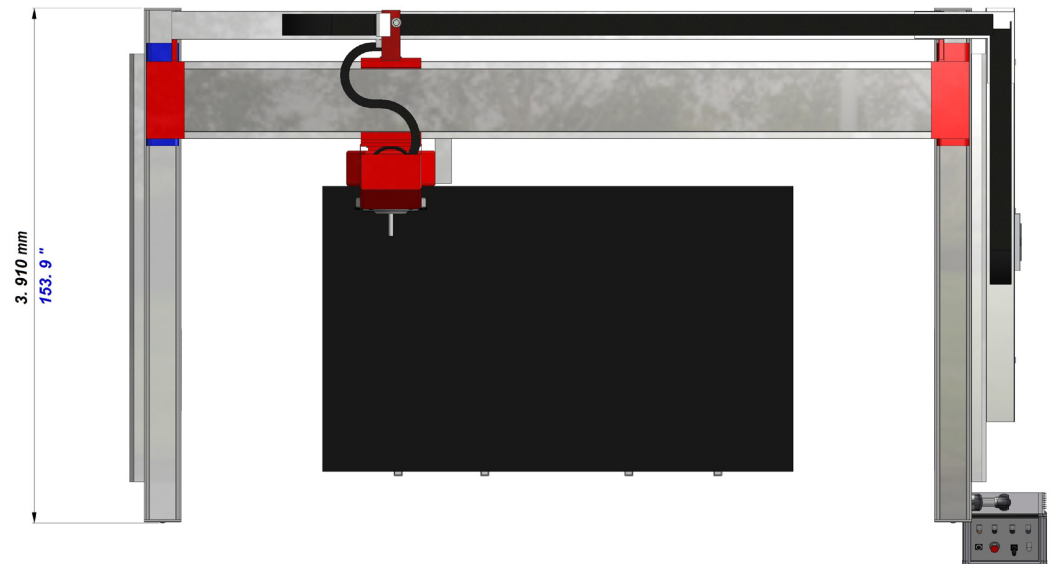
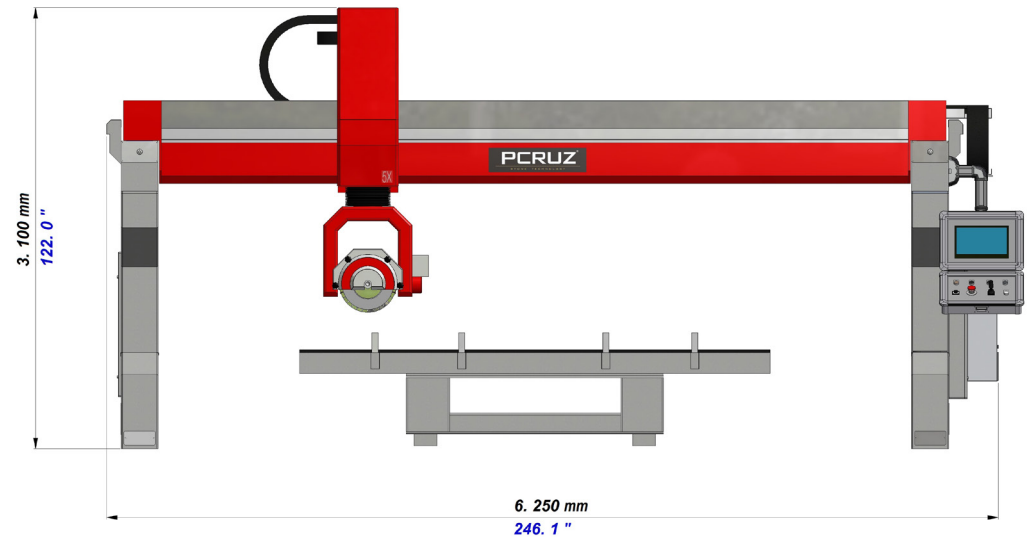
"X" axis	30 m per min. / 98.4 ft per min.
"Y" axis	30 m per min. / 98.4 ft per min.
"Z" axis	4 m per min. / 13.1 ft per min.

Useful axes

"X" axis	3,300 mm / 129.9 in.
"Y" axis	2,000 mm / 78.7 in.
"Z" axis	65 mm / 2.56 in.

Dimensions of the machine

Length	6,250 mm / 246.1 in.
Width	3,910 mm / 153.9 in.
Height	3,100 mm / 122.0 in.
Weight	6,950 Kg / 15,320 lb



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

PCRUZ SOFTWARE

SIMPLIER, MORE EFFECTIVE



An interactive PC with a touch-screen provided with **CAD-Cruz** software allows for an intuitive operation of **MILLENNIUMCNC 5 axes Indianapolis**. An operator can input information on jobs to be performed: type of material, size, thickness, geometric shape, and define the machine working mode.

Positioning a slab: quick and easy

- Tracing laser
- Introducing slab dimensions
- Digital photo imaging via artificial vision system **VisionCruz [optional]**

Defining a job: multiple ways

- Directly on the machine PC touch-screen (input data on the slab, use predefined shapes or self-created pieces to compose a job)
- By sending data from the central PC or **CruzStore** slab management system
- By importing DXF files via web or Pen-Drive

Performing a job: always optimal

- Automatic adjustment of all parameters of the machine to optimize work (cuts sequence, speed of cutting and tool rotation); manual adjustments possible
- Preparation of new jobs while the machine is in a cutting mode
- **WorkDone** software for storing information on performed jobs

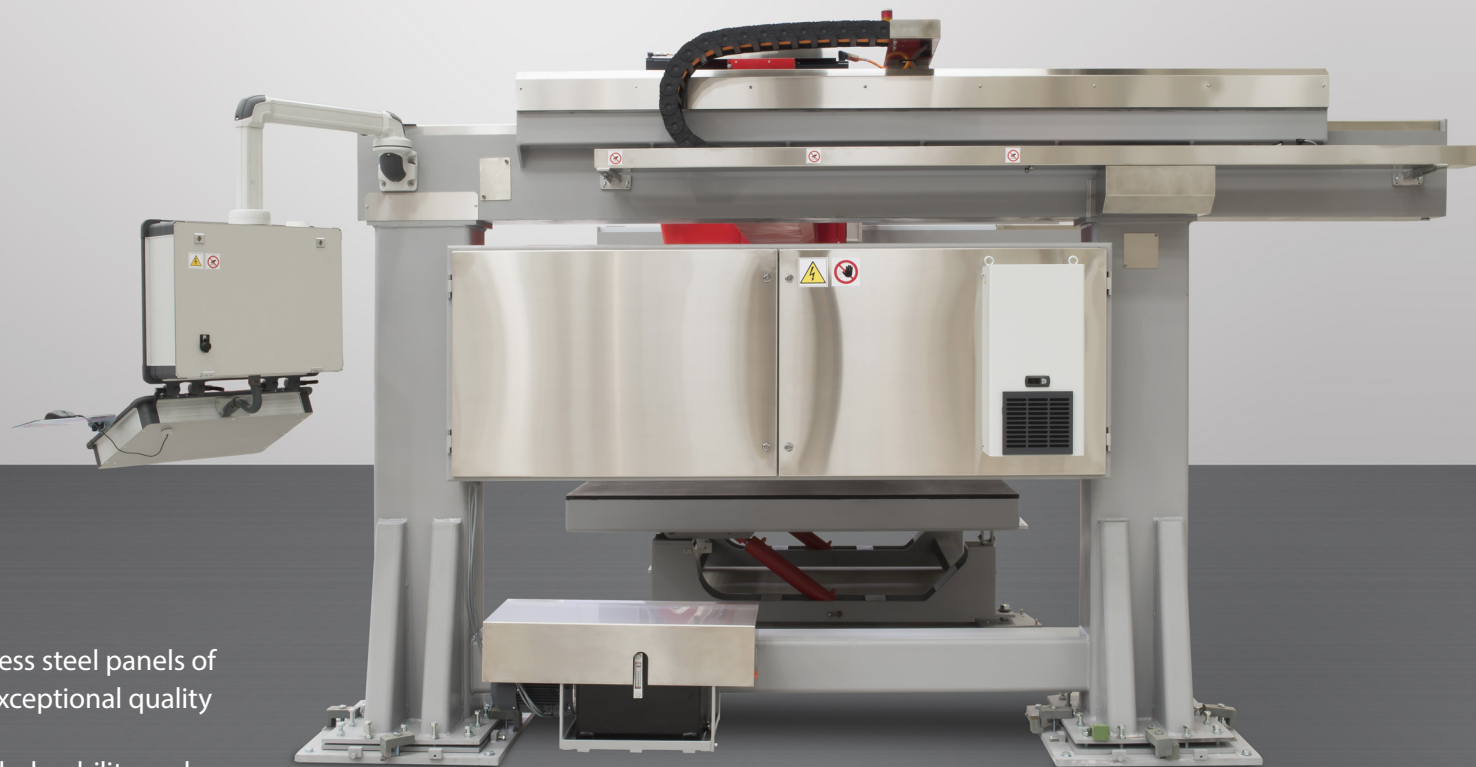
Supplement functions: assistance and convenience

- Machine diagnostics and alarm system
- Teleassistance and telemaintenance software



HIGH PERFORMANCE COUPLED WITH **REFINED DESIGN**





Stainless steel panels of
the exceptional quality

High durability and
simple cleaning

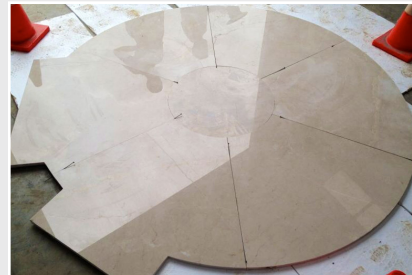
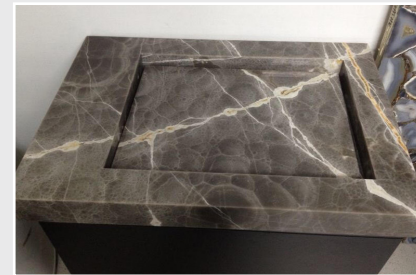
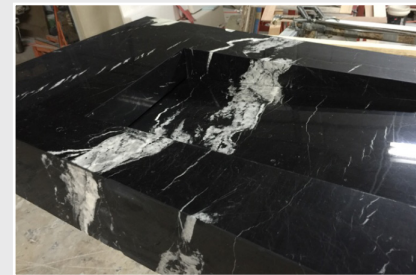
MULTIPLE FUNCTIONS



MILLENNIUMCNC 5 axes Indianapolis job range includes:

- Design floorings (hexagon, pyramid, etc.)
- 3D moldings (fireplaces, frames, etc.)
- Bathroom countertops
- Kitchen countertops (islands, L-shapes, etc.)
- Tables (round, elliptical, etc.)

MILLENNIUMCNC 5 axes Indianapolis excellently performs fine and complex jobs.

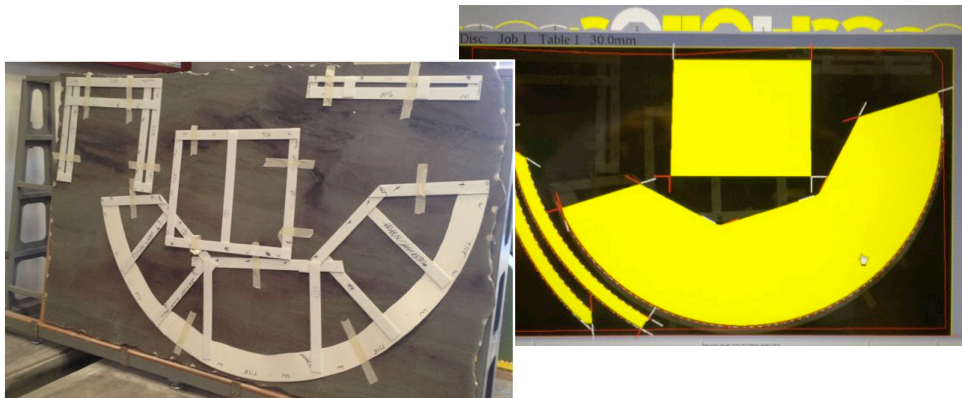


OPTIONAL EQUIPMENT

1. **VISIONCRUZ** ARTIFICIAL VISION SYSTEM

The artificial vision system can be installed on **MILLENNIUMCNC 5 axes Indianapolis** to enable easy and quick locating of material, detecting of defects and simplified job definition from the office PC.

The system includes a high resolution digital camera, a special software and a memory card for the machine PC.



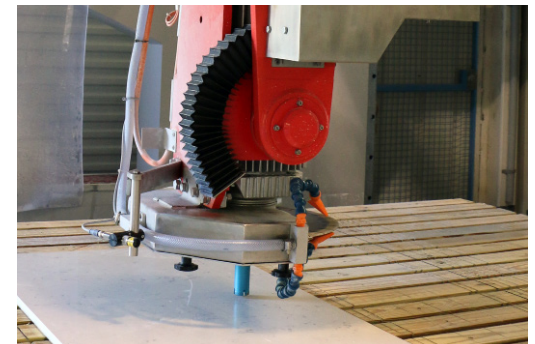
2. ADVANCED SYSTEM FOR 45° MITER CUTTING

MILLENNIUMCNC 5 axes Indianapolis can be equipped with slab thickness measurement and disc diameter control system to further improve precision of 45° miter cutting.

3. 5TH AXIS CNC 90° + DRILL

MILLENNIUMCNC 5 axes Indianapolis can be provided with a completely CNC 5th axis with disc tilting in 0-90° range. The program allows adding miter cuts with a desired inclination.

For 90° inclination, an additional drill can be used.



4A. LASER MEASUREMENT SYSTEM 2D

The digital meter can measure straight, curved or complex objects in horizontal, vertical or inclined position.

Measurement process is very agile and rapid: focus a laser point on a surface or an object and capture the level.

The level goes directly to **CAD-Cruz** software via Bluetooth and is immediately displayed on the PC screen. **CAD-Cruz** program allows making modifications and adjustments to get an excellent work. The task can be performed by one person.



4B. LASER MEASUREMENT SYSTEM 3D

With the 3D system you can perform 3D measurement of very complex objects quickly and accurately. It allows measuring vertical or horizontal elements, ceilings, windows, large surfaces, stairs, etc.

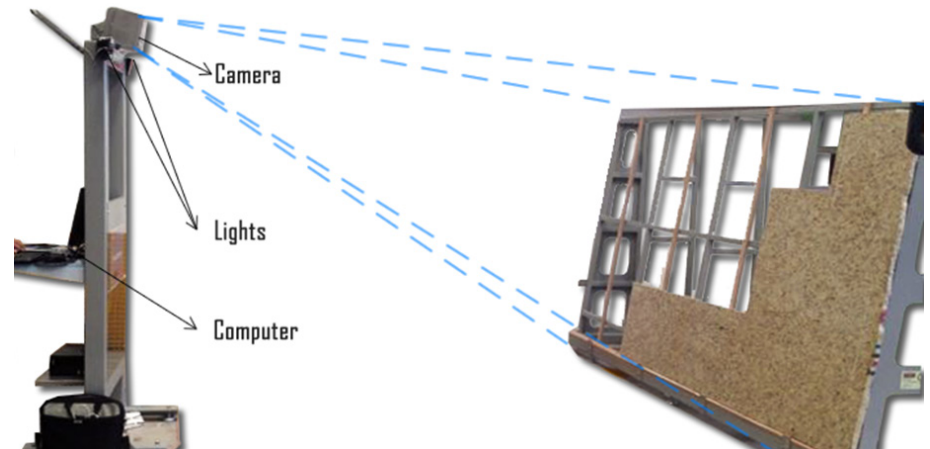
The system includes a camera capturing measurement points, a touch-screen display and an enforced briefcase.



5. CRUZSTORE SLAB MANAGEMENT SYSTEM

With this system you can manage slabs inventory by keeping a calibrated photo of each slab.

The system includes a slab support, a workstation, a high resolution digital camera, a PC equipped with **CruzStore** software, a barcode scanner.

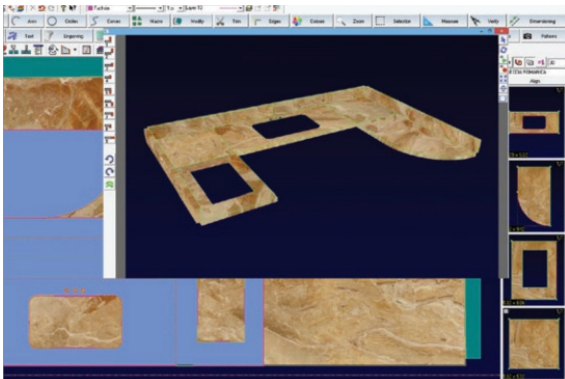


OPTIONAL SOFTWARE

1. VEIN MATCHING SOFTWARE

This software is available for **VisionCruz** option and allows simulating how a countertop is to be cut before launching the work.

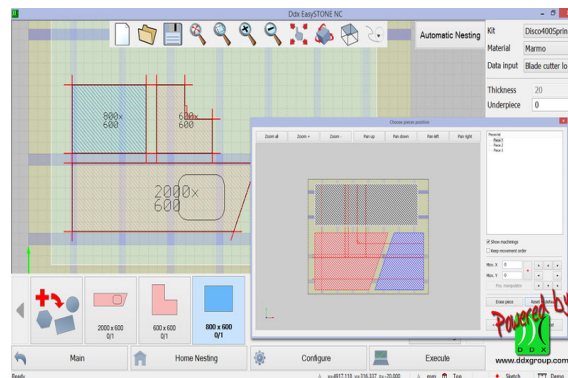
This allows defining the entire job layout on the selected slab before making a first cut. The simulation is done using an actual photo of the slab ensuring high accuracy of the result.



2. NESTING SOFTWARE

The software is designed for processing of rectangular pieces (floorings) and allows for optimization of slabs and cuts sequence.

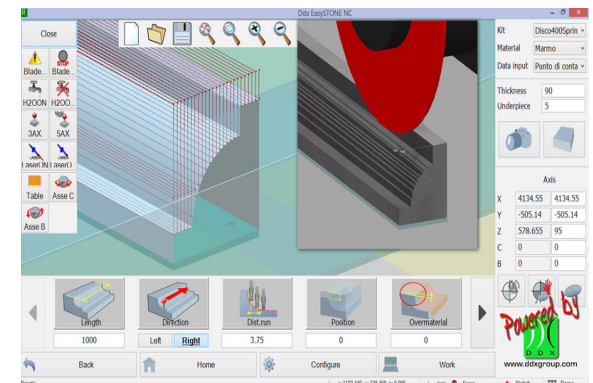
An operator can separate different pieces before proceeding with cutting for further optimization of the material.



3. MOLDING COPIER SOFTWARE

With our molding and relief software you can design any 3D shape workable by a disc. The system will perform the work optimizing the number of passes depending on the curvature and producing a flawless result.

The software has a number of parameterized profiles to avoid starting from scratch.



ONLY THE BEST COMPONENTS

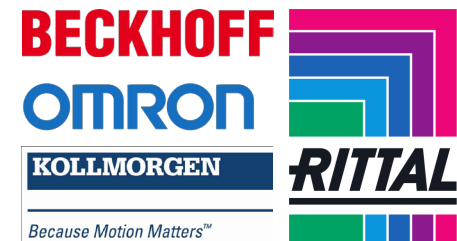


We have carefully selected each component of **MILLENNIUMCNC 5 axes Indianapolis** and made sure that each part is available in the local market.

The electrical panel has a cooling system to reduce wearing of electric components.

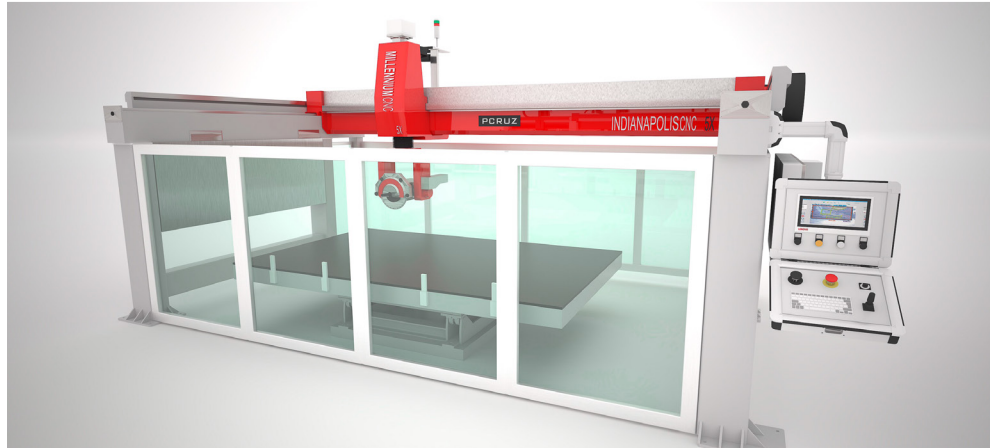
The industrial PC is waterproof and multitouch converting **MILLENNIUMCNC 5 axes Indianapolis** management into enjoyable experience.

CNC system is developed by Beckhoff, an international firm with global presence.

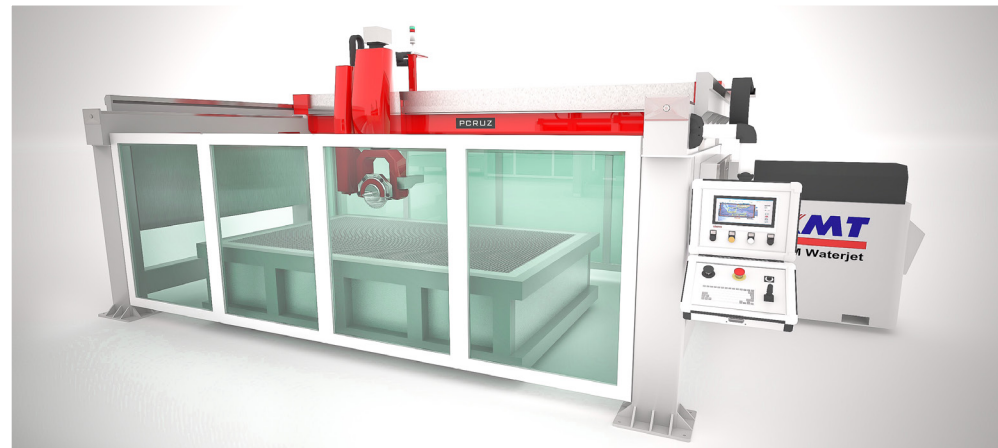


MILLENNIUMCNC 5 axes Indianapolis

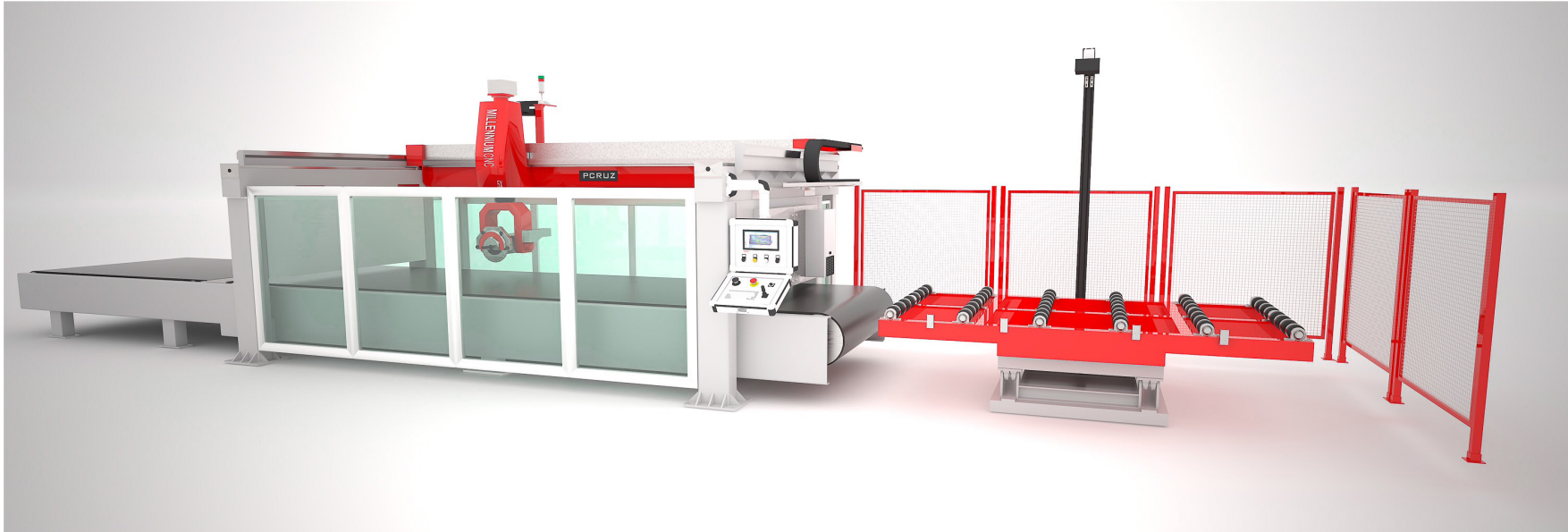
MULTIPLE OPTIONS



MILLENNIUMCNC 5 axes Indianapolis



MILLENNIUMCNC 5 axes Indianapolis CUT & JET



MILLENNIUMCNC 5 axes Indianapolis High Production



MILLENNIUMCNC 5 axes Indianapolis CUT & JET Double Table

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