

JDM5DC

24 auto discs changer dental milling machine



5
Axis

12
Tools

24
Auto disc changer

1.8
kw
Spindle power

60000
rpm
MAX.speed

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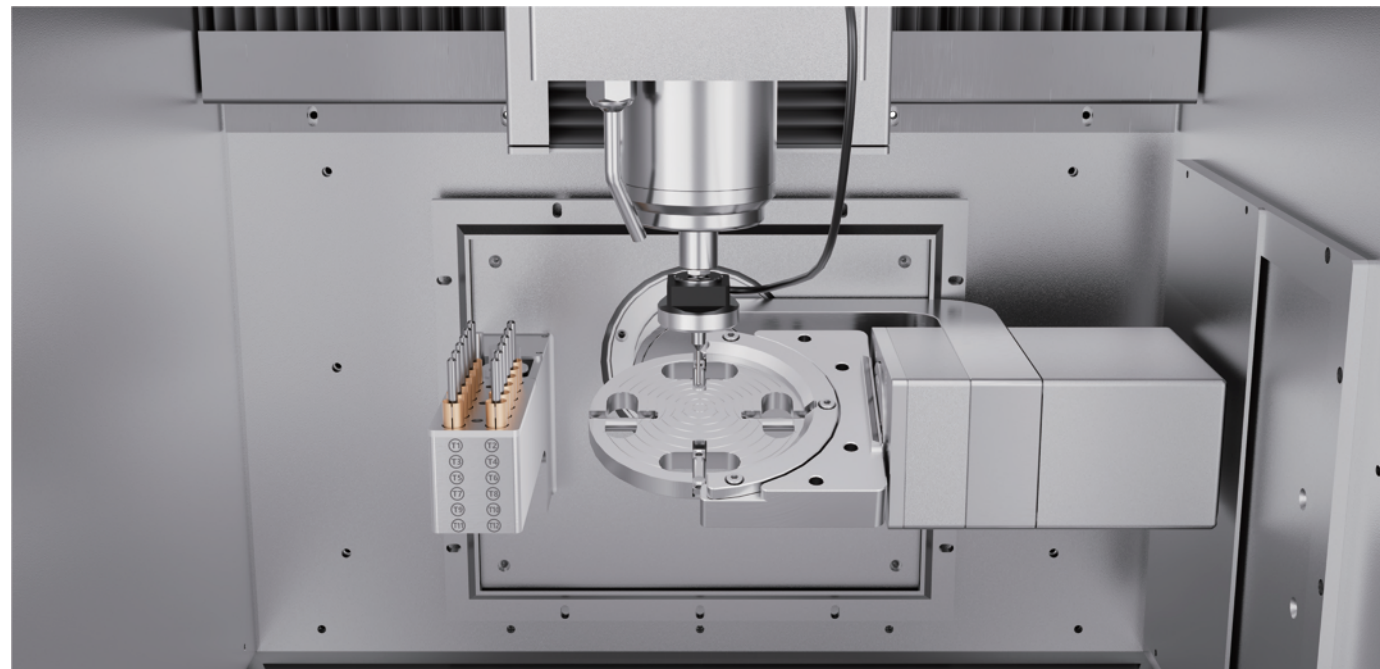
Prefect milling products!

The reason to choose JDM5DC.



Just one is enough

The JDM5DC features an integrated floor-standing structure, enhancing the machine's rigidity and stability. It is also equipped with a powerful spindle, enabling the milling of a vast range of other materials. This versatility meets the needs of many laboratories, offering a cost-effective solution for multi-purpose use.

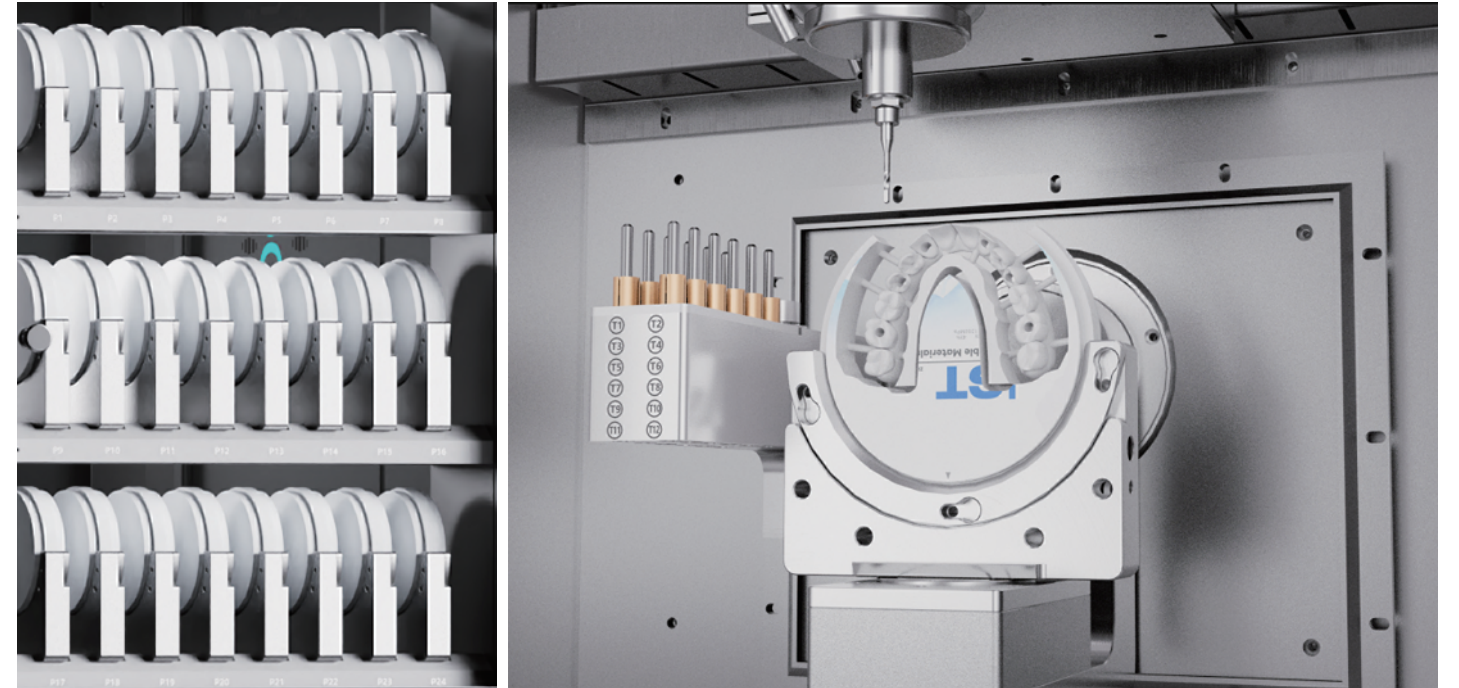


Automatic calibration

The core advantage of automatic calibration is that it standardizes, processes, and intelligentizes the professional and tedious work of calibration through technical means, ultimately achieving higher accuracy, better efficiency, and better user experience.

Unattended, Intelligent, 24-Hour Productivity

THE JDM5DC
SHOWS ITS STRENGTHS.



The fully 24 auto discs changer makes it possible to process multiple restorations successively without any delay. At the same time the system processes every restoration with the maximum precision.

The Significant Advantages of auto disc changer

Dramatically Improved Efficiency and Production Capacity

- ✧ Eliminates Downtime: Enables parallel operation of machining and material loading/unloading, allowing for nearly 24/7 uninterrupted operation.
- ✧ Significantly Increases Productive Operating Hours: Boosts equipment utilization rate from the traditional 50%-70% to over 90%, effectively doubling production capacity.

Enables Unmanned/Lights-Out Production

- ✧ Foundation of the "Lights-Out Factory": This technology is core to achieving unattended overnight production. Day-shift workers prepare all the pallets, and the machine can then run automatically throughout the night shift.
- ✧ Reduces Reliance on Skilled Operators: The loading/unloading tasks can be performed easily at the workbench without needing to operate the machine itself, reducing labor intensity and manpower costs.

DETAILS!

100% UNDERSTANDING OF THE JDM5DC

✓ 14 inch HD Touch Screen

High-definition display, real-time understanding of equipment operation status.

✓ Automatic Tools Magazine

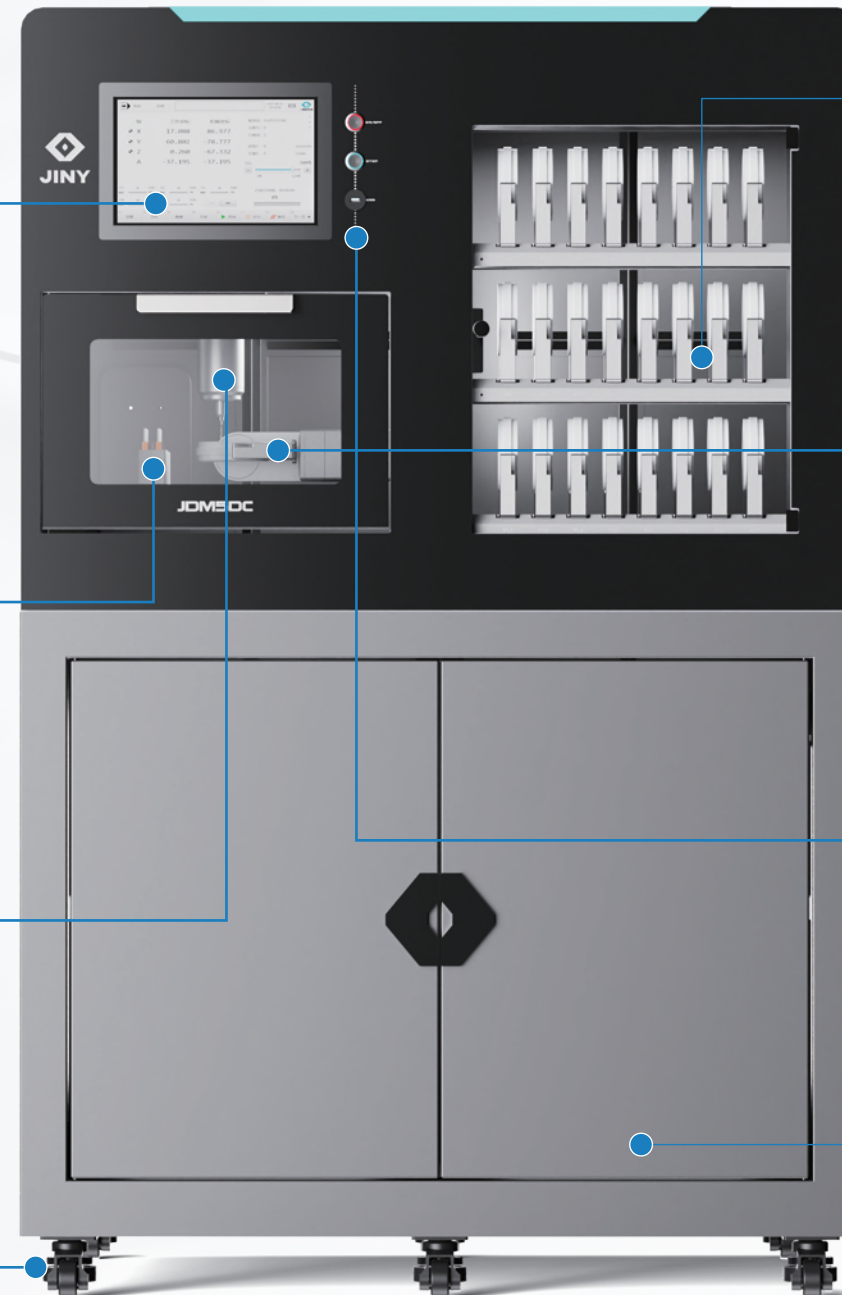
Servo driven tool magazine with 12 tool magazine can be offered for larger capacity Tool loading and unloading possible while machining.

✓ Powerful Spindle

1.8kw strong spindle, adopting efficient spindle, long service life, high precision, Water cooling

✓ Load-bearing universal wheels

More convenient to move, strong load-bearing capacity, and high stability performance.



✓ Automatic Disc Changer

24 discs can use
Grab different material trays in sequence
Separate from the work warehouse

✓ Fixtures can Choose(optional)

In wet cutting mode, other fixtures can be selected or customized fixtures can be used.

✓ Easy to Operate Buttons

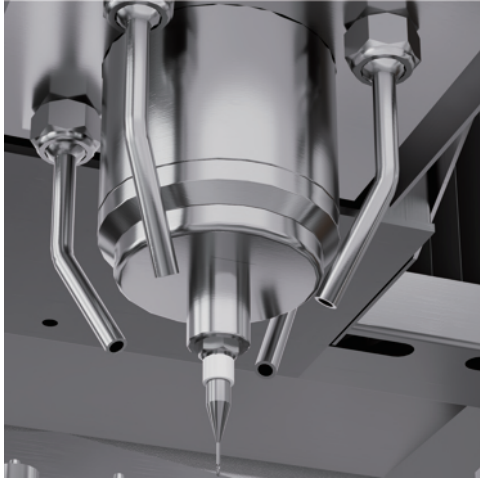
There are only three simple buttons placed on the panel, which are easy to operate and can be used directly.

✓ Large Storage Space for Accessories

Can place various accessories and supporting products such as Vacuum Cleaner .

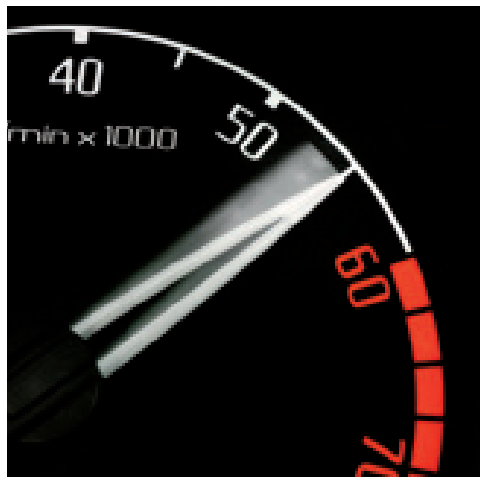
Top-Features

ALL ADVANTAGES AT A GLANCE



High Accuracy Spindle Power

- ✓ Precision ball screws provide extremely accurate linear motion due to minimal friction and backlash.
- ✓ Premium spindle with precision bearing
- ✓ powerful 1.8kW and 60,000 rpm
- ✓ High resolution encoder servo control system
- ✓ Rotary repetitive positioning high precision harmonic reducer
- ✓ $\pm 3 \mu\text{m}$ repetition accuracy



Improve Efficiency

This device is designed for 24-hour uninterrupted processing, which can maximize labor savings and is the preferred product for processing plants.

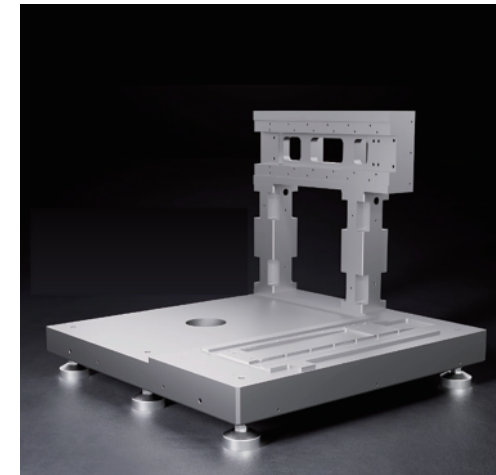
- ✓ labor-saving
- ✓ 24-hour uninterrupted work
- ✓ Power off memory function



Dry Milling Mode,Wet MILLING(Optional)

With dry processing, you can achieve fast and precise results, e.g. with zirconia, PMMA,PEEK,Wax...where these systems show their full strengths with very good surfaces and greater accuracy.

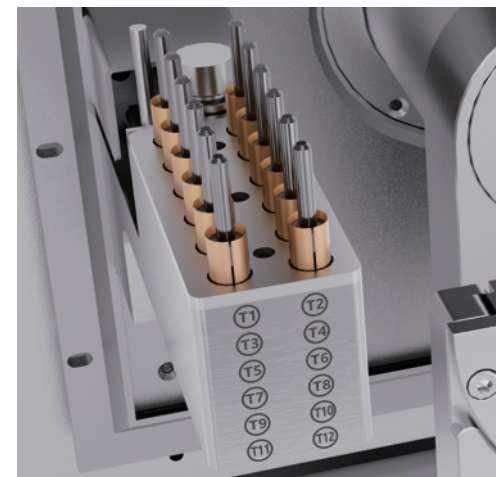
Wet processing with an integrated filter/cooling lubrication system ensures precise results with outstanding surface quality – ideal for glass ceramics, composites and especially titanium, for example.



Cast Iron Structure is More Stable

Adopting Mihanna cast iron structure, integrated molding, the body remains unchanged for 10 years without deformation.

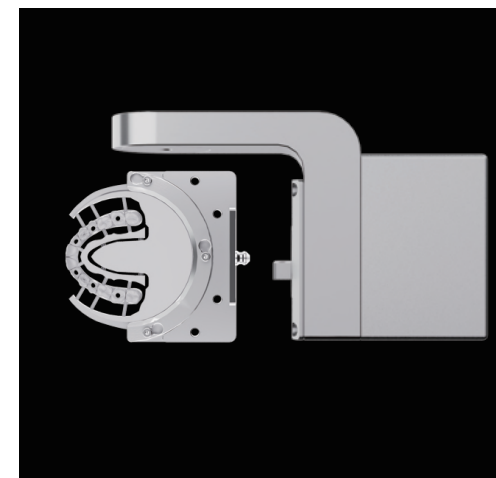
- ✓ Maximum stability
- ✓ Effective vibration damping
- ✓ Increased precision
- ✓ Longer tool life



12 Auto Tools Changer for Precision Milling

Each tool can automatically changer and finely cut the milling product. In addition, there is a tool life display for easy tool replacement in the later stage.

- ✓ Convenient tool management
- ✓ Display remaining tool life
- ✓ Wear resistant, long lifespan



Memory Positioning, Easy to Replace Fixtures

A powerful zero-point positioning system allows for quick and precise replacement of the next tray after the previous one is completed. This system significantly improves efficiency and precision while optimizing workflow, especially when processing a variety of materials.

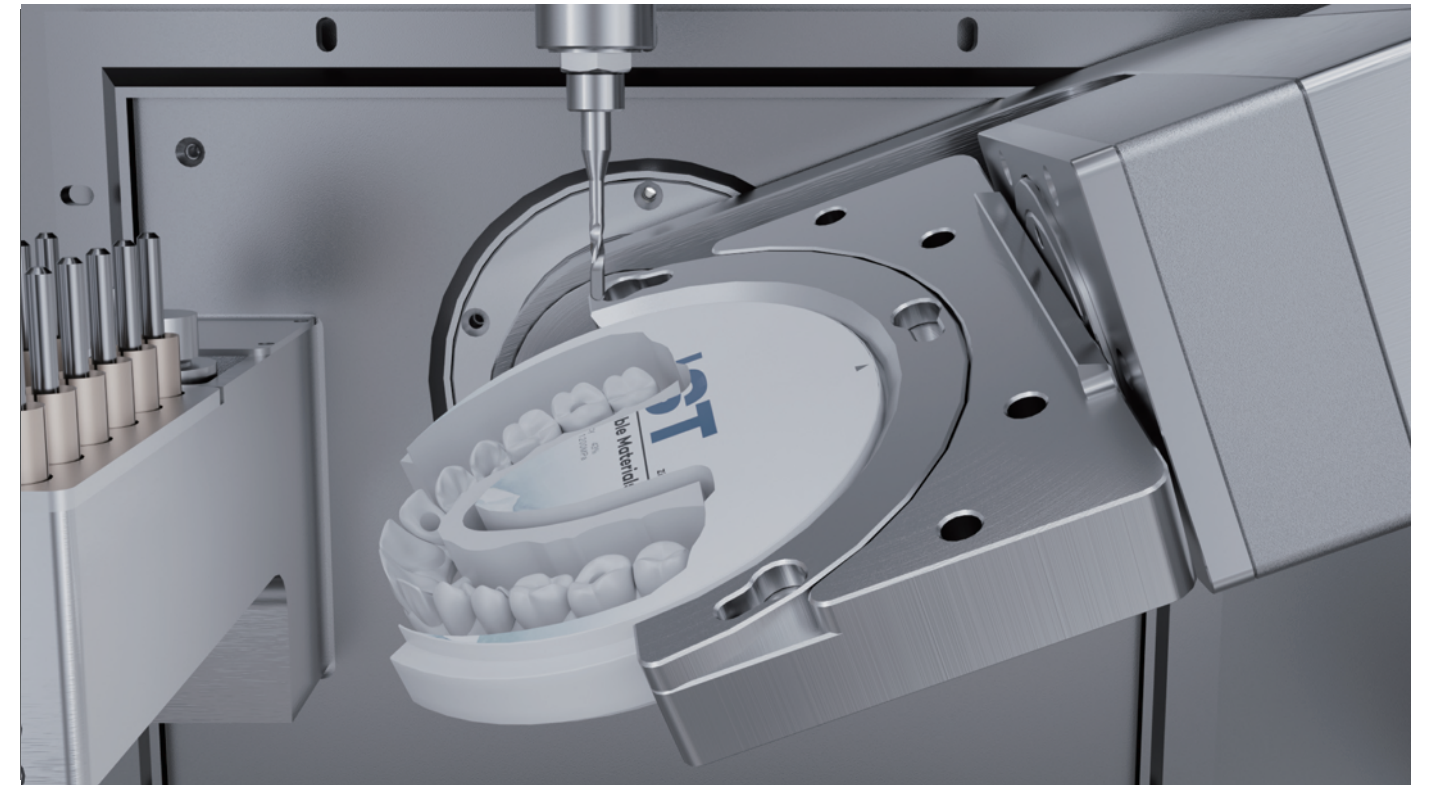
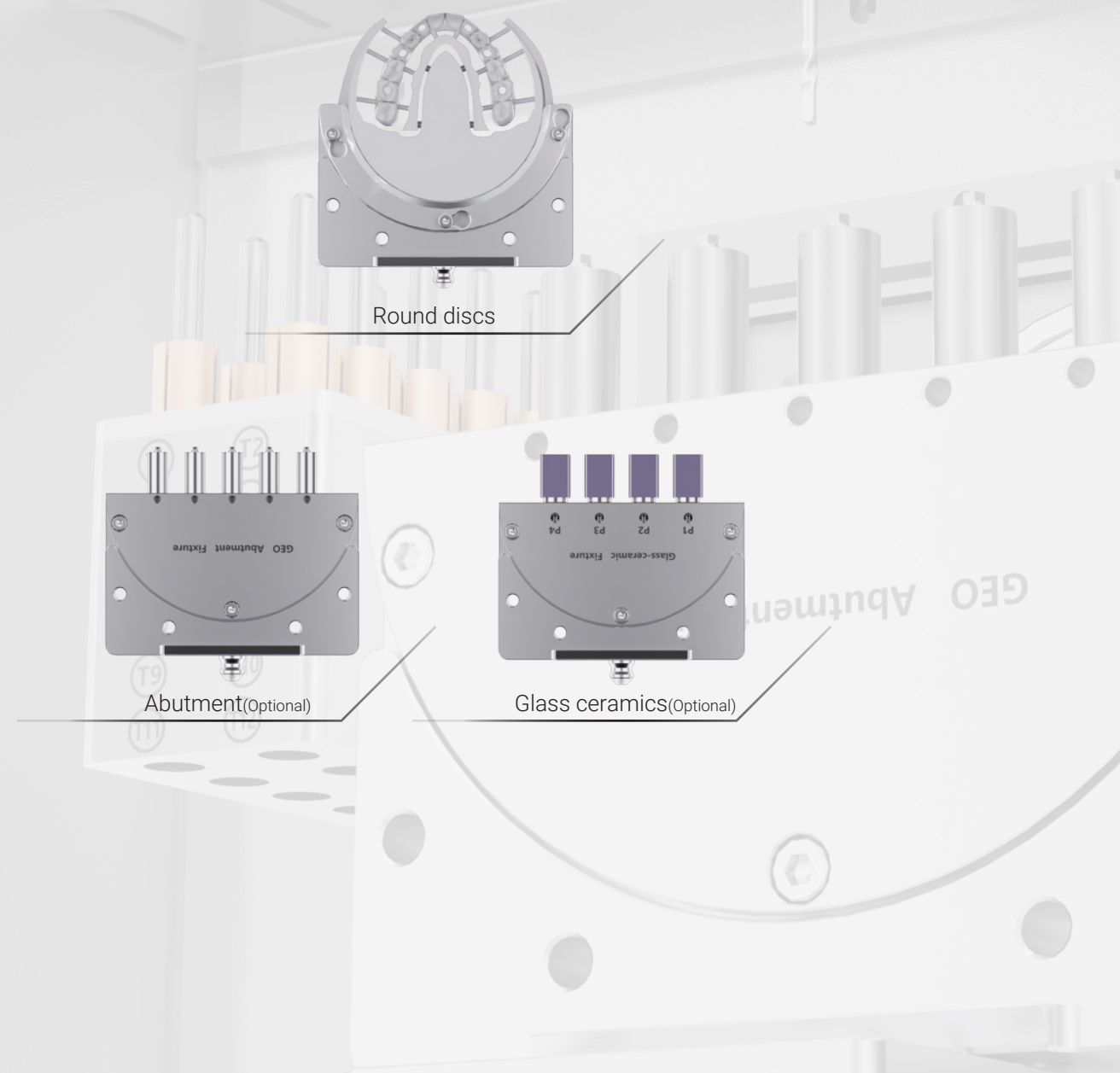
- ✓ Precise changeover without loss of position
- ✓ Compatible with a wide range of fixtures
- ✓ Maximum flexibility for different applications

Maximum Flexibility

MULTIPLE FIXTURES

Are you looking for a solution for your most demanding dental applications? The JDM5DC milling machine has been specially developed for this purpose and offers you all options in one system.

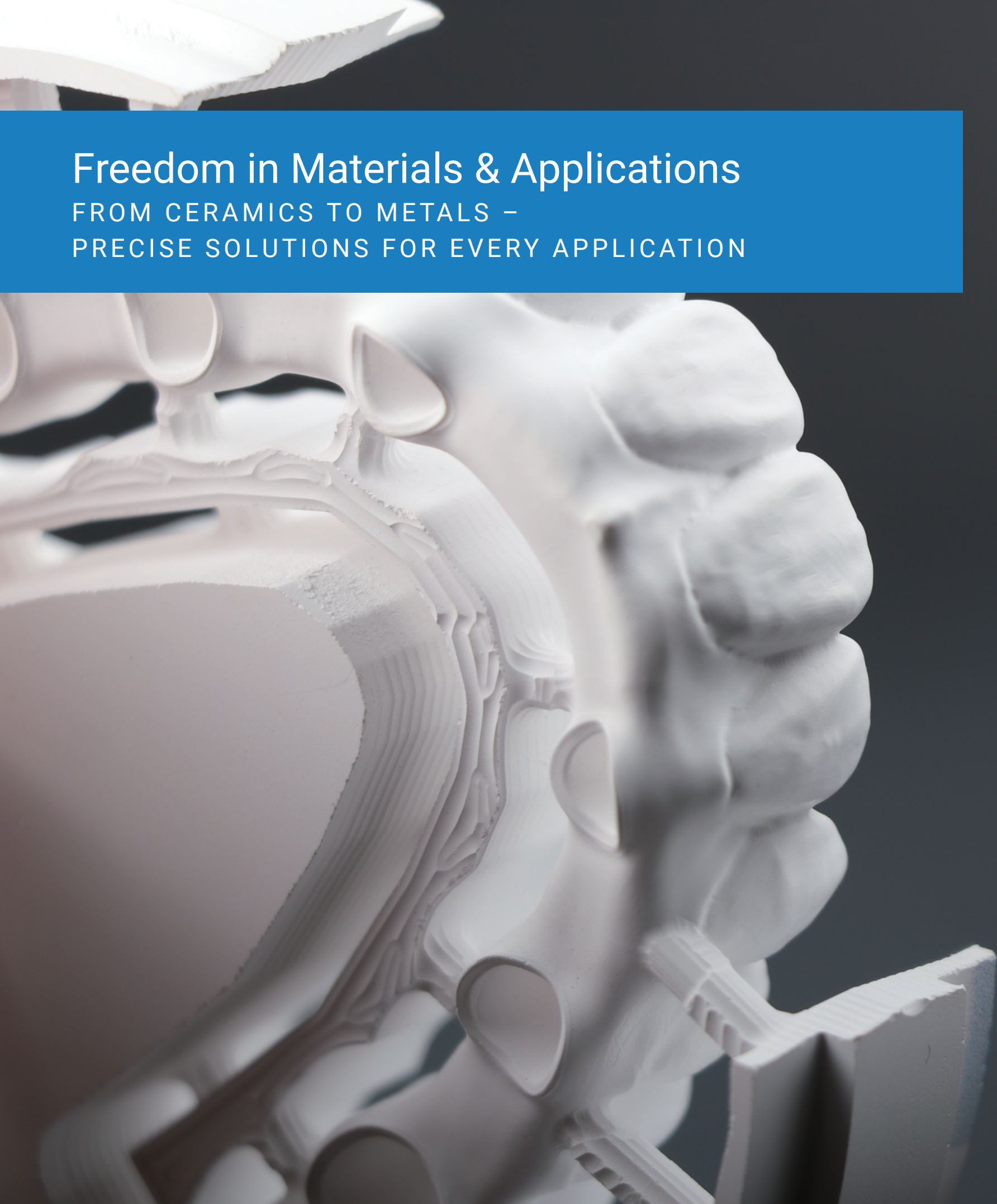
The zero point clamping system ensures exact positioning of holders and adapters and guarantees a stable connection. Virtually vibration free milling achieves high machining accuracy and first class surface quality at the same time.



JDM5DC HIGHLIGHTS

- Auto calibration
- Minimal footprint
- 12-auto tools changer
- High-frequency spindle
- Can milling many materials
- Can choose multiple fixtures to milling
- Control PC with touchscreen integrated
- Wet(Optional) and dry machining possible
- 24 auto discs changer 24-hour uninterrupted work
- High precision due to integrated temperature compensation
- Novel, closed Integrated molding structure body for stability and precision





Freedom in Materials & Applications

FROM CERAMICS TO METALS –
PRECISE SOLUTIONS FOR EVERY APPLICATION

Dry Millable Material:

WAX	PMMA
Zirconia	PEEK

(Optional)Wet Millable Material:

CoCr	Titanium
Glass ceramics	Premilled Abutments

Coping/Full Crown 	Three-Unit Bridge 	Inlay/Onlay 	Veneers 
Screw-Retained Crown 	Custom Abutment 	Thimble Bar 	Partial Denture Frameworks 
Super structures Over Bars 	Full Dentures 	Full Dentures without Teeth 	Bite Splint 

High value-added production on easy-to-use machines

Process-intensive with multitasking reduces lead times.
Both high machining capacity and large machining area on a compact machine for high value-added machining of a wide range of parts.

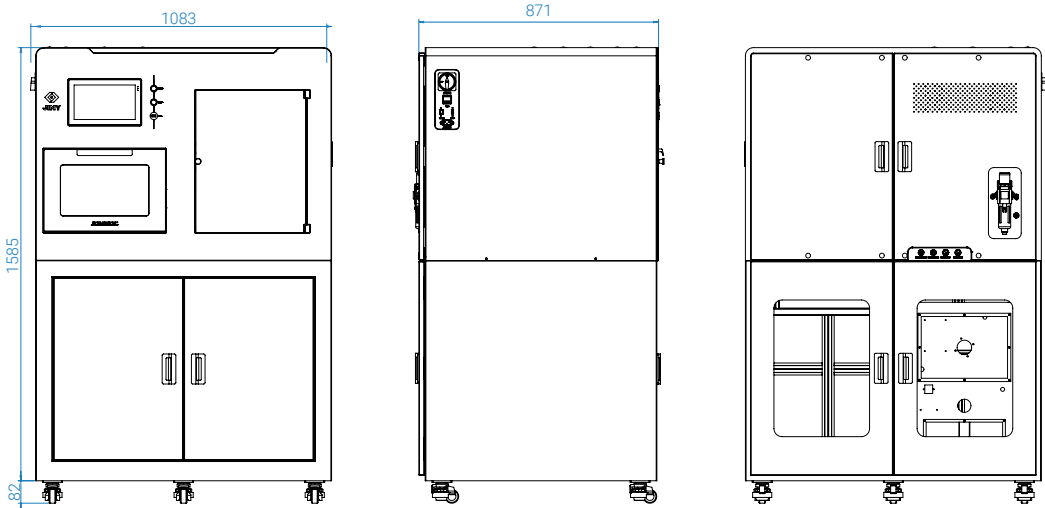


Technical Parameters

Model	JDM5DC-Dry 5 axes dental milling machine	
Machine size	1083*871*1585mm (Excluding foot cups)	
Weight	525kg	
Tool magazine	12	
Input voltage	220V	
Spindle power	1.8kw	
Machine power	3.5kw	
A/B axis milling angle	A axis 360° B axis +30° -90°	
Milling mode	Dry milling(Optional wet milling)	
MAX.Spindle speed/rpm	60,000rpm	
Processing stroke range	XYZ:186*105*110	
Spindle cooling method	Water cooling	
Millable material	(Dry milling)Zirconia,PMMA,PEEK,Wax and etc. (Wet milling)Cocr,titanium disc,premilled abutment,glass ceramics	
Average milling time	Zirconia 7-15min Glass ceramics 15-30min Titanium crown 15-20min	Implant bridge 90-180min Premilled abutment 8-13min PMMA 8-12min

Perfect Dimensions

WELL THOUGHT-OUT, IDEALIZED
CONSTRUCTION FOR MAXIMUM STABILITY



Unit:mm

WorkMachine

-46.720

-84.862

142.158

-0.008

-0.001

-268.884

-170.244

-0.004

-0.008

-0.001

File Name:

Current Line:

Tool No.: 1

Actual F: 0

Actual S: 0

mm/min

r/min

100%

0%

120%

+

-

Elapsed Time: 00:00:00

0%

1000 min

T3 1000 min

100%

100%

1000 min

100%

F3 Jiggle

F4 Manual

F5 Start

F6 Pause

F7 Reset

F8 PgDown

E-STOP

USB

