

02 | CDM5Z 5-AXIS ZIRCONIA DENTAL CAD/CAM MILLING MACHINE

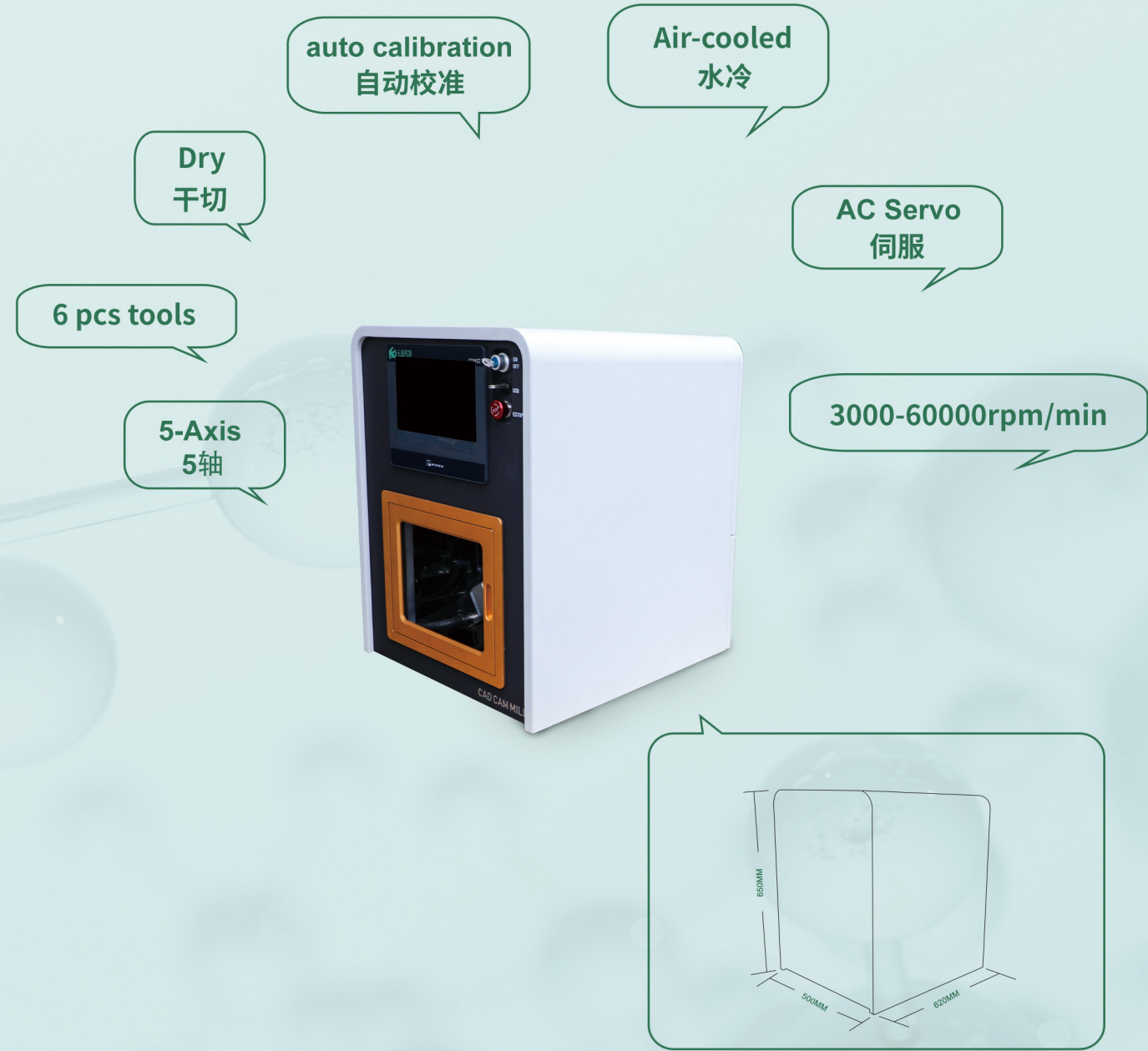
CDM5Z OVERVIEW 概述

- CDM5Z is a 5-Axis dry-milling machine for dental CAD/CAM system with wide range of materials, featuring high accuracy, durable stability and excellent compatibility. It is an ideal choice for high-precision restorations including bridges, frames, splint, abutment,base and complicated operations like zirconia perforation. Equipped with premium spindle, imported core parts, smart CAM nesting system and intelligent touch screen, CDM5Z offers better disc handling, wider material capabilities, automatic tool change to deliver a higher efficiency.

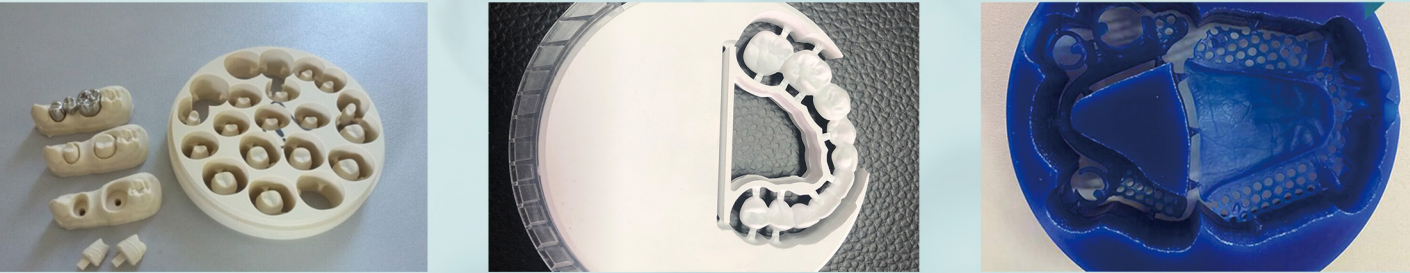
CDM5Z是一款适用于多种材料的牙科CAD/CAM系统的五轴干式切削中心，具有精度高、经久耐用等特点，稳定性好，兼容性强。是实现冠桥、支架、嵌本、内冠、贴面、基台等高精度修复体类型加工的理想选择。配备优质主轴、进口核心部件、智能CAM系统和智能触摸屏，并能提供更好的圆盘处理，适应更广泛的材料加工能力，且自动更换刀具，并提供更高CAM加工效率。

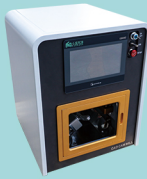
Key features 主要特性

- Compact structure 结构紧凑**
-- compact size 620mm*500mm*650mm. -- 机器尺寸是 620mm*500mm*650mm。
- Box structure 箱体式结构**
-- High rigidity,not easy to deformation. -- 高刚性，机身不易变形。
- Comprehensive alarms of the protections 全面的报警保护功能**
-- Low pressure of the air cooling; low pressure of the changing,unsuccessful returning the knife,breaking the bur when cuts,wrong type of the burs.
-- 风冷气压低报警；换刀气压低报警；还刀不成功报警；切削断刀报警；刀号错误报警。
- Open controller system 开放式控制系统**
-- This system supports international ISO standard G code, compatible with popular CAM software, such as HyperDent, Sun3d millbox,GO2dental,WorkNC dental ,Delcam Dental etc.
-- 系统支持国际ISO标准G代码，兼容市面上流行的CAM软件，例如HyperDENT,Sum3D Millbox,Go2dental,WorkNC Dental, Delcam Dental等。
- Intelligent processing 智能操作**
-- Excellent and simple man-machine interface, touch screen control, simple operation, unique CAD/CAM processing strategy, no need for professional CNC programmers, one-button operation, stable operation.
-- 卓越和简洁的人机界面，触摸屏控制，操作简单，独特的CAD/CAM加工策略，无须专业的数控编程人员，一键操作，运行稳定。
- High Efficiency 高效强劲**
-- It adopts high power frequency conversion and high speed tool changing spindle with large torque, high precision, and it can process various materials with high efficiency.
-- 采用大功率变频高速换刀主轴，扭矩大，精度高，可以加工多种材料，效率高。
- OEM customize OEM定制**
-- This machine is completely developed and designed by us, so we can provide customers with OEM service.
-- 本机完全自主研发设计，可以接受VIP客户OEM服务。
- Automatic calibration function. 自动校准功能**



CDM5Z case 案例



Machine Model 机器型号		SDM5T	CDM5Z	SDM4T (grey)	SDM4T (green)
Machine Picture 机器图片					
Machine Parameter 机床参数	Axis Quantity 轴数	5	5	4	4
	Motor 电机	AC Servo 伺服	AC Servo 伺服	AC Servo 伺服	AC Servo 伺服
	Speed of spindel 主轴转速	3000-60000rpm/min	3000-60000rpm/min	60000rpm	60000rpm
	Spindle Cool 主轴冷却	Water-cooled 水冷	Air-cooled 风冷	Water-cooled 水冷	Water-cooled 水冷
	Air pressure 气压	0.6MPa	0.6MPa	0.6MPa	0.6MPa
	Power 功率	1500KW	500W	1500W	1500W
	Weight 重量	380kg	95kg	150KG	150KG
	Number of burs(Tools) housed 刀库数量	14 pcs	6 pcs	3 pcs	3 pcs
	Positioning accuracy 定位精度	±0.02mm	±0.02mm	±0.02mm	±0.02mm
	Milling mode 切削模式	Dry/Wet 干切/湿切	Dry 干切	Dry 干切	Dry 干切
Machinable Material 加工材料	Zirconia 氧化锆	✓	✓	✓	✓
	Wax 蜡	✓	✓	✓	✓
	PMMA 树脂	✓	✓	✓	✓
	Glass Ceramics 玻璃陶瓷	✓			
	Titanium 纯钛	✓			
	Peek	✓	✓	✓	✓
	Cobalt Chromium 钴铬	✓			
Machinable Products 加工产品	Coping 内冠 	✓	✓	✓	✓
	Coping Bridge 内冠桥 	✓	✓	✓	✓
	Crown 全冠 	✓	✓	✓	✓
	Crown Bridge 全冠桥 	✓	✓	✓	✓
	Telescope 套筒冠 	✓	✓	✓	✓
	Inlay 嵌体 	✓	✓	✓	✓
	Veener 瓷贴面 	✓	✓	✓	✓
	Onlay 桩核 	✓	✓	✓	✓
	Hybrid 氧化锆基台 	✓	✓	✓	✓
	Premill Abutment 预存基台 	✓			
	Abutment 基台 	✓			
	Implant Bar 种植杆卡 	✓			
	Wax RPD Framework 蜡型钢托 	✓			
	Model 牙模 	✓			
	Implant Bridge 种植连桥 	✓			
	Implant Malone Bridge 种植马龙桥 	✓			
	Full denture 全口牙 	✓			
	Orthodontic braces 正基牙套 	✓			
	Guida Chirurgica 手术导板 	✓			