

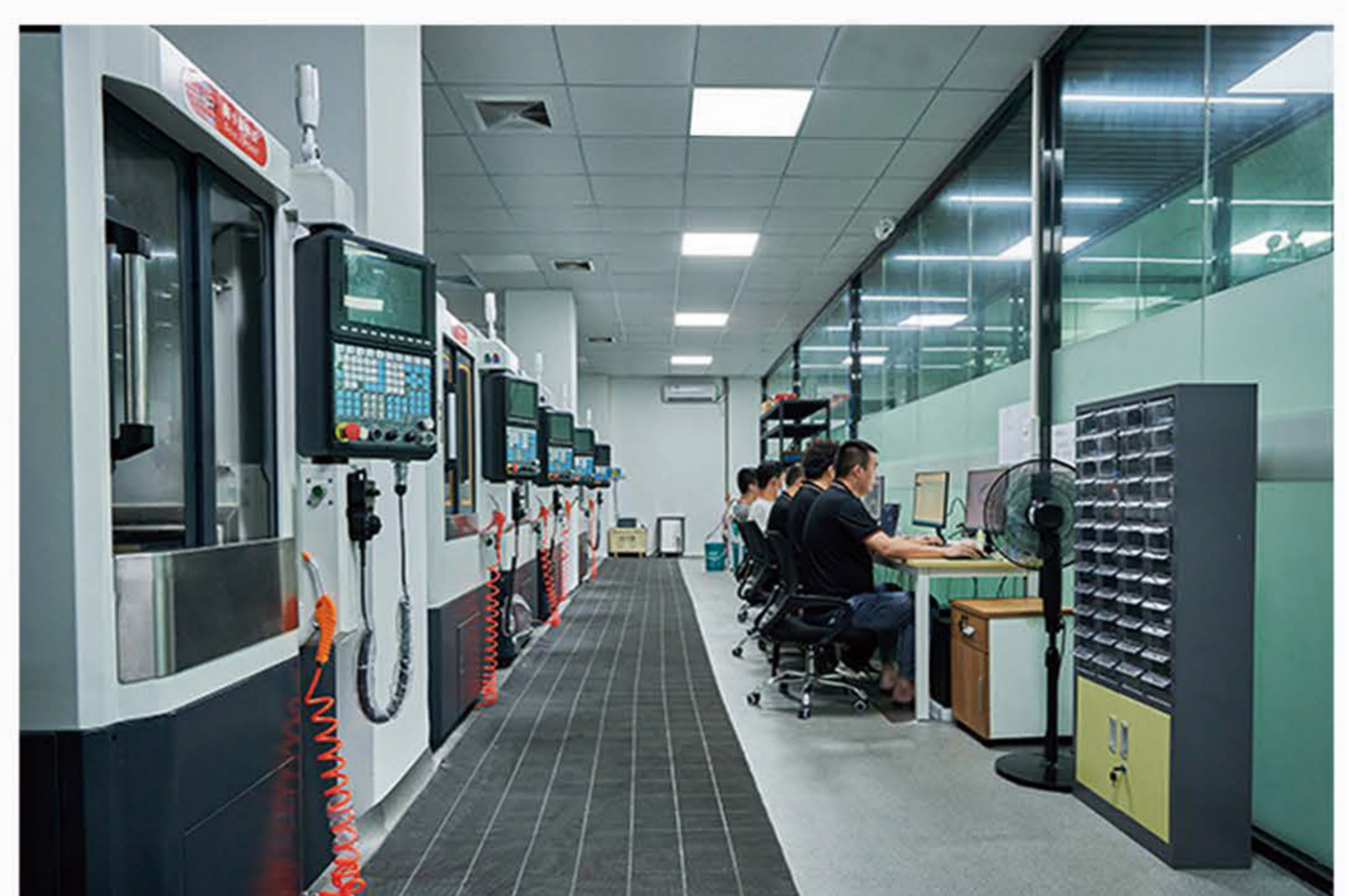
5T PRO



Multifunctional composite milling machine
多功能复合型切削机

济南敦特商贸有限公司是一家集研发、生产和销售数控系统和数控机床于一体的高新技术企业，为义齿加工提供高质量，高稳定，高精确性的加工器械。始终秉承“应用为先，品质当道”的经营理念，一直以“专业、专心、专注”为核心发展道路，经过不懈努力，打造出一支具有活力和进取精神的专业化团队。公司致力于高品质义齿加工，快速响应客户的变化需求，为行业客户提供先进、可靠、高质量的义齿切削设备及解决方案。

Glorious Dental Materials Co., Ltd. is a high-tech enterprise integrating R&D, production and sales of CNC systems and CNC machine tools, providing high-quality, high-stability and high-precision processing equipment for denture processing. We always adhere to the business philosophy of "application first, quality first", and take "professional, dedicated and focused" as the core development path. Through unremitting efforts, we have created a professional team with vitality and enterprising spirit. The company is committed to high-quality denture processing, quickly responding to customers' changing needs, and providing industry customers with advanced, reliable and high-quality denture cutting equipment and solutions.



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产品概述

支持氧化锆、蜡、玻璃陶瓷、预成钛柱、pmma、peek等多种牙科材料;功能全面，配备多款夹具可选，各种加工工艺轻松驾驭!

高性能主轴，40000rpm高转速真正的伺服驱动;4000w大功率主轴，动力强，高效切削

源自德国数控技术，5轴联动，B轴 $\pm 30^\circ$ ，A轴 $0^\circ \sim 360^\circ$ 超大角度加工，轮廓精度更高。全方位预警系统气压低、换刀失败、对刀仪损坏等情况下及时报警，为您的设备材料安全保驾护航。

高性能伺服电机:采用全伺服电机，毫秒级启动，性能可靠，控制精度更高。

刀具生命周期系统:系统自动计算刀具的使用寿命，方便您合理规划使用，避免因磨损、崩瓷等带来损失。

Product Overview

Support zirconia, wax, glass ceramic, preformed titanium post, pmma, peek and other dental materials; comprehensive functions, equipped with a variety of fixtures to choose from, a variety of machining processes easy to handle!

High-performance spindle: 40,000rpm high speed true servo drive; 4000w high power spindle, strong power, high efficiency cutting

Derived from German CNC technology, 5-axis linkage, B-axis $\pm 30^\circ$, A-axis $0^\circ \sim 360^\circ$ ultra-large angle machining, higher contour precision.

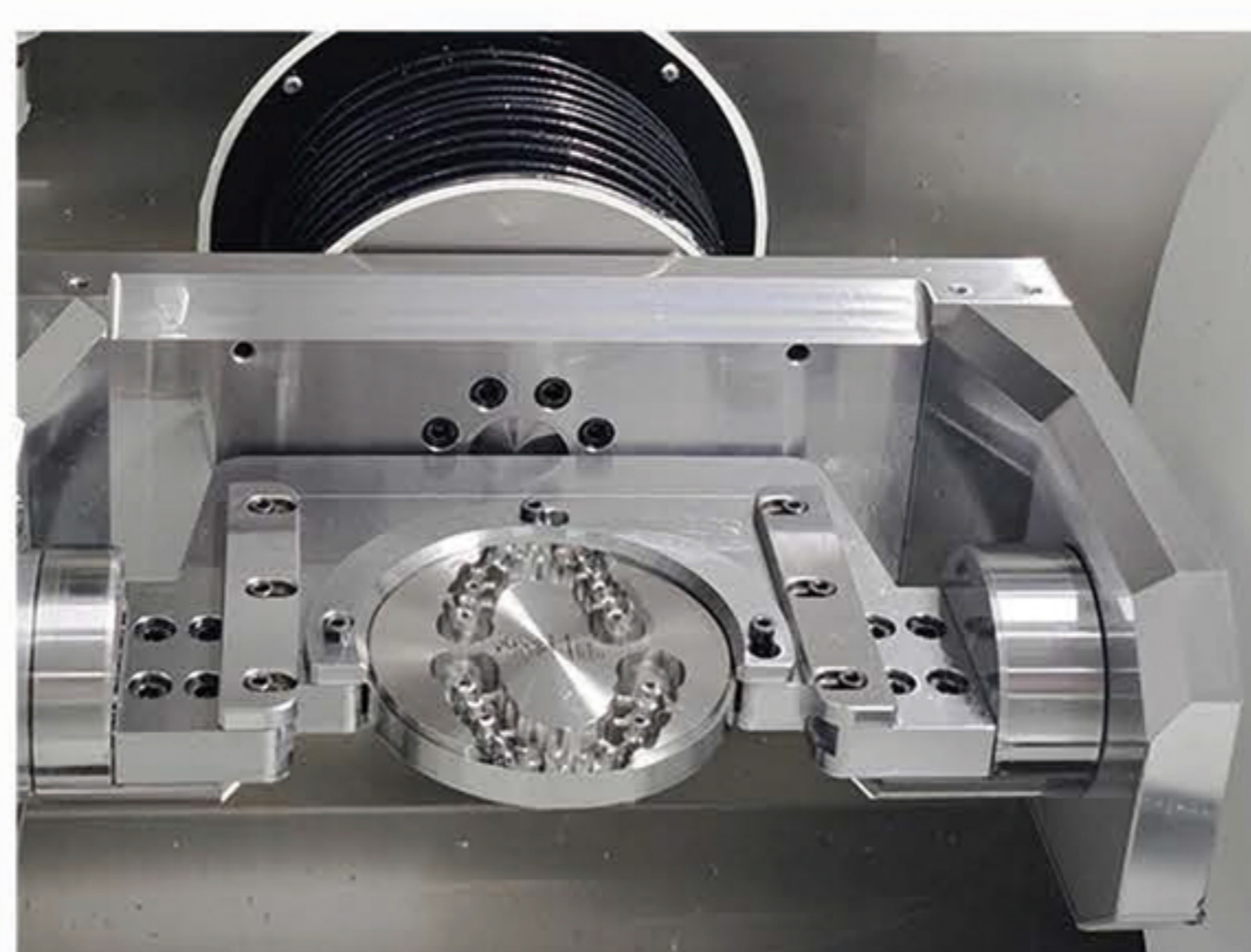
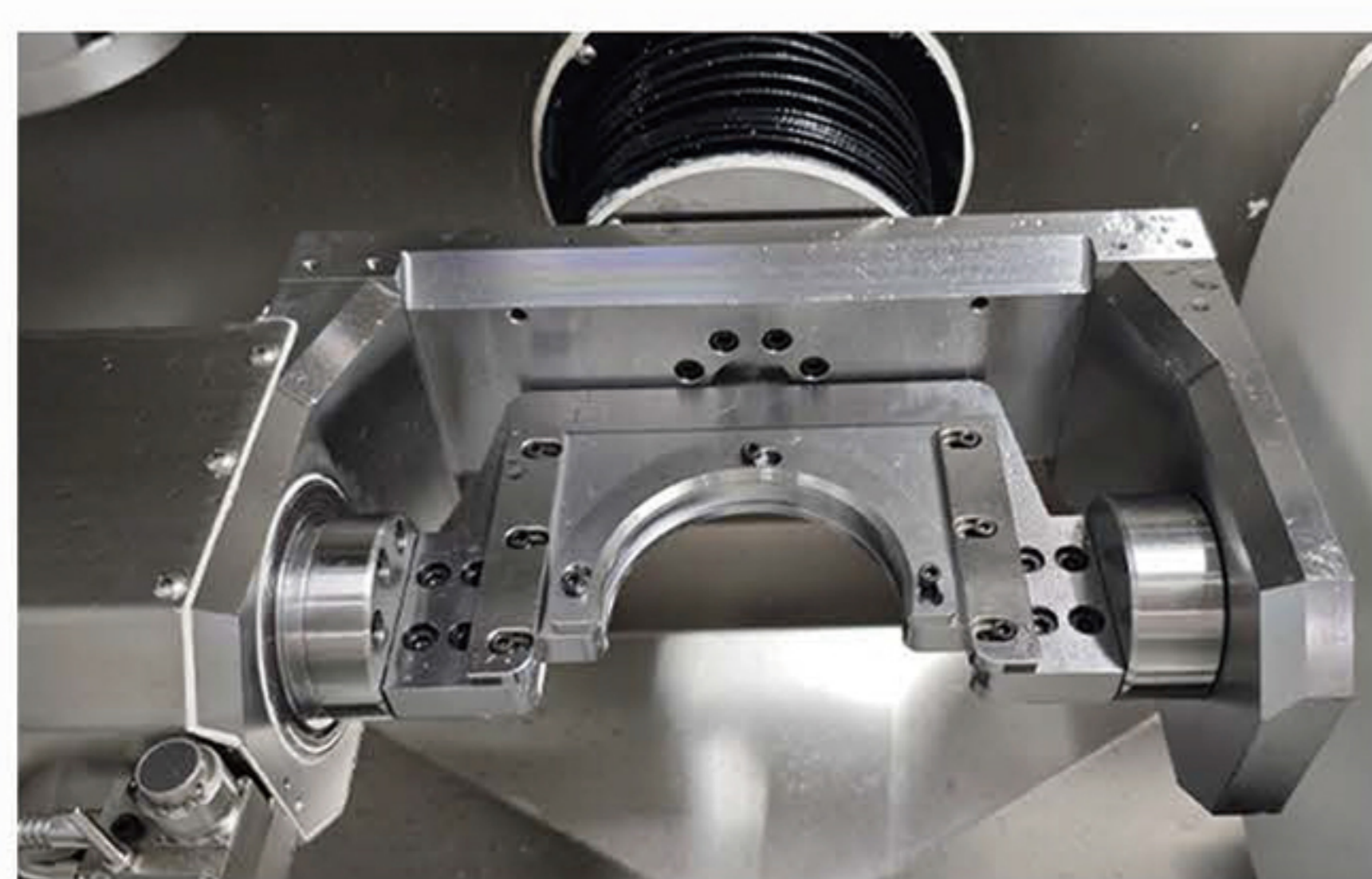
Omni-directional warning system: Timely alarm in case of low air pressure, failed tool change, damaged tool setting instrument, etc., which protects the safety of your equipment and materials.

High-performance servo motor: Adopting full servo motor, millisecond startup, reliable performance and higher control precision.

Tool Life Cycle System: The system automatically calculates the life cycle of the tool, which is convenient for you to rationally plan the use and avoid losses due to wear and chipping.

GLORIOUS

五轴全能切削机,微米级别精度切削,24H持久稳定运行,机床刚性好。丰富的材料加工类型,助您轻松完成冠桥类修复体以及长桥、桥架、支架、基托等各类高精修复体加工,亦可实现氧化锆冠稳定开孔等复杂操作。五轴全能切削机配备高精度主轴和进口核心部件灵活的新代智能系统,为自动化牙科提供更精准可靠的义齿加工解决方案。



The five-axis universal cutting machine can perform micron-level precision cutting, operate stably for 24 hours, and has good rigidity. A wide range of material processing types can help you easily complete the processing of crown and bridge restorations, long bridges, bridge frames, brackets, bases and other high-precision restorations, and can also achieve complex operations such as stable opening of zirconium chloride crowns. The five-axis universal cutting machine is equipped with a high-precision spindle and imported core components, and a flexible new-generation intelligent system, providing more accurate and reliable denture processing solutions for automated dentistry.

主要技术参数 / The main technical parameters

| | |
|---|---|
| 主轴转速:3.7KW/40000转/分钟 Spindle speed:3.7KW/40000rpm | 伺服马达功率:400W/200W Servo motor power:400W/200W |
| 刀柄规格:ISO20 Tool holder specification:ISO20 | 夹头规格:ER16 Chuck specification :ER16 |
| 刀具装夹范围:Φ1-10 Tool clamping range:Φ1-10 | 重复定位精度:±0.003mm Repeatability accuracy:±0.003mm |
| XYZ轴运行往复精度(XYZ axis running reciprocating accuracy):+0.01/300mm | 工作平面度:±0.005mm Working flatness:±0.005mm |
| 机身重量:约1.6吨 Weight:About 1.6 tons | 电力配置:三相四线380V/50HZ Power configuration:three-phase four-wire 380V/50HZ |

产品参数 / Product parameters

| 对应机型 Corresponding model | 5T PRO | |
|---|---|--|
| 四五轴配置 forth and fifth axis configuration | 德国原产减速机 German original reducer | 一弧分精度±40度(圆盘) One arcmin accuracy±40 degrees(disc) 五轴:额定扭矩88.9N.m瞬时最大扭矩312N.m 额定转速43转/分钟最高转速85 Five axes:rated torque 88.9N.m instantaneous maximum torque 312N.m rated speed 43 rpm Maximum speed 85 四轴:额定扭矩44.6N. m瞬时最大扭矩156N.m 额定转速43转/分钟最高转速85 Four-axis:rated torque 44.6N.m, instantaneous maximum torque 156N.m, rated speed 43 rpm,maximum speed 85 |
| 传动部件 Transmission components | 德国原产精密导轨及丝杆 German original precision guide rail and screw rod | 重复定位精度:±0.003mm Repeatability accuracy:±0.003mm |
| 系统 System | 台湾新代系统 Taiwan SYNTEC System | 220MA-10.4寸分离式铣床控制器 220MA-10.4 inch split milling machine controller |
| 伺服驱动 Servo drive | 品牌电机及驱动器 Branded motors and drives | 400W |
| 精密主轴 Precision spindle | 品牌电主轴 Good Brand electric spindle | 3.7kw 电主轴最高转速40000转/分钟 3.7kw electric spindle,Maximum speed 40000 rpm/min |
| 自动对刀 Automatic tool set-up | 精密对刀仪 Precision tool setter | 重复精度0.002mm Repeatability 0.002mm |
| 注油 Oiling | 注油泵润滑系统 Oil injection pump lubrication system | 定时自动注油(油脂) Timing automatic oiling(grease) |
| 主轴水冷 Water Cooling spindle | 品牌水冷机 Brand water chiller | 冷却液循环冷却流量报警 Coolant circulating cooling flow alarm |
| 快速刀库 Fast tool magazine | 品牌伺服电机 Brand servo motor | 可换装15刀 15 milling burs can be replaced |

主要配置

德国第五轴:德国阿尔法ALPHA高精度第五轴联动结构

德国第四轴:德国阿尔法ALPHA第四轴精密联动结构

德国丝杆导轨:德国力士乐REXROTH滚珠丝杆导轨,配可调螺母

台湾新代操控系统

日本伺服驱动:日本安川防油系列高分辨率伺服电机,联动效果更好

高精度主轴:CNC专用高速高精度自动换刀主轴

自动对刀:全自动对刀仪,有效补偿刀具长度

自动润滑:备运行时自动给机床导轨润滑,有效延长导轨使用寿命

主轴水冷:可设定主轴温度,连续加工时主轴不易发热,延长主轴使用寿命

油雾回收:有效回收过滤连续加工时产生的油雾,净化加工环境

Main configuration

German fifth axis: German Alpha ALPHA high-precision fifth axis linkage structure

German fourth axis: German Alpha ALPHA fourth axis precision linkage structure

German screw guide: German Rexroth REXROTH ball screw guide, with adjustable nuts

Taiwan SYNTEC Control System

Japanese servo drive: Japanese Yaskawa oil-proof series high-resolution servo motor, with better linkage effect

Precision spindle: CNC dedicated high-speed high-precision automatic tool change spindle

Automatic tool setting: fully automatic tool setting instrument, effectively compensates for tool length

Automatic lubrication: Automatically lubricates the machine tool guide rails when ready to run, effectively extending the service life of the guide rails

Spindle water cooling: The spindle temperature can be set, the spindle is not easy to heat up during continuous processing, and the service life of the spindle is extended

Oil mist recovery: effectively recover and filter the oil mist generated during continuous processing, purifying the processing environment

核心配件

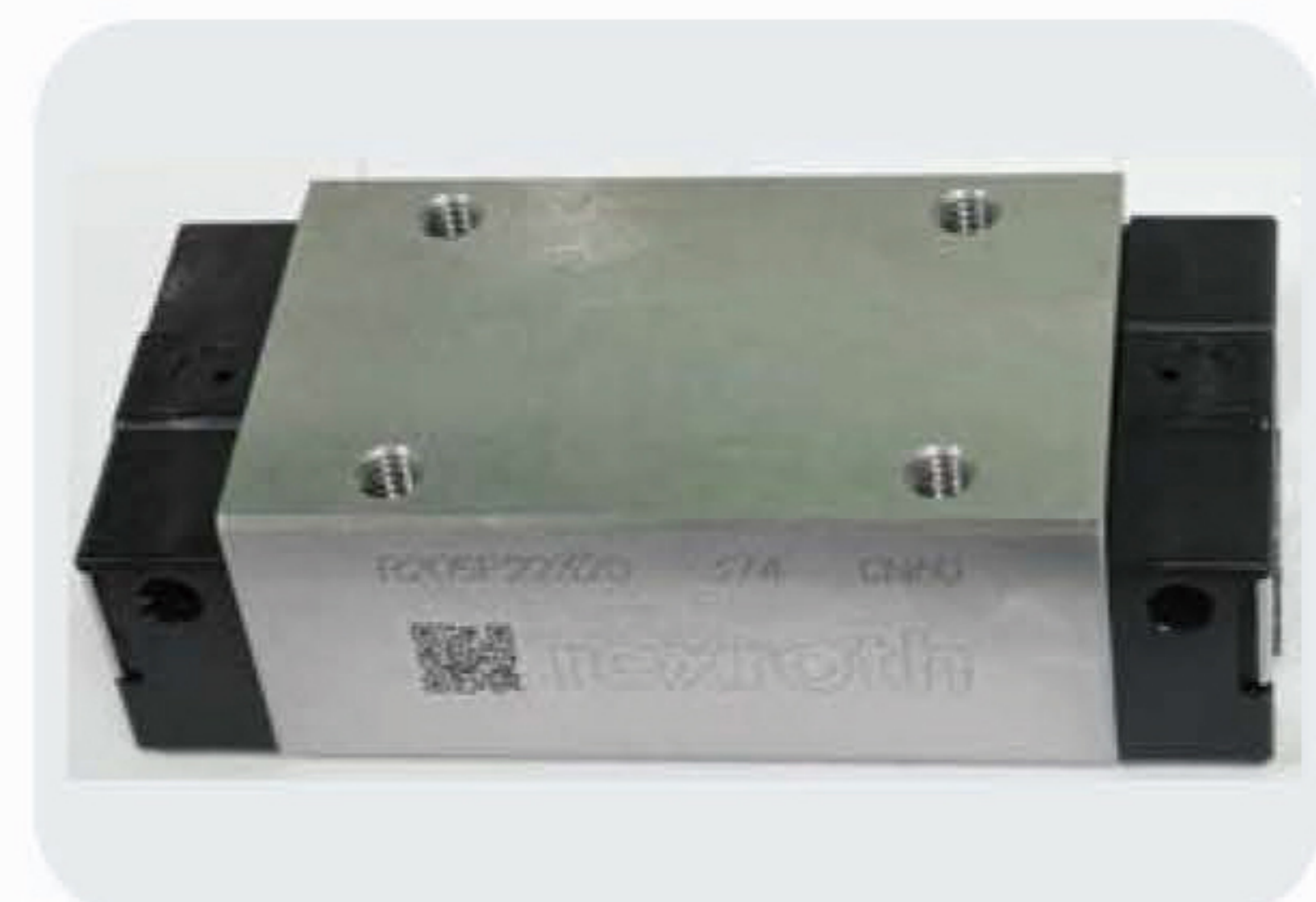
Core accessories



德国力士乐加宽滑块
German Rexroth widening slider



德国力士乐可调螺母
German Rexroth adjustable nut



德国力士乐加长滑块
German Rexroth extended slider



安川高防油伺服电机
Yaskawa high oil proof servo motor



德国阿尔法减速机
German Alpha reducer



主轴水冷机
Spindle water chiller



油雾过滤机
Oil mist filter



高精度雕铣主轴
High precision engraving and milling spindle