

强固型旋转工作台 / Robust Rotary Table

同动工作台

最小刻度：0.001° 定位 - 伺服电机定位

● 四轴同动搭配 B 轴光学尺精度与伺服补偿。

● 适用于同动加工（如人字齿、马达、引擎），

特别适合特殊角度或四轴同动需求。

Rotary Table

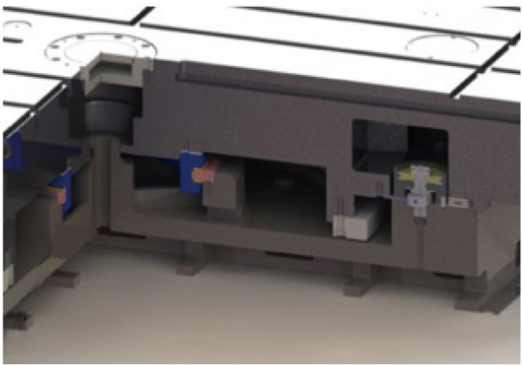
Minimum division accuracy:

0.001° -by servo control

● Four-axis linkage with B axis ring scale and servo compensation.

● Ideal for linked machining (e.g., helical gears, motors, engines),

especially for special angles or four-axis linkage requirements.



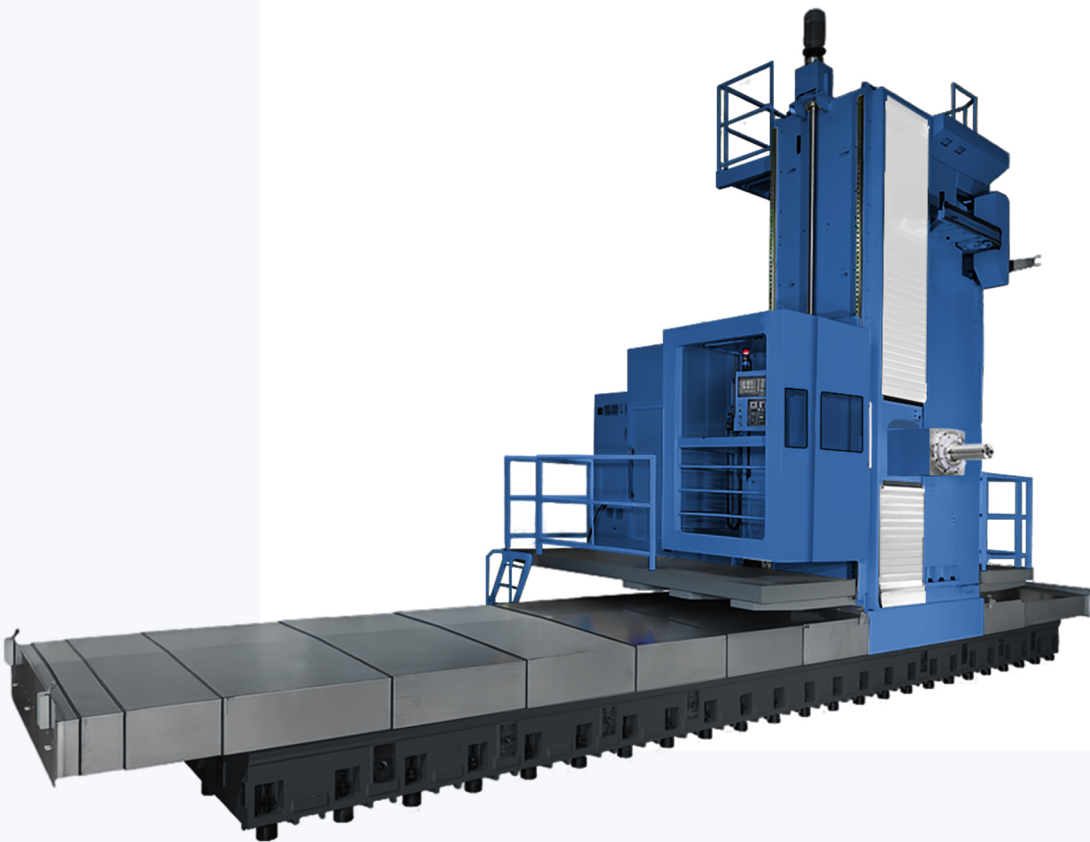
机型/Model+B2:D16B2B2:D19		VBF
行程/Travel		
X轴-立柱纵向行程/X-axis - Longitudinal travel of column	mm	4,000 + N x 2,000
Y轴-主轴箱垂直方向行程/Y-axis - Vertical travel of spindle head	mm	2,000 + N x 500 Max.4,000
Z轴-滑枕横向方向行程/Z-axis - Transverse travel of ram	mm	800/1000
W轴-镗杆轴向行程/W-axis - Axial travel of boring bar	mm	700/900/1000
工作台/Table		
盘面尺寸/Table surface size		1,800 x 2,200 / 2,000 x 2,500 / 2,500 x 3,000 / 3,000 x 3,500
主轴-主轴箱/Spindle - Spindle head		
镗杆直径/Boring bar diameter	mm	130 / 150 / 160
刀具锥度/Tool taper	-	BT-50
滑枕截面尺寸/Ram cross-section size	mm	460 x 520
主轴转速/Spindle speed	rpm	3,000 /2,500/2,000
齿轮箱变速范围/Gearbox speed range	-	2
(S1-100%) 主轴功率/Spindle power	kW	22-45/Opt
(S1-100%) 主轴扭矩/Spindle torque	Nm	2,542-4,093/Opt
快速进给/Feed		
X/Y/Z	m/min	20 / 20 / 20

VBF Series Landing column type CNC boring and milling processing center machine



落地动柱式数控镗铣加工中心机

Landing column type CNC
boring and milling processing
center machine

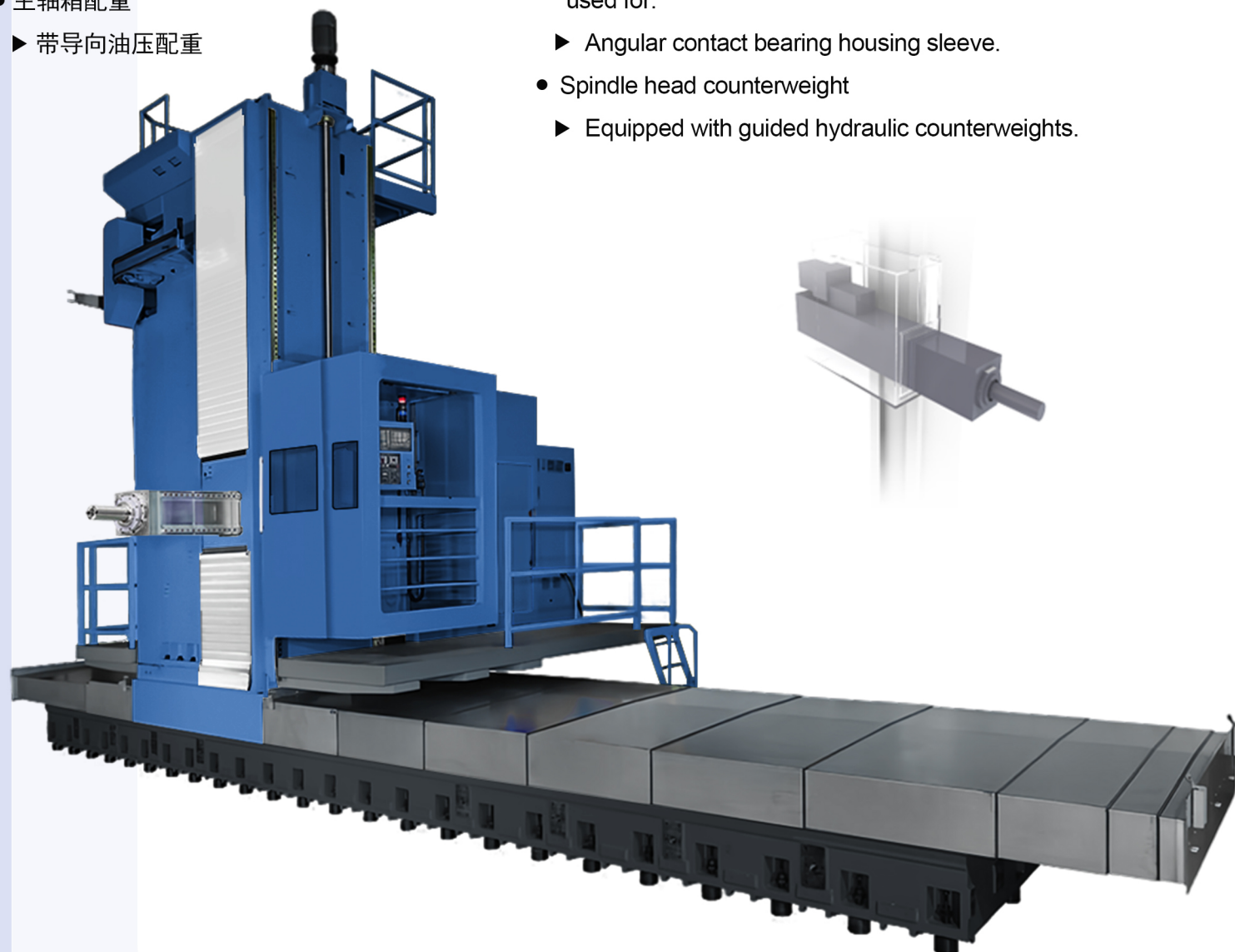




落地动柱式数控镗铣加工中心机

- 主轴镗杆
 - ▶ 经过氮化，研磨和抛光处理
 - ▶ 通过高精度角接触轴承装配
- 主要轴承润滑
 - ▶ 通过油质润滑系统
- 循环回路中的油冷装置用于：
 - ▶ 角接触轴承座套
- 主轴箱配重
 - ▶ 带导向油压配重

- Spindle boring bar
 - ▶ Treated with nitriding, grinding, and polishing.
 - ▶ Assembled through high-precision angular contact bearings.
- Main bearing lubrication
 - ▶ Through oil lubrication systems.
- The oil cooling device in the circulation circuit is used for:
 - ▶ Angular contact bearing housing sleeve.
- Spindle head counterweight
 - ▶ Equipped with guided hydraulic counterweights.



纵向行程（X 轴）：床身与鞍座

- 床身以及立柱鞍座为高强度结构，经过计算机辅助结构设计和有限元分析和应力模拟，内部合理的分布了保证刚性的加强筋。因此机床具有很高的刚性，稳定性和抗震性。
- 高刚性滚柱线轨，由导轨副导向直线运动
- 直线导轨与丝杆在同一中心面
- 伸缩性钢制防屑罩
- 导轨系统内配有带陶瓷内衬的液压吸震系统
- 纵向行程驱动



Longitudinal travel (X-axis): bed and saddle

- The bed body and column saddles are made of high-strength structural. After computer-aided structural design, finite element analysis, and stress simulation, internal stiffeners are reasonably distributed to ensure rigidity. Therefore, the machine tool offers very high rigidity, stability, and shock resistance.
- High-rigidity roller rails guide the linear motion
- The linear guide rail and ball screw are on the same central plane
- Telescopic steel chip cover
- The guide rail system is equipped with a hydraulic shock-absorbing system with ceramic lining
- Longitudinal travel drive

垂向行程（Y 轴）：立柱与主轴箱鞍座

- 立柱移动式重切削结构，立柱导轨采用矩形硬轨设计，导轨表面经高周波热处理，经高精度表面研磨处理，滑动表面均粘贴 Turcite-B 材料，使导轨表面更加光滑、耐磨。加宽的硬轨设计可以确保提供机器在重切削时所需之抵抗力及稳定性。
- 主轴箱采用高强度、高刚性的笼型及龙肋骨结构特殊设计，主轴齿轮变速箱采用大比数齿轮箱，可得到理想的传动精度和较大的扭矩。
- 高刚性、高精度双螺帽滚珠丝杆
- 伸缩性不锈钢制鳞片防屑罩

Vertical travel (Y-axis): column and spindle head saddle

- The column-moving heavy-cutting structure features a rectangular hard rail design. The guide rail surface undergoes induction hardening and high-precision surface grinding. All sliding surfaces are coated with Turcite-B material, making the rail surface smoother and more wear-resistant. The widened hard rail design ensures the machine provides the necessary resistance and stability during heavy cutting.
- The spindle head features a high-strength, high-rigidity cage and keel rib structure with a special design. The main shaft gear transmission uses a large specific gearbox, achieving ideal transmission accuracy and substantial torque.
- High-rigidity, high-precision double-nut ball screw
- Elastic stainless steel flake guard cover