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China Sales Center

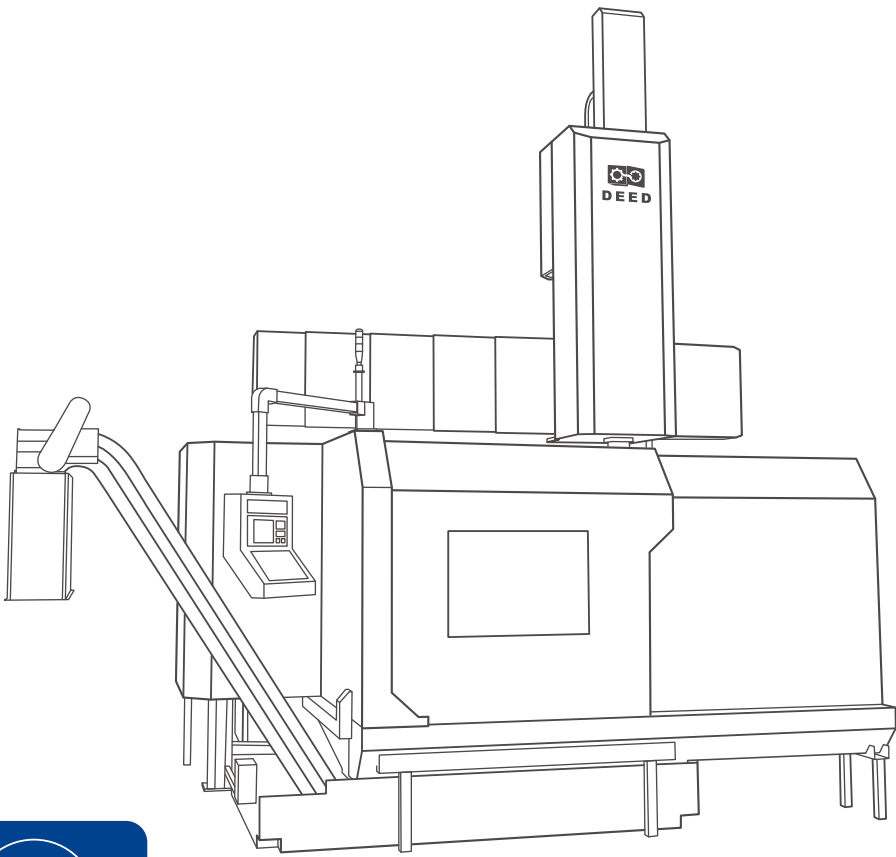
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立式车床

CNC Vertical Lathe





精 | Precise



大 | Large



特 | Customized

山东蒂德精密机床有限公司
SHANDONG DEED PRECISION MACHINE TOOL CO.,LTD.

蒂德简介

COMPANY PROFILE

山东蒂德精密机床有限公司是一家集高档数控机床研发、生产、销售为一体的高端装备企业，位于济宁市兖州区，现有员工500余人，目前是“中国机床工具工业协会理事单位”和“山东机床通用机械工业协会理事单位”。公司以高速立式加工中心、大型龙门加工中心、高效钻攻加工中心、高精度车削加工中心、高精度五轴联动加工中心、卧式铣镗加工中心及卧式加工中心为主导产品，广泛服务于国内外航空、航天、军工、船舶、汽车、工程机械、轨道交通、5G、精密模具等重点领域。公司大力实施“走出去，引进来”的发展战略，与德国知名数控机床制造企业ROTTLER达成全面战略合作，联合开发具有世界领先水平的高档精密机床，共同开拓全球高端市场，并在德国设立了高端机床研发中心及制造基地——“Hipreed Technology GmbH（汉普瑞德科技有限公司）”，全面实施国际化运营，实现了德国技术和中德制造的完美结合。公司建有国内外5大研发中心，拥有6大省市级创新平台，具备高档机床研发、新材料研制、先进技术测试和可靠性提升等全面的研发、实验、测试、制造优势。通过持续创新和不断突破，已承担24项重点政府科技项目，获得各类知识产权200余项（含发明专利9项）、科技成果奖14项，整体开发、创新能力行业领先。凭借强大的技术、创新优势，公司分别通过了ISO9001质量管理体系认证、ISO14001环境管理体系认证和ISO45001职业健康安全管理体系认证，荣获“国家高新技术企业”、“国家级专精特新‘小巨人’企业”、中国机床行业最高奖“春燕奖”、“中国机床工具行业‘产品质量十佳’”、“中国机械工业科技进步二等奖”等80多项重点荣誉。

Shandong Deed Precision Machine Tool Co., Ltd. is a high-end equipment enterprise integratd with R&D, production and sales. It is located in Yanzhou District, Jining City, with more than 500 people, is currently the governing unit of "China Machine Tool Industry Association " and the governing unit of "Shandong Machine Tool General Machinery Industry Association". The company takes high-speed vertical machining center, large gantry machining center, high-efficiency drilling and tapping machining center, high-precision turning center, high-precision five-axis linkage machining center, horizontal milling and boring machining center and horizontal machining center as the leading products, and serves a wide range of domestic and foreign key industries such as aviation, aerospace, military, shipbuilding, automobile, construction machinery, rail transit, 5G, precision mold and other key fields. The company vigorously implements the development strategy of "going out and bringing in", and has reached a comprehensive strategic cooperation with the well-known German CNC machine tool manufacturing enterprise ROTTLER to jointly develop high-grade precision machine tools and jointly explore the global high-end market. It has set up a high-end machine tool R & D center and manufacturing base in Germany - "Hipreed Technology GmbH", fully implemented international operations, and achieved perfect combination of German technology and Chinese-German manufacturing. The company has set up five domestic and foreign R & D centers, and six provincial and municipal innovation platforms, with high-grade machine tool research and development, new material development, advanced technology testing and reliability improvement and comprehensive R & D, experiment, testing, manufacturing advantages. Through continuous innovation and breakthrough, it has undertaken 24 key governmental science and technology projects, obtained more than 200 intellectual property rights (including 9 invention patents), and 14 scientific and technological achievement awards, and leading overall development and innovation ability of the industry. With strong technology and innovation advantages, the company has passed the ISO9001 quality management system certification, ISO14001 environmental management system certification and ISO45001 occupational health and safety management system certification. It has won the "National High-Tech Enterprise", "National Special New 'little giant' Enterprise", the highest award of China's machine tool industry "Spring Swallow Award", "China Machine Tool Industry 'Top 10 Product Quality'", "China Machinery Industry Science and Technology Progress 2nd Award" and more than 80 key honors.

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24/7 全天候不间断服务
24/7 NON-STOP SERVICE



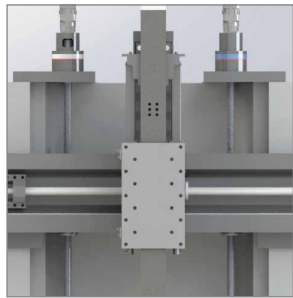
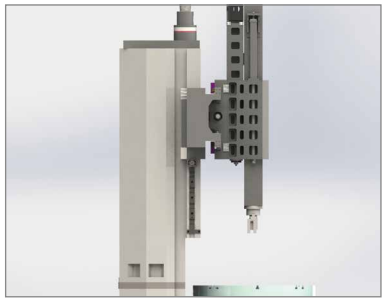
立式车床 Vertical Lathe

该系列机床是在调研已有庞大客户群体的基础上，结合欧洲知名车床企业FKD先进技术与工艺，开发设计的动梁式立式车床。机床上下料容易，整机刚性好，操作方便灵活，可广泛应用于航空航天、风电、交通、电力、核电等行业中车轮、电机壳、阀门体、泵体等大中型盘类与环类零件加工，可车削内外圆柱面、平面、内外圆锥面、内外螺纹、曲面以及复杂回转曲线面等。

The design of this series product is based on the research of large customer base demands, combined with the advanced technology and specifications of our European partner FKD, it is a type of beam-moving vertical lathe. The machine is easy to load and unload workpieces, with high rigidity and convenient, flexible operation. It can be widely used in aerospace, wind power, transportation, electric power, nuclear power and other industries, for wheel, motor housing, valve body, pump body and other large and medium-sized disc and ring parts processing. It can turn inner and outer cylindrical surface, plane, inner and outer conical surface, inner and outer thread, curved surface and complex rotary curve surface etc.

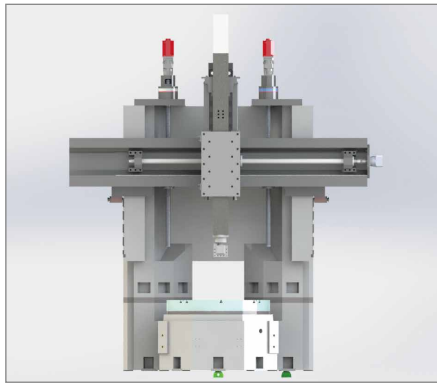
产品优势

PRODUCT ADVANTAGE



- 1) 切削刀具中心到立柱导轨距离与立柱安装前后长度为1:1.5，大大减少车削力矩，增加机床稳定性；
- 2) 滑座采用对称型设计，防止热变形发生，Z轴轨面经过高精密刮研处理，保证Z轴高精密运行；
- 1) The distance from the cutting tool center to the column guide rail : the column length before and after installation length ratio is 1:1.5, which greatly reduces the turning torque and improve machine stability;
- 2) The saddle adopts symmetrical design to prevent thermal deformation, the Z-axis rail surface has been processed with high-precision scraping to ensure Z-axis high-precision running;

- 3) 横梁可上下升降，保证在最合适的位置，提供最大的切削刚性；
- 4) 转台使用大跨距高精密交叉滚子轴承，使得转台可以进行稳定运转的同时又承载各方向载荷，保证重切加工。
- 3) The cross beam can be lifted up and down to ensure the maximum cutting rigidity out from the most suitable position.
- 4) The rotary table applies large span and high-precision cross roller bearings, so that the rotary table can carry the load in all directions while running stably, thus ensure heavy cutting processing performance.



尺寸参数

SIZE PARAMETER

VTC1250		VTC1600		VTC2000		VTC2500	
工作台直径 Table dia.	Φ1250mm	工作台直径 Table dia.	Φ1600mm	工作台直径 Table dia.	Φ2000mm	工作台直径 Table dia.	Φ2500mm
最大回转直径 Max.Swing Dia.	Φ1600mm	最大回转直径 Max.Swing Dia.	Φ2000mm	最大回转直径 Max.Swing Dia.	Φ2500mm	最大回转直径 Max.Swing Dia.	Φ3000mm
最大加工直径 Max. Processing Dia.	Φ1400mm	最大加工直径 Max. Processing Dia.	Φ1800mm	最大加工直径 Max. Processing Dia.	Φ2300mm	最大加工直径 Max. Processing Dia.	Φ2800mm
最大加工高度 Max. Processing Height	1200mm	最大加工高度 Max. Processing Height	1600mm	最大加工高度 Max. Processing Height	2000mm	最大加工高度 Max. Processing Height	2000mm

VTC3000		VTC3500		VTC4000		VTC4500	
工作台直径 Table dia.	Φ3000mm	工作台直径 Table dia.	Φ3500mm	工作台直径 Table dia.	Φ4000mm	工作台直径 Table dia.	Φ4500mm
最大回转直径 Max.Swing Dia.	Φ3400mm	最大回转直径 Max.Swing Dia.	Φ4100mm	最大回转直径 Max.Swing Dia.	Φ4600mm	最大回转直径 Max.Swing Dia.	Φ5100mm
最大加工直径 Max. Processing Dia.	Φ3300mm	最大加工直径 Max. Processing Dia.	Φ3800mm	最大加工直径 Max. Processing Dia.	Φ4300mm	最大加工直径 Max. Processing Dia.	Φ4800mm
最大加工高度 Max. Processing Height	2400mm	最大加工高度 Max. Processing Height	2400mm	最大加工高度 Max. Processing Height	2800mm	最大加工高度 Max. Processing Height	2800mm

VTC5700		VTC6300		VTC7200	
工作台直径 Table dia.	Φ5700mm	工作台直径 Table dia.	Φ6300mm	工作台直径 Table dia.	Φ7200mm
最大回转直径 Max.Swing Dia.	Φ7000mm	最大回转直径 Max.Swing Dia.	Φ8800mm	最大回转直径 Max.Swing Dia.	Φ11000mm
最大加工直径 Max. Processing Dia.	Φ6300mm	最大加工直径 Max. Processing Dia.	Φ8000mm	最大加工直径 Max. Processing Dia.	Φ10000mm
最大加工高度 Max. Processing Height	3500mm	最大加工高度 Max. Processing Height	4000mm	最大加工高度 Max. Processing Height	4000mm

标准配置

STANDARD CONFIGURATION

序号 No.	设备标准配置 Standard Configuration	序号 No.	设备标准配置 Standard Configuration
1	FANUC Oi TF系统 FANUC Oi TF	8	12/16工位刀库 12 /16 station tool magazine
2	二段式减速机 Two-stage reduction gearbox	9	手动夹盘 Manual chuck
3	横梁升降液压系统 Beam lifting hydraulic system	10	封闭式钣金 Enclosed sheet metal
4	液压系统 Hydraulic system	11	工作灯 Working light
5	冷却系统（水泵、水箱） Cooling system(water pump, water tank)	12	脚踏开关 Foot Pedal Switch
6	自动润滑系统 Automatic lubrication system	13	链式排屑机 Chain type chip conveyor
7	电箱空调 Electric cabinet air conditioner	14	/

选购配置

OPTIONS

选配/Options			
1	西门子系统	Siemens system	○
2	光栅尺	Grating ruler	○
3	切削液过滤	Cutting fluid filtration	○
4	工件测量	Workpiece measurement	○
5	电磁吸盘	Electromagnetic chuck	○
6	刀长检测	Tool length detection	○
7	油水分离	Oil water separation	○
8	切削液冷却	Cutting fluid cooling	○
9	加工监控	Processing monitoring	○

技术参数

TECHNICAL PARAMETER

型号 Model 配置 Configuration		单位 Unit	VTC1250	VTC1600	VTC2000	VTC2500	VTC3000
机床能力 Machine tool capacity	最大旋转直径 Max. swing dia.	mm	Φ1600	Φ2000	Φ2500	Φ3000	Φ3400
	最大切削直径 Max. cutting dia.	mm	Φ1400	Φ1800	Φ2300	Φ2800	Φ3300
	最大切削高度 Max. cutting height	mm	1200	1600	2000	2000	2400
	最大工作台载重 Max. table load	kg	5000	8000	10000	15000	15000
主轴 Spindle	转台直径 Table dia.	mm	Φ1250	Φ1600	Φ2000	Φ2500	Φ3000
	主轴最高转速 Spindle max. speed	rpm	300	200	200	160	120
	主轴电机功率 Spindle motor power	kw	37/45	37/45	60/75	60/75	60/75
	主轴最大扭矩 Spindle max. Torque	Nm	10000	20000	50000	62000	68000
轴向进给 Axial feed	左右（X轴）行程 Left & right (X axis) travel	mm	-600,+875	-800,+1015	-1000,+1350	-900,+1600	-1500,+1600
	上下（Z轴）行程 Up & down (Z axis) travel	mm	1200	1600	1600	1600	1600
	横梁上下行程 Beam up&down travel	mm	800	1200	1600	1600	1600
	X轴快速位移 X axis fast traverse	m/min	12	10	10	10	6
	Z轴快速位移 Z axis fast traverse	m/min	10	10	10	10	8
刀塔 Turret	刀位数量 Tool Station Qty.	-	12	12	12	12	16
	刀柄型式 Tool shank type	-	BT50	BT50	BT50	BT50	BT50
	最大刀具尺寸 Max. Tool size	mm	Φ280	Φ280	Φ280	Φ280	Φ280
	最大刀具重量 Max. Tool weight	kg	30	30	30	30	30
	最大刀库载重 Max. tool magazine load	kg	360	360	360	360	480

型号 Model 配置 Configuration		单位 Unit	VTC3500	VTC4000	VTC4500	VTC5700	VTC6300	VTC7200
机床能力 Machine tool capacity	最大旋转直径 Max. swing dia.	mm	Φ4100	Φ4600	Φ5100	Φ7000	Φ8800	Φ11000
	最大切削直径 Max. cutting dia.	mm	Φ3800	Φ4300	Φ4800	Φ6300	Φ8000	Φ10000
	最大切削高度 Max. cutting height	mm	2400	2800	2800	3500	4000	4000
	最大工作台载重 Max. table load	kg	20000	30000	30000	63000	100000	160000
主轴 Spindle	转台直径 Table dia.	mm	Φ3500	Φ4000	Φ4500	Φ5700	Φ6300	Φ7200
	主轴最高转速 Spindle max. speed	rpm	60	60	60	30	25	15
	主轴电机功率 Spindle motor power	kw	100/120	100/120	100/120	125	125	143
	主轴最大扭矩 Spindle max. Torque	Nm	280000	280000	280000	315000	315000	500000
轴向进给 Axial feed	左右（X轴）行程 Left & right (X axis) travel	mm	-1500,+1600	-2000,+2300	-2000,+2650	-2500,+3400	-3000,+4500	-4000,+5500
	上下（Z轴）行程 Up & down (Z axis) travel	mm	1600	1600	1600	2000	2500	2500
	横梁上下行程 Beam up&down travel	mm	1600	2000	2000	2500	3000	3000
	X轴快速位移 X axis fast traverse	m/min	6	6	6	5	5	5
	Z轴快速位移 Z axis fast traverse	m/min	8	8	8	6	6	6
刀塔 Turret	刀位数量 Tool Station Qty.	-	16	16	16	16	16	16
	刀柄型式 Tool shank type	-	BT50	BT50	BT50	BT50	BT50	BT50
	最大刀具尺寸 Max. Tool size	mm	Φ380	Φ380	Φ380	Φ380	Φ380	Φ380
	最大刀具重量 Max. Tool weight	kg	50	50	50	50	50	50
	最大刀库载重 Max. tool magazine load	kg	800	800	800	800	800	800

24/7 全天候不间断服务

24/7 NON-STOP SERVICE

- 售后服务工程师平均具有 10 年机床维修经验, 客户故障 2 小时响应回复;
After-sales engineers averagely have over 10 years machine tool industry service experience, can respond to customer failure within 2 hours ;
- 全国设有 30 个销售及售后服务网点, 售后网点覆盖范围 24 小时内到场服务;
30 sales& serve centers inside of China, can give on-site service within 24 hours in near covering range;
- 提供完善的客户培训计划及操作指南;
Comprehensive training system and operation guidance ;
- 标准化的售后交机及售后服务流程;
Standardized machine delivery and after-sales service process;
- 购买机床, 终身服务。
1-time purchase, life-time service.



NOTES