



- **中国总部**
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- **全球代理商**
Global sales centers
- **售后服务网点**
After-sales service centers



中国销售中心
China Sales Center

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外贸热线 / Sales Hotline(overseas): +86 537 3451030
售后热线 / After-sales Service: 400-113-6699
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Address: Yong'an Road,Industrial Park,Yanzhou District,Jining City,Shandong Province.

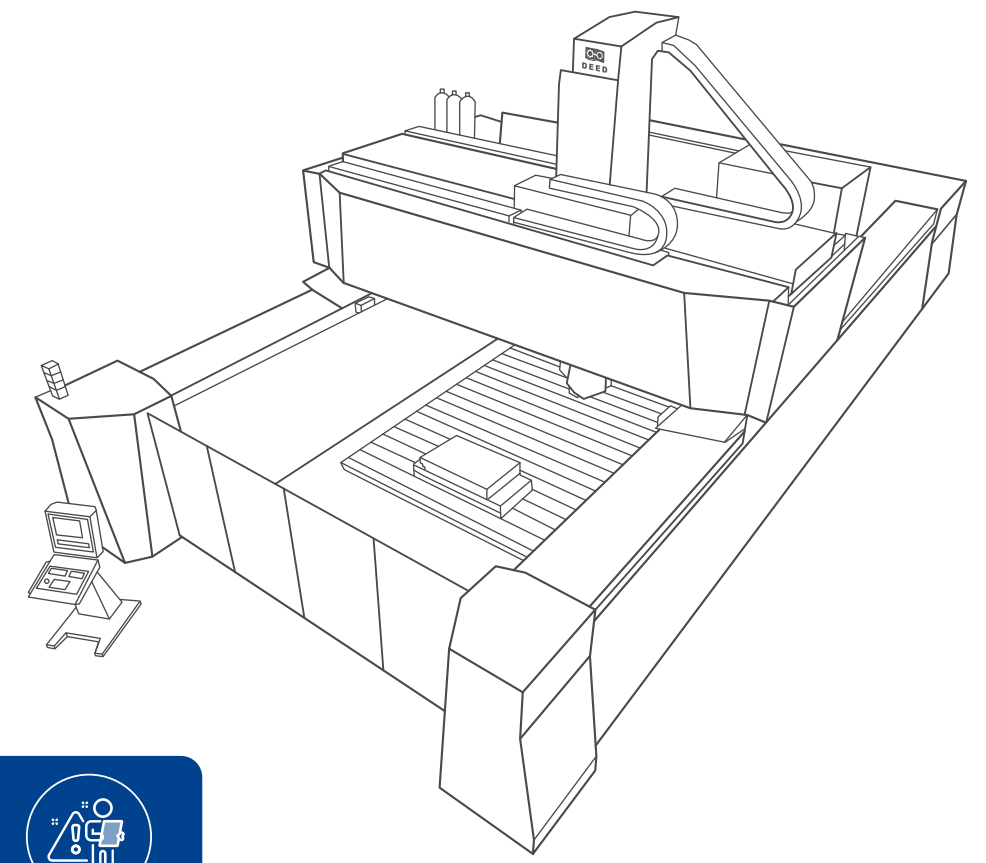


德国 (Germany)
欧洲研发、销售中心
Europe R&D, Sales Center
地址 / Address: Stahlwerkstraße 32-D-57555 Mundersbach



桥式龙门加工中心

Bridge Type Gantry Machining Center



**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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GB系列桥式龙门 GB SERIES BRIDGE TYPE GANTRY

高精高刚高效率加工利器
HIGH-PRECISION, HIGH-RIGIDITY AND HIGH-EFFICIENCY

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GB-SF5、GB-BF5系列桥式五轴加工中心 GB-SF5,GB-BF5 SERIES BRIDGE TYPE FIVE-AXIS MACHINING CENTER

专为高精加工和高轮廓精度而设计
DESIGNED FOR HIGH PRECISION MACHINING AND HIGH PROFILE ACCURACY

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售后服务 AFTER-SALES SERVICE

24/7 全天候不间断服务
24/7 NON-STOP SERVICE



GB系列 桥式龙门 GB Series Bridge Type Gantry 高精高刚高效率加工利器

High-precision, high-rigidity and high-efficiency machining tool choice

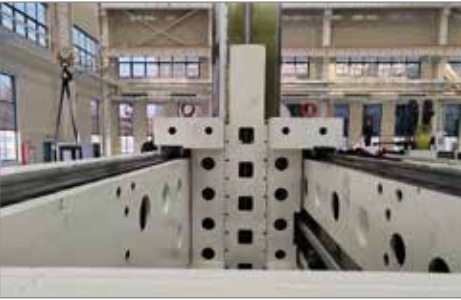
该产品具有高速度、高精度、高刚性、高可靠性的结构特点，在规定的条件下能连续正常工作，精度稳定，主要用于机车、风电、航空、航天、电力等行业，特别适用于大型结构件、大型模具的精密加工。

This series of product is designed to be high-speed, high-precision, high-rigidity and high-reliability, it can continuously work with stable accuracy under specified environmental conditions. It can be mainly used in locomotive, windpower, aviation, aerospace, electric power and other industries, especially suitable for precise machining of large structural parts and large molds.



产品优势

PRODUCT ADVANTAGES



整体矿物铸件床身
One-piece mineral casting base

吸振性好 Excellent vibration absorption

热稳定性好 thermal stability

刚性强 Strong rigidity

箱中箱结构
Box-in-box structure

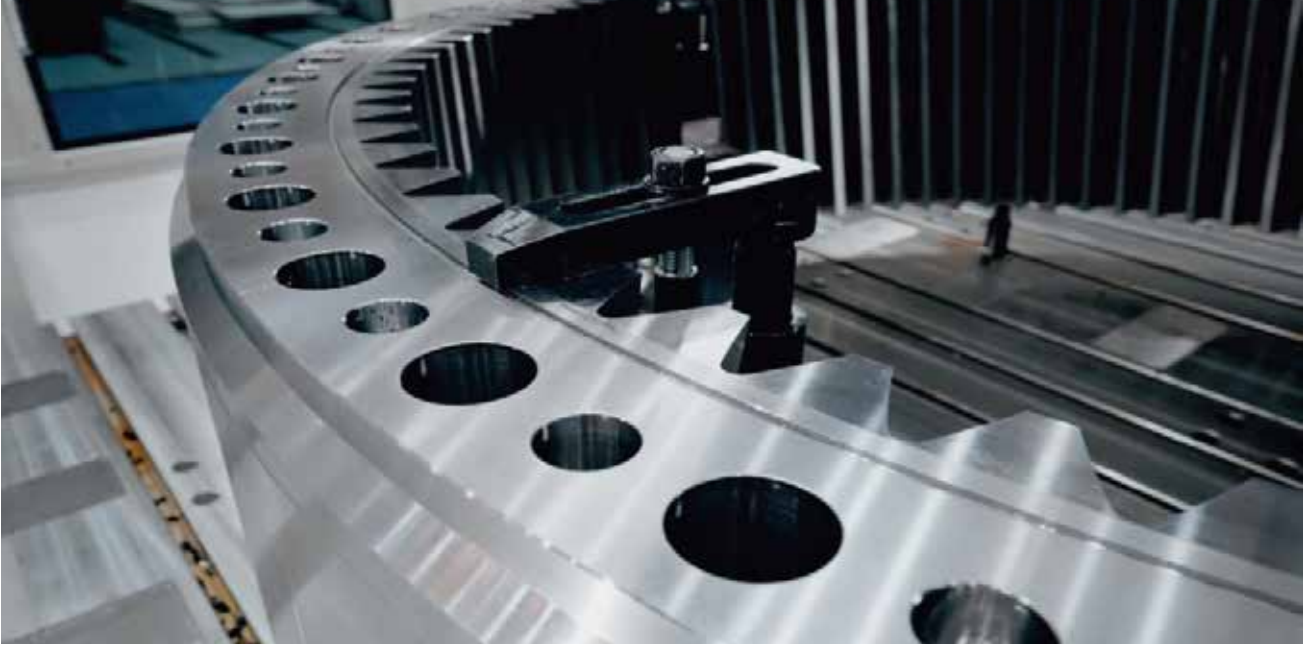
热对称结构 Thermal symmetric structure

多轴重心驱动 Multi-axis gravity center drive

方滑枕结构
Square ram structure

大截面方滑枕 Large section square ram

大规格重载滚柱导轨支撑
Large size heavy-load roller guideway support



技术参数

TECHNICAL PARAMETER

配置 Configuration	型号 Model	单位 Unit	GB3525 (侧挂式 Side-hung)	GB4525 (侧挂式 Side-hung)	GB5525 (侧挂式 Side-hung)	GB5550 (箱中箱 Box-in-box)	GB8550 (箱中箱 Box-in-box)	GB12550 (箱中箱 Box-in-box)
门宽 Door width		mm	2500	2500	2500	5000	5000	5000
X/Y/Z轴行程 X/Y/Z axis travel		mm	3500/2000/1050	4500/2000/1050	5500/2000/1050	5500/4000/1500	8500/4000/1500	12500/4000/1500
工作台尺寸 Table size		mm	3500×2000	4500×2000	5500×2000	5500×4000	8500×4000	12500×4000
工作台承重 Table load		Kg/m²	5000	5000	5000	5000	5000	5000
X/Y/Z轴快移速度 X/Y/Z axis rapid traverse		m/min	24/24/20	24/24/20	24/24/20	24/24/20	24/24/20	24/24/20
主轴锥度 Spindle taper		/	BT50	BT50	BT50	BT50	BT50	BT50
主轴最高转速 Spindle max. speed		rpm	6000	6000	6000	6000	6000	6000
功率(额定/S6) Power (Rated /S6)		kW	22/26.4	22/26.4	22/26.4	30/37	30/37	30/37
扭矩(额定/S6) Torque (Rated /S6)		N·m	770/964	770/964	770/964	1050/1386	1050/1386	1050/1386
系统 controller		/	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS ONE	SIEMENS ONE	SIEMENS ONE



GB-SF5、GB-BF5系列 桥式五轴加工中心

GB-SF5,GB-BF5 Series Bridge Type 5-Axis Machining Center

专为高精加工和高轮廓精度而设计

Designed for high precision machining and high profile accuracy

该产品具有高速度、高精度、高刚性、高可靠性的结构特点，在规定的条件下能连续正常工作，精度稳定，主要用于汽车、航空、航天、电力以及大型模具等行业的精密加工，特别适用于零件本身重量大，工件长度较长的各种空间连续曲面的高精度、高速度铣削。

This series of product is designed to be high-speed, high-precision, high-rigidity and high-reliability, it can work continuously and normally under specified environmental conditions with stable accuracy. It can be mainly used for precision machining in automotive, aviation, aerospace, electric power and large mold industries, especially for high-precision and high-speed milling of various spatial continuous surfaces with large weight and long workpiece length.

标准配置

STANDARD CONFIGURATION

序号 Serial number	名称 Name	序号 No.	名称 Name
1	SIEMENS	9	外防护 External protection
2	主轴油冷系统 Spindle oil cooling system	10	清洁气枪 Cleaning air gun
3	自动润滑系统 Automatic lubrication system	11	警示灯 Warning light
4	Z轴平衡系统 Z axis balance system	12	工作灯 Working light
5	工件气冷系统 Workpiece air cooling system	13	电柜空调 Electric cabinet air conditioner
6	工件水冷系统 Workpiece water cooling system	14	主轴气幕防尘 Spindle air curtain dust-proof
7	自动排屑装置 Automatic chip removal device	15	标准附件 Standard accessories
8	内防护 Internal protection	16	光栅尺 Grating ruler

选购配置

OPTIONS

序号 Serial number	名称 Name	序号 No.	名称 Name
1	SIEMENS、FANUC	7	立柱加高200/400mm Column heightening 200/400mm
2	Z轴行程加长 Z axis travel extension	8	在线测量 Online measurement
3	附件铣头 Accessory milling head	9	对刀仪 Tool setter
4	圆盘刀库24/30/32T、链式、立卧刀库32/40T Disc tool magazine 24/30/32T, Chain type, Vertical horizontal tool magazine 32/40T	10	油水分离功能 Oil water separation function
5	中心出水20/30/50/70bar CTS 20/30/50/70bar	11	数控转台（四轴） CNC rotary table(4th-axis)
6	电主轴 Electrical spindle	12	水枪、环喷 Water gun, ring spray

产品优势

PRODUCT ADVANTAGES



"箱中箱"对称结构及多轴重心驱动集成技术

"Box-in-box" symmetrical structure and multi-axis gravity center drive integration technology

横梁和Y轴滑板采用分体框架式“箱中箱”结构，可通过配磨中间托架，实现微过盈配合提高接触刚度；

X/Y/Z轴均采用重心驱动，实现结构及驱动的完全对称布置，保证机床的高精度运行。

The beam and Y-axis slider adopt the split frame type "Box-in-box" structure, which can achieve micro-interference fit to improve contact regidity by grinding and matching the middle bracket.

X/Y/Z axis are all driven by gravity center,which can help achieve complete symmetrical arrangement of the structure and drivers, ensure machine high-precision working.

标准配置&选购配置

STANDARD CONFIGURATION & OPTIONS

序号 Serial number	设备标准配置 Standard configuration	序号 No.	可选配置 Options
1	SIEMENS ONE	1	华中 海德汉 HNC, Heidenhain controller
2	主轴恒温系统 Spindle constant temperature system	2	圆盘刀库24T/30T Disc tool magazine 24T/30T
3	自动润滑系统 Automatic lubrication system	3	链式刀库32T/40T/60T Chain type tool magazine 32T/40T/60T
4	Z轴平衡系统 Z axis balance system	4	Z轴行程1250mm，立柱加高 Z axis travel 1250mm, column heightening
5	工件气冷系统 Workpiece air cooling system	5	中心出水20/30/50/70bar CTS 20/30/50/70bar
6	工件水冷系统 Workpiece water cooling system	6	在线测量 Online measurement
7	自动排屑装置 Automatic chip removal device	7	对刀仪 Tool setter
8	内防护 Internal protection	8	机床四周封闭式防护 Machine tool four-sides enclosed protection
9	外防护 External protection	9	工件清洁水枪 Workpiece cleaning watergun
10	清洁气枪 Cleaning air gun	10	油水分离装置 Oil water separation device
11	警示灯 Warning light	11	地基下沉900mm Foundation sink 900mm
12	工作灯 Working light	12	伊贝格五轴头 Mepro 5-axis milling head
13	电柜空调 Electirc cabinet air conditioner	13	凯斯勒五轴头 Kessler 5-axis milling head
14	主轴气幕防尘 Spindle air curtain dust-proof	14	机床全封闭式防护 Machine tool fully-enclosed protection
15	标准附件 Standard accessories	15	油雾收集器 Oil mist collector
16	光栅尺 Grating ruler	16	基准球，检棒，方尺 Benchmark ball, check rod, square ruler

技术参数

TECHNICAL PARAMETER

配置 Configuration	型号 Model	单位 Unit	GB3025SF5(侧挂式) Side-hanging	GB4030SF5(侧挂式) Side-hanging	GB6030SF5(侧挂式) Side-hanging
X/Y/Z轴行程 X/Y/Z axis travel		mm	3000/2000/1050	4000/2500/1050	6000/2500/1050
工作台尺寸 Table size		mm	3500×2000	4000×2500	6000×2500
工作台最大承重 Table max. load		Kg/m²	5000	5000	5000
门宽 Door width		mm	2500	3000	3000
主轴锥柄型式 Spindle taper shank type	/		HSK-A63	HSK-A63	HSK-A100
主轴转速 Spindle speed		rpm	24000	18000	12000
功率(额定/S6) Power(Rated/S6)		kW	40/48	50/67.5	63/76
扭矩(额定/S6) Torque(Rated/S6)		N·m	47/57	90/120	200/241
A轴摆动范围 A-axis swiveling range		°	±110	±110	±100
C轴摆动范围 C-axis swiveling range		°	±360	±360	±360

技术参数

TECHNICAL PARAMETER

配置 Configuration	型号 Model	单位 Unit	GB6550BF5(箱中箱) Box in box	GB8550BF5(箱中箱) Box in box
X/Y/Z轴行程 X/Y/Z axis travel		mm	6500/4000/1500	8500/4000/1500
工作台最大承重 Table max. load		Kg/m²	5000	5000
门宽范围 Door width range		mm	5000	5000
功率 Power		kW	63/76	63/76
主轴锥柄型式 Spindle taper shank type	/		HSK-A100	HSK-A100
主轴转速 Spindle speed		rpm	12000	12000
主轴扭矩 Spindle torque		N·m	200/241	200/241
A轴摆动范围 A-axis swiveling range		°	±100	±100
C轴摆动范围 C-axis swiveling range		°	±360	±360

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