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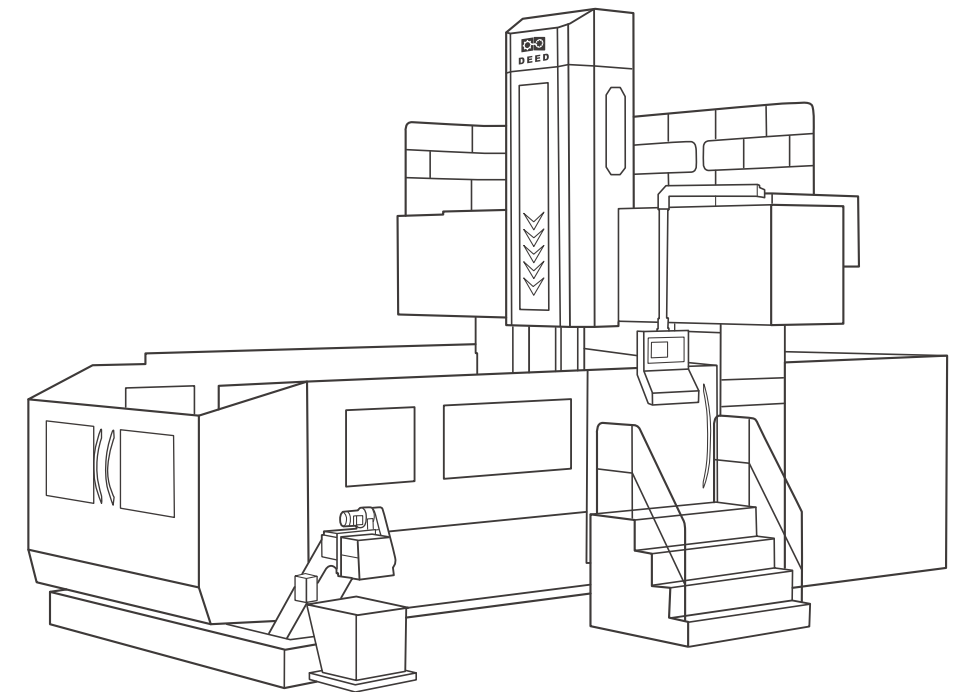
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定梁龙门加工中心

Fixed Beam Gantry Machining Center



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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GL系列龙门加工中心

GL series Gantry Machining Center

极佳的高刚性结构

高性价比的全行程加工利器

Excellent High Rigidity Structure

Cost-effective full-stroke machining tool choice

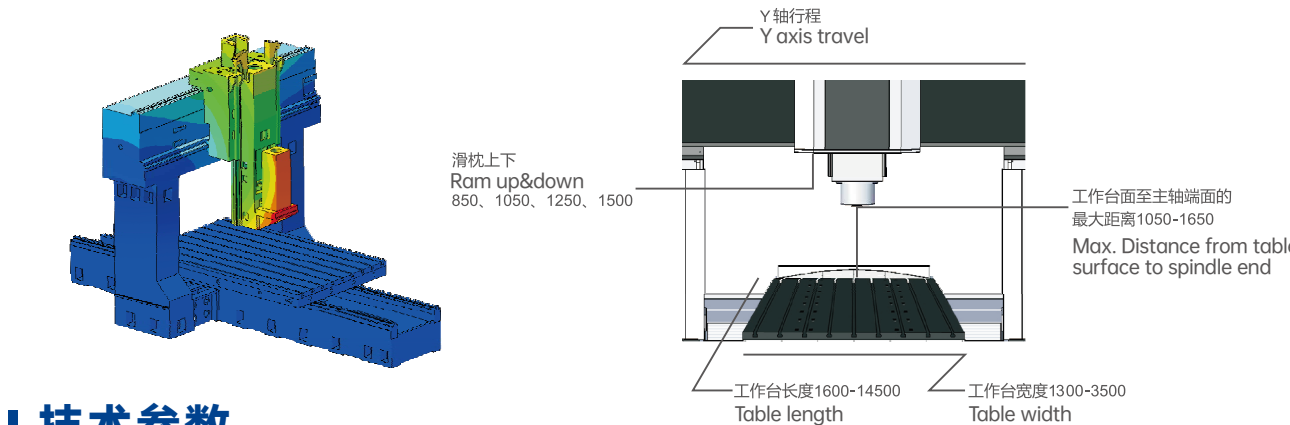
本设备采用工作台移动，由床身、立柱、横梁组成封闭的龙门框架结构，具有高刚性、高稳定性的特点。机床可完成铣面、镗孔、钻孔、刚性攻丝及三轴联动曲面加工，并可根据客户要求增加直角铣头，一次装夹实现五面加工，特别适用于模具零件粗/半精加工；自动化设备结构件、能源、工程、铸造行业大型零件加工；铁路转向节等大型结构件加工。

This series of machine is table-moving, the bed, columns and beam form closed gantry frame structure, which can help achieve high-rigidity and high-stability. The machine can complete milling, boring, drilling, rigid tapping and 3-axis simultaneous surface processing, and can increase right angle milling head according to customer demands, one-time clamping can achieve five-face processing, especially suitable for mold parts rough/semi-finishing production; automation equipment structural parts, energy, engineering, casting industry large parts processing; railway steering knuckle and other large structural parts processing.

产品优势

PRODUCT ADVANTAGES

- 床身、立柱固定部件采用新型矿物铸件材料，具备优异的吸振性、低热膨胀系数、低热传导系数、耐腐蚀性、室温浇注固化内应力小;
The fixed parts, machine bed and columns are made of new mineral casting materia, which has excellent vibration absorption, low thermal expansion coefficient, low thermal conductivity coefficient, corrosion resistance, and small curing interal stress under room temperature.
- 工作台、滑座、主轴箱运动部件选用钢板焊接，保证了高刚性，同时又降低了移动部件的重量、减小运动惯性，提升了机床的响应速度和运动精度;
The moving parts, worktable, saddle and spindle box are welded with steel plates to ensure high rigidity, reduce moving parts weight and moving inertia,thus can improve the response speed and movement accuracy of the machine tool.
- 三坐标运动部件均采用重载滚柱线轨支撑，使用滚柱保持器防止偏移，实现平衡稳定运动，确保机床长时间运行的精度稳定性;
The 3-coordinate moving parts are supported by heavy roller linear guideway, the roller retainer is used to prevent deviation, achieve balanced and stable movement, thus to ensure machine precision stability during long time working.
- 主轴箱采用大截面滑枕结构，重载滚柱导轨支撑，主轴横向强力切削能力强，可实现Z轴全行程强力切削;
The spindle box adopts large cross-section ram structure with heavy load roller linear guideway supporting, spindle transverse strong cutting ability can be stronger, and Z-axis can realize full-stroke strong cutting.
- Z轴运动采用双平衡缸，消除因自重产生的上下不平衡力矩。
Z-axis movement adopts double balance cylinder to eliminate the unbalanced torque caused by self-weight.



技术参数

TECHNICAL PARAMETER

配置 Configuration	型号 Model	G1614L	G2016L	G2018L	G2518L	G3018L	G3518L	G4018L	G4518L	G5018L	G5518L	G6018L	G3024L	G3524L	G4024L	G4524L	G5024L	G5524L	G6024L
X轴行程 X axis travel	mm	1600	2100	2100	2600	3100	3500	4000	4500	5000	5500	6000	3000	3500	4000	4500	5000	5500	6000
Y轴行程 Y axis travel	mm	1300	1600	1800	1800	1800	1800	1800	1800	1800	1800	1800	2400	2400	2400	2400	2400	2400	2400
Z轴行程 Z axis travel	mm	800	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850
工作台宽度 Table width	mm	1300	1400	1600	1600	1600	1600	1600	1600	1600	1600	1600	1800	1800	1800	1800	1800	1800	1800
工作台最大载重 Table max. load	t	4	4.5	6	7	8	9	10	11	12	13	14	8	9	10	11	12	13	14
主轴转速 Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
主轴功率 Spindle power	kW	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	18.5/35	18.5/35	18.5/35	18.5/35	15/18.5	15/18.5	15/18.5	18.5/35	18.5/35	18.5/35	18.5/35
主轴扭矩 Spindle torque	N·m	190/313	190/313	190/313	190/313	190/313	190/313	190/313	156.9/296	156.9/296	156.9/296	156.9/296	190/313	190/313	190/313	156.9/296	156.9/296	156.9/296	156.9/296
X/Y/Z快移速度 X/Y/Z fast traverse	m/min	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	12/16/16	12/16/16	10/16/16	8/16/16	8/16/16	8/16/16	12/12/12	12/12/12	12/12/12	10/12/12	8/12/12	8/12/12	8/12/12

配置 Configuration	型号 Model	G3028L	G3528L	G4028L	G4528L	G5528L	G6528L	G4532L	G5532L	G6532L	G8532L	G10532L	G6537L	G8537L	G10537L	G12537L	G10542L	G12542L	G14542L
X轴行程 X axis travel	mm	3000	3500	4000	4500	5500	6500	4500	5500	6500	8500	10500	6500	8500	10500	12500	10500	12500	14500
Y轴行程 Y axis travel	mm	3400	3400	3400	3400	3400	3400	3800	3800	3800	3800	3800	4300	4300	4300	4300	4300	4300	4300
Z轴行程 Z axis travel	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
工作台宽度 Table width	mm	2200	2200	2200	2200	2200	2200	2800	2800	2800	2800	2800	3200	3200	3200	3200	3500	3500	3500
工作台最大载重 Table max. load	t	17	18	20	22	23	24	24	28	30	32	32	30	32	36	36	36	36	36
主轴转速 Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	4500	4500	4500
主轴功率 Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	30/37	30/37	30/37
主轴扭矩 Spindle torque	N·m	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	1365/1688	1365/1688	1365/1688
X/Y/Z快移速度 X/Y/Z fast traverse	m/min	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	10/12/12	12/12/12	10/12/12	8/10/10	8/10/10	8/10/10	8/10/10

定梁龙门-GL18/24系列配置清单

FIXED BEAM GANTRY-GL18/24 SERIES CONFIGURATION LIST

标准配置

STANDARD CONFIGURATION

序号 Serial number	名称 Name	序号 No.	名称 Name
1	FANUC 0iMF	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	电柜热交换器 Electric cabinet heat exchanger
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	/

选购配置

OPTIONS

序号 Serial number	名称 Name	序号 No.	名称 Name
1	FANUC 31i 、SIEMENS 828D、SIEMENS ONE	12	手动附件铣头：直角头、延长头、万向头、直角延长头、双头直角铣头、立卧头、可选齿盘定位 Manual accessory milling head: right-angle head, extension head, universal head, right-angle extension head, double-head right-angle milling head, vertical horizontal head,optional gear disc positioning.
2	圆盘刀库24T/30T Disc type tool magazine 24T/30T		
3	链式刀库32T/40T Chain type tool magazine 32T/40T	13	自动/半自动附件铣头： 直角头、延长头、万向头、直角延长头 Automatic/semi-automatic accessories milling head: right-angle head, extension head, universal head, right-angle extension head.
4	立柱整体加高200mm Column heightened 200mm overall		
5	立柱整体加高400mm Column heightened 400mm overall	14	手动铣头头库 Manual milling head magazine
6	Z轴行程加长200mm Z axis travel lengthened 200mm	15	在线测量 Online measurement
7	中心出水20/30/50/70bar CTS 20/30/50/70bar	16	对刀仪 Tool setter
8	机床全封闭式防护 Machine tool fully-enclosed protection	17	工件清洁水枪 Workpiece cleaning water gun
9	机床四周封闭式防护 Machine tool full-side enclosed protection	18	主轴环喷 Spindle ring spray
10	全闭环光栅尺 Full closed-loop grating ruler	19	地基下沉 Foundation sink
11	油水分离装置 Oil water separating device	20	数控回转工作台（第四轴） CNC rotary table (fourth-axis)

定梁龙门-GL28/32/37/42系列

FIXED BEAM GANTRY-GL28/32/37/42 SERIES

标准配置

STANDARD CONFIGURATION

序号 Serial number	名称 Name	序号 Serial number	名称 Name
1	FANUC 0iMF	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	/

选购配置

OPTIONS

序号 Serial number	名称 Name	序号 Serial number	名称 Name
1	FANUC 31i、SIEMENS 828D、SIEMENS ONE	13	手动附件铣头：直角头、延长头、万向头、直角延长头、双头直角铣头、立卧头、可选齿盘定位 Manual accessory milling head: right-angle head, extension head, universal head, right-angle extension head, double-head right-angle milling head, vertical horizontal head, optional gear disc positioning.
2	圆盘刀库24T/30T Disc type tool magazine 24T/30T		
3	链式刀库32T/40T Chain type tool magazine 32T/40T	14	自动/半自动附件铣头：直角头、延长头、万向头、直角延长头 Automatic/semi-automatic accessories milling head: right-angle head, extension head, universal head, right-angle extension head.
4	立卧刀库40T/60T Vertical horizontal tool magazine 40T/60T		
5	立柱整体加高200mm Column heightened 200mm overall	15	全自动铣头头库 Automatic milling head magazine
6	立柱整体加高400mm Column heightened 400mm overall	16	手动铣头头库 Manual milling head magazine
7	Z轴行程降低200mm Z axis travel lengthened 200mm	17	在线测量 Online measurement
8	中心出水20/30/50/70bar CTS 20/30/50/70bar	18	对刀仪 Tool setter
9	机床全封闭式防护 Machine tool fully-enclosed protection	19	工件清洁水枪 Workpiece cleaning water gun
10	机床四周封闭式防护 Machine tool full-side enclosed protection	20	主轴环喷 Spindle ring spray
11	全闭环光栅尺 Full closed-loop grating ruler	21	地基下沉900mm Foundation sunk
12	油水分离装置 Oil water separating device	22	数控回转工作台（第四轴） CNC rotary table (fourth-axis)



GMC系列龙门加工中心

GMC Series Gantry Machining Center

高速高精度切削利器

满足复杂的多面加工需求

High speed, high precision cutting tool choice
Meet complex multi-face processing demands

本设备是蒂德公司与德国合作研发的最新一款精密龙门铣加工中心。该机床特别适用于各行业金属等零件精密、高速及重切加工，机床可完成铣面、镗孔、钻孔、刚性攻丝及三轴联动曲面加工，并可根据客户要求增加直角铣头，一次装夹实现五面加工，可有效提高加工精度和加工效率。

This series of machine is the latest precise gantry milling machining center jointly developed by Deed and German partner. The machine is especially suitable for precision, high-speed and heavy cutting of metal parts in various industries. The machine can complete milling, boring, drilling, rigid tapping and 3-axis linkage simultaneous curved surface processing, right-angle milling head can be added according to customer demands. One-time clamping can realize 5-face machining, which can effectively improve the machining precision and efficiency.

产品优势

PRODUCT ADVANTAGES

高刚性设计 全行程加工

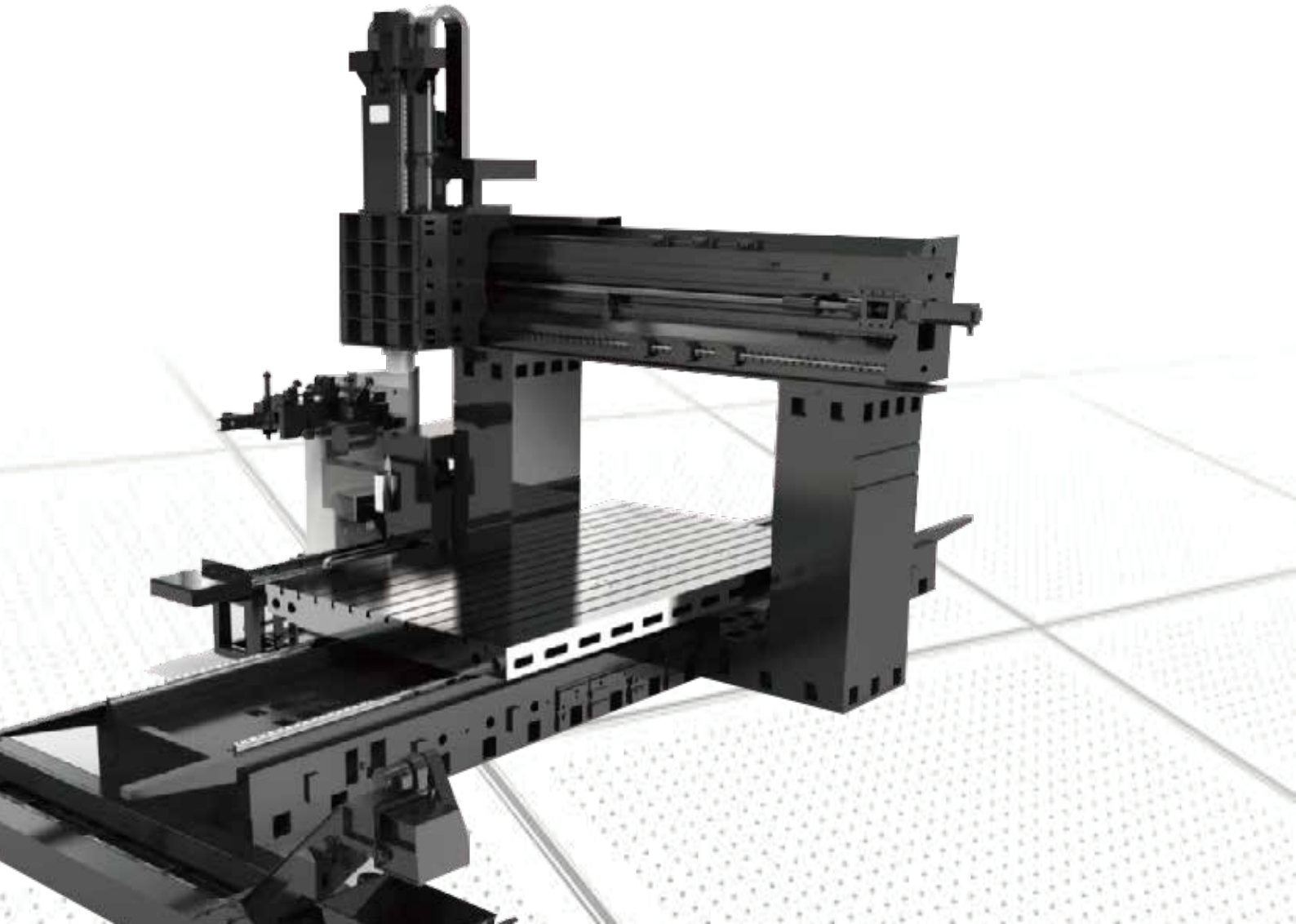
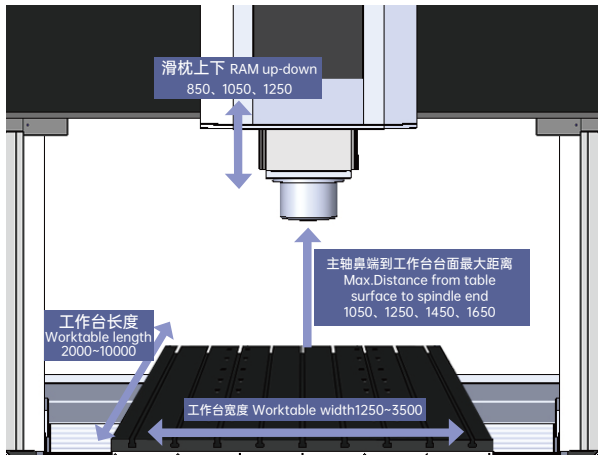
HIGH RIGIDITY DESIGN FULL STROKE MACHINING

床身、立柱等固定部件均采用新型矿物材料，具备优异的吸振性、低热膨胀系数、低热传导系数、耐腐蚀等优势。

机床横梁、滑座、主轴箱均采用德国钢板焊接技术，刚性更高，运动部件更轻，运动惯量更小，从而获得更好的响应速度和运动精度。

The fixed parts, machine bed and columns are made of new mineral casting materia, which has excellent vibration absorption, low thermal expansion coefficient, low thermal conductivity coefficient, corrosion resistance and other advantages.

Worktable, saddle and spindle box are welded with steel plates to ensure high rigidity, reduce moving parts weight and moving inertia,thus can improve the response speed and movement accuracy of the machine tool.



直连主轴

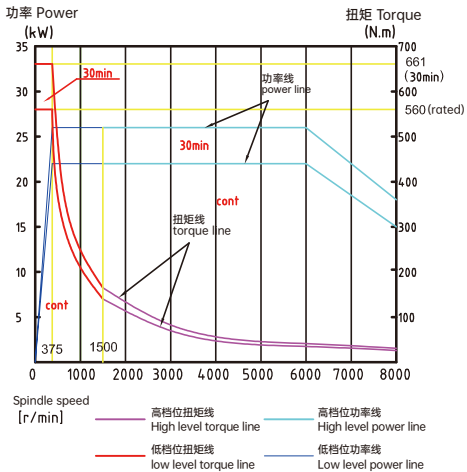
DIRECT DRIVE SPINDLE



主轴转速：8000rpm
Spindle speed: 8000rpm

主电机功率：22/26kW
Main motor power: 22/26kW

主轴扭矩：560/661N·m
Spindle torque: 560/661 N·m



电主轴

ELECTRIC SPINDLE

高速电主轴，采用空气-油润滑轴承，精确进给，压缩空气散热

High-speed electric spindle, adopt air-oil lubrication bearings, precise feed, compressed air heat dissipation

可选12000rpm主轴转速
Optional 12000rpm

主轴转速：12000rpm
Spindle speed: 12000rpm

主电机功率：25/44kW
Main motor power: 25/44kW

主轴扭矩：87/150N·m
Spindle torque: 87/150N·m

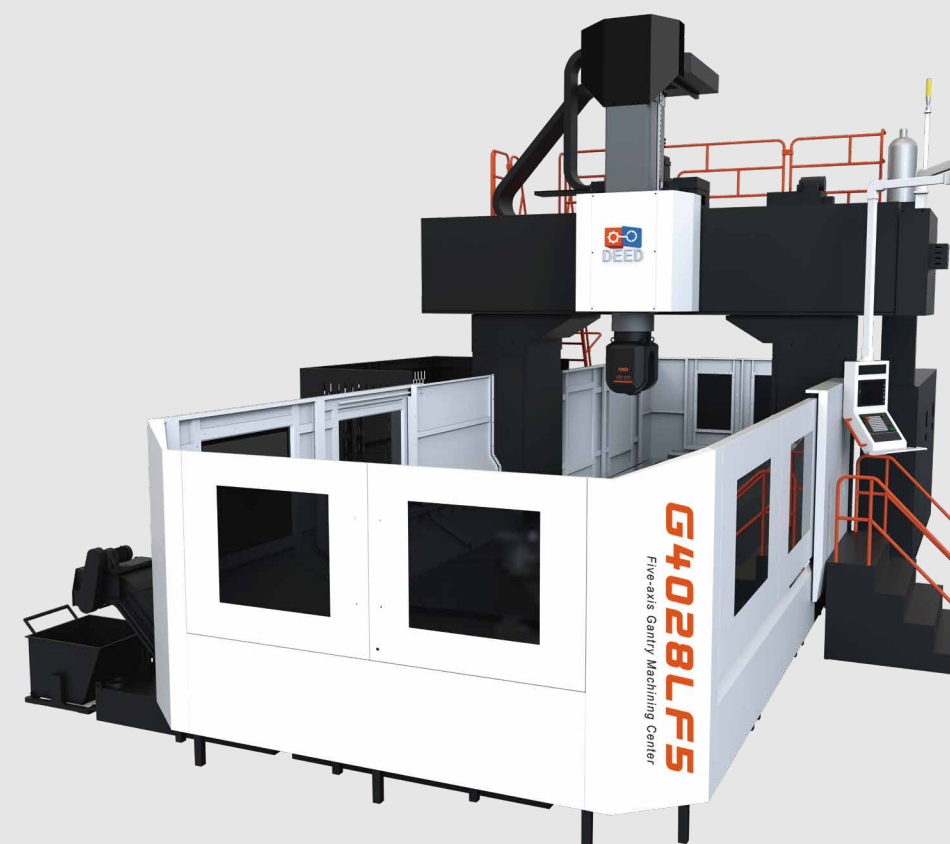


技术参数

TECHNICAL PARAMETER

Model 型号		GMC2016L	GMC2516L	GMC3016L	GMC3516L	GMC4016L	GMC2020L	GMC2520L	GMC3020L	GMC3520L	GMC4020L	GMC3024L	GMC3524L	GMC4024L	GMC4524L	GMC3028L
配置 Configuration																
X轴行程 X axis travel	mm	2000	2500	3000	3500	4000	2000	2500	3000	3500	4000	3000	3500	4000	4500	3000
Y轴行程 Y axis travel	mm	1600	1600	1600	1600	1600	2000	2000	2000	2000	2000	2400	2400	2400	2400	3600
Z轴行程 Z axis travel	mm	850	850	850	850	850	850	850	850	850	850	850	850	850	850	1250
工作台宽度 Table width	mm	1250	1250	1250	1250	1250	1600	1600	1600	1600	1600	1800	1800	1800	1800	2600
工作台最大载重 Table max. load	t	5	6	8	9	10	7	9	11	13	14	15	16	17	18	17
主轴转速 Spindle speed	rpm	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	6000
主轴功率 Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26
主轴扭矩 Spindle torque	N·m	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	770/910
X/Y/Z快移速度 X/Y/Z fast traverse	m/min	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/12/16	16/12/16	16/12/16	16/12/16	12/12/12

Model 型号		GMC3528L	GMC4028L	GMC4528L	GMC5028L	GMC5528L	GMC6528L	GMC5532L	GMC6532L	GMC8532L	GMC10532L	GMC5537L	GMC6537L	GMC8537L	GMC10537L
配置 Configuration															
X轴行程 X axis travel	mm	3500	4000	4500	5000	5500	6500	5500	6500	8500	10500	5500	6500	8500	10500
Y轴行程 Y axis travel	mm	3600	3600	3600	3600	3600	3600	4000	4000	4000	4000	4500	4500	4500	4500
Z轴行程 Z axis travel	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
工作台宽度 Table width	mm	2600	2600	2600	2600	2600	2600	2800	2800	2800	2800	3500	3500	3500	3500
工作台最大载重 Table max. load	t	18	20	22	24	26	30	28	32	36	40	28	32	36	40
主轴转速 Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
主轴功率 Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26
主轴扭矩 Spindle torque	N·m	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910
X/Y/Z快移速度 X/Y/Z fast traverse	m/min	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	10/12/12	12/12/12	12/12/12	12/12/12	10/12/12



定梁五轴龙门加工中心

Fixed-beam 5-axis Gantry Machining Center

便利的操作 极佳的加工能力

Easy operation Excellent Machining Capacity

本机床为定梁五轴龙门加工中心，采用龙门框架固定工作台移动结构，床身与立柱采用新型矿物材料，立柱固定在床身左右两侧，横梁固定在立柱上，横梁上装有滑枕，配置高速高精的双摆铣头，对称型结构，保证结构的热对称性，整机刚度高，稳定性好，机床定位精度高。主轴配置恒温冷却功能，提高了主轴精度的稳定性和机床的加工精度，主轴箱采用双液压缸平衡机构，保证主轴箱运动的稳定性。

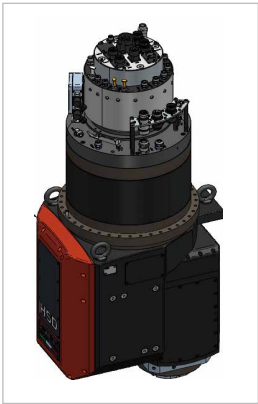
机床采用多轴联动系统，具有高精度、高速度、高柔性的特点，有效提高生产效率和加工精度，主要用于航空航天、船舶、新能源、重机机车、纺织印刷、模具制造等领域，适用于大型工件板件、盘件类、壳体件、模具等多品种的精密零件的加工。

The series of machine is fixed-beam 5-axis gantry machining center, which applies gantry frame fixed table moving structure, bed and columns adopting new mineral materials, columns fixed at both sides of the bed, beam fixed on columns and equipped with a ram, beam configured with high-speed and high-precision double swing milling head in symmetrical structure to ensure the thermal symmetry of the structure and achieve high rigidity, high stability and high positioning accuracy. The spindle is equipped with constant temperature cooling function, which improves the stability of the spindle precision and the machining accuracy of the machine tool. The spindle box adopts double hydraulic cylinder balancing mechanism to ensure the stability of spindle box movement.

With multi-axis linkage system, the machine gains characteristics of high-precision, high-speed and high-flexibility, can effectively improve production efficiency and processing accuracy. It can be mainly used in aerospace, ships, new energy, heavy machinery locomotive, textile printing, mold making and other fields, suitable for large plates, disc-type parts, housing parts, molds and other various kinds of precision parts processing.

标配 HSD 五轴双摆铣头

STANDARD HSD FIVE-AXIS DOUBLE SWING MILLING HEAD



- HSD五轴双摆铣头
HSD 5-AXIS Double Swing Milling Head
- 交叉一体结构
Cross integrated structure
- A/C轴 力矩电机+电主轴
A/C axis Torque motor+electrical spindle
- A/C轴 气动/液压抱紧
A/C axis Pneumatic/hydraulic clamping
- 高速电主轴 高速切削
High-speed electrical spindle High-speed cutting
- 适合高速高动态性能的场所
Suitable for applications with high-speed and high-dynamic performance

技术参数

TECHNICAL PARAMETER

配置 Configuration	型号 Model	单位 Unit	G3024LF5	G4028LF5	G6532LF5
门宽 Door width		mm	2400	2800	3200
X/Y/Z行程 X/Y/Z travel		mm	3000/2600/1050	4000/3200/1050	6500/3600/1050
工作台尺寸 Table size		mm	3000×1800	4000×2200	6500×2800
工作台承重 Table load		kg	10000	16000	20000
X/Y/Z快移速度 X/Y/Z fast traverse		m/min	12/12/12	12/12/12	12/12/12
主轴锥度 Spindle taper		/	HSK-A63	HSK-A63	HSK-A100
主轴最高转速 Spindle max.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轴转位角度 A axis rotation angle		°	±110	±110	±100
C轴转位角度 C axis rotation angle		°	±360	±360	±360
A/C轴最高转速 A/C axis max. speed		rpm	30	30	30

标准配置

STANDARD CONFIGURATION

序号 Serial number	名称 Name	序号 No.	名称 Name
1	SIEMENS ONE	9	外防护 External protection
2	主轴恒温系统 Spindle constant temperature 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	全闭环光栅尺 Full closed-loop grating ruler

选购配置

OPTIONS

序号 Serial number	名称 Name	序号 No.	名称 Name
1	华中系统五轴联动 FANUC 0iMF (1) 4+1/3+2控制 HNC system 5-axis simultaneous Fanuc 0i MF(1) 4+1/3+2 control	9	工件清洁水枪 Workpiece cleaning water gun
2	圆盘刀库24T/30T Disc tool magazine 24T/30T	10	油水分离装置 Oil water separating device
3	链式刀库32T/40T/60T Chain type tool magazine 32T/40T/60T	11	地基下沉900mm Foundation sink 900mm
4	Z轴行程1250mm，立柱加高 Z axis travel 1250mm, Column heightened	12	伊贝格五轴头 Mepro 5-axis milling head
5	中心出水20/30/50/70bar CTS 20/30/50/70bar	13	凯斯勒五轴头 Kessler 5-axis milling head
6	在线测量 Online measurement	14	机床全封闭式防护 Machine tool fully-enclosed protection
7	对刀仪 Tool setter	15	油雾收集器 Oil mist collector
8	机床四周封闭式防护 Machine tool four-side enclosed protection	16	基准球，检棒，方尺 Benchmark ball, test rod, square ruler

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