



Gear-hobbing Machine

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- The machine tool is a six-axis/ten-axis four-linkage CNC high-efficiency dry cutting gear hobbing machine; Each CNC motion shaft of GYS3115/GYS3115-CDR machine tool is driven by an independent AC servo motor, and the B-axis is driven by a high-power spindle servo motor through a three-stage high-precision helical gear pair, and the end has a backlash mechanism.
C-axis adopts high precision helical gear pair to realize high speed and high precision indexing.
B-axis of GYH3115/GYH3115CNC-CDR machine tool is directly driven by a built-in motor, and the C-axis is directly driven by a built-in torque motor.
- The spindle of the table is supported by high-precision angular contact ball bearings.
- The machine tool adopts vertical layout structure, linear movement axis adopts rolling linear guide, and the cutting zone of the bed adopts large bevel Angle to realize rapid chip discharge and reduce the thermal deformation of the machine tool;
- The machine has a fully enclosed protective cover, dust collection device, automatic chip removal device, automatic workpiece clamping device, etc.;
- Automatic loading and unloading unit and workpiece bin can be selected, which can easily form automatic gear processing production line with other machine tools;
- The machine can be configured with chamfering and deburring mechanism to realize the functional compound of multiple processes;
- The machine tool has good human-machine dialogue interface (HMI), parametric programming function, and system self-diagnosis function;
- The machine can be configured with FANUC system or SIEMENS system;
- The machine tool is mainly used in automobile manufacturing, motorcycle, power tools, machinery maintenance and other industries.
- According to the principle of development method, it can realize the processing of cylindrical spur gear, helical gear (shaft gear, disk gear), small taper gear, drum gear, spline, sprocket and other parts;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6

| SPECIFICATIONS | | PARAMETER | |
|--|-------|-----------------------|-----------------------|
| | | GYS3115 \ GYS3115-CDR | GYH3115 \ GYH3115-CDR |
| Max diameter | mm | 150 | 150 |
| Max modulus | mm | 4 | 4 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 1500 | 2500 |
| Max worktable speed | r/min | 200 | 300 |
| Max tool size (diameter * length) | mm | Φ110×180 | Φ110×180 |
| Max axial movement of hob | mm | 150 | 150 |
| Distance from hob center to table center | mm | 15~175 | 15~175 |
| Distance from hob center to table | mm | 200~470 | 200~470 |
| Parameters of the chamfering device | | | |
| Max machining workpiece diameter | mm | 150 | |
| Min workpiece tooth base diameter | mm | 15 | |
| Max machining workpiece modulus | mm | 4 | |
| Workpiece tooth width/chamfering tool dia | mm | 5-50 | |
| Chamfering tool to workpiece distance | mm | Φ200×210 | |
| Chamfering tool face distance from table | mm | 110-285 | |
| Chamfering tool face distance from table | mm | 200-385 | |

- The machine tool is an eight-axis/twelve-axis four-linkage high-speed dry cutting gear hobbing machine , which is green, environmentally friendly and efficient;
- The machine adopts the vertical layout of column offset and horizontal movement of slide board to complete the radial feed movement, and is equipped with a fully sealed guard, internal protection of rapid chip removal and dry cooling system, which makes the machine have good thermal stability and stable processing size;
- The tool and workpiece spindle of the machine tool are driven by direct drive, with fast transmission speed and high running accuracy.
- Equipped with high-quality dry cutting hob, the cutting speed of small and medium modulus gear can reach more than 300m/min, and the processing efficiency can reach more than three times of the wet cutting machine.
- The machine is equipped with a single loading and unloading mechanism and automatic transmission silo to meet the needs of automated and flexible production;
- The machine can be configured with SIEMENS or FANUC system;
- GYDE3120CNC-CD machine tool is equipped with extrusion chamfering and deburring mechanism to realize multi-process function compound;
- Machine tool is mainly suitable for new energy vehicles, automatic transmission, precision reducer and other industries of mass hobbing processing;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard 5-6.

| SPECIFICATIONS | | PARAMETER | |
|--|-------|------------|----------------|
| | | GYE3115CNC | GYDE3120CNC-CD |
| Max diameter | mm | 150 | 210 |
| Max modulus | mm | 4 | 4 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 2500 | 3000 |
| Max worktable speed | r/min | 300 | 300 |
| Max tool size (diameter * length) | mm | Φ130×180 | Φ130×230 |
| Max axial movement of hob | mm | 150 | 180 |
| Distance from hob center to table center | mm | 15~155 | 30~180 |
| Distance from hob center to table | mm | 180~480 | 195~495 |

- The machine tool is a six-axis / 13-axis four-linkage dry cutting gear hobbing machine, which is green, environmentally friendly and efficient;
- Each CNC motion shaft of the GYS3120/GYS3120-CD machine tool is driven by an independent AC servo motor, and the B-axis is driven by a high-power spindle servo motor through a two-stage high-precision helical gear pair, and the end is equipped with a backlash mechanism. C-axis adopts high precision helical gear pair to realize high speed and high precision indexing;
- GYH3120CNC/GYH3120-CD machine tool B axis is directly driven by built-in motor, and C axis is directly driven by built-in torque motor;
- The worktable spindle is supported by high-precision angular contact ball bearing;
- The machine adopts horizontal movement of the column to complete the vertical layout of the radial feed movement to achieve efficient gear hobbing;
- Compact machine structure, small footprint, equipped with full seal shield, chip protection, dry cooling system, to achieve high-speed dry cutting gear processing;
- The machine can be configured with forming milling cutter roller cutting mode chamfering to realize multi-process function compound;
- The machine can be equipped with single machine automation and a variety of connection interfaces to meet the user's automation and flexible production needs;
- The machine can be selected with gear matching mechanism to achieve fine hobbing after heat;
- The machine can be equipped with FANUC system, SIEMENS system or GSK25iG system;
- The machine tool is mainly suitable for the gear processing of motorcycles, passenger cars, instruments, electric tools, general machinery, reducer and other industries, with high cost performance;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.



- Machine tool for 6-axis / 7-axis / 11-axis four-linkage high-speed dry cutting gear hobbing machine, green, environmental protection, efficient;
- The machine adopts horizontal movement of the column to complete the vertical layout of the radial feed movement to achieve efficient gear hobbing;
- The machine is equipped with a fully sealed shield, rapid chip removal internal protection, dry cooling system, the machine has good thermal stability and stable processing size;
- The machine tool and workpiece spindle are driven by direct drive, with short transmission chain and high transmission precision; High rigidity rolling bearing is adopted to realize high speed, high rigidity and large load dry cutting of medium modulus gear.
- The machine can be equipped with a single loading and unloading mechanism and automatic transmission silo to meet the needs of automated and flexible production; + The machine can be configured with extrusion chamfering and deburring mechanism to realize multi-process function compound;
- The machine can be equipped with gear matching mechanism to achieve fine hobbing after heat;
- The machine can be configured with SIEMENS or FANUC system;
- The machine tool is mainly suitable for mass hobbing of passenger cars, commercial vehicles, construction machinery, reducer and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.

| SPECIFICATIONS | | PARAMETER | |
|--|-------|------------|---------------|
| | | GYS3120/CD | GYH3120CNC/CD |
| Max diameter | mm | 200 | 200 |
| Max modulus | mm | 6 | 6 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 1500 | 2300 |
| Max worktable speed | r/min | 200 | 250 |
| Max tool size (diameter * length) | mm | Φ130×230 | Φ130×230 |
| Max axial movement of hob | mm | 180 | 180 |
| Distance from hob center to table center | mm | 30~230 | 30~230 |
| Distance from hob center to table | mm | 185~485 | 185~485 |

| SPECIFICATIONS | | PARAMETER |
|--|-------|--------------|
| | | Max diameter |
| Max modulus | mm | 6 |
| Max turning angle of the tool holder | 度 | ±45 |
| Max speed of hob spindle | r/min | 2500 |
| Max worktable speed | r/min | 250 |
| Max tool size (diameter * length) | mm | Φ130×230 |
| Max axial movement of hob | mm | 200 |
| Distance from hob center to table center | mm | 30~220 |
| Distance from hob center to table | mm | 135~485 |

- Machine tool for 6-axis / 7-axis / 11-axis four-linkage high-speed dry cutting gear hobbing machine, green, environmental protection, efficient;
- The machine adopts horizontal movement of the column to complete the vertical layout of the radial feed movement to achieve efficient gear hobbing;
- The machine is equipped with a fully sealed shield, rapid chip removal internal protection, dry cooling system, the machine has good thermal stability and stable processing size;
- The machine tool and workpiece spindle are driven by direct drive, with short transmission chain and high transmission precision; High rigidity rolling bearing is adopted to realize high speed, high rigidity and large load dry cutting of medium modulus gear.
- The machine can be equipped with a single loading and unloading mechanism and automatic transmission silo to meet the needs of automated and flexible production; +
- The machine can be configured with extrusion chamfering and deburring mechanism to realize multi-process function compound;
- The machine can be equipped with gear matching mechanism to achieve fine hobbing after heat;
- The machine can be configured with SIEMENS or FANUC system;
- The machine tool is mainly suitable for mass hobbing of passenger cars, commercial vehicles, construction machinery, reducer and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.

| SPECIFICATIONS | | PARAMETER |
|--|-------|------------|
| | | GYD3126-CD |
| Max diameter | mm | 260 |
| Max modulus | mm | 6 |
| Max turning angle of the tool holder | 度 | ±45 |
| Max speed of hob spindle | r/min | 2500 |
| Max worktable speed | r/min | 250 |
| Max tool size (diameter * length) | mm | Φ130×230 |
| Max axial movement of hob | mm | 200 |
| Distance from hob center to table center | mm | 30~220 |
| Distance from hob center to table | mm | 135~485 |

- The machine tool is a six-axis/seven-axis four-linkage high-speed dry cutting gear hobbing machine, which is green , environmentally friendly and efficient;
- The machine adopts horizontal movement of the column to complete the vertical layout of the radial feed movement to achieve efficient gear hobbing;
- The machine is equipped with a fully sealed shield, rapid chip removal internal protection, dry cooling system, the machine has good thermal stability and stable processing size;
- The tool spindle of the machine tool is driven by gear pair, and the workpiece spindle is driven by direct drive, with short transmission chain and high transmission precision; High rigidity rolling bearing is adopted to realize high speed, high rigidity and large load dry cutting of medium modulus gear.
- The machine can be equipped with a single loading and unloading mechanism and automatic transmission silo to meet the needs of automated and flexible production;
- The machine can be configured with chamfering and deburring mechanism to realize the functional compound of multiple processes;
- The machine can be configured with Siemens or FANUC system;
- The machine tool is mainly suitable for mass hobbing of passenger cars, commercial vehicles, construction machinery, reducer and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.

| SPECIFICATIONS | | PARAMETER |
|--|-------|-----------|
| Max diameter | mm | 320 |
| Max modulus | mm | 8 |
| Max turning angle of the tool holder | 度 | ±45 |
| Max speed of hob spindle | r/min | 1000 |
| Max worktable speed | r/min | 80 |
| Max tool size (diameter * length) | mm | Φ170×230 |
| Max axial movement of hob | mm | 200 |
| Distance from hob center to table center | mm | 40~320 |
| Distance from hob center to table | mm | 220 ~570 |

- The machine tool is a six-axis four-linkage CNC high-efficiency gear hobbing machine;
- It can realize dry cutting, wet cutting, micro-lubrication, water-based cooling cutting;
- The machine table adopts torque motor direct drive table, and the tool holder adopts one tooth difference gear drive;
- The worktable spindle system, X, Y, Z axis screw and bearing are lubricated with oil and gas;
- The Y axis of the machine adopts large column moving channeling tool;
- The machine has compact structure, good dynamic and static rigidity, suitable for cutting with multi-hob and large cutting amount, greatly improving cutting efficiency, especially suitable for efficient processing of large modulus gear;
- Imported linear guide rails are used for X and Z axes of the machine tool, and high and low horizontal plane plaster-coated guide rails are used for Y axes;
- The machine adopts fully enclosed protective cover, automatic chip removal device, automatic workpiece clamping device, etc. Automatic loading and unloading unit and workpiece bin can be selected, which can easily form automatic gear processing production line with other machine tools;
- The machine tool has good human-machine dialogue interface (HMI), parametric programming function, and system self-diagnosis function;
- The machine can be configured with FANUC or SIEMENS system;
- The machine tool is mainly suitable for high-efficiency gear hobbing processing of passenger cars, commercial vehicles, construction machinery, Marine machinery, agricultural machinery, reducer and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.



- The machine tool is a five-axis four-linkage wet cutting CNC hobbing machine;
- The machine tool has good human-computer interaction interface, parametric automatic programming function, system self-diagnosis function, etc.;
- The machine is equipped with a fully enclosed shield, oil mist collection device, automatic chip removal device, automatic workpiece clamping device, etc. And can easily and other machine tools to form automatic gear processing line;
- The machine tool is standard equipped with domestic CNC system, FANUC or SIEMENS system can also be selected;
- The machine can process cylindrical spur gear, helical gear, small taper gear, drum gear, sprocket, spline, worm gear, etc., with multiple box cycle function;
- The machine tool is mainly used for gear processing in passenger cars, commercial vehicles, construction machinery, Marine machinery, mining machinery, agricultural machinery and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard 6-7.

| SPECIFICATIONS | | PARAMETER | |
|---|-----|-----------|----------|
| | | GYE3140 | GYE3160 |
| Max diameter | mm | 400 | 600 |
| Max modulus | mm | 8(湿12) | 8(湿12) |
| Max turning Angle (A-axis) | 度 | ±45 | ±45 |
| Max installation dia and length of hob | | Φ160×230 | Φ160×230 |
| Max axial channeling (Y-axis) | mm | 200 | 200 |
| Horizontal from hob center to table center (X-axis) | mm | 70-370 | 70-420 |
| Vertical distance between hob center and table (Z-axis) | mm | 250-850 | 250-850 |
| Distance of outer support face and table(Z2 axis) | mm | 400-900 | 400-900 |
| Maximum hob speed (B axis) | rpm | 1500 | 1500 |
| Max worktable speed(C axis) | rpm | 200 | 200 |
| Main motor power | kw | 22 | 22 |

| SPECIFICATIONS | | PARAMETER |
|---------------------------------|-------|------------|
| | | GYP3132CNC |
| Max diameter | mm | 320 |
| Max modulus | mm | 8 |
| Max spindle speed | r/min | 540 |
| Max table speed | r/min | 32 |
| Maximum cutter size(dia*length) | mm | Φ160×200 |
| Maximum channeling distance | mm | 150 |

- The machine tool is six, seven axis and four linkage CNC high efficiency hobbing machine, wet processing;
- The machine adopts vertical layout structure, the linear movement axis guide rail is supported by large plane cast iron guide rail and is precision scraped, with good contact strength and movement accuracy;
- The machine has compact structure, good dynamic and static rigidity, suitable for cutting with multi-hob and large cutting amount, greatly improving cutting efficiency, especially suitable for efficient processing of large modulus gear;
- The machine tool has a fully enclosed protective cover, oil mist collection device, automatic chip removal device, automatic workpiece clamping device, etc.;
- Automatic loading and unloading unit and workpiece bin can be selected, which can easily form automatic gear processing production line with other machine tools;
- The machine has a good human-machine dialogue interface (HMI), parametric programming function, system self-diagnosis function;
- The machine can be configured with FANUC or SIEMENS system;
- The machine tool is mainly suitable for high-efficiency gear hobbing processing of passenger cars, commercial vehicles, construction machinery, Marine machinery, agricultural machinery, reducer and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.



- The machine tool is a six-axis four-linkage CNC hobbing machine with high rigidity, high efficiency and high precision;
- The Y-axis of the machine tool is arranged under the large column, and the inclined plane of the Y-axis guide rail is arranged, which not only increases the rigidity of the tool rest, but also uses the gravity of the machine tool to offset part of the cutting reaction force, so that the rigidity and stability of the machine tool are further improved.
- GYD3136CNC workpiece spindle adopts built-in torque motor to ensure the rigidity and accuracy of the transmission system;
- The machine tool has a fully enclosed external shield and internal shield, and a perfect and reliable chip and oil mist quick collection and removal system;
- The machine is equipped with SIEMENS/FANUC system;
- Suitable for commercial vehicles, ships, wind power, construction machinery industries such as large modulus, few teeth gear efficient processing;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.

| SPECIFICATIONS | | PARAMETER | |
|--|-------|--------------|--|
| | | GY3132CNC6-7 | |
| Max diameter | mm | 320 | |
| Max modulus | mm | 10 | |
| Max turning angle of the tool holder | 度 | ±45 | |
| Max speed of hob spindle | r/min | 700 | |
| Max worktable speed | r/min | 60 | |
| Max tool size (diameter * length) | mm | Φ170×230 | |
| Max axial movement of hob | mm | 200 | |
| Distance from hob center to table center | mm | 40~310 | |
| Distance from hob center to table | mm | 210~570 | |

| SPECIFICATIONS | | PARAMETER | |
|--|-------|-----------|------------|
| | | GY3136CNC | GYD3136CNC |
| Max diameter | mm | 360 | 360 |
| Max modulus | mm | 16 | 16 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 400 | 400 |
| Max worktable speed | r/min | 60 | 80 |
| Max tool size (diameter * length) | mm | Φ220×230 | Φ220×230 |
| Max axial movement of hob | mm | 200 | 200 |
| Distance from hob center to table center | mm | 70~320 | 70~320 |
| Distance from hob center to table | mm | 150~590 | 150~590 |

- The machine tool is six, seven axis and four linkage CNC high efficiency hobbing machine, wet processing;
- The machine adopts vertical layout structure, the linear movement axis guide rail is supported by large plane cast iron guide rail and is precision scraped, with good contact strength and movement accuracy;
- The machine has compact structure, good dynamic and static rigidity, suitable for cutting with multi-hob and large cutting amount, greatly improving cutting efficiency, especially suitable for efficient processing of large modulus gear;
- The machine has a fully enclosed protective cover, oil mist collection device, automatic chip removal device, automatic workpiece clamping device, etc.
- Automatic loading and unloading unit and workpiece bin can be selected, which can easily form automatic gear processing production line with other machine tools;
- The machine has a good human-machine dialogue interface (HMI), parametric programming function, system self-diagnosis function;
- The machine can be configured with FANUC or SIEMENS system;
- The machine tool is mainly suitable for high-efficiency gear hobbing processing of passenger cars, commercial vehicles, construction machinery, Marine machinery, agricultural machinery, reducer and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 7.



- Machine tool for four, five axis four linkage wet cutting CNC hobbing machine;
- Machine tool standard for domestic CNC system;
- The machine tool has the functions of man-machine interface, parametric programming, etc.
- The machine can realize one clamping, multiple, multiple box cycles;
- The machine is equipped with a fully enclosed shield; Optional oil mist collection device, automatic chip removal device, automatic workpiece clamping device, etc.
- The machine can process cylindrical spur gear, helical gear, small taper gear, drum gear, sprocket, spline, worm gear, etc.
- The machine tool is mainly applicable to the gear processing of passenger cars, commercial vehicles, construction machinery, Marine machinery, agricultural machinery, lifting machinery and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard 6-7.

| SPECIFICATIONS | | PARAMETER | | | |
|--|-------|--------------|--------------|------------|-------------|
| | | GY3140CNC6-7 | GY3152CNC6-7 | GY3160CNC6 | GYS3180CNC6 |
| Max diameter | mm | 400 | 500 | 600 | 800 |
| Max modulus | mm | 16 | 16 | 16 | 16 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 500 | 500 | 500 | 500 |
| Max worktable speed | r/min | 35 | 35 | 35 | 35 |
| Max tool size (diameter * length) | mm | Φ200×240 | Φ200×240 | Φ220×240 | Φ220×240 |
| Max axial movement of hob | mm | 200 | 200 | 200 | 200 |
| Distance from hob center to table center | mm | 45~305 | 45~355 | 40~415 | 60~470 |
| Distance from hob center to table | mm | 280~680 | 280~680 | 200~750 | 200~750 |

| SPECIFICATIONS | | PARAMETER | |
|----------------|-------|---------------|---------------|
| | | GY3150ECNC4/5 | GY3180HCNC4/5 |
| 最大工件直径 | mm | 500 | 800 |
| 最大工件模数 | mm | 8 | 10 |
| 主轴最高转速 | r/min | 250 | 200 |
| 工作台最高转速 | r/min | 8 | 5.8 |
| 最大装刀尺寸 (直径×长度) | mm | Φ160×160 | Φ180×180 |
| 最大手动窜刀距离 | mm | 55 | 50 |

- The machine tool is a six-axis four-linkage large CNC gear hobbing machine;
- The machine is fixed by the workbench, and the column is moved to complete the vertical layout of radial feed. The machine is equipped with a fully enclosed shield, oil mist collection device, automatic chip removal device, and optional automatic workpiece clamping device;
- The hob spindle is driven by high precision gear, and the worktable is driven by double worm gear; Radial and axial feed axes are supported by rectangular steel insert guide rail and rolling guide rail block;
- The whole machine has high precision and good rigidity;
- Machine tool is suitable for high efficiency machining of high speed coating hob and carbide blade hob; For large module gear, the machine tool can adopt disk milling cutter and hob once clamping, to achieve rough milling and fine rolling process;
- The machine can be equipped with micro-lubrication and cooling device to achieve quasi-dry cutting function;
- The machine tool is suitable for gear processing in heavy duty automobile, wind power, construction machinery, ship, lifting, mining machinery, power generation equipment and other industries;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard 6-7



- The machine tool is a six-axis four-linkage large CNC gear hobbing machine;
- The machine is fixed by the workbench, and the column is moved to complete the vertical layout of radial feed.
- The machine is equipped with a fully enclosed shield, oil mist collection device, automatic chip removal device, and optional automatic workpiece clamping device;
- The hob spindle is driven by high precision gear, and the worktable is driven by double worm gear;
- Radial and axial feed axes are supported by rectangular steel insert guide rail and rolling guide rail block;
- The whole machine has high precision and good rigidity;
- The machine is suitable for high efficiency machining of high speed coating hob and carbide blade hob;
- The machine tool is suitable for gear processing in heavy duty automobile, wind power, construction machinery, ship, lifting, mining machinery, power generation equipment and other industries;
- The machine can be equipped with micro-lubrication and cooling device to achieve quasi-dry cutting function;
- The machining accuracy of the machine can reach GB/T10095.1-2008 standard level 6.

| SPECIFICATIONS | | PARAMETER | | | |
|--|-------|-----------|----------|----------|-------------|
| | | GYD3180 | GYD31125 | GYD31200 | GY31320CNC6 |
| Max diameter | mm | 800 | 1250 | 2000 | 3200 |
| Max modulus | mm | 27 | 30 | 32 | 32 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 260 | 260 | 200 | 200 |
| Max worktable speed | r/min | 24 | 16 | 4 | 4 |
| Max tool size (diameter * length) | mm | Φ350×450 | Φ400×500 | Φ460×600 | Φ460×600 |
| Max axial movement of hob | mm | 380 | 400 | 600 | 600 |
| Distance from hob center to table center | mm | 100~650 | 100~850 | 30~1300 | 280~2000 |
| Distance from hob center to table | mm | 400~1400 | 400~1400 | 765~2165 | 765~2765 |
| Table load | T | 10 | 12 | 30 | 40 |
| Main motor power | kw | 43 | 43 | 53 | 53 |

| SPECIFICATIONS | | PARAMETER | | | |
|--|-------|-------------|-------------|-------------|-------------|
| | | GY3180CNC6 | GY31125CNC6 | GY31160CNC6 | GY31200CNC6 |
| Max diameter | mm | 800 | 1250 | 1600 | 2000 |
| Max modulus | mm | 18 | 18 | 27 | 27 |
| Max turning angle of the tool holder | 度 | ±45 | ±45 | ±45 | ±45 |
| Max speed of hob spindle | r/min | 275/350/500 | 275/350/500 | 220 | 220 |
| Max worktable speed | r/min | 24 | 24 | 8 | 8 |
| Max tool size (diameter * length) | mm | Φ240×300 | Φ240×300 | Φ400×500 | Φ400×500 |
| Max axial movement of hob | mm | 300 | 300 | 400 | 400 |
| Distance from hob center to table center | mm | 75~560 | 100~780 | 150~1050 | 150~1200 |
| Distance from hob center to table | mm | 200~800 | 450~1050 | 470~1770 | 470~1770 |
| Table load | T | 5 | 7 | 20 | 20 |
| Main motor power | kw | 33 | 33 | 43 | 43 |