



2024 Version
General Catalog



ZOPO Intelligent Equipment Co., Ltd.

ZOPO Intelligent Equipment Co., Ltd. (Former Shanghai NO.7 Machine Tool Factory) is located at Huangshan city, Anhui province, which is the world-famous UNESCO World Heritage Site. Following the adjustment of the national industrial layout, the company moved from Shanghai to Huangshan City in 1966. Grasped the pulse of the era of reform and opening up, ZOPO had been devoted to machine tool design, manufacturing and service in past decades.

ZOPO's product ranges cover 5 series and 200+ models which include vertical, horizontal and double column machining centers, horizontal and vertical CNC lathes, CNC and conventional knee-type milling machines etc. They are widely applied in automotive, shipbuilding , construction machinery, aerospace, new energy, molds, 3C electronics and other fields. Cooperated with thousands of end users in various industries, ZOPO accumulates abundant experience in customized industrial solutions.

ZOPO continuously invests in independent R&D and technological innovation of high-end CNC machine tools, constantly explore new technologies and solutions to adapt

to the changing market. Relying on deep technology and manufacturing process accumulation in past decades, ZOPO uninterruptedly improve the performance and accuracy of the machine tools to ensure the stability and high reliability. Furthermore it established a relatively complete technical system and case library for automatic line designing, core functional components manufacturing, and the second development of the control system application etc.

Adhering to the values of professionalism, innovation, responsibility, enthusiasm, efficiency, and fraternity, ZOPO has won the trust from customers worldwide with its excellent innovation ability, outstanding customization ability, increasingly perfect delivery capabilities, and timely service capabilities.

In the new era, ZOPO will focus on customer application scenarios and continue to work as a professional, customer-oriented, integrated solution provider and contribute its utter strength to the high-quality development of national equipment manufacturing.



World class processing equipments ensure high quality machine accuracy.



Precision measuring equipments with meticulous inspection process



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Vertical Machining Center

Independent R&D based on combination of world leading design concepts and experience accumulated from abundant market feedback, devoted on iterating and offering products for wider choice.

High scalability, diverse optional configurations, flexible to meet customers' multi-scenario processing needs

Seeking perfect balance on machine performance of precision, rigidity, efficiency and stability.



Belt spindle for universal application

SEB series- Efficiency Models

| | Unit | SEB855 | SEB1055 | SEB1165 | SEB1265 |
|---|--------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 500*1000 | 500*1100 | 600*1200 | 600*1300 |
| T-slot size | mm | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*100 |
| Max. load bearing of worktable | kg | 600 | 600 | 800 | 800 |
| 3 axis travel X/Y/Z | mm | 850/550/600 | 1000/550/600 | 1100/650/600 | 1200/650/600 |
| Distance from column front to spindle center | mm | 597 | 597 | 697 | 697 |
| Distance from table top surface to spindle nose | mm | 120-720 | 120-720 | 120-720 | 120-720 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT40 |
| Spindle power | kW | 11/15 | 11/15 | 11/15 | 11/15 |
| Max. spindle speed | rpm | 8000 | 8000 | 8000 | 8000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/36 | 48/48/36 | 36/36/32 | 36/36/32 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 |
| Machine dimension | mm | 2650*2700*2850 | 2650*2700*2850 | 3200*2985*2960 | 3200*2985*2960 |
| Machine weight | kg | 4500 | 4800 | 5500 | 5600 |

Direct spindle for high efficiency application

SED series- Efficiency Models

| | Unit | SED855 | SED1055 | SED1165 | SED1265 |
|---|--------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 500*1000 | 500*1100 | 600*1200 | 600*1300 |
| T-slot size | mm | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*100 |
| Max. load bearing of worktable | kg | 600 | 600 | 800 | 800 |
| 3 axis travel X/Y/Z | mm | 850/550/600 | 1000/550/600 | 1100/650/600 | 1200/650/600 |
| Distance from column front to spindle center | mm | 597 | 597 | 697 | 697 |
| Distance from table top surface to spindle nose | mm | 120-720 | 120-720 | 120-720 | 120-720 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT40 |
| Spindle power | kW | 7.5/11 | 7.5/11 | 11/15 | 11/15 |
| Max. spindle speed | rpm | 12000 | 12000 | 12000 | 12000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/36 | 48/48/36 | 36/36/32 | 36/36/32 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 |
| Machine dimension | mm | 2650*2700*2850 | 2650*2700*2850 | 3200*2985*2960 | 3200*2985*2960 |
| Machine weight | kg | 4500 | 4800 | 5500 | 5600 |

Motorized spindle for high accuracy application

SE series- Efficiency Models

| | Unit | SVE650 | SE855 | SE1055 | SE1165 | SE1265 |
|---|--------|----------------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 400*850 | 500*1000 | 500*1100 | 600*1200 | 600*1300 |
| T-slot size | mm | 3-18*100 | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*100 |
| Max. load bearing of worktable | kg | 400 | 600 | 600 | 800 | 800 |
| 3 axis travel X/Y/Z | mm | 650/400/500 | 850/550/600 | 1000/550/600 | 1100/650/600 | 1200/650/600 |
| Distance from column front to spindle center | mm | 451 | 597 | 597 | 697 | 697 |
| Distance from table top surface to spindle nose | mm | 100-600 | 120-720 | 120-720 | 120-720 | 120-720 |
| Spindle hole taper | | HSK-E40 | BBT40 | BBT40 | BBT40 | BBT40 |
| Spindle power | kW | 8.5 | 16/18.5 | 16/18.5 | 16/18.5 | 16/18.5 |
| Max. spindle speed | rpm | 30000 | 16000 | 16000 | 16000 | 16000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/32 | 48/48/36 | 48/48/36 | 36/36/32 | 36/36/32 |
| Tool magazine capacity | T | 20 | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Machine dimension | mm | 2110*2320*2750 | 2650*2700*2850 | 2650*2700*2850 | 3200*2985*2770 | 3200*2985*2770 |
| Machine weight | kg | 4100 | 4500 | 4800 | 5400 | 5500 |

Belt spindle for high rigidity application

VMC series- Classic Models

| | Unit | VMC850P | VMC1000P | VMC1060B | VMC1160B |
|---|--------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 500*1000 | 520*1200 | 600*1200 | 610*1300 |
| T-slot size | mm | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*100 |
| Max. load bearing of worktable | kg | 500 | 500 | 800 | 900 |
| 3 axis travel X/Y/Z | mm | 850/500/550 | 1000/520/535 | 1000/620/630 | 1100/610/630 |
| Distance from column front to spindle center | mm | 582 | 582 | 667 | 667 |
| Distance from table top surface to spindle nose | mm | 100-650 | 80-615 | 110-740 | 110-740 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT40 |
| Spindle power | kW | 11/15 | 11/15 | 11/15 | 11/15 |
| Max. spindle speed | rpm | 8000 | 8000 | 8000 | 8000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/32 | 48/48/32 | 36/36/32 | 36/36/32 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 |
| Machine dimension | mm | 2978*2490*2885 | 2978*2490*2885 | 2850*2300*2850 | 3150*2300*2850 |
| Machine weight | kg | 5500 | 5800 | 6800 | 7000 |

Direct spindle for high speed application

V series -Classic Models

| | Unit | V8P | V10P | V10B | V11B |
|---|--------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 500*1000 | 520*1200 | 600*1200 | 610*1300 |
| T-slot size | mm | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*100 |
| Max. load bearing of worktable | kg | 500 | 500 | 800 | 900 |
| 3 axis travel X/Y/Z | mm | 850/500/550 | 1000/520/535 | 1000/620/630 | 1100/610/630 |
| Distance from column front to spindle center | mm | 582 | 582 | 667 | 667 |
| Distance from table top surface to spindle nose | mm | 120-670 | 100-635 | 120-750 | 120-750 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT40 |
| Spindle power | kW | 7.5/11 | 7.5/11 | 11/15 | 11/15 |
| Max. spindle speed | rpm | 12000 | 12000 | 12000 | 12000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/48 | 48/48/48 | 36/36/32 | 36/36/32 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 |
| Machine dimension | mm | 2978*2490*2885 | 2978*2490*2885 | 2850*2300*2850 | 3150*2300*2850 |
| Machine weight | kg | 5500 | 5800 | 6800 | 7000 |

Belt spindle for box type guide way

VMC series- Classic Models

| | Unit | VMC855 | VMC1000 | VMC1165 | VMC1265 | VMC1580L | VMC1690L | VMC1890L | VMC2090L |
|---|--------|----------------|----------------|----------------|----------------|------------------------|------------------------|------------------------|------------------------|
| Worktable size | mm | 550*1000 | 550*1200 | 650*1300 | 650*1400 | 850*1700 | 850*1700 | 900*2000 | 900*2000 |
| T-slot size | mm | 5-18*100 | 5-18*100 | 5-18*125 | 5-18*125 | 7-18 (5×125/2×100) | 7-18 (5×125/2×100) | 7-18*125 | 7-18*125 |
| Max. load bearing of worktable | kg | 700 | 800 | 1000 | 1200 | 1300 | 1600 | 1800 | 1800 |
| 3 axis travel X/Y/Z | mm | 850/550/650 | 1000/570/650 | 1100/650/665 | 1200/670/665 | 1550/850/850 | 1650/900/900 | 1850/900/900 | 2000/900/900 |
| Distance from column front to spindle center | mm | 610 | 610 | 700 | 700 | 935 | 935 | 960 | 960 |
| Distance from table top surface to spindle nose | mm | 125-775 | 100-750 | 150-815 | 115-780 | 120-970 | 95-995 | 95-995 | 95-995 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT50 | BT50 | BT50 | BT50 | BT50 |
| Spindle power | kW | 11/15 | 11/15 | 11/15 | 11/15 | 15/18.5 (Wide area) | 15/18.5 (Wide area) | 15/18.5 (Wide area) | 15/18.5 (Wide area) |
| Max. spindle speed | rpm | 8000 | 8000 | 8000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Max. feed speed | mm/min | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| Rapid feed speed | m/min | 12/12/12 | 12/12/12 | 12/12/12 | 12/12/12 | 24/24/15 | 24/24/15 | 24/24/15 | 24/24/15 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Positioning accuracy | mm | 0.01 | 0.01 | 0.01 | 0.01 | 0.016 | 0.016 | 0.016 | 0.016 |
| Re-positioning accuracy | mm | 0.005 | 0.005 | 0.005 | 0.005 | 0.008 | 0.008 | 0.008 | 0.008 |
| Machine dimension | mm | 2700*2510*3000 | 2700*2510*3000 | 4800*2700*3250 | 4800*2700*3250 | 5800*3520*3800 | 5800*3520*3800 | 6400*3550*3880 | 6400*3550*3880 |
| Machine weight | kg | 6200 | 6500 | 8500 | 9000 | 13300 | 13500 | 14800 | 15200 |

Belt spindle for high rigidity and accuracy application

SVB Series – Excellent Models

| | Unit | SVB650 | SVB850 | SVB1060 | SVB1160 | SVB1270 | SVB1470 | SVB1580 | SVB1780 |
|---|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 400*850 | 500*1000 | 600*1200 | 600*1360 | 700*1400 | 700*1600 | 800*1700 | 800*1900 |
| T-slot size | mm | 3-18*100 | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*125 | 5-18*125 | 5-22*160 | 5-22*160 |
| Max. load bearing of worktable | kg | 400 | 600 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| 3 axis travel X/Y/Z | mm | 650/400/500 | 850/520/560 | 1000/620/620 | 1160/620/620 | 1200/700/700 | 1400/700/700 | 1500/800/800 | 1700/800/800 |
| Distance from column front to spindle center | mm | 451 | 592 | 663 | 663 | 766 | 766 | 887 | 887 |
| Distance from table top surface to spindle nose | mm | 100-600 | 120-680 | 150-770 | 150-770 | 150-850 | 150-850 | 180-980 | 180-980 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT40 | BT50 | BT50 | BT50 | BT50 |
| Spindle power | kW | 7.5/11 | 7.5/11 | 11/15 | 11/15 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 |
| Max. spindle speed | rpm | 8000 | 8000 | 8000 | 8000 | 6000 | 6000 | 6000 | 6000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/32 | 48/48/32 | 36/36/24 | 36/36/24 | 24/24/20 | 24/24/20 | 24/24/24 | 24/24/24 |
| Tool magazine capacity | T | 20 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 | 0.01 | 0.01 | 0.01 | 0.01 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 |
| Machine dimension | mm | 2110*2320*2750 | 2250*2700*2850 | 3540*2620*2930 | 3740*2620*2930 | 4350*2955*3320 | 4850*2955*3320 | 5300*3250*3560 | 5500*3250*3560 |
| Machine weight | kg | 4100 | 6500 | 6800 | 7000 | 9700 | 10000 | 14500 | 15000 |

Direct spindle for high speed and efficiency

SVD Series – Excellent Models

| | Unit | SVD650 | SVD850 | SVD1060 | SVD1160 | SVD1270 | SVD1470 |
|---|--------|----------------|----------------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 400*850 | 500*1000 | 600*1200 | 600*1360 | 700*1400 | 700*1600 |
| T-slot size | mm | 3-18*100 | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*125 | 5-18*125 |
| Max. load bearing of worktable | kg | 400 | 600 | 800 | 900 | 1000 | 1100 |
| 3 axis travel X/Y/Z | mm | 650/400/500 | 850/520/560 | 1000/620/620 | 1160/620/620 | 1200/700/700 | 1400/700/700 |
| Distance from column front to spindle center | mm | 451 | 592 | 663 | 663 | 766 | 766 |
| Distance from table top surface to spindle nose | mm | 100-600 | 120-680 | 150-770 | 150-770 | 150-850 | 150-850 |
| Spindle hole taper | | BT40 | BT40 | BT40 | BT40 | BT50 | BT50 |
| Spindle power | kW | 7.5/11 | 7.5/11 | 11/15 | 11/15 | 11/15 | 11/15 |
| Max. spindle speed | rpm | 12000 | 12000 | 12000 | 12000 | 10000 | 10000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 48/48/32 | 48/48/32 | 36/36/24 | 36/36/24 | 24/24/20 | 24/24/20 |
| Tool magazine capacity | T | 20 | 24 | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 | 3.5 | 3.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 | 0.01 | 0.01 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 |
| Machine dimension | mm | 2110*2320*2750 | 2250*2700*2850 | 3540*2620*2930 | 3740*2620*2930 | 4350*2955*3320 | 4850*2955*3320 |
| Machine weight | kg | 4100 | 6500 | 6800 | 7000 | 9700 | 10000 |

Gearhead spindle for heavy cutting application

SVG Series – Excellent Models

| | Unit | SVG1270 | SVG1470 | SVG1580 | SVG1780 |
|---|--------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 700*1400 | 700*1600 | 800*1700 | 800*1900 |
| T-slot size | mm | 5-18*125 | 5-18*125 | 5-22*160 | 5-22*160 |
| Max. load bearing of worktable | kg | 1000 | 1100 | 1200 | 1300 |
| 3 axis travel X/Y/Z | mm | 1200/700/700 | 1400/700/700 | 1500/800/800 | 1700/800/800 |
| Distance from column front to spindle center | mm | 766 | 766 | 887 | 887 |
| Distance from table top surface to spindle nose | mm | 140-840 | 140-840 | 180-980 | 180-980 |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 |
| Spindle power | kW | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 |
| Max. spindle speed | rpm | 6000 | 6000 | 6000 | 6000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 24/24/20 | 24/24/20 | 24/24/24 | 24/24/24 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 |
| Tool change time | S | 3.5 | 3.5 | 3.5 | 3.5 |
| Positioning accuracy | mm | 0.01 | 0.01 | 0.01 | 0.01 |
| Re-positioning accuracy | mm | 0.005 | 0.005 | 0.005 | 0.005 |
| Machine dimension | mm | 4350*2955*3320 | 4850*2955*3320 | 5300*3250*3560 | 5500*3250*3560 |
| Machine weight | kg | 9700 | 10000 | 16000 | 16500 |

Wheel hub machining

Industry featured machine

| | Unit | SHB26 | SHD26 | SHE26 | SHD22D |
|---|--------|----------------|----------------|----------------|----------------|
| Standard CNC system | | FANUC Type 5 | FANUC Type 3 | FANUC Type 3 | HNC808D |
| Worktable size | mm | 650*900 | 650*900 | 650*900 | 600*1500 |
| T-slot size | mm | 5-18*100 | 5-18*100 | 5-18*100 | 5-18*100 |
| Max. load bearing of worktable | kg | 1000 | 1000 | 1000 | 1000 |
| 3 axis travel X/Y/Z | mm | 800/720/650 | 800/720/650 | 800/720/650 | 660/650/600 |
| Distance from column front to spindle center | mm | 762 | 762 | 762 | 727 |
| Distance from table top surface to spindle nose | mm | 250-900 | 250-900 | 240-890 | 250-850 |
| Spindle hole taper | | BT40 | BT40 | BBT40 | BT40 |
| Spindle power | kW | 11/15 | 9/11 | 16/18.5 | 15/22.5 |
| Max. spindle speed | rpm | 8000 | 15000 | 16000 | 12000 |
| Max. feed speed | mm/min | 18000 | 18000 | 18000 | 18000 |
| Rapid feed speed | m/min | 36/36/24 | 36/36/24 | 36/36/24 | 36/36/24 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.01 | 0.01 | 0.01 | 0.01 |
| Re-positioning accuracy | mm | 0.005 | 0.005 | 0.005 | 0.005 |
| Machine dimension | mm | 3830*2880*3100 | 3830*2880*3100 | 3830*2880*3100 | 3140*3588*3085 |
| Machine weight | kg | 7500 | 7500 | 7500 | 8000 |

Pan-aluminum processing

Industry featured machine

| | Unit | VMC1370 | V13 | V13D | SVB1570 | SVD1570 |
|---|--------|----------------|----------------|----------------|----------------|----------------|
| Worktable size | mm | 680*1500 | 680*1500 | 680*1500 | 700*1600 | 700*1600 |
| T-slot size | mm | 5-18*125 | 5-18*125 | 5-18*125 | 5-18*125 | 5-18*125 |
| Max. load bearing of worktable | kg | 800 | 800 | 800 | 1000 | 1000 |
| 3 axis travel X/Y/Z | mm | 1300/700/650 | 1300/700/650 | 1300/700/650 | 1500/700/700 | 1500/700/700 |
| Distance from column front to spindle center | mm | 762 | 762 | 762 | 766 | 766 |
| Distance from table top surface to spindle nose | mm | 200-850 | 200-850 | 190-840 | 140-840 | 140-840 |
| Spindle hole taper | | BT40 | BT40 | BBT40 | BT40 | BT40 |
| Spindle power | kW | 11/15 | 11/15 | 16/18.5 | 11/15 | 11/15 |
| Max. spindle speed | rpm | 10000 | 12000 | 16000 | 10000 | 12000 |
| Max. feed speed | mm/min | 12000 | 12000 | 12000 | 12000 | 12000 |
| Rapid feed speed | m/min | 30/36/24 | 30/36/24 | 30/36/24 | 20/20/20 | 20/20/20 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 | 24 |
| Tool change time | S | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.01 | 0.01 |
| Re-positioning accuracy | mm | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 |
| Machine dimension | mm | 3550*2800*2700 | 3550*2800*2700 | 3550*2800*2700 | 3950*3300*3320 | 3950*3300*3320 |
| Machine weight | kg | 8000 | 8000 | 8000 | 9800 | 9800 |

Double Column Machining Center

Whole range of modular design, apt to diversified processing solutions.

Wide range products of high flow rate, complete spectrum, and flexible spindle configuration

More than 100 featured models and mainly divided as four series: Classic T-type ram series, upgraded T-type ram series, classic square ram series, and upgraded square ram series.

Rich options available for diversified customer solutions. Major application industry includes automobile, mold, rail transit energy, power, shipbuilding, aerospace and other industries



Classic T-type ram series

| | | SP1016 | SP1020 | SP1325 | SP1330 | SP1525 | SP1530 | SP1540 | SP1820 | | SP1830 | SP1840 | SP1850 | SP2230 | SP2240 | SP2250 | SP2260 | SP2530 | SP2540 | SP2550 | SP2560 |
|---|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Working range | | | | | | | | | | | | | | | | | | | | | |
| X axis travel | mm | 1650 | 2050 | 2600 | 3100 | 2600 | 3100 | 4100 | 2200 | | 3200 | 4200 | 5200 | 3200 | 4200 | 5200 | 6200 | 3200 | 4200 | 5200 | 6200 |
| Y axis travel | mm | 1100 | 1100 | 1400 | 1400 | 1650 | 1650 | 1650 | 1850 | | 1850 | 1850 | 1850 | 2250 | 2250 | 2250 | 2250 | 2900 | 2900 | 2900 | 2900 |
| Z axis travel | mm | 600 | 600 | 800 | 800 | 800 | 800 | 800 | 1000 | | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Distance from table surface to spindle nose | mm | 160-760 | 160-760 | 160-960 | 160-960 | 160-960 | 160-960 | 160-960 | 260-1260 | | 260-1260 | 260-1260 | 260-1260 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 |
| Distance between two columns | mm | 1250 | 1250 | 1400 | 1400 | 1650 | 1650 | 1650 | 2000 | | 2000 | 2000 | 2000 | 2400 | 2400 | 2400 | 2400 | 3000 | 3000 | 3000 | 3000 |
| Worktable | | | | | | | | | | | | | | | | | | | | | |
| Worktable size | mm | 1600*1000 | 2000*1000 | 2500*1300 | 3000*1300 | 2500*1500 | 3000*1500 | 4000*1500 | 2000*1800 | | 3000*1800 | 4000*1800 | 5000*1800 | 3000*2000 | 4000*2000 | 5000*2000 | 6000*2000 | 3000*2500 | 4000*2500 | 5000*2500 | 6000*2500 |
| Max.load bearing of worktable | kg | 3500 | 4000 | 6000 | 7000 | 6000 | 7000 | 8000 | 10000 | | 12000 | 14000 | 16000 | 12000 | 15000 | 18000 | 22000 | 15000 | 18000 | 22000 | 25000 |
| T slot size | mm | 7-22*125 | 7-22*125 | 7-22*160 | 7-22*160 | 9-22*160 | 9-22*160 | 9-22*160 | 11-22*160 | | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-28*200 | 11-28*200 | 11-28*200 | 11-28*200 |
| Spindle | | | | | | | | | | | | | | | | | | | | | |
| Spindle type | | Belt | Belt | Belt | Belt | Belt | Belt | Belt | Belt | | Belt | Belt | Belt | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head |
| Main motor power | kW | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | | 15/18.5 | 15/18.5 | 22/26 | 15/18.5 | 15/18.5 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 |
| Spindle speed | rpm | 8000 | 8000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Spindle torque | N·m | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | | 143 | 143 | 140 | 572 | 572 | 560 | 560 | 560 | 560 | 560 | 560 |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 |
| Feed | | | | | | | | | | | | | | | | | | | | | |
| Rapid feed speed | m/min | 20/20/10 | 20/20/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 |
| X axis ballscrew | mm | Ø63*P20 | Ø63*P20 | Ø63*P16 | Ø63*P16 | Ø63*P16 | Ø63*P16 | Ø80*P20 | Ø80*P20 | | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 |
| Y axis ballscrew | mm | Ø50*P12 | Ø50*P12 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø63*P20 | | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 |
| Z axis ballscrew | mm | Ø50*P20 | Ø50*P20 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 |
| Feed motor power | kW | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | | 3/3/3 | 3/3/3 | 6/7/7 | 3/3/3 | 3/3/3 | 6/7/7 | 6/7/7 | 6/7/7 | 6/7/7 | 6/7/7 | 6/7/7 |
| Accuracy | | | | | | | | | | | | | | | | | | | | | |
| Positioning accuracy | mm | 0.025/0.015/0.016 | 0.025/0.015/0.016 | 0.025/0.015/0.016 | 0.028/0.015/0.016 | 0.025/0.016/0.016 | 0.028/0.016/0.016 | 0.03/0.016/0.016 | 0.025/0.018/0.02 | | 0.028/0.018/0.020 | 0.03/0.018/0.02 | 0.034/0.018/0.02 | 0.028/0.02/0.02 | 0.03/0.02/0.02 | 0.034/0.02/0.02 | 0.036/0.02/0.02 | 0.028/0.022/0.02 | 0.03/0.022/0.02 | 0.034/0.022/0.02 | 0.036/0.022/0.02 |
| Re-positioning accuracy | mm | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 |
| Machine | | | | | | | | | | | | | | | | | | | | | |
| Machine dimension | mm | 6000*4500*4100 | 6800*4500*4100 | 7800*5000*5000 | 8800*5000*5000 | 7900*5000*5100 | 8800*5000*5100 | 10800*5000*5100 | 7000*5800*5500 | | 9000*5800*5500 | 10400*5800*5500 | 12400*5800*5500 | 9100*6200*5500 | 10400*6200*5500 | 12400*6200*5500 | 15000*6200*5500 | 9000*6800*5700 | 10400*6800*5700 | 12400*6800*5700 | 15000*6800*5700 |
| Machine weight | T | 18 | 19 | 22.5 | 23 | 24 | 26 | 28 | 28 | | 32 | 35.5 | 39 | 33.5 | 37 | 41 | 44.5 | 39 | 42.5 | 46 | 50 |

Classic square ram series

| | | SP1820F | SP1830F | SP1840F | SP1850F | SP2230F | SP2240F | SP2250F | SP2260F | SP2530F | SP2540F | SP2550F | | SP2560F | SP3380F | SP33100F | SP33120F | SP4250F | SP4260F | SP4280F | SP42100F | SP42120F | SP4860F | SP4880F | SP48100F | SP48120F | |
|---|-------|--------------------|--------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--|---------------------|---------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------|
| Working range | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X axis travel | mm | 2200 | 3200 | 4200 | 5200 | 3200 | 4200 | 5200 | 6200 | 3200 | 4200 | 5200 | | 6200 | 8500 | 10500 | 12500 | 5500 | 6500 | 8500 | 10500 | 12500 | 6500 | 8500 | 10500 | 12500 | |
| Y axis travel | mm | 1850 | 1850 | 1850 | 1850 | 2250 | 2250 | 2250 | 2250 | 2900 | 2900 | 2900 | | 2900 | 4500 | 4500 | 4500 | 5000 | 5000 | 5000 | 5000 | 5000 | 5500 | 5500 | 5500 | 5500 | |
| Z axis travel | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | 1000 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1500 | 1500 | 1500 | 1500 | |
| Distance from table surface to spindle nose | mm | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | | 260-1260 | 250-1500 | 250-1500 | 250-1500 | 350-1600 | 250-1500 | 250-1500 | 250-1500 | 250-1500 | 250-1750 | 250-1750 | 250-1750 | 250-1750 | |
| Distance between two columns | mm | 2000 | 2000 | 2000 | 2000 | 2400 | 2400 | 2400 | 2400 | 3000 | 3000 | 3000 | | 3000 | 3300 | 3300 | 3300 | 4200 | 4200 | 4200 | 4200 | 4200 | 4800 | 4800 | 4800 | 4800 | |
| Worktable | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Worktable size | mm | 2000*1800 | 3000*1800 | 4000*1800 | 5000*1800 | 3000*2000 | 4000*2000 | 5000*2000 | 6000*2000 | 3000*2500 | 4000*2500 | 5000*2500 | | 6000*2500 | 8000*2500 | 10000*2500 | 12000*2500 | 5000*3000 | 6000*3000 | 8000*3000 | 10000*3000 | 12000*3000 | 6000*3500 | 8000*3500 | 10000*3500 | 12000*3500 | |
| Max.load bearing of worktable | kg | 10000 | 12000 | 15000 | 18000 | 12000 | 15000 | 18000 | 22000 | 15000 | 18000 | 22000 | | 25000 | 32000 | 40000 | 48000 | 25000 | 40000 | 50000 | 60000 | 70000 | 50000 | 60000 | 70000 | 80000 | |
| T slot size | mm | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-22*160 | 11-28*200 | 11-28*200 | 11-28*200 | | 11-28*200 | 28*250 | 28*250 | 28*250 | 13-28*200+ 2-28*160 | 28*250 | 28*250 | 28*250 | 28*250 | 28*250 | 28*250 | 28*250 | 28*250 | |
| Spindle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Square ram size | mm | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | | 400x400 | 460x460 | 460x460 | 460x460 | 460x460 | 460x460 | 460x460 | 460x460 | 460x460 | 460x460 | 500x500 | 500x500 | 500x500 | 500x500 |
| Main motor 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 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | |
| Spindle speed | rpm | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | |
| Spindle torque | N·m | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | |
| Feed | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rapid feed speed | m/min | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 10/10/10 | 8/8/10 | 10/8/10 | 10/8/10 | 10/8/10 | 8/8/10 | 10/8/10 | 10/8/10 | 10/8/10 |
| Accuracy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Positioning accuracy | mm | 0.025/0.018/0.02 | 0.028/0.018/0.020 | 0.03/0.018/0.02 | 0.034/0.018/0.02 | 0.028/0.02/0.02 | 0.03/0.02/0.02 | 0.034/0.02/0.02 | 0.036/0.02/0.02 | 0.028/0.022/0.02 | 0.03/0.022/0.02 | 0.034/0.022/0.02 | | 0.036/0.022/0.02 | 0.045/0.026/0.02 | 0.05/0.026/0.02 | 0.055/0.026/0.02 | 0.034/0.032/0.02 | 0.036/0.032/0.02 | 0.045/0.032/0.02 | 0.05/0.032/0.02 | 0.055/0.032/0.02 | 0.036/0.034/0.02 | 0.045/0.034/0.02 | 0.05/0.034/0.02 | 0.055/0.034/0.02 | |
| Re-positioning accuracy | mm | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | | 0.014/0.012/0.008 | 0.02/0.018/0.012 | 0.02/0.018/0.012 | 0.02/0.018/0.012 | 0.014/0.018/0.008 | 0.014/0.018/0.008 | 0.02/0.018/0.008 | 0.02/0.018/0.008 | 0.02/0.018/0.008 | 0.02/0.02/0.008 | 0.02/0.02/0.008 | 0.02/0.02/0.008 | 0.02/0.02/0.008 | |
| Machine | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Machine dimension | mm | 6800*6000* 5700 | 8800*6000* 5700 | 10800*6000* 5700 | 13700*6000* 5700 | 8800*6400* 5700 | 10800*6400* 5700 | 13700*6400* 5700 | 16000*6400* 5700 | 8800*7000* 5900 | 10800*7000* 5900 | 13700*7000* 5900 | | 16000*7000* 5900 | 19800*7200* 6000 | 25000*7200* 6000 | 29000*7200* 6000 | 14000*8400* 5900 | 17000*8400* 5900 | 21000*8400* 5900 | 23800*8400* 5900 | 27800*8400* 5900 | 17000*8800* 5900 | 22000*9500* 5900 | 25000*9500* 5900 | 27800*9500* 5900 | |
| Machine weight | T | 31 | 35 | 38 | 42 | 37 | 40.5 | 45 | 48 | 42 | 46 | 50 | | 53 | 78 | 90 | 102 | 70 | 80 | 92 | 105 | 118 | 90 | 110 | 130 | 150 | |

Upgraded T-type ram series

| | | SP1525 II | SP1530 II | SP1540 II | SP1830 II | SP1840 II | SP1850 II | | SP2030 II | SP2040 II | SP2050 II | SP2060 II | SP2530 II | SP2540 II | SP2550 II | SP2560 II |
|---|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Working range | | | | | | | | | | | | | | | | |
| X axis travel | mm | 2600 | 3100 | 4100 | 3200 | 4200 | 5200 | | 3200 | 4200 | 5200 | 6200 | 3200 | 4200 | 5200 | 6200 |
| Y axis travel | mm | 1900 | 1900 | 1900 | 2400 | 2400 | 2400 | | 2800 | 2800 | 2800 | 2800 | 3600 | 3600 | 3600 | 3600 |
| Z axis travel | mm | 800 | 800 | 800 | 1000 | 1000 | 1000 | | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Distance from table surface to spindle nose | mm | 120-920 | 120-920 | 120-920 | 220-1220 | 220-1220 | 220-1220 | | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 | 220-1220 |
| Distance between two columns | mm | 1900 | 1900 | 1900 | 2400 | 2400 | 2400 | | 2800 | 2800 | 2800 | 2800 | 3600 | 3600 | 3600 | 3600 |
| Worktable | | | | | | | | | | | | | | | | |
| Worktable size | mm | 2500*1500 | 3000*1500 | 4000*1500 | 3000*1800 | 4000*1800 | 5000*1800 | | 3000*2000 | 4000*2000 | 5000*2000 | 6000*2000 | 3000*2500 | 4000*2500 | 5000*2500 | 6000*2500 |
| Max.load bearing of worktable | kg | 9000 | 10000 | 12000 | 12000 | 14000 | 16000 | | 12000 | 15000 | 18000 | 22000 | 15000 | 18000 | 22000 | 25000 |
| T slot size | mm | 7-22*200 | 7-22*200 | 7-22*200 | 9-22*200 | 9-22*200 | 9-22*200 | | 9-22*200 | 9-22*200 | 9-22*200 | 9-22*200 | 11-28*200 | 11-28*200 | 11-28*200 | 11-28*200 |
| Spindle | | | | | | | | | | | | | | | | |
| Spindle type | | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head | Gear Head |
| Main motor power | kW | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 22/26 | | 15/18.5 | 15/18.5 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 |
| Spindle speed | rpm | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Spindle torque | N·m | 572 | 572 | 572 | 572 | 572 | 560 | | 572 | 572 | 560 | 560 | 560 | 560 | 560 | 560 |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 |
| Feed | | | | | | | | | | | | | | | | |
| Rapid feed speed | m/min | 15/15/10 | 15/15/10 | 15/15/10 | 15/15/10 | 15/15/10 | 10/15/10 | | 15/15/10 | 15/15/10 | 10/15/10 | 10/15/10 | 12/15/10 | 12/15/10 | 10/15/10 | 10/15/10 |
| X axis ballscrew | mm | Ø63*P16 | Ø63*P16 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 | Ø80*P20 |
| Y axis ballscrew | mm | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 | Ø63*P20 |
| Z axis ballscrew | mm | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 | Ø50*P16 |
| Feed motor power | kW | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | 3/3/3 | 6/7/7 | | 3/3/3 | 3/3/3 | 6/7/7 | 6/7/7 | 6/7/7 | 6/7/7 | 6/7/7 | 6/7/7 |
| Accuracy | | | | | | | | | | | | | | | | |
| Positioning accuracy | mm | 0.025/0.018/0.016 | 0.028/0.018/0.016 | 0.03/0.018/0.016 | 0.025/0.02/0.016 | 0.03/0.02/0.016 | 0.034/0.02/0.016 | | 0.025/0.022/0.016 | 0.03/0.022/0.016 | 0.034/0.022/0.016 | 0.036/0.022/0.016 | 0.025/0.03/0.016 | 0.03/0.03/0.016 | 0.034/0.03/0.016 | 0.036/0.03/0.016 |
| Re-positioning accuracy | mm | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.018/0.008 | 0.014/0.018/0.008 | 0.014/0.018/0.008 | 0.014/0.018/0.008 |
| Machine | | | | | | | | | | | | | | | | |
| Machine dimension | mm | 7900*6000*5000 | 8800*6000*5000 | 10800*6000*5000 | 8800*6200*5500 | 10800*6200*5500 | 12800*6200*5500 | | 8800*6600*5500 | 10800*6600*5500 | 12800*6600*5500 | 16000*6600*5500 | 8800*7400*5700 | 10800*7400*5700 | 12800*7400*5700 | 16000*7400*5700 |
| Machine weight | T | 26 | 28 | 30 | 34 | 37.5 | 41 | | 35.5 | 39 | 43 | 46.5 | 41 | 44.5 | 48 | 52 |

Upgraded square ram series

| | | SP1830FII | SP1840FII | SP1850FII | SP2030FII | SP2040FII | | SP2050FII | SP2060FII | SP2530FII | SP2540FII | SP2550FII | SP2560FII |
|---|-------|-------------------|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Working range | | | | | | | | | | | | | |
| X axis travel | mm | 3200 | 4200 | 5200 | 3200 | 4200 | | 5200 | 6200 | 3200 | 4200 | 5200 | 6200 |
| Y axis travel | mm | 2400 | 2400 | 2400 | 2800 | 2800 | | 2800 | 2800 | 3600 | 3600 | 3600 | 3600 |
| Z axis travel | mm | 1000 | 1000 | 1000 | 1000 | 1000 | | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Distance from table surface to spindle nose | mm | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 | 260-1260 |
| Distance between two columns | mm | 2400 | 2400 | 2400 | 2800 | 2800 | | 2800 | 2800 | 3600 | 3600 | 3600 | 3600 |
| Worktable | | | | | | | | | | | | | |
| Worktable size | mm | 3000*1800 | 4000*1800 | 5000*1800 | 3000*2000 | 4000*2000 | | 5000*2000 | 6000*2000 | 3000*2500 | 4000*2500 | 5000*2500 | 6000*2500 |
| Max.load bearing of worktable | kg | 12000 | 14000 | 16000 | 12000 | 15000 | | 18000 | 22000 | 15000 | 18000 | 22000 | 25000 |
| T slot size | mm | 9-22*200 | 9-22*200 | 9-22*200 | 9-22*200 | 9-22*200 | | 9-22*200 | 9-22*200 | 11-28*200 | 11-28*200 | 11-28*200 | 11-28*200 |
| Spindle | | | | | | | | | | | | | |
| Square ram size | | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 | 400x400 |
| Main motor power | KW | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 | 22/26 |
| Spindle speed | rpm | 6000 | 6000 | 6000 | 6000 | 6000 | | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Spindle torque | N·m | 560 | 560 | 560 | 560 | 560 | | 560 | 560 | 560 | 560 | 560 | 560 |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 | BT50 | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 |
| Feed | | | | | | | | | | | | | |
| Rapid feed speed | m/min | 15/15/10 | 15/15/10 | 10/15/10 | 15/15/10 | 15/15/10 | | 10/15/10 | 10/15/10 | 12/15/10 | 12/15/10 | 10/15/10 | 10/15/10 |
| Accuracy | | | | | | | | | | | | | |
| Positioning accuracy | mm | 0.025/0.02/0.016 | 0.03/0.02/0.016 | 0.034/0.02/0.016 | 0.025/0.022/0.016 | 0.03/0.022/0.016 | | 0.034/0.022/0.016 | 0.036/0.022/0.016 | 0.025/0.03/0.016 | 0.03/0.03/0.016 | 0.034/0.03/0.016 | 0.036/0.03/0.016 |
| Re-positioning accuracy | mm | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.012/0.008 | | 0.014/0.012/0.008 | 0.014/0.012/0.008 | 0.014/0.018/0.008 | 0.014/0.018/0.008 | 0.014/0.018/0.008 | 0.014/0.018/0.008 |
| Machine | | | | | | | | | | | | | |
| Machine dimension | mm | 8800*6200*5500 | 10800*6200*5500 | 12800*6200*5500 | 8800*6600*5500 | 10800*6600*5500 | | 12800*6600*5500 | 16000*6600*5500 | 8800*7400*5700 | 10800*7400*5700 | 12800*7400*5700 | 16000*7400*5700 |
| Machine weight | T | 37.5 | 41 | 44.5 | 39 | 42.5 | | 45.5 | 50 | 44.5 | 48 | 51.5 | 55.5 |

CNC Horizontal Lathe

Extensive product range

Product portfolio includes inclined bed horizontal CNC lathe, turning machining center, multi-functional turning machining center, turning and milling combined machining center, industrial horizontal CNC lathe

Comprehensive product configuration

Tool holder: Gang tool, Power milling head, Hydraulic turret, Servo turret, over turret, Y-axis power turret
Other options: High-voltage chip breaking system, automatic door, tool setter, work piece measurement system, low-frequency oscillation chip breakers, oil mist collectors, industrial vacuum cleaners, optical rulers and other customized configurations.

Superior service capabilities

Professional and one stop solution for processing solutions, automation line project plans, sample processing, parts and product processing.

Focus on quality control

High standard : A compression of 50-70% on ISO standard accuracy as our manufacture standard.

Top brands for standard and key components to ensure the best machine performance.

Strict production process: Standard Operating Procedure and Quality Control management meticulously executed for the whole product flow.



High capability models

Ladder design rail inclined machine bed with high expandability

| | Unit | SHL50B | SHL50BC | SHL50BH | SHL60B | SHL60BC | SHL60BY |
|------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| Max. swing over bed | mm | Φ520 | Φ520 | Φ520 | Φ610 | Φ610 | Φ610 |
| Max. turning length | mm | 500 | 500 | 500 | 565 | 550 | 550 |
| Max. turning diameter | mm | Φ360 | Φ320 | Φ360 | Φ450 | Φ400 | Φ400 |
| Max. swing over carriage | mm | Φ360 | Φ320 | Φ360 | Φ400 | Φ400 | Φ400 |
| Spindle nose | type | A2-6 | A2-6 | A2-6 | A2-8 | A2-8 | A2-8 |
| Max. passing bar diameter | mm | Φ50 | Φ50 | Φ45 | Φ70 | Φ70 | Φ70 |
| Spindle speed | rpm | 50 ~ 4500 | 50 ~ 4500 | 50 ~ 3000 | 50 ~ 3000 | 50 ~ 3500 | 50 ~ 3500 |
| Motor power | kW | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 |
| Standard chuck diameter | inch | 8" | 8" | 8" | 10" | 10" | 10" |
| X-axis rapid feed | m/min | 30 | 30 | 30 | 30 | 30 | 30 |
| Z-axis rapid feed | m/min | 30 | 30 | 30 | 30 | 30 | 30 |
| X-axis travel | mm | 200 | 200 | 210 | 240 | 240 | 240 |
| Z-axis travel | mm | 550 | 550 | 550 | 610 | 610 | 610 |
| Tailstock spindle hole taper | T | 5# | 5# | 4# | 5# | 5# | 5# |
| Standard turret type | T | Servo 12st | Driven 12st | Servo 12st | Servo 12st | Driven 12st | Driven 12st |
| Change tool nearby | | OK | OK | OK | OK | OK | OK |
| Machine weight | kg | 3800 | 3800 | 3850 | 4700 | 4700 | 5000 |
| Machine dimension | mm | 2500*1725*1750 | 2500*1725*1750 | 2500*1725*1750 | 2950*1700*1865 | 2950*1700*1865 | 3000*1850*2050 |

High application models

Classic inclined machine bed with high adaptability

| | Unit | SHL40P | SHL40PC | SHL50P | SHL50PC | SHL60P | SHL60PC | SHL60P-1000 | SHL60PC-1000 | SHL63P | SHL63P-1500 |
|------------------------------|-------|----------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Max. swing over bed | mm | Φ400 | Φ400 | Φ500 | Φ500 | Φ600 | Φ600 | Φ600 | Φ600 | Φ630 | Φ630 |
| Max. turning length | mm | 300 | 300 | 500 | 500 | 500 | 500 | 1000 | 1000 | 1000 | 1500 |
| Max. turning diameter | mm | Φ320 | Φ320 | Φ360 | Φ300 | Φ400 | Φ280 | Φ400 | Φ280 | Φ500 | Φ500 |
| Max. swing over carriage | mm | Φ160 | Φ160 | Φ320 | Φ300 | Φ360 | Φ280 | Φ360 | Φ280 | Φ500 | Φ500 |
| Spindle nose | type | A2-5 | A2-5 | A2-6 | A2-6 | A2-6 | A2-6 | A2-6 | A2-6 | A2-8 | A2-8 |
| Max. passing bar diameter | mm | Φ42 | Φ42 | Φ50 | Φ50 | Φ50 | Φ50 | Φ50 | Φ50 | Φ65 | Φ65 |
| Spindle speed | rpm | 50 ~ 5000 | 50 ~ 5000 | 50 ~ 4500 | 50 ~ 4500 | 50 ~ 4500 | 50 ~ 4500 | 50 ~ 4500 | 50 ~ 4500 | 50 ~ 3500 | 50 ~ 3500 |
| Motor power | kW | 5.5/7.5 | 5.5/7.5 | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 | 15/18.5 | 15/18.5 |
| Standard chuck diameter | inch | φ42 | φ42 | 8" | 8" | 8" | 8" | 8" | 8" | 10" | 10" |
| X-axis rapid feed | m/min | 20 | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Z-axis rapid feed | m/min | 24 | 24 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| X-axis travel | mm | 460 | 460 | 200 | 200 | 210 | 210 | 210 | 210 | 280 | 280 |
| Z-axis travel | mm | 365 | 365 | 560 | 560 | 560 | 560 | 1060 | 1060 | 1070 | 1570 |
| Tailstock spindle hole taper | MT | / | / | 5# | 5# | 5# | 5# | 5# | 5# | 5# | 5# |
| Standard turret type | T | Gang Tool | Gang Tool/ Driven tool | Hydraulic 8st | Driven 12st | Hydraulic 8st | Driven 12st | Hydraulic 8st | Driven 12st | Hydraulic 12st | Hydraulic 12st |
| Change tool nearby | | / | / | OK | OK | OK | OK | OK | OK | OK | OK |
| Machine weight | kg | 2500 | 2500 | 3650 | 3800 | 4500 | 4500 | 5000 | 5000 | 7500 | 9500 |
| Machine dimension | mm | 2200*1600*1700 | 2200*1600*1700 | 2275*1625*1825 | 2275*1625*1825 | 2850*1880*1865 | 2850*1880*1865 | 3650*1880*1865 | 3650*1880*1865 | 4400*2200*2150 | 4500*2250*2250 |

High cost performance models

Classic inclined machine bed with high adaptability

| | Unit | SHL40F | SHL40FC | SHL50F | SHL50FC |
|------------------------------|-------|----------------|-----------------------|----------------|----------------|
| Max. swing over bed | mm | Φ400 | Φ400 | Φ500 | Φ500 |
| Max. turning length | mm | 300 | 300 | 500 | 500 |
| Max. turning diameter | mm | Φ320 | Φ320 | Φ360 | Φ300 |
| Max. swing over carriage | mm | Φ160 | Φ160 | Φ320 | Φ300 |
| Spindle nose | type | A2-5 | A2-5 | A2-6 | A2-6 |
| Max. passing bar diameter | mm | Φ42 | Φ42 | Φ50 | Φ50 |
| Spindle speed | rpm | 50 ~ 5000 | 50 ~ 5000 | 50 ~ 4500 | 50 ~ 4500 |
| Motor power | kW | 5.5/7.5 | 5.5/7.5 | 11/15 | 11/15 |
| Standard chuck diameter | inch | φ42 | φ42 | 8" | 8" |
| X-axis rapid feed | m/min | 20 | 20 | 30 | 30 |
| Z-axis rapid feed | m/min | 24 | 24 | 30 | 30 |
| X-axis travel | mm | 460 | 460 | 200 | 200 |
| Z-axis travel | mm | 365 | 365 | 560 | 560 |
| Tailstock spindle hole taper | MT | / | / | 5# | 5# |
| Standard turret type | T | Gang Tool | Gang Tool/Driven tool | Hydraulic 8st | Driven 12st |
| Change tool nearby | | / | / | OK | OK |
| Machine weight | kg | 2500 | 2500 | 3650 | 3800 |
| Machine dimension | mm | 2200*1600*1700 | 2200*1600*1700 | 2275*1625*1825 | 2275*1625*1825 |

CNC Vertical Lathe

- Full axes high-rigidity box type guides, Max. rapid speed 20m/min
- Heavy-duty servo turret, fast tool change and accurate positioning
- Heavy load spindle designed for heavy cutting



| | Unit | VT500 | VT830 |
|--------------------------------|-------|--------------------|------------------|
| Max. swing over bed | mm | Φ610 | Φ920 |
| Max. turning length | mm | 460 | 780 |
| Max. turning diameter | mm | Φ500 | Φ830 |
| Max. swing over saddle | mm | Φ510 | Φ740 |
| Spindle nose | type | A2-8 | A2-11 |
| Max. load bearing of workpiece | kg | 550 | 850 |
| Spindle speed | rpm | 3000 | 2000 |
| Motor power | kW | 18.5/22(Wide area) | 22/30(Wide area) |
| Standard chuck diameter | inch | 12" | 15" |
| X-axis rapid feed | m/min | 16 | 16 |
| Z-axis rapid feed | m/min | 16 | 16 |
| X-axis travel | mm | 270 | 490 |
| Z-axis travel | mm | 485 | 785 |
| Standard turret type | T | 12 | 8 |
| Tool holder dimension | mm | 25*25 | 32*32 |
| Tool rotation time | S | 0.65 | 1.2 |
| Positioning accuracy | mm | 0.01/0.02 | 0.01/0.02 |
| Re-positioning accuracy | mm | 0.004/0.006 | 0.004/0.006 |
| Machine weight | kg | 6000 | 9500 |
| Machine dimensions | mm | 1500*2265*3210 | 2020*3200*3640 |

Horizontal Machining Center

- Independent R&D, two series of positive T and inverted T structure
- Equipped with single/double work table and multiple specifications
- Strong scalability to meet the needs of different industries and fields for high processing performance
- Capable for processing needs which requires large-volume automated product lines



Inverted T type

Horizontal machining center

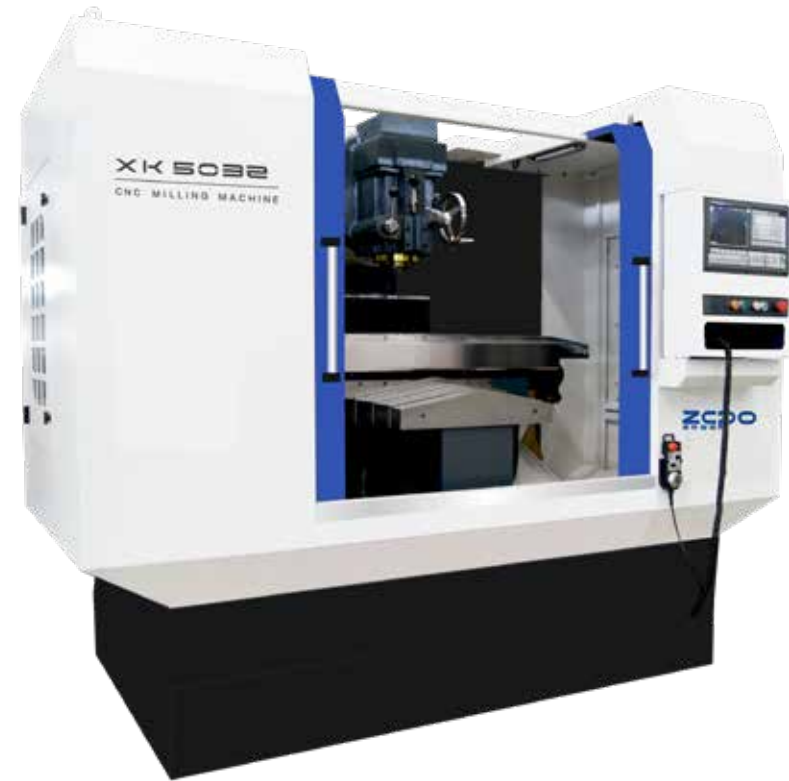
| | Unit | HMC500A | HMC630A | HMC800A | HMC1000A | HMC1250A | HMC500P | HMC630P |
|---|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Worktable size | mm | 500*600 | 630*700 | 800*800 | 1000*1000 | 1250*1250 | 500*630 | 630*700 |
| Max. load bearing of worktable | kg | 900 | 1200 | 2000 | 2500 | 5000 | 600 | 900 |
| Workpiece clamping type | | 5-18 x 100 | 24 x M16 | 5-22×160 | 7-22×125 | 7-22×125 | 24 x M16 | 24 x M16 |
| number of worktable | | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Changing time of worktables | S | / | / | / | / | / | 35 | 35 |
| Rotary diameter of workpiece | φ | 1380 | 1380 | 1700 | 1700 | 1700 | 950 | 950 |
| 3 axis travel X/Y/Z | mm | 1050/750/900 | 1050/750/900 | 1300/1000/1000 | 1600/1300/1000 | 1900/1300/1300 | 1050/750/900 | 1050/750/900 |
| Rapid feed speed (X/Y/Z) | m/min | 24/24/24 | 24/24/24 | 24/24/24 | 20/20/20 | 20/20/20 | 24/24/24 | 15/15/15 |
| Distance from spindle center to table surface | mm | 120-870 | 120-870 | 0-1000 | 0-1000 | 140-1440 | 0-750 | 100-1400 |
| Distance from spindle nose to table surface | mm | 130-1030 | 130-1030 | 200-1200 | 300-1300 | 450-1750 | 130-1030 | 400-1700 |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 |
| Spindle power | kW | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) |
| Max. spindle speed | rpm | 5300 | 5300 | 5300 | 5300 | 5300 | 6000 | 6000 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Positioning accuracy | mm | 0.01 | 0.01 | 0.012 | 0.012 | 0.012 | 0.01 | 0.01 |
| Re-positioning accuracy | mm | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.006 | 0.006 |
| B axis positioning accuracy | | 10" | 10" | 10" | 10" | 10" | 10" | 10" |
| B axis repositioning accuracy | | 5" | 5" | 2" | 2" | 2" | 5" | 5" |
| Machine dimension | mm | 4900*3650*2970 | 4900*3650*2970 | 5300*3970*3350 | 6000*4500*3400 | 7000*5800*4000 | 5800*3200*2700 | 5800*3200*2700 |
| Machine weight | T | 12 | 12 | 15 | 18 | 22 | 14 | 14 |

Positive T type

Horizontal machining center

| | Unit | HMC50 | HMC63 | HMC80 | HMC100 | HMC50P | HMC63P | HMC80P |
|---|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Worktable size | mm | 500*600 | 630*700 | 800*800 | 1000*1000 | 500*500 | 630*630 | 800*800 |
| Max. load bearing of worktable | kg | 900 | 1200 | 2000 | 2500 | 400 | 1200 | 2000 |
| Workpiece clamping type | | 5-18×100 | 24×M16 | 5-22×160 | 7-22×125 | 5-14×100 | 5-18×125 | 7-22×125 |
| number of worktable | | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Changing time of worktables | S | / | / | / | / | 14 | 16 | 18 |
| Rotary diameter of workpiece | φ | 1400 | 1400 | 1700 | 2000 | 750 | 1000 | 1200 |
| 3 axis travel X/Y/Z | mm | 750/750/750 | 1050/750/900 | 1300/1000/1000 | 1600/1000/1000 | 750/750/750 | 1050/750/900 | 1300/1000/1000 |
| Rapid feed speed (X/Y/Z) | m/min | 32/32/32 | 32/32/32 | 24/24/24 | 24/24/24 | 32/32/32 | 32/32/32 | 24/24/24 |
| Distance from spindle center to table surface | mm | 120-870 | 120-870 | 20-1020 | 60-1060 | 85-835 | 85-835 | 120-1120 |
| Distance from spindle nose to table surface | mm | 130-1030 | 130-1030 | 200-1200 | 300-1300 | 130-880 | 130-1030 | 130-1130 |
| Spindle hole taper | | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 | BT50 |
| Spindle power | kW | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) | 15/18.5(Wide area) |
| Max. spindle speed | rpm | 5300 | 5300 | 5300 | 5300 | 5300 | 5300 | 5300 |
| Tool magazine capacity | T | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Positioning accuracy | mm | 0.01 | 0.01 | 0.012 | 0.012 | 0.01 | 0.01 | 0.012 |
| Re-positioning accuracy | mm | 0.006 | 0.006 | 0.008 | 0.008 | 0.006 | 0.006 | 0.008 |
| B axis positioning accuracy | | 12" | 12" | 12" | 12" | 10" | 10" | 12" |
| B axis repositioning accuracy | | 5" | 5" | 2" | 2" | 2" | 2" | 2" |
| Machine dimension | mm | 4950*3800*2980 | 4950*3800*2980 | 5300*4200*3270 | 5700*4700*3670 | 5650*3760*3100 | 5850*3760*3100 | 8200*4750*3600 |
| Machine weight | T | 12 | 12 | 15 | 18 | 14 | 14 | 19.5 |

Knee-type Milling Machine



CNC Knee-type Milling Machine

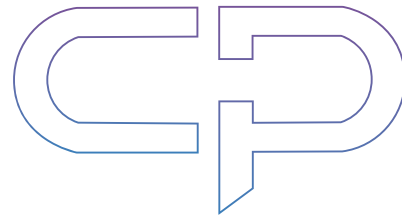
| | Unit | XK5042 | XK6042 | XK5032 | XK6132 | XK5030B |
|---|--------|----------------|----------------------------|----------------|----------------------------|----------------|
| Worktable size | mm | 420*1800 | 420*1800 | 320*1320 | 320*1320 | 300*1100 |
| T slot (N*W*D) | mm | 3-18*100 | 3-18*100 | 3-18*80 | 3-18*80 | 3-14*63 |
| Max. load bearing of worktable | kg | 750 | 750 | 500 | 500 | 280 |
| Travel of worktable | mm | 1100/400/375 | 1100/400/375 | 700/300/280 | 700/300/280 | 580/260/90 |
| Spindle hole taper | | 7:24 No.50 | 7:24 No.50 | 7:24 No.50 | 7:24 No.50 | 7:24 No.40 |
| Arbor diameter | mm | | Φ50 | | Φ22 Φ27 Φ32 | / |
| Max. spindle quill travel | mm | 85 | / | / | / | 90 |
| Distance from spindle end to worktable surface | mm | 100 ~ 475 | 125 ~ 500 (spindle center) | 100 ~ 380 | 110 ~ 390 (spindle center) | 70 ~ 430 |
| Distance from vertical guideway to spindle center | mm | 520 | / | 380 | / | 290 |
| Distance from vertical guideway to worktable center | mm | 350 ~ 750 | 350 ~ 750 | 285 ~ 585 | 285 ~ 585 | 160 ~ 420 |
| Distance from spindle center to arm | mm | / | 200 | / | 155 | / |
| Spindle speed steps | steps | 18 | 18 | 18 | 18 | inverter |
| Spindle speed range | r/min | 30 ~ 1500 | 30 ~ 1500 | 30 ~ 1500 | 30 ~ 1500 | 200 ~ 2500 |
| Main motor power | KW | 11 | 11 | 7.5 | 7.5 | 4 |
| Main motor rotating speed | r/min | 960 | 960 | 960 | 960 | 5000 |
| Feed speed range | mm/min | 5 ~ 2000 | 5 ~ 2000 | 5 ~ 2000 | 5 ~ 2000 | 5 ~ 2000 |
| | mm/min | 5 ~ 2000 | 5 ~ 2000 | 5 ~ 2000 | 5 ~ 2000 | 5 ~ 2000 |
| | mm/min | 5 ~ 1000 | 5 ~ 1000 | 5 ~ 1000 | 5 ~ 1000 | 5 ~ 800 |
| Rapid feed speed range:Longitudinal | mm/min | 4000 | 4000 | 4000 | 4000 | 3000 |
| Cross | mm/min | 3000 | 3000 | 3000 | 3000 | 3000 |
| Vertical | mm/min | 2000 | 2000 | 2000 | 2000 | 1500 |
| Positioning accuracy | mm | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| Re-positioning accuracy | mm | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 |
| Machine dimension | mm | 2500*2600*2300 | 2500*2600*2047 | 2245*1780*2050 | 2245*1780*1920 | 1500*1470*1800 |
| Machine weight | kg | 5100 | 5100 | 3300 | 3100 | 1800 |

Manual Knee-type Milling Machine

| Main specifications | Unit | X5032B | X5036 | X5042 | X6132B | X6036 | X6142 |
|--|--------|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Worktable Size | mm | 320*1320 | 360*1600 | 420*1800 | 320*1320 | 360*1600 | 420*1800 |
| T slots (N*W*D) | mm | 3-18*80 | 3-18*80 | 3-18*90 | 3-18*80 | 3-18*80 | 3-18*90 |
| Max. load bearing of worktable | kg | 500 | 500 | 800 | 500 | 500 | 800 |
| Longitudinal travel (Manual/Power) | mm | 800/780 | 1020/1000 | 1200/1180 | 800/780 | 1020/1000 | 1200/1180 |
| Cross travel (Manual/Power) | mm | 300/280 | 300/280 | 360/350 | 300/280 | 300/280 | 360/350 |
| Vertical travel (Manual/Power) | mm | 410/400 | 410/400 | 470/450 | 410/400 | 410/400 | 470/450 |
| Distance from spindle center to vertical guide way | mm | 380 | 380 | 450 | 155 | 155 | 200 |
| Distance from worktable center to vertical guide way | mm | 235 ~ 535 | 235 ~ 535 | 275 ~ 655 | 235 ~ 535 | 235 ~ 535 | 280 ~ 650 |
| Distance from spindle nose to worktable surface | mm | 60 ~ 460 | 60 ~ 460 | 40 ~ 510 | 40 ~ 440 | 50 ~ 460 | 40 ~ 500 |
| Spindle hole taper | | 7:24 No.50 | 7:24 No.50 | 7:24 No.50 | 7:24 No.50 | 7:24 No.50 | 7:24 No.50 |
| Spindle speed steps | steps | 18 | 18 | 18 | 18 | 18 | 18 |
| Spindle speed range | r/min | 30 ~ 1500 | 30 ~ 1500 | 30 ~ 1500 | 30 ~ 1500 | 30 ~ 1500 | 30 ~ 1500 |
| Feed speed steps | steps | 18 | 18 | 18 | 18 | 18 | 18 |
| Feed speed range | mm/min | 15 ~ 750 15 ~ 750 5.7 ~ 280 | 15 ~ 750 15 ~ 750 5.7 ~ 280 | 22 ~ 1100 22 ~ 1100 8.3 ~ 410 | 15 ~ 750 15 ~ 750 5.7 ~ 280 | 15 ~ 750 15 ~ 750 5.7 ~ 280 | 22 ~ 1100 22 ~ 1100 8.3 ~ 410 |
| Rapid feed speed range | mm/min | 2250/2250/844 | 2250/2250/844 | 2400/2400/900 | 2250/2250/844 | 2250/2250/844 | 2400/2400/900 |
| Main motor power | KW | 7.5 | 7.5 | 11 | 7.5 | 7.5 | 11 |
| Feed motor power | KW | 1.5 | 1.5 | 3 | 1.5 | 1.5 | 3 |
| Machine dimension | mm | 2307*1707*2096 | 2307*2067*2096 | 2522*2265*2432 | 2327*1792*1720 | 2327*2067*1720 | 2522*2262*2047 |
| Machine weight | kg | 3200 | 3370 | 4450 | 2850 | 2850 | 4200 |

Tapping Center

| Model | Unit | SVT600 | SVT600L | SVT700 | SVT700L | SVT800 | SVT1000 | SVT1300 | SVT600-40 | SVT700-40 | SVT800-40 | SVT1000-40 |
|---|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| X/Y/Z travel | mm | 600*400*330 | 600*450*330 | 700*400*330 | 700*450*330 | 800*500*330 | 1000*500*330 | 1300*650*450 | 600*450*300 | 700*450*300 | 800*500*500 | 1000*500*500 |
| Worktable size | mm | 700*420 | 700*420 | 800*420 | 800*420 | 1000*500 | 1100*500 | 1400*600 | 700*420 | 800*420 | 1000*500 | 1100*500 |
| Worktable loading capacity | Kg | 250 | 250 | 250 | 250 | 350 | 350 | 500 | 250 | 250 | 350 | 350 |
| Distance between spindle center to guideway surface | mm | 464 | 464 | 464 | 464 | 546 | 546 | 705 | 464 | 464 | 546 | 546 |
| Distance between worktable surface and spindle nose | mm | 150-480 | 150-480 | 150-480 | 150-480 | 160-490 | 150-480 | 150-600 | 150-450 | 150-450 | 140-640 | 140-650 |
| T-slot size | / | 3*14*125 | 3*14*125 | 3*14*125 | 3*14*125 | 5*18*100 | 5*18*100 | 5*18*100 | 3*14*125 | 3*14*125 | 5*18*100 | 5*18*100 |
| Spindle hole taper | / | BBT30 | BBT30 | BBT30 | BBT30 | BBT30 | BBT30 | BBT30 | BBT40 | BBT40 | BBT40 | BBT40 |
| Spindle speed | r/min | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 12000 | 12000 | 12000 | 12000 | 12000 |
| Tool magazine capacity | / | 21 (servo) | 21 (servo) | 21 (servo) | 21 (servo) | 21 (servo) | 21 (servo) | 21 (servo) | 20T (servo) | 20T(servo) | 20T (servo) | 20T (servo) |
| Tool change time | s | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.9 | 1.9 | 1.9 | 1.9 |
| Rapid feed speed | m/min | 48/48/48 | 48/48/48 | 48/48/48 | 48/48/48 | 48/48/48 | 48/48/48 | 36/36/36 | 48/48/48 | 48/48/48 | 48/48/48 | 48/48/48 |
| Positioning accuracy | mm | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| Re-positioning accuracy | mm | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Spindle motor power | KW | 3.7/5.5 | 3.7/5.5 | 3.7/5.5 | 3.7/5.5 | 3.7/5.5 | 3.7/5.5 | 3.7/5.5 | 5.5/7.5 | 5.5/7.5 | 5.5/7.5 | 5.5/7.5 |
| Machine dimension (length*width*height) | mm | 1750*2230*2230 | 1750*2230*2230 | 2000*2380*2600 | 2000*2380*2600 | 2480*2520*2300 | 2700*3420*2710 | 2960*3400*2710 | 1750*2230*2230 | 2000*2380*2600 | 2480*2520*2500 | 2700*3420*2910 |
| Machine weight | Kg | 2900 | 3000 | 3100 | 3100 | 3600 | 4000 | 4300 | 3100 | 3200 | 3700 | 4000 |



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