

DAHUI MT



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professional machine tool equipment
专业 机床设备 系列

CONVENTIONAL LATHE.普通车床	.CDE-A/B. .series	29.普通车床.小型
	.CDS-B/C. .series	30.普通车床.小型
	.CW-E. .series	31-32.普通车床.中型
	.CW-M. .series	33-34.普通车床.重型

5-AXIS VERICAL MACHINING CENTER. VDM .series	69-70
5轴立式加工中心	
HORIZONTAL MACHINING CENTER. MDH .series	71-72
卧式加工中心	
GANTRY MACHINE CENTER. DGM .series	73-74
龙门加工中心	
THE COMBINATION OF MACHINE TOOL AND AUTOMATIC LINE	75-76
工件\加工流水线	

Our vision: Duty . honest . team
公司愿景: 本分 诚实 团队



Conventional Lathe Workshop



Slant Bed CNC Lathe Workshop



Flat Bed CNC Lathe Workshop



VMC Workshop



Enterprise profile

Dalian Dahui Machine Tool Co., Ltd. was established in 2007 and has been devoted to the design, development, production and sales of standard and non-standard mechanical equipment. Meanwhile we also research and sales of drills, taps, milling cutters and other metal cutting tools. DAHUI obtained CE certification, BV certification, and SGS certification in 2011. We have own brand "DAHUI MT" . From 2007 to 2021, we pay more attention to technological innovation, in which we have possessed more than 10 patents. After 12 years of technical precipitation, Dahui can produce its own boring machine, lathe and machining center. The machines have exported home and abroad due to good quality, competitive price and considerate after-sales provided. DAHUI MT has formed strategic partnerships with more than 20 domestic first-class industrial equipment manufacturers and signed in-depth cooperation agreements to form a complete supply chain. According to the different needs of customers, we can provide standardized and customized lathes, gear hobbing machines, vertical machining centers, horizontal machining centers, gantry machining centers, grinders, and various metal milling tools with various structures and styles. At the same time, we acts as an agent for the sales of large castings, large forgings, mining machinery, petrochemical equipment, metallurgical machinery, construction machinery, construction machinery, coal mining machinery, power station equipment, environmental protection equipment, etc., We provide guests with a comprehensive one-stop convenient service. Our customers are located in more than 60 countries and regions around the world, The annual turnover exceeds 10 million U.S. dollars. We continue to seek technological breakthroughs, in the customer to bring more high value-added products, but also pay more attention to energy conservation and environmental protection, by reducing carbon emissions, for the healthy development of the earth's ecology to make greater contributions. Welcome partners from all over the world to cooperate with us to create a better future.

company profiles 公司介绍

Our vision: Duty . honest . team
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Portable Boring Machine

DBQ series DBQ40/DBQ50/DBQ60



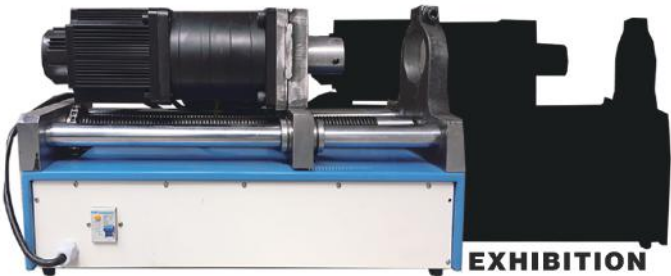
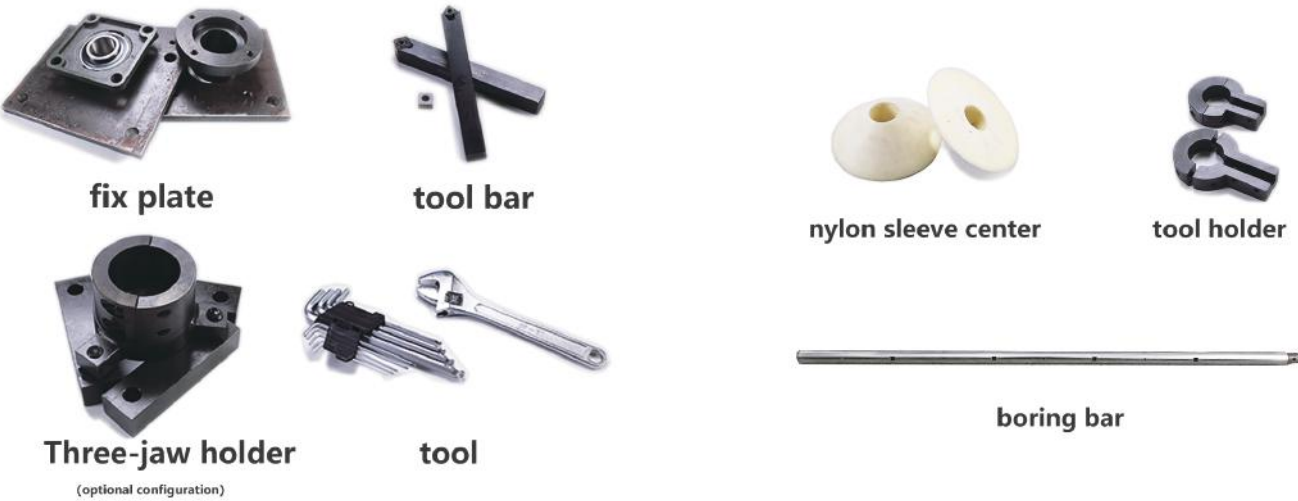
Item	Unit	DBQ50	DBQ40	DBQ60
The input voltage	V	220	220	220
AC power supply	HZ	50-60	50-60	50-60
Max diameter of machining hole	mm	Φ270	210	500
Min diameter of machining hole	mm	Φ55	45	65
Driving mode	KW	1.5/1.8	1.8	2
The diameter of boring bar	mm	50 , L=1500	40,L=1500	60,L=1500
Driving speed	r/min	0-190	0-200	0-75
The output torque from driving	N/M	76.4	61	105
Milling process range of end face	mm	55-280	45-230	70-350 for horizontal-rack 80-400 for tripod
Feed range	mm /min	0-90	0-90	0-90
Max machining stroke	mm	290	290	400-500
Max Depth of cutting feed	mm	unilateral 2 (A3 steel)	unilateral 2 (A3 steel)	unilateral 2 (A3 steel)
Surface roughness	Ra	3.2	3.2	3.2
Hole roundness error	mm	≤0.02	≤0.02	≤0.04
Machine weight	Kg	48	48	70
Total weight of machine	KG	152	152	174

The standard configuration:

- 1. Main machine
- 2. Automatic welding
- 3. Boring bar
- 4. Electric welding machine
- 5. Welding rod
- 6. Accessories
- 7. Screw
- 8. End Milling
- 9. Boring bar
- 10. Boring tool
- 11. Blades
- 12. Tool holder
- 13. Centering sleeve
- 14. Fixed mount
- 15. Triangle mount
- 16. Three Claws
- 17. Bearings
- 18. Front fixing plate

Optional:

- 1. End milling
- 2. Boring bar length
- 3. Stroke travel



The outer protection can be customized in color according to needs

Portable boring and welding machine

DBW series DBW40/DBW50/DBW60



Dioxide welding machine working component set (optional)



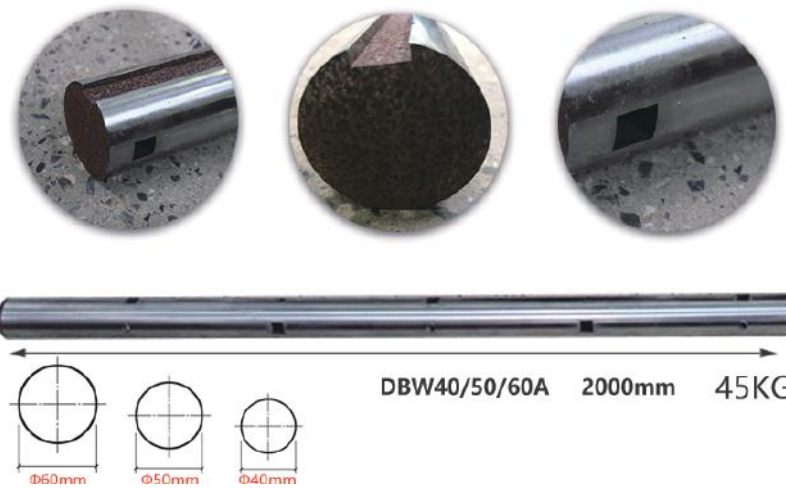
Item	Unit	DBW50A	DBW40A	DBW60A
Max boring hole diameter	mm	280	250	400
Min boring hole diameter	mm	55	45	65
Welding hole range	mm	50-180	50-180	50-300
Boring bar length	mm	2000	2000	2000 (Optionals)
Boring bar diameter	mm	50	40	60
Drive mode	—	Servo drive digital control	Servo drive digital control	Servo drive digital control
Maximum machining stroke	mm	260	260	290 (Optionals)
Maximum depth of feed	mm	unilateral 2 (A3 steel)	unilateral 2 (A3 steel)	unilateral 2 (A3 steel)
Surface roughness	Ra	3.2	3.2	3.2
Hole roundness error	mm	≤0.02	≤0.02	≤0.02
Main drive adopts servo motor	kw	1.8	1.8	2
Spindle speed	rpm/min	187	187	187
main drive torque	N/M	75	75	105
Input voltage	V	AC220V, 50HZ	AC220V, 50HZ	AC220V (optional 380V) , 50HZ
Feed speed range	rpm/min	0-90mm	0-90mm	0-90mm
Face milling	mm	55-230	55-230	55-300

The standard configuration:

- 1. Main machine
- 2. Welding power source
- 3. Boring bar
- 4. Electric welding machine
- 5. Welding rod
- 6. Welding accessories
- 7. Screw
- 8. Boring tool
- 9. Blades
- 10. Tool holder × 2
- 11. Centering sleeve
- 12. Bearing housing
- 13. Bearings
- 14. Front fixing plate
- 15. Rear fixing plate
- 16. Oil can
- 17. Wrench

Optional:

- 1. Triangle mount (optional)
- 2. End milling

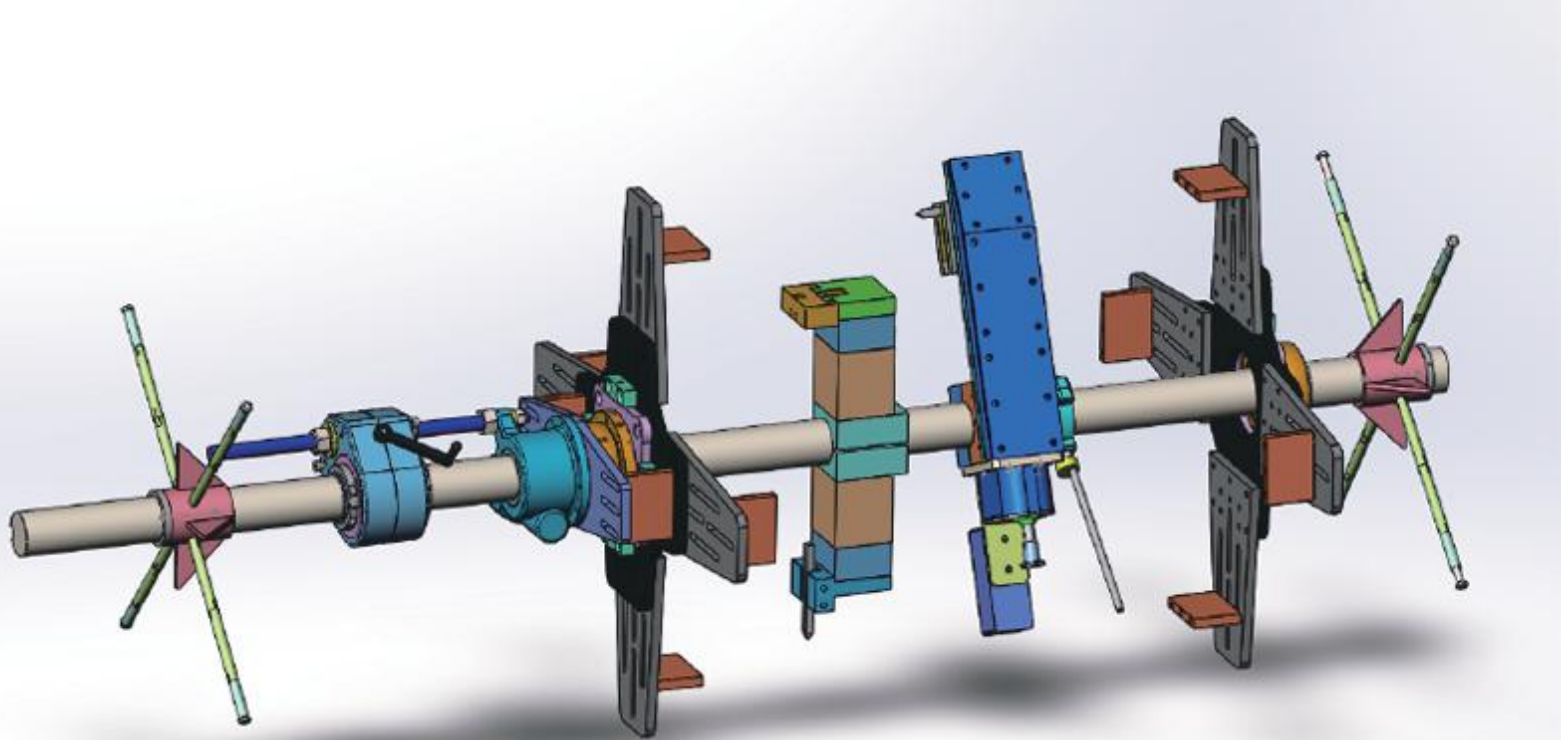


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Heavy Duty Boring Machine

DB series

DB90/DB120/DB150/DB200/DB250



Heavy-duty Line Boring Machine						
Item	Unit	DB90	DB120	DB150	DB200	DB250
voltage	V	380v	380V	380V	380V	380V
Max.diameter of boring hole	mm	95-800	180-900	220-1000	380-1200	380-1500
Length of boring bar	mm	1500/2000/3000 (customized)	1500/2000/3000 (custom made)	1500/2000/3000 (custom made)	1500/2000 /3000/4000 (custom made)	1500/2000 /3000/4000 (custom made)
spindle movement	mm	500-900 (customized)	500-4000 (custom made)	500-4000 (custom made)	500-4000 (custom made)	500-4000 (custom made)
Maximum turning amount	mm	3	3	3	3	3
driver system		Hydraulic	servo motor	servo motor/Hydraulic	servo motor/Hydraulic	Hydraulic
Motor power	kw	3.5/3	3	3	3	3
The spindle speed	rpm/min	100-155	0-80	62	55	38
Feed amount	mm/rpm	0-0.5	6	0-0.5	0-0.58	0-0.58
The range of feed speed	mm/min	0-60	0-90	0-0.05		
torque	n/m	573	500	600		
The surface roughness	Ra	3.2	3.2	3.2	3.2	3.2
Boring roundness error	mm	0.05	0.05	0.05	0.05	0.05
The support structure		One-shaped support /Tripod		One-shaped support/Tripod/T-shaped support	Quadriga	Quadriga
The range of milling	mm (φ)	120-450	250-850	130-950	260-1050	450-1300
Machine Size	mm	2300*1300*1900				
Machine Weight	kg	13000				

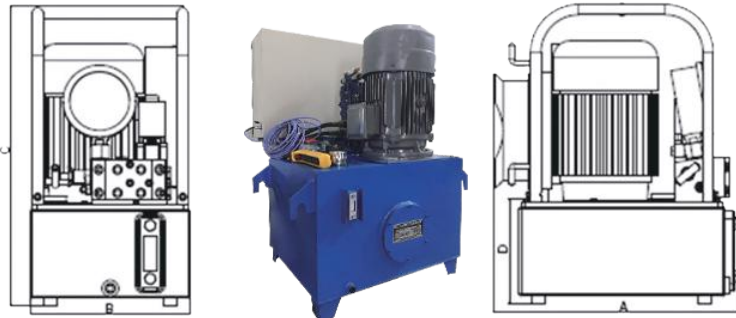
Standard accessories

- 1.hydraulic unit
- 2. “ — ” shaped fixed supporting
- 3. fixed welding plate
- 4/5.cross supporting expansion connection board
- 6.Self-aligning supporting
- 7.end milling radial counterweight module
- 8.end milling
- 9.tool post
- 10.boring tool holder
- 11.tool set
- 12. main drive box
- 13.lock ring
- 14.feed control box
- 15.screw
- 16/17. cross fixed supporting
- 18. feed speed control lever
- 19. boring shaft
- 20.Installation diagram

Optional

- “08” face milling

Drive Form Decomposition



1hydraulic station 10HP(7.5KW),38L/min 2hydraulic station 15HP(11KW), 38L/min
3hydraulic station 20HP(15KW), 38L/min 4hydraulic station 25HP(18.5KW), 60L/min
Notice:
Equipped with a remote control box for remote operation, control line voltage 24V, control line length 10 meters

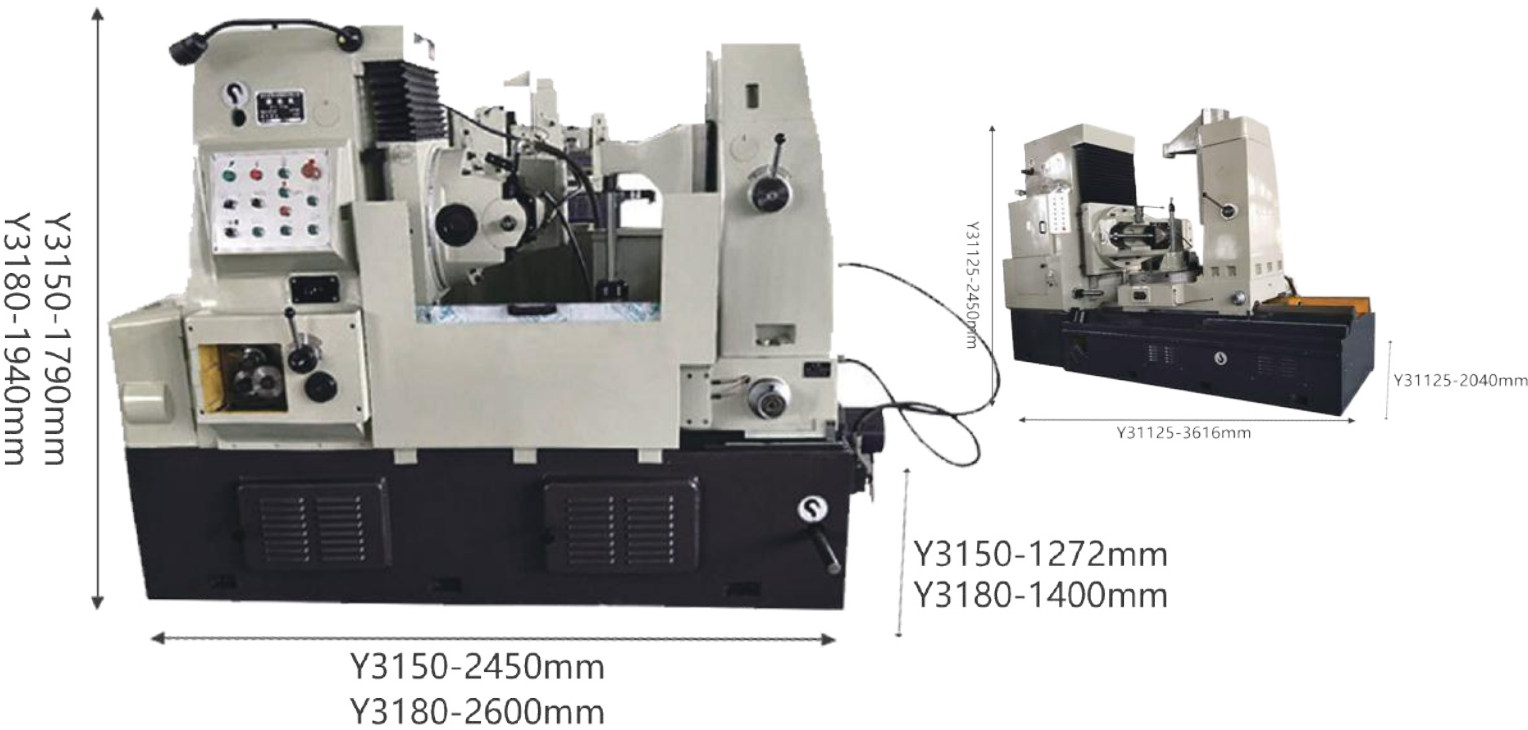


Note: The remote control box can realize remoteoperation, and the control line is 10 meters long. Speed: 0–87rpm stepless speed regulation

Please contact customer service for details of driver selection

The outer protection can be customized in color according to needs

Gear hobbing machine series
Manucal .Y Type Y3150/Y3180/Y31125/Y31160/Y31180–Y31800



Basic Configuration:

- 1.Accessory
- 2.Lathe Body
- 3.Transmission Case
- 4.Big Column
- 5.Sliding Carriage
- 6.Tool holder
- 7. Workbench
- 8.Rear Column
- 9.Hydraulic and lubrication system
- 10.Coolant system
- 11.Electrical, system

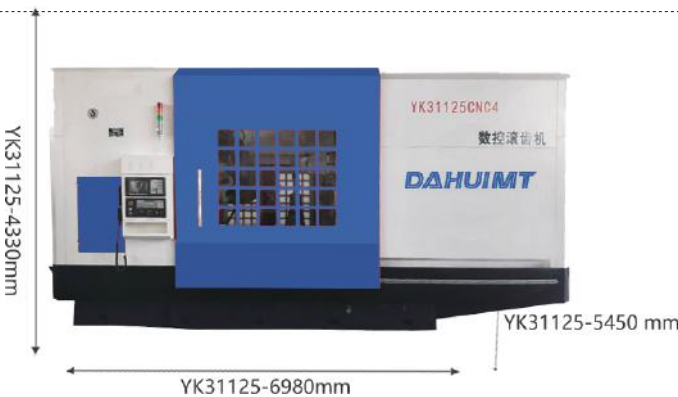
Accessories List (See the packing list for details)

- 1.Hob Spindle Assembly
- 2.Square wrench
- 3.Balance cylinder piston rod
- 4.Balance cylinder piston nipple
- 5.Indexing worm drive socket
- 6.Indexing worm drive extension rod
- 7.Indexing worm drive lengthened protective sleeve
- 8.Swap gears

Item	Unit	Y3120	Y3150	Y3180	Y31125	Y31160	Y31180	Y31200	Y31260	Y31315	Y31500	Y31630	Y31800
Max. workpiece diameter	mm	200	550	φ800	φ1250	φ1600	φ1800	φ2000	φ2600	φ3150	φ5000	φ6300	φ8000
Machining diameter with small column	mm	—	—	φ550	φ1000	φ1300	φ1400	φ1600	φ1600	φ1600	—	—	—
Max. workpiece module	mm	6	8	10	16	24	24	24/30	30	36	36	36	36
Max. tooth width	mm	170	250	300	500	500	1100	1100	900	1250	1200	1200	1500
Max. installation diameter of hob	mm	140	160	180	245	325	325	325	350	310	450	450	500
Max. installation length of hob	mm	140	160	180	220	360	360	360	380	400	480	480	550
Worktable diameter	mm	320	510	650	950	1100	1450	1650	1875	1800	3750	3750	4500
Diameter of worktable center hole	mm	65	80	80	200	260	260	260	400	430	950	950	950
Hob speed (number of steps)	r/min	79 ~ 498/9 steps	40 ~ 250/9 steps	40 ~ 200/8 steps	16 ~ 125/7 steps	19 ~ 124/7 steps	10 ~ 92	10 ~ 92	6.5 ~ 80	6.5 ~ 85	6.5 ~ 51	6.5 ~ 51	6.5 ~ 43
Max. hob shifting of tool spindle (Y-axis)	mm	95	55	50	100	100	140	140	140	不支持	不支持	不支持	不支持
Main motor power	KW/ r/min	7.5	5.5	5.5 / 1500	11 / 1500	15 / 1500	22 / 1500	22 / 1500	30 / 1500	30 / 1500	37	37	45
Taper of spindle bore	—	MT5	MT5	MT5	MT6	MT6	MT6	MT6	ISO 80	MT6	ISO 80	ISO 80	ISO 80
Distance between hob center and worktable surface	mm	260 ~ 430	235 ~ 535	235 ~ 585	200 ~ 1000	200 ~ 700	680 ~ 1830	680 ~ 1830	750 ~ 1750	680 ~ 1930	800 ~ 2100	800 ~ 2100	800 ~ 2400
Distance between hob center and worktable center	mm	30 ~ 175	30 ~ 330	50 ~ 550	100 ~ 750	200 ~ 910	100 ~ 1100	100 ~ 1200	250 ~ 1550	100 ~ 2720	750 ~ 2950	800 ~ 3450	1200 ~ 4400
Distance from the center of rear column tailstock to the worktable surface	mm	310 ~ 510	400 ~ 600	400 ~ 600	500 ~ 900	500 ~ 900	985 ~ 1985	985 ~ 1985	1090 ~ 2080	1000 ~ 2150	—	—	—
Max. rotation angle of tool post (A-axis)	°	±60°	±60°	±60°	±60°	±60°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Machine dimensions (LxWxH)	mm	2280x1600x1730	2440x1370x1800	2750x1490x1870	3995x2040x2700	4380x2390x2500	7550x2850x4550	7580x4000x4200	8750x4000x4200	11100x2900x3700	11150x6200x5200	11800x6200x5200	14100x9000x5200
Gross weight/Net weight	Kg	4500/3500	5300/4500	6300/5700	17750/15000	17500/16000	31000(Net weight)	52000(Net weight)	56000(Net weight)	45000(Net weight)	92000(Net weight)	100000(Net weight)	120000(Net weight)

The outer protection can be customized in color according to needs

Gear hobbing machine series 4-6 axis
CNC .YK Type YK3150/YK3180/YK31125/YK31160/YK31800-YK311650



Basic accessories:

- 1. Accessories
- 2. Bed
- 3. Large column
- 4. Tool holder skateboard
- 5. Tool holder
- 6. Workbench
- 7. Rear column
- 8. Hydraulic, lubrication system
- 9. Cooling system
- 10. Electrical, numerical control system
- 11. Machine tool protective cover
- 12. Hob spindle assembly
- 13. Workpiece spindle assembly
- 14. Leak-proof pad
- 15. Socket wrench assembly
- 16. Square head wrench assembly
- 17. Workpiece top

Optional

Note: Please contact the sales staff to obtain the optional list

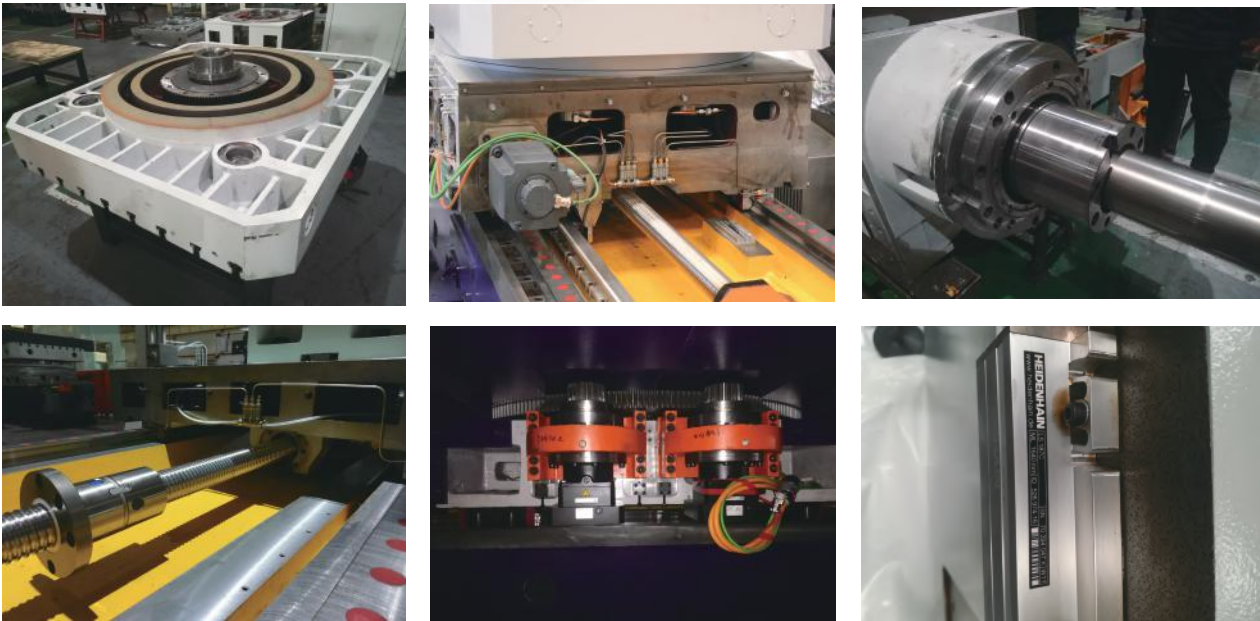


Item		YK3116-6	YK3120-6	YK3132-6	YK3150-4-6	YK3180-4-6	YK31125-4-6	YK31135-4-6	YK31160-4-6	YK31200-4-6	YK31250-4-6	YK31315-4-6	YK31400-4-6	YK31500-4-6	YK31630-4-6	YK31800-4-6	YK311250-4-6	YK311650-4-6
Max. workpiece diameter	mm	160	200	320	500	800	1250	1350(No rear column) 1100(With rear column)	1600	2000	2500	3150	4000	5000	6300	8000	12500	16500
Max. workpiece module	mm	3 (Cast iron)	8	6	12	8(Steel) 10(Cast iron)	24	25(Steel) 28(Cast iron)	24	32	32	32	36	36	42	42	50	50
Number of teeth	—	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any	Any
Max. tooth width	mm	120	250	200	450	300	1000	800	1000	1000	1000	1000	1800	1800	1800	1800	1800	1800
Radial travel (X-axis)	mm	130	230	30 ~ 225	325	600	850	70 ~ 870	100 ~ 1200	170 ~ 1500	200 ~ 1500	520 ~ 2140	950 ~ 3200	1200 ~ 3450	1200 ~ 4120	1450 ~ 5000	1500 ~ 7550	1500 ~ 9550
Tool post slide travel (Z-axis)	mm	300	300	200 ~ 500	500	900	1300	870	420 ~ 1720	855 ~ 2155	855 ~ 2155	855 ~ 2155	765 ~ 2765	645 ~ 2645	645 ~ 2645	645 ~ 2645	645 ~ 2645	645 ~ 2645
Max. rotation angle of tool post (A-axis)	°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Max. installation diameter of hob	mm	80	160	130	200	240	350	360	350	350	350	350	450	450	450	450	550	550
Max. installation length of hob	mm	120	230	180	240	280	405	400	405	405	405	405	700	550	550	550	550	550
Max. tangential movement of the hob (Y-axis)	mm	80	190	150	200	240	340	300	340	340	340	340	340	490	490	490	490	490
Distance between hob center and worktable center	mm	15 ~ 190	30 ~ 260	30 ~ 225	45 ~ 370	0 ~ 600	100 ~ 950	80 ~ 930	100 ~ 1200	170 ~ 1500	200 ~ 1500	520 ~ 2140	950 ~ 3200	1200 ~ 3450	1200 ~ 4120	1450 ~ 5000	1500 ~ 7550	1500 ~ 9550
Distance between hob center and worktable surface	mm	150 ~ 450	180 ~ 530	200 ~ 500	190 ~ 690	200 ~ 900	400 ~ 1700	350 ~ 1250	420 ~ 1720	855 ~ 2155	855 ~ 2155	855 ~ 2155	765 ~ 2765	645 ~ 2645	645 ~ 2645	645 ~ 2645	1450 ~ 5000+Q12	645 ~ 2645
Distance from the center of rear column tailstock to the worktable surface	mm	220 ~ 530	360 ~ 800	350 ~ 750	380 ~ 930	750 ~ 1300	855 ~ 1855	775 ~ 1485	825 ~ 1825	—	—	—	—	—	—	—	—	—
Hob speed	r/min	3000	60 ~ 600	1200	60 ~ 600 (Stepless)	16 ~ 300	16 ~ 225	5 ~ 400	16 ~ 220	25 ~ 120	25 ~ 120	25 ~ 120	25 ~ 120	12 ~ 120	12 ~ 120	10 ~ 100	10 ~ 100	10 ~ 100
Max. speed of worktable	r/min	500	100	200	30	20	9.6	20	4	1.5	1.5	1.5	3	1	1	0.58	0.58	0.58
Worktable diameter	mm	150	250	280	520	750	1250	1150	1500	1890	2040	2640	3400	3835	3835	4400	4800	4800
Diameter of worktable center hole	mm	r/min	65		80	80	200	300	500	800	800	1200	1200	1200	1200	2000	2000	2000
Tangential travel speed (Y-axis)	mm/min	1 ~ 2000	1 ~ 2000	1500	3000	1 ~ 3000	1 ~ 3000	150	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000	1 ~ 3000
Min. programming amount of CNC axes	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Main motor power	KW	5.5	11	15	17	35	35	41	35	35	35	35	115	75	75	115	115	115
Total power	KW	18	45	32	55	77	77	—	80	77	77	77	167	120	120	190	190	190
Machine net weight	Kg	3000	13500	10000	17000	25000	35000	30000	40000	42000	45000	55000	110000	95000	98000	200000	245000	340000
Machine dimensions (LxWxH)	mm	2390X2110X2230	3500X2500X2500	2550X2550X2870	3800 X 5620 X 3070	7200X3925 X3900	6980X5450 X4330	—	7800X4700 X4300	7800X5090X4300	8050X5240X4300	8400X5840X4300	8780X6200X5300	10400X6635X5300	11070X6635X5300	12300X7200X5300	13970X7600X5300	15970X7600X5300

The outer protection can be customized in color according to needs

Boring machine series Planer.65

CNC.TK Type TPK On the basis of the TK series, the TPK series adds a facing head to improve the processing technology.
TPK6513/TK6513/TPK6511/TK6511/TPK6516/TK6516



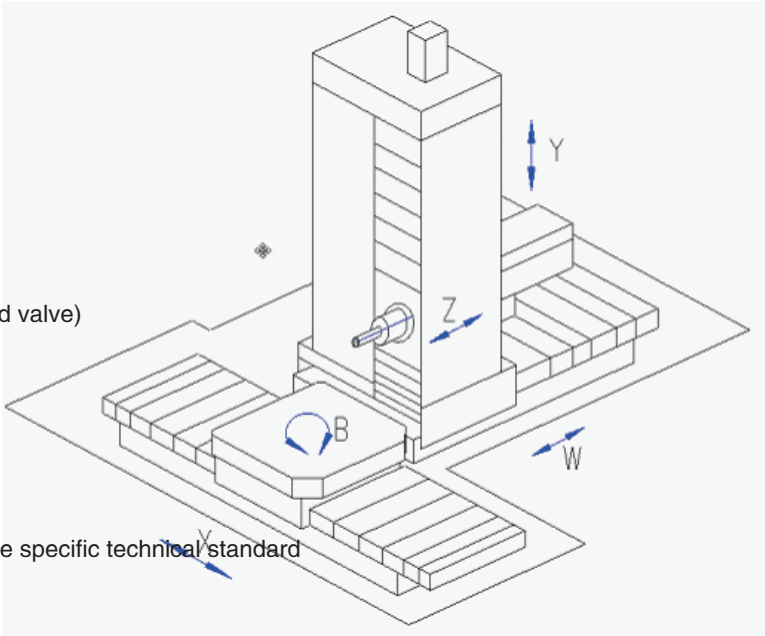
Model	Unit	TK6511/TPK6511	TK6513/TPK6513	TK6516/TPK6516
Boring spindle diameter	mm	110	130	160
worktable size	mm	1000×1250	1600×1800	2000×1600
Max load of worktable	kg	5000	20000	15000
X axis travel of worktable	mm	2000	3000(Optionals)	3000
Y axis travel of headstock	mm	1500	1800	1500
Z axis travel of column	mm	1200	1600	1600
The W-axis boring spindle travel	mm	550	900	1000
Worktable rotate angle(B) axis	mm	360°	360°	360
Boring spindle taper hole		JT 50 (7:24)	SO 50(JT50 7:24)	ISO 50(BT50 7:24)
Boring spindle speed	r/min	10 ~ 2000	1-2000	10-1200
Min. distance from spindle center to worktable center	mm	487 (Spindle 0 bit)	100 (Spindle extension)	0 ((Main shaft, beam extension))
Distance from spindle center to worktable	mm	60-1560	100-2100	0-2500
Max speed of work feed X,Y axis	mm/min	1-6000	Stepless Adjustable 1-6000	Stepless Adjustable 1-6000
Max speed of work feed Z axis	mm/min	1-6000	Stepless Adjustable 1-6000	Stepless Adjustable 1-6000
Max speed of work feed W axis	mm/min	1-2000	Stepless Adjustable 1-6000	Stepless Adjustable 1-6000
Max speed of work feed B axis	mm/min	0~1	0~1	0~1
Voltage & Frequency		3AC 380V±10% 50HZ±1HZ	3AC 380V±10% 50HZ±1HZ	3AC 380V±10% 50HZ±1HZ
CNC controller		Siemens 828D	Siemens 828D	Siemens 828D
Positioning accuracy X axis	mm	0.02	0.030/1000	0.018
Positioning accuracy Y axis	mm	0.018	0.030/1000	0.018
Positioning accuracy for W axis	mm	0.02	0.030/1000	0.018
Positioning accuracy for Z axis	mm	0.018	0.035/1000	0.018
Positioning accuracy for B axis	mm	12 ~	±5 ~	±5 ~
4×90° fixed indexing precision		6 ~	5 ~	5 ~
Repositioning accuracy for X axis	mm	0.011	0.012/1000	0.005
Repositioning accuracy for Y axis and Z axis	mm	0.01	0.012/1000	0.005
Repositioning accuracy for W axis	mm	0.016	0.008/1000	0.005
Repositioning accuracy for B axis	mm	7 ~	±5 ~	7 ~
Machine Size	mm	5555 ×4155×4200	7600×7300×5100	—
Weight	kg	20000	34000	—

MAIN STANDARD COMPONENTS:

- 1. Spindle bearing
- 2. Screw bearing
- 3. Ball screw
- 4. Linear guide
- 5. Feed shaft reducer
- 7. Main electrical components
- 8. Main components of lubrication system
- 9. Main components of hydraulic system (pump and valve)
- 10. Steel plate protective pull plate
- 11. Flexible Organ Cover
- 12. Screw conveyor

Optional:

- Note: Please contact the sales staff for details of the specific technical standard



The outer protection can be customized in color according to needs

Boring machine series **Horizontal.61**
Manual Type(TPX)/CNC Type(TK)

TPX6113-2/TPX6113/TPX6111B-2/TPX6111B-3



Item	Unit	TPX6113 /2	TPX6113	TPX6111B	TPX6111B/2	TPX6111B/3
Spindle diameter	(mm)	Φ130	Φ130	Φ110	Φ110	Φ110
Max.torque of spindle	N.m	3136	3136	1225	1225	1225
Max.torque of facing slide	N.m	4900	4900	1960	1960	1960
Max.axial thrust of spindle	N	31360	31360	12250	12250	12250
Spindle taper	—	Metric 80	Metric 80	morse 6 (7: 24、50#) ISO50 7:24	morse 6 (7: 24、50#) ISO50 7:24	morse 6 (7: 24、50#) ISO50 7:24
Max.travel of spindle	mm	900	900	600	600	600
Max.travel of radial facing slide	mm	250	250	180	180	180
Max.permissible load of table	kg	10000	8000	2500	2500	3000
Speed number of radial facing slide	steps	18	18	18	18	18
Speed range of radial facing slide	r/min	2.5-125	2.5-125	4-200	4-200	4-200
Rapid traverse speed of spindle, headstock, cross & longitudinal	mm/min	2500	2500	2500	2500	2500
Spindle speed level	steps	24	24	22	22	22
Spindle speed range	r/min	4-800	4-800	8-1000	8-1000	8-1000
Facing head diameter	mm	800	800	600	600	600
Worktable Size	mm	1600*1800	1400*1600	960*1100	1200*1400	1300*1600
Worktable rotation angle	°	360°	360°	360°	360°	360°
Transverse travel of worktable--X axis	mm	2000	2000	900	1250	1600
headbox travel--Y axis	mm	1800	1500	1000	1100	1300
Table Horizontal travel--Z axis	mm	2000	1800	1000	1000	1400
Main motor power	kw	15	15	7.5	7.5	7.5
Weight	kg	28000	25300	13000	14500	18000
Size	mm	7030*4665*3800	6995*3647*3442	4910×2454×2750	4930×3359×2750	5117×3359×3079

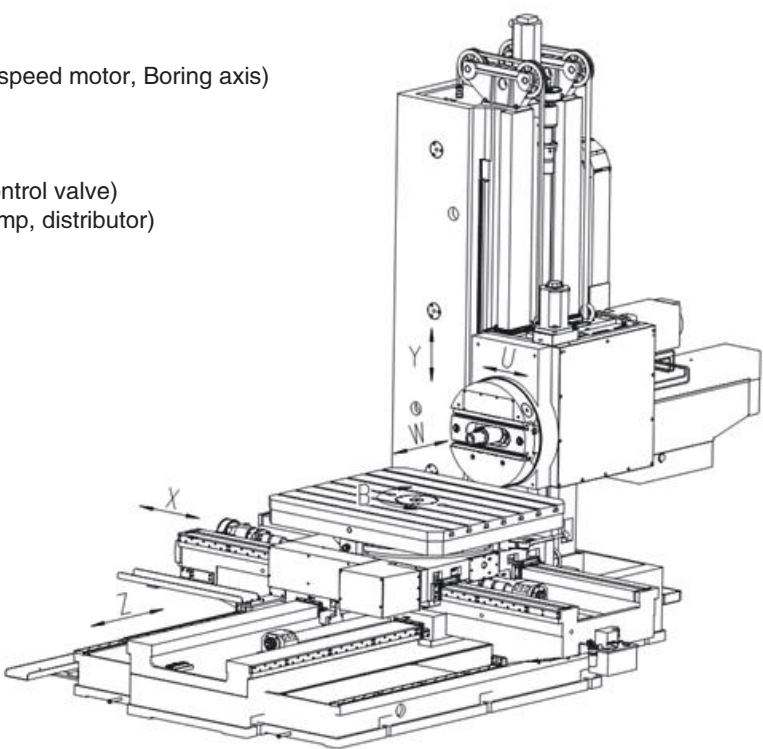


MAIN CONFIGURATION:

- 1.Main transmission system(AC main motor, change speed motor, Boring axis)
- 2.X/Y axis dragging system(motor, screw)
- 3.Main parts (bed、 column, driven head, worktable)
- 4.Electrical system (electrical box、 PLC、 display)
- 5.Hydraulic system(include motor, pump, pressure control valve)
- 6.Automatic lubrication system(including in motor, pump, distributor)

Accessories:

- 1.Tool holder for face-plate
- 2.The short handlebar
- 3.The long handlebar
- 4.Digital read out—2 Axis
- 5.Guide protect device for Bed, Lower saddle
- 6.Foundation bolt
- 7.Block
- 8.Gasket
- 9.Short reduction sleeve
- 10.Hex Nut

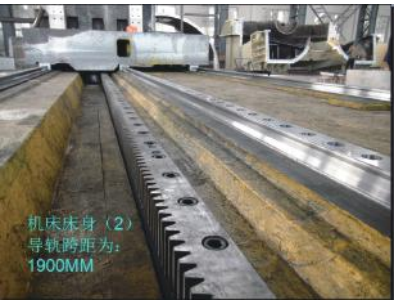
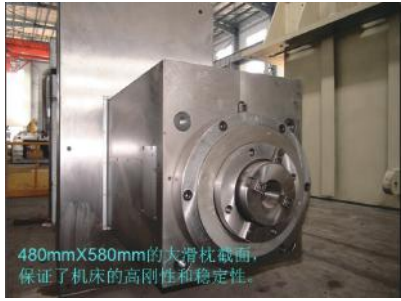


The outer protection can be customized in color according to needs

Boring machine series Floor boring.69

CNC.TK Type

TK6913/TK6916/TK6920/TK6926



The outer protection can be customized in color according to needs

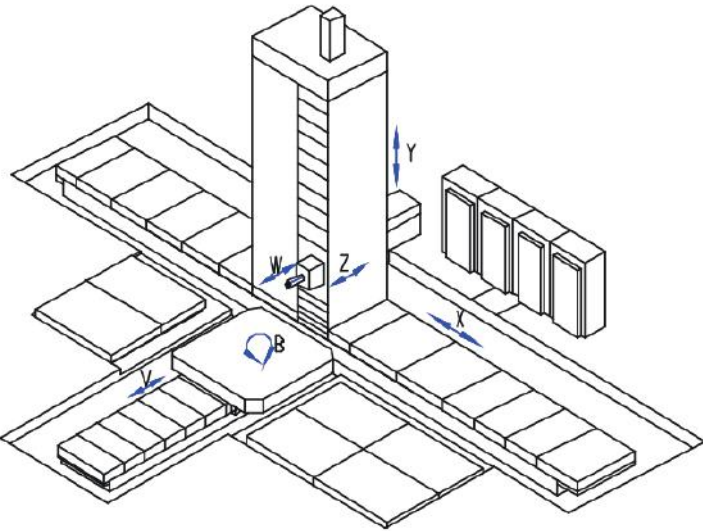
Model	Unit	TK6913	TK6916	TK6920	TK6926
Spindle bore diameter	mm	130	φ160	φ200	φ260
Milling shaft end diameter	mm	221.44	φ320	φ320	φ400
Spindle taper	—	ISO50#	ISO50 (7: 24)	ISO60 (7: 24)	ISO60 (7: 24)
Ram size	mm	350×380	480×520	480×520	600×650
Spindle and ram travel total	mm	1500	1500	1500	1500
Boring spindle travel (W axis)	mm	800	800	800	800
Ram travel (Z axis)	mm	700	700	700	700
Boring shaft head move up and down(Y axis)	mm	2000	2000	2000	2000
Column longitudinal travel (X axis)	mm	4000	4000	4000	4000
X axis and Y axis positioning accuracy	mm	±0.025mm/1000	±0.025mm/1000	±0.025mm/1000	±0.025mm/1000
Z axis and W axis positioning accuracy	mm	±0.03mm/1000	±0.03mm/1000	±0.03mm/1000	±0.03mm/1000
X axis and Y axis Repetitive positioning accuracy	mm	±0.013/1000	±0.013/1000	±0.013/1000	±0.013/1000
Z axis and W axis Repetitive positioning accuracy	mm	±0.013/1000	±0.013/1000	±0.013/1000	±0.013/1000
Machine size	mm	6000×4000×1175	12600×8802×7000	14150×9970×8830	14600×6600×6500
Machine weight	kg	20000	67000	115000	127000

Standard accessories:

- 1. Spindle motor 45kw
- 2. Inverter
- 3. CNC system
- 4. AC Servo Motor
- 5. AC servo drive unit
- 6. Bearings
- 7. Rack
- 8. Relay
- 9. Protective cover
- 10. Guide screw
- 11. Control electric box
- 12. Automatic lubrication station
- 13. Multi-point oil separator
- 14. Rotary table slide
- 15. Column
- 16. Bed
- 17. Square ram
- 18. Square ram skateboard
- 19. YRT turntable bearing (1200 type)
- 20. Boring bar
- 21. Double gear drive turntable device
- 22. Circular grating
- 23. Reducer
- 20. Chip conveyor

Accessories List (See the packing list for details)

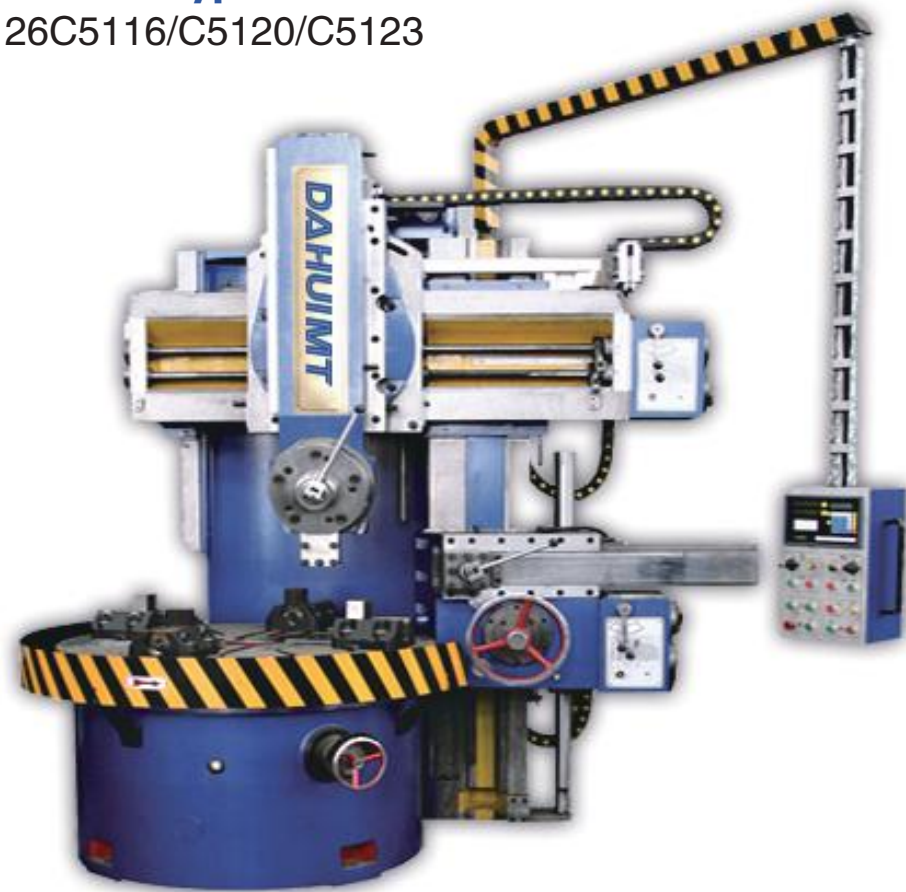
- 1.Hob Spindle Assembly
- 2.Square wrench
- 3.Balance cylinder piston rod
- 4.Balance cylinder piston nipple
- 5.Indexing worm drive socket
- 6.Indexing worm drive extension rod
- 7.Indexing worm drive lengthened protective sleeve
- 8.Swap gears



vertical lathe series **single column.**

Manual .C Type

C5112/C5126C5116/C5120/C5123



Model	Unit	C5112	C5116	C5120	C5123	C5126
Max Turning Diameter	mm	1250	1600	2000	2300	2600
Worktable Diameter	mm	1000	1400	1800	2000	2300
Max Machining Height	mm	1000	1200	1250	1350	1350
Max Workpiece Weight	tons	3.2	5	8	10	10
Maximum cutting force of vertical tool post	KN	20	25	25	25	25
Cutting force of side tool post	KN	20	20	20	20	20
Maximum torque of worktable	KN	18	25	32	32	32
Worktable speed range	r/min	6.3-200	5-160	4-125	3.2-100	2.5-80
Rotation angle limit of vertical tool post	°	±30°	±30°	±30°	±30°	±30°
Tool post feed range (level 12)	mm/min	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86
Beam stroke	mm	650/830/1050	650/1050/1250	900/1250/1450	900/1250/1451	900/1250/1452
Moving speed of beam	mm	440	440	440	440	440
Horizontal stroke of vertical tool post	mm	700	915	1050	1200	1300
Ram stroke of vertical tool post	mm	650	800/1000	800/1000	800/1000	800/1000
Fast moving speed of tool post	mm/min	1800	1800	1800	1800	1800
Tool bar section size	mm	40*40	40*40	40*40	40*40	40*40
Main Motor Power	KW	22	30	30	30/37	37
Machine size	mm	2360*2470*3580	2830*2870*3870	3210*4050*4200	3410*4050*4200	3410*4050*4200
Machine weight	kg	8500	12500	17500	18500	19500



Standard accessories:

- 1.Asynchronous motor
- 2.Bearings
- 3.Hydraulic parts
- 4.Digital ruler
- 5.Electrical components
- 6.Automatic lubrication station
- 7.Pentagonal tool holder
- 8.16–speed transmission, gearbox

Optional:

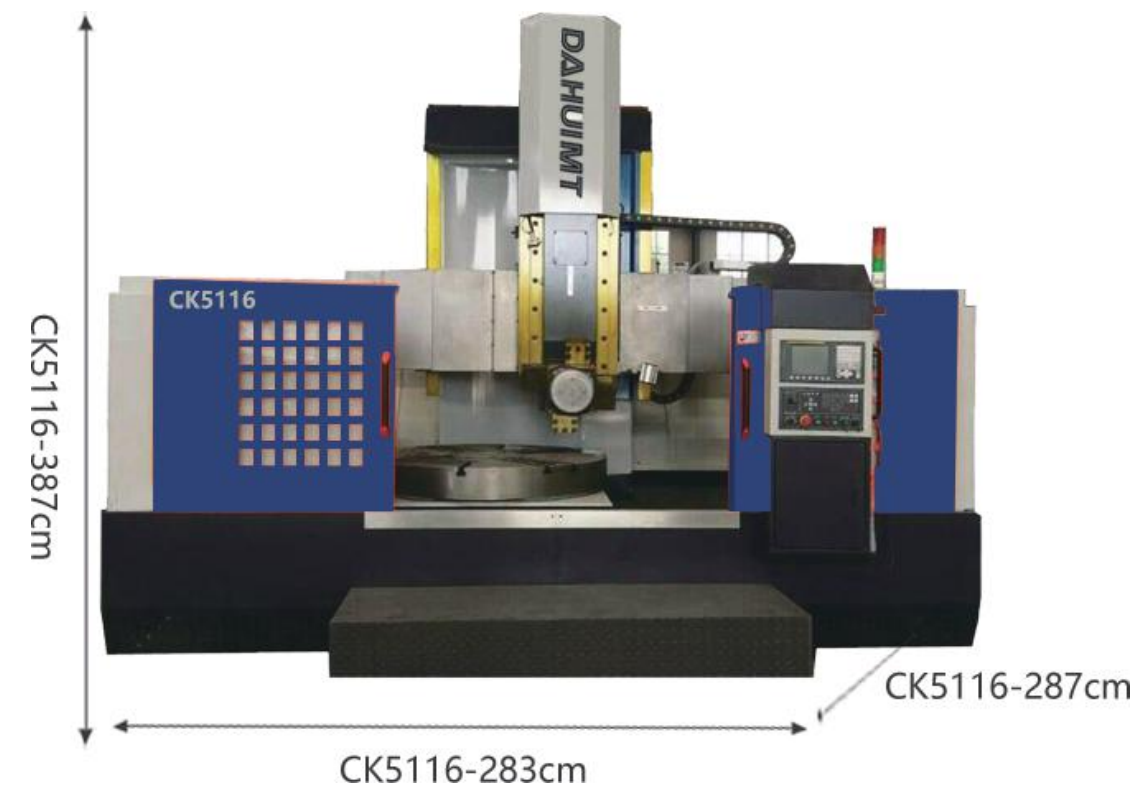
- 1.Main motor
- 2.Electrical components (optional Schneider brand)
- 3.Square ram tool holder
- 4.Side tool holder
- 5.Double screw lift

The outer protection can be customized in color according to needs

vertical lathe series **single column.**

CNC .CK Type

CK5116/CK5123CK5112/CK5120/CK5126



Model	Unit	CK5112	CK5116	CK5120	CK5123	CK5126
Max Turning Diameter	mm	1250	1600	2000	2300	2600
Max workpiece Height	mm	1000	1200	1250	1250	1600
Max Workpiece Weight	tons	3.2	5	5	8	10
Worktable Diameter	mm	1000	1400	1800	2000	2300
Rotating Speed of Worktable	step	4 gears, stepless	4 gears, stepless	16 gears, stepless	16 gears, stepless	16 gears, stepless
Worktable Speed Range	r/min	6.3-200	5-160	4-125	3.2-100	2.5-80
Maximum Torque of Worktable	KNm	20	20	25	25	32
Horizontal Stroke of Vertical Tool Post	mm	-12-700	-20-915	-20-1115	1200	1200
Ram Stroke of Vertical Tool Post	mm	650	650	800	800	1000
Tool Bar Section Size	mm	30*40	30*40	30*40	30*40	30*40
Maximum Turning Angle of Tool Post	—	±30°	±30°	±30°	±30°	±30°
Fast Moving Speed of Tool Post	mm	2000	2000	2000	2000	2000
Maximum Stroke of Beam	mm	650	850	1000	1000	1250
Beam Lifting Speed	mm	440	440	440	440	440
Main Motor Power	KW	22	30	30	30	37
Machine Size	mm	2360*2470*3580	2830*2870*3870	3210*4050*4200	3410*4050*4200	3410*4050*4200
Machine Weight	tons	9000	13000	17000	18000	20000



The outer protection can be customized in color according to needs

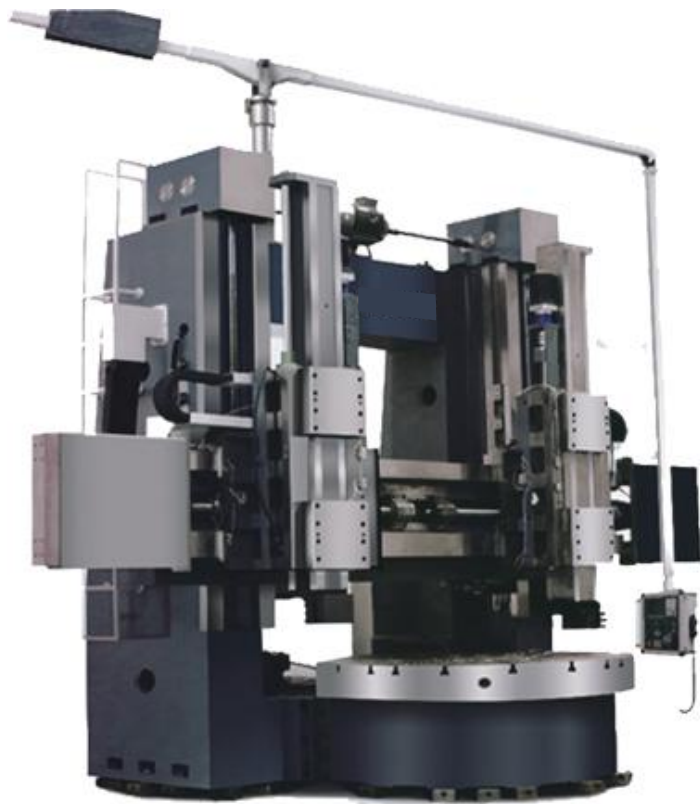
Standard:

- 1. CNC system
- 2. Servo drive
- 3. Servo motor
- 4. Reducer
- 5. Hand pulse
- 6. Body limit switch
- 7. Operation box
- 8. Main control box
- 9. Main motor
- 10. Hydraulic system
- 11. Automatic lubrication station
- 12. Beam protective cover
- 13. Ball screw
- 14. Rail protection
- 15. High-quality castings

Optional:

- 1. The main motor is super synchronous
- 2. Protection
- 3. CNC system (Simens, fanuc, GSK, Mitsubishi, Heidenhain, etc.)
- 4. Four-speed stepless transmission, ZF gearbox
- 5. Four-station electric tool rest
- 6. Tool magazine

vertical lathe series double column.
Manual .C Type
C5225/C5280/C5235/C5240/C5245/C5250/C5263/C52100



Model	Unit	C5225	C5235	C5240	C5245	C5250	C5263	C5280	C52100
Worktable Diameter	mm	2250	2850	3200	3800	4500	5700	6300/7100	7100/7500
Max Turning Diameter	mm	2500	3500	4000	4500	5000	6300	8000	10000
Workpiece Height	mm	1600/2000	2000/2500/3150	2000/2500/3150	2000/2500/3150	2000/2500/3150	2500/3150/4000	3500/4000/5500	4500/5000
Workpiece Weight	kg	10000/16000	10000/16000	25000/32000	25000/32000	25000/32000	25000/40000	100000/125000	100000/150000/200000
Maximum Cutting Force of Tool Post	Right Tool Post	n	35000	40000	40000	50000	63000	80000	100000
	Left Tool Post	n	30000	35000	35000	35000	50000	460000	80000
Maximum Torque of Worktable	Nm	63000	80000	80000	80000	80000	200000	460000	640000
Rotating Speed of Worktable	Step	16	16	16	16	16	16	16	16
Worktable Speed Range	rpm	2-63	0.63-63	0.63-63	0.5-50	0.5-50	0.32-32	0.2-20	0.2-20
Feed Level of Tool Post	Step	18	18	18	18	18	18	18	18
Feed Range of Vertical Tool Post	mm/min	0.25-90	1-500	1-500	1-500	1-500	1-500	1-500	1-500
Beam Stroke	Horizontal Stroke	mm	1400	1900	2200	1450	2700	3200	4400
	Vertical Stroke	mm	1000	1250/1400	1000/1250/1400	1000/1250/1400	1400/1600/2000	1600/2000/2500	2000/2500/2750
Moving Speed of Beam	mm/min	350	350	300	300	350	230	230	230
Fast Moving Speed of Tool Post	mm/min	1500	4000	4000	4000	4000	4000	4000	4000
Swivel Angle of Tool Post	Degree	±30°	±30°	±30°	±30°	±30°	±30°	±30°	±30°
Section Size of Tool Post	mm	40x50	50*50	50*50	50*50	50x50	50x50	50x50	50x50
Main Motor Power	kw	55	55	55	55	75	90	110	132
Machine Size	mm	5180×5200×5870	6180×4900×5652	7200×5500×5700	7200×5500×5700	7680*6100*5975	12230×6800×9800	15650×8670×8350	15650×8670×8350
Machine Weight	kg	38000	45000	50000	55000	70000	100000	320000	465000

Standard:

- 1. Main motor
- 2. T-type lead screw
- 3. Lubrication system
- 4.16-speed gearbox
- 5. Original parts of Chint Electric
- 6. High quality castings
- 7. Control cabinet
- 8. Coupling
- 9. Oil cooler

Optional:

- 1. Main motor Beijing super synchronou



The outer protection can be customized in color according to needs

vertical lathe series **double column.**
CNC .CK Type
CK5225/CK5280/CK5235/CK5240/CK5245/CK5250/CK5263/CK52100



Model	Unit	CK5225	CK5235	CK5240	CK5245	CK5250	CK5263	CK5280	CK52100
Max Turning Diameter	mm	2500	3500	4000	4500	5000	6300	8000	10000
Maximum Processing Height	mm	1600	1600/2000/2500/3150	1600/2000/2500/3151	200/2500/3150	2500/3150/4000	3150/4000/4500	4000/4500/5000	6000
Maximum weight of workpiece	Tons	10/16	10/16	25/32	25/32	25/32	25/40	100/125	250
Diameter of worktable	mm	2250	2850	3600	3800	4500	5700	7100	7500
Rotating speed of worktable	—	stepless	stepless	stepless	stepless	stepless	stepless	stepless	stepless
Worktable speed range	r/min	2~63	0.63~63	0.5~50	0.5~50	0.5~50	0.32~32	0.32~32	0.16~16
Maximum torque of worktable	kn/m	63	63	63	80	125	200	460	640
Horizontal stroke of vertical tool post	mm	1400	1860	2285	2470	2785	3600	4450	5650
Vertical travel of vertical tool post	mm	1000	1250/1400	1000/1250/1400	1000/1250/1400	1400/1600/2000	1600/2000/2500	2000/2500/2750	2760
Cutting force of left tool post	kn	30	35	35	35	35	50	63	100
Cutting force of right tool post	kn	35	40	40	40	50	63	80	100
Ram section size	mm	T-shaped ram	T-shaped ram	T-shaped ram	240*240	240*240	280*280	280*280	400*400
Tool bar section size	mm	50*50	50*50	50*50	50*50	50*50	50*50	50*50	80*80
Maximum turning angle of tool post	°	±30	±30	±30	±30	±30	±30	±30	±30
Maximum stroke of beam	mm	1250	1250/1650/1850	1750/2250/2850	1750/2250/2850	2250/2850/3150	2250/2850/3150	3000/3650/4250	4500
main motor power	kw	55	55	55	55	75	90	90	132
Machine Size	mm	5180×5200×5870	6180×4900×5652	7200×5500×5700	7200×5500×5700	7680×6100×5975	12230×6800×9800	15650×8670×8350	15650×8670×8350
Machine weight	kg	33000	36000	40000	55000	70000	100000	190000	460000

Main components:

- 1. Main motor
- 2. Hydraulic system
- 3. Automatic lubrication station
- 4. Ball screw
- 5. Spline shaft
- 6. Worktable static pressure guide rail
- 7. Beam Guard
- 8. Reducer
- 9. CNC system
- 10. Servo drive
- 11. Screw bearing
- 12. Right tool post servo motor

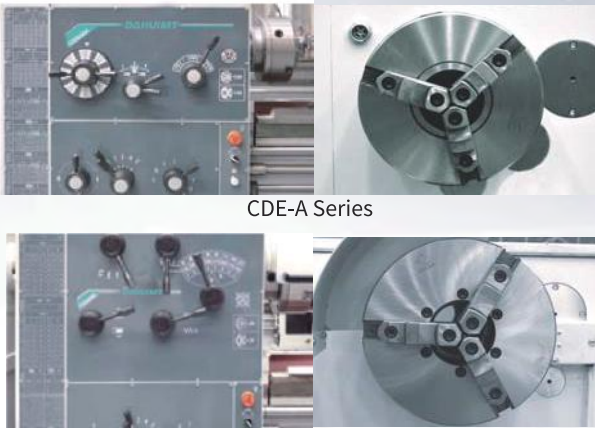


Optional:

- 1. The main motor is super synchronous
- 2. CNC system (Simens, fanuc, GSK, Mitsubishi, Heidenhain, etc.)
- 3. Double CNC tool holder
- 4.8/12 tool magazine optional

The outer protection can be customized in color according to needs

Conventional Lathe
CDE-A/B Series



CDE-A Series

CDE-B Series



Specification	Unit	CDE6240A	CDE6250A	CDE6266A	CDE6266B
Max.Swing diameter over bed	mm	Φ400	Φ500	Φ660	Φ660
Max.Swing diameter over cross slide	mm	Φ220	Φ290	Φ430	Φ430
Max.Swing diameter in gap	mm	Φ700	Φ760	Φ910	Φ910
Length in gap	mm	260	260	260	260
Max. workpiece length	mm	750/1000/1500/2000/3000			2000/3000
Max.Cutting length	mm	700/950/1450/1950/2950			1950/2950
Bed guideway width	mm	394			394
Spindle					
Spindle nose		C6			D8
Spindle bore	mm	Φ52			Φ82
Taper of spindle bore		No.6 MT			Metric 90(1:20)
Chuck size	mm	Φ250		Φ315	Φ315
Max. Spindle torque	Nm	1586			1586
Spindle speed ranges	rpm	11-1400(22 Speeds)			20-1600(16 Speeds)
Spindle centre height	mm	220	250	325	325
Spindle motor power	kW	7.5kW (1440rpm 50HZ) Opt:5.5kW (960rpm 60HZ)			7.5kW/1440 (50HZ)
Tailstock					
Diameter of tailstock quill	mm	Φ75			Φ75
Travel of tailstock quill	mm	150			150
Taper of tailstock quill		No.5 MT			No.5 MT
Feeds&Threads (metric screw *inch screw)					
Longitudinal feed	mm/r	0.035 ~ 2.842 (63 Speeds)		*0.0013 ~ 0.1057in/r(63 Speeds)	
Cross feed	mm/r	0.009 ~ 0.804		*0.0003 ~ 0.0304in/r	
Metric threads	mm	0.5 ~ 240 (66 Kinds)		*0.5 ~ 160 (43 Kinds)	
Modular threads	mm	0.25 ~ 120 (57 Kinds)		*0.25 ~ 80 (38 Kinds)	
Inch threads	TPI	80 ~ 1/4(49 Kinds)		*80 ~ 1/4(47 Kinds)	
Diametral pitch threads	DP	160 ~ 7/16(50 Kinds)		*160 ~ 7/16(48 Kinds)	
Tool post					
Max. tool shank size	mm	25×25			25×25
Travel of top slide	mm	150			150
Swivel angle of top slide	°	±45°			±45°
Max. Travel of Tool post	X-axis	mm	348		373
	Z-axis	mm	700/950/1450/1950/2950		
Machine dimensions(L×W×H)	mm	2400×1198×1264 (750)	2400×1198×1294 (750)	2400×1223×1369 (750)	3650×1223×1545(2000) 4650×1223×1545(3000)
		2650×1198×1264(1000)	2650×1198×1294(1000)	2650×1223×1369(1000)	
		3150×1198×1264(1500)	3150×1198×1294(1500)	3150×1223×1369(1500)	
		3650×1198×1264(2000)	3650×1198×1294(2000)	3650×1223×1369(2000)	
		4650×1198×1264(3000)	4650×1198×1294(3000)	4650×1223×1369(3000)	
Machine weight	kg	1990/2040/2120/2280/2570	2040/2090/2170/2330/2620	2105/2155/2235/2395/2685	2425/2725

Standard accessories

- 3-Jaw chuck
- Chuck guard
- Foot brake(Standard for CDE-B)
- Steady rest(≥1500mm-Standard <1500mm-Option)
- Follow rest(≥1500mm-Standard <1500mm-Option)
- 4-way tool post
- Tool post guard
- Standard toolkit & Oil gun

Optional

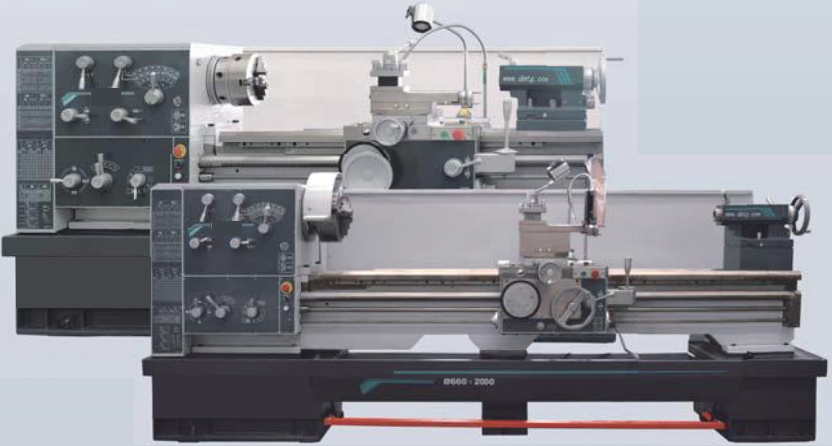
- 4-Jaw chuck
- Quick-change tool post
- Thread dial
- Large-sized steady rest&follow rest
- Anti-vibration/Adjustable pads
- Live center of tailstock
- Rear splash guard
- Drive plate
- DRO
- Spindle center and center sleeve
- Face plate
- Taper-turning attachment
- Anchor bolts

Conventional Lathe
CDS-B/C Series



CDS-B Series

CDS-C Series



Specification		Unit	CDS6150B/C	CDS6250B/C	CDS6166B/C	CDS6266B/C
Max.Swing diameter over bed		mm	Φ500		Φ660	
Max.Swing diameter over cross slide		mm	Φ290		Φ440	
Max.Swing diameter in gap		mm	—	Φ760	—	Φ870
Length in gap		mm	—	280	—	280
Max. workpiece length		mm	1000/1500/2000/3000			
Max.cutting length		mm	950/1450/1950/2950			
Bed guideway width		mm	394			
Spindle						
Spindle nose			D8			
Spindle bore		mm	CDS-B Φ82/CDS-CΦ105			
Taper of spindle bore			CDS-B Metric 90(1:20)/CDS-C Metric 110(1:20)			
Chuck size		mm	CDS-B Φ250/CDS-C Φ315		Φ315	
Max. Spindle torque		Nm	1100			
Spindle speed ranges		rpm	CDS-B 26-2000 (16 Speeds) / CDS-C 26-1700 (16 Speeds)			
Spindle centre height		mm	250		325	
Spindle motor power		kW	7.5 (10 HP)			
Tailstock						
Diameter of tailstock quill		mm	Φ75			
Travel of tailstock quill		mm	150			
Taper of tailstock quill			No.5 MT			
Feeds&Threads (metric screw *inch screw)						
Longitudinal feed		mm/r	0.044~1.48 (45 Kinds) ; *0.044~0.148 in/rpm (45 Kinds)			
Cross feed		mm/r	0.022~0.74 (45 Kinds) ; *0.031 ~ 0.092 in/rpm (45 Kinds)			
Metric threads		mm	0.5~80 (73 Kinds *53 Kinds)			
Modular threads		mm	0.5~40 (45 Kinds *66 Kinds)			
Inch threads		TPI	7/16~80 (47 Kinds *47 Kinds)			
Diametral pitch threads		DP	7/8~160 (47 Kinds *48 Kinds)			
Tool post						
Max. tool shank size		mm	25×25			
Travel of top slide		mm	150			
Swivel angle of top slide		°	±45°			
Max. Travel of Tool post	X-axis	mm	315		340	
	Z-axis	mm	950/1450/1950/2950		950/1450/1950/2950	
Machine dimensions(L×W×H)		mm	2930×1223×1295 (1000)		2930×1223×1370 (1000)	
			3430×1223×1295 (1500)		3430×1223×1370 (1500)	
			3930×1223×1295 (2000)		3930×1223×1370 (2000)	
			4930×1223×1295 (3000)		4930×1223×1370 (3000)	
Machine weight		kg	2120/2170/2420/2620/3120		2400/2500/2700/2900/3400	

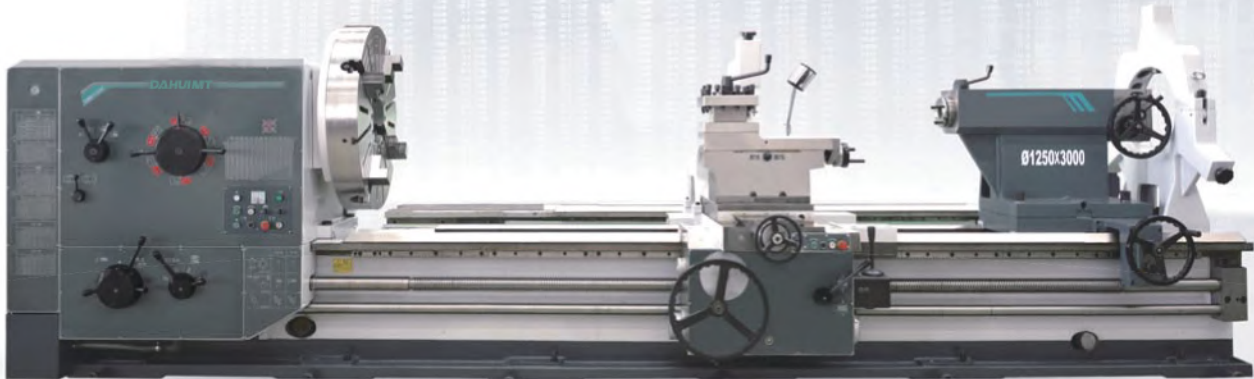
Standard accessories

- 3-Jaw chuck
- Chuck guard
- Fixed center of tailstock
- Stead rest & Follow rest(≥1500mm-standard 1000mm-option)
- 4-way tool post
- Tool post guard
- Standard toolkit & Oil gun
- Rear splash guard
- Foot brake

Optional

- 4-Jaw chuck
- Live center of tailstock
- Thread dial
- Electromagnetic brake
- 11Kw spindle motor
- Anti-vibration/Adjustable pads
- Quick-change tool post
- Face plate
- Drive Plate
- DRO
- Carriage stop
- Spindle center and center sleeve
- Large-sized Steady rest&Follow r
- Electromagnetic clutch
- Taper-turning attachment
- Gear for special thread(Metric machi

Conventional Lathe CW-E Series



Specification	Unit	CW6263E	CW6280E	CW62100E
Max.Swing diameter over bed	mm	Φ630	Φ800	Φ1000
Max.Swing diameter over cross slide	mm	Φ350	Φ480	Φ710
Max.Swing diameter in gap	mm	Φ800	Φ1000	Φ1230
Length in gap	mm	350	350	350
Max. workpiece length	mm	1000/1500/2000/3000/4000/5000/6000		
Max.cutting length	mm	600/1100/1600/2600/3600/4600/5600		
Bed guideway width	mm	550		
Spindle				
Spindle nose		C11 *D11		
Spindle bore	mm	Φ100(C11) *Φ105(D11) Opt:Φ130 (C11/D11)		
Chuck size	mm	Φ315	Φ400	Φ400
Taper of spindle bore		Metric 120(1:20) Opt:Φ130-Metric 140(1:20)		
Max. Spindle torque	Nm	2400		
Spindle speed ranges	rpm	7.5-1000(18 Speeds)		
Spindle centre height	mm	315	400	515
Spindle motor power	kW	11kW (1460rpm/50HZ) Opt:15kW (1460rpm/50HZ)		
Tailstock				
Diameter of tailstock quill	mm	Φ100		
Travel of tailstock quill	mm	250		
Taper of tailstock quill		No.6 MT		
Feeds&Threads (metric screw *inch screw)				
Longitudinal feed(metric screw)	mm/r	64 Speeds 1/1 0.1~1.52 ; 16/1 1.6~24.3		
Longitudinal feed(inch screw)	in/r	64 Speeds *1/1 0.0019~0.0612 ; *16/1 0.0305~0.98		
Cross feed	mm/r	1/2 times of the longitudinal feed		
Metric threads(Metric screw)	mm	0.5~240 (52 Kinds)	1~240 (50 Kinds)	0.5~240 (52 Kinds)
Metric threads(Inch screw)	mm	1~256 (57 Kinds)	1~256 (57 Kinds)	1~256 (57 Kinds)
Modular threads	mm	0.5~120(53 Kinds) *0.5~128(57 Kinds)		
Inch threads	TPI	28~1(34 Kinds) *32~1/16(67 Kinds)	14~1(26 Kinds) *32~1/16(67 Kinds)	28~1(34 Kinds) *32~1/16(67 Kinds)
Diametral pitch threads	DP	28~1(24 Kinds) *32~1/8(57 Kinds)		
Tool post				
Max.Tool shank size	mm	30×30		
Travel of top slide	mm	200		
Swivel angle of top slide	°	±90°		
Machine dimensions(L×W×H)	mm	3180×1340×1830(1000) 3630×1340×1830(1500) 4230×1340×1830(2000) 5130×1340×1830(3000) 6040×1430×1830(4000) 7120×1430×1830(5000) 8240×1430×1830(6000)	3180×1380×1830(1000) 3630×1380×1830(1500) 4230×1380×1830(2000) 5130×1380×1830(3000) 6040×1470×1830(4000) 7120×1470×1830(5000) 8240×1470×1830(6000)	3180×1460×1830(1000) 3630×1460×1830(1500) 4230×1460×1830(2000) 5130×1460×1830(3000) 6040×1550×1830(4000) 7120×1550×1830(5000) 8240×1550×1830(6000)
Machine weight	kg	4050/4350/4650/5150/ 5950/6650/7450	4250/4550/4850/5350/ 6650/7300/7850	4500/4800/5100/5600/ 6950/7450

*opt:inch screw

Standard accessories

- 3-Jaw chuck
- Chuck guard
- Wedge block
- Steady rest & Follow rest(≥3000-Standard <3000mm-Option)
- 4-way tool post
- Tool post guard
- Standard toolkit & Oil gun

Optional

- 4-Jaw chuck
- Quick-change tool post
- Spindle center and center sleeve
- Face plate
- Taper-turning attachment
- Diameter of spindle bore Ø130
- 15kW spindle motor
- Foot brake(1m~3m Available)
- Rear splash guard
- Live center of tailstock
- Thread dial
- DRO
- Large-sized steady rest
- Anti-vibration/Adjustable pads

Conventional Lathe CW-M Series



Specification	Unit	CW61100M	CW62100M	CW61125M	CW62125M	CW61140M	CW62140M	CW61160M	CW62160M
Max.Swing diameter over bed	mm	Φ1000		Φ1250		Φ1400		Φ1600	
Max.Swing diameter over cross slide	mm	Φ630		Φ880		Φ1030		Φ1230	
Max.Swing diameter in gap	mm	—	Φ1400	—	Φ1650	—	Φ1800	—	Φ2000
Length in gap	mm	—	772	—	772	—	772	—	772
Max. workpiece length	mm	1500/2000/3000/4000/5000/6000/(8000 CW61xxxM)							
Max.cutting length	mm	1300/1800/2800/3800/4800/5800/(7800 CW61xxxM)							
Max. workpiece weight	kg	6000(Opt: 8000 10000)							
Bed guideway width	mm	755							
Spindle									
Spindle nose		A2-15							
Spindle bore	mm	Φ130							
Chuck size	mm	Φ1000		Φ1000		Φ1250		Φ1600	
Taper of spindle bore		Metric 140(1:20) (With No.6MT Reducing sleeve)							
Max. Spindle torque	Nm	10.5 kNm (22kW) Opt:12.5kNm (30 kW)							
Spindle speed ranges	rpm	3.15-315(21 Speeds) (Reversal 4.5 ~ 390 12Speeds)							
Spindle centre height	mm	500		625		700		800	
Spindle motor power	kW	22 Opt:30							
Tailstock									
Diameter of tailstock quill	mm	Φ160 (Max. workpiece weight 6T) ; Opt: Φ200 Max. workpiece weight 8T , Φ240 Max. workpiece weight 10T							
Travel of tailstock quill	mm	300							
Taper of tailstock quill	mm	Metric 80(With No.6MT Reducing sleeve) Opt:No.6 MT (Φ200&240)							
Feeds&Threads (metric screw ; *inch screw)									
Longitudinal feed	mm/r	0.1~12 (56 Kinds) ; * 0.0032 ~ 0.40 in/rpm (56 Kinds)							
Cross feed	mm/r	0.05~6 (56 Kinds); * 0.0016 ~ 0.20 in/rpm (56 Kinds)							
Metric threads	mm	1~120 (52 Kinds); * 1~120 (52 Kinds)							
Modular threads	mm	0.5~60 (46 Kinds); * 0.5~60 (46 Kinds)							
Inch threads	TPI	1/4~30 (43 Kinds); * 1/4~30 (43 Kinds)							
Diametral pitch threads	DP	1/2~60 (49 Kinds); * 1/2~60 (49 Kinds)							
Tool post									
Tool shank size	mm	45×45							
Travel of top slide	mm	300							
Machine dimensions(L×W×H)	mm	4450×1855×1890(1500) 4950×1855×1890(2000) 5950×1855×1890(3000) 6950×1855×1890(4000) 7950×1855×1890(5000) 8950×1855×1890(6000) 10950×1855×1890(8000)		4450×1955×2015(1500) 4950×1955×2015(2000) 5950×1955×2015(3000) 6950×1955×2015(4000) 7950×1955×2015(5000) 8950×1955×2015(6000) 10950×1955×2015(8000)		4450×2010×2165(1500) 4950×2010×2165(2000) 5950×2010×2165(3000) 6950×2010×2165(4000) 7950×2010×2165(5000) 8950×2010×2165(6000) 10950×2010×2165(8000)		4450×2110×2355(1500) 4950×2110×2355(2000) 5950×2110×2355(3000) 6950×2110×2355(4000) 7950×2110×2355(5000) 8950×2110×2355(6000) 10950×2110×2355(8000)	
Machine weight	kg	9650/10100/11000/ 11900/12800/13700/15500		10650/11100/12000/ 12900/13800/14700/16500		11350/11800/12700/ 13600/14500/15400/17200		12050/12500/13400/ 14300/15200/16100/17900	

*opt:inch screw

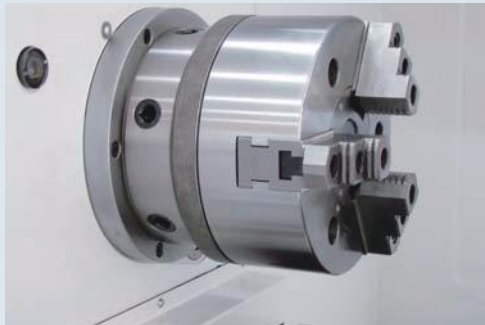
Standard accessories

- 4-Jaw chuck
- Live&fixed center of tailstock
- Tool post guard
- Anchor bolt
- Steady rest & Follow rest (≥3000-Standard <3000mm-Option)
- 4-way tool post
- Spindle center and center sleeve
- Chuck guard
- Standard toolkit & Oil gun

Optional

- Thread dial
- 30kW spindle motor
- Large-sized steady rest
- Heavy duty tailstock
- Anti-vibration/Adjustable pads
- Quick-change tool post
- DRO
- Electrical tailstock
- Roller device

Flat Bed CNC Lathe
Gear Box Spindle Series



Specification		Unit	CKE6136	CKE6140	CKD6150	CKE6150	CKE6166	CKE6163	CKE6180	CKE61100
Max. swing diameter over bed		mm	Φ360	Φ400	Φ500	Φ500	Φ660	Φ630	Φ800	Φ1000
Max. swing diameter over cross slide		mm	Φ180	Φ200	Φ280	Φ280	Φ430	Φ320	Φ490	Φ700
Max. workpiece length		mm	750/1000	750/1000	750/1000/1500/2000			1000/1500/2000/3000/4000/5000		1000/1500
Max. cutting length		mm	580/830	580/830	680/930/1430/1930			795/1245/1845/2745/3785/4745 (Vertical 4-position) 690/1140/2740/2640/3680/4640 (Horizontal 6-position)		795 / 1245 (Vertical 4-position) 690 / 1140 (Horizontal 6-position)
Max. turning diameter	Vertical 4-position	mm	Φ360	Φ400	Φ500	Φ500	Φ560	Φ630	Φ800	Φ800
	Opt:Horizontal 6-position	mm	Φ300	Φ300	Φ400	Φ400	Φ400	Φ620	Φ620	Φ620
	Opt:Horizontal 8-position	mm	—	—	—	Φ370	Φ370	Φ620	Φ620	Φ620
Spindle center height		mm	186	200	250	250	330	315	400	515
Bed guideway width		mm	300	300	400	400	400	550	550	550
Spindle										
Spindle motor power		kW	5.5	5.5	7.5/11	7.5/11	7.5/11	11		
Spindle bore		mm	Φ52	Φ52	Φ82	Φ82	Φ82	Φ100		
Chuck size		mm	Φ205	Φ205	Φ250	Φ250	Φ315	Φ315	Φ400	Φ500
Taper of spindle bore			MT 6	MT 6	Front end Φ90 1:20			Front end Φ120 1:20		
Type of spindle nose			A ₂ -6	A ₂ -6	C8	D8		C11		
Spindle speed ranges		r/min	*20~2500 2 range manual(auto)	*20~2500 2 range manual(auto)	*7 ~ 1600 3 range manual	*7~2200 3 range manual(auto)		10~1000(inverter-driven motor) 4 range manual(auto)		
Tailstock										
Tailstock quill diameter		mm	Φ63	Φ63	Φ75			Φ100		
Tailstock quill travel		mm	140	140	150			240		
Tailstock quill taper			No.4 MT	No.4 MT	No.5 MT			No.6 MT		
Travel										
Max. travel of X-axis		mm	230	240	280	280	305	320	400	400
Max. travel of Z-axis		mm	580/830	580/830	685/935/1435/1935			800/ 1250/1850/2750/3790/4750		800/1250
Rapid traverse of X/Z axis		m/min	4/6	4/6	4/8(750、1000、1500) (4/6 2000)			4/7.5(1000、1500、2000)、 4/4(3000)、4/3.5(4000、5000)		
Tool post										
Tool shank size (Vertical 4-position)		mm	20×20	20×20	25×25			32×25		
Accuracy										
X/Z axis positioning accuracy		mm	0.018/ 0.021(750) 0.024(1000)	0.018/ 0.021(750) 0.024(1000)	0.018/0.021(750) 0.024(1000)、0.026(1500、2000)			0.018/0.024(1000) 0.026(1500、2000) 0.030(3000、4000、5000)		0.018/ 0.024(1000) 0.026(1500)
X/Z axis repeatability accuracy		mm	0.006/ 0.008(750) 0.011(1000)	0.006/ 0.008(750) 0.011(1000)	0.006/0.008(750) 0.011(1000)、0.014(1500、2000)			0.006/0.011(1000) 0.014(1500、2000、3000、4000、5000)		0.006/ 0.011(1000) 0.014(1500)
General										
Machine dimensions(L×W×H)		mm	2300×1480×1520(750) 2550×1480×1520(1000)	2300×1480×1520(750) 2550×1480×1520(1000)	2580×1750×1620(750) 2830×1750×1620(1000) 3330×1750×1620(1500) 3830×1750×1620(2000)			3455×2020×1805(1000) 3905×2020×1805(1500) 4505×2020×1805(2000) 5405×2020×1805(3000) 6455×2020×1805(4000) 7535×2020×1805(5000)		3455×2020×2000 (1000) 3905×2020×2000 (1500)
Machine weight		kg	1800(750) 1900(1000)	1850(750) 1950(1000)	2550 (750) 2600 (1000) 2700 (1500) 2800 (2000)	2700/2750/ 2850/2950	4800/5100/5600/ 5900/7100/8100	5300/5600/6100/ 6400/7600/8600	5600/6000	

* Standard servo motor

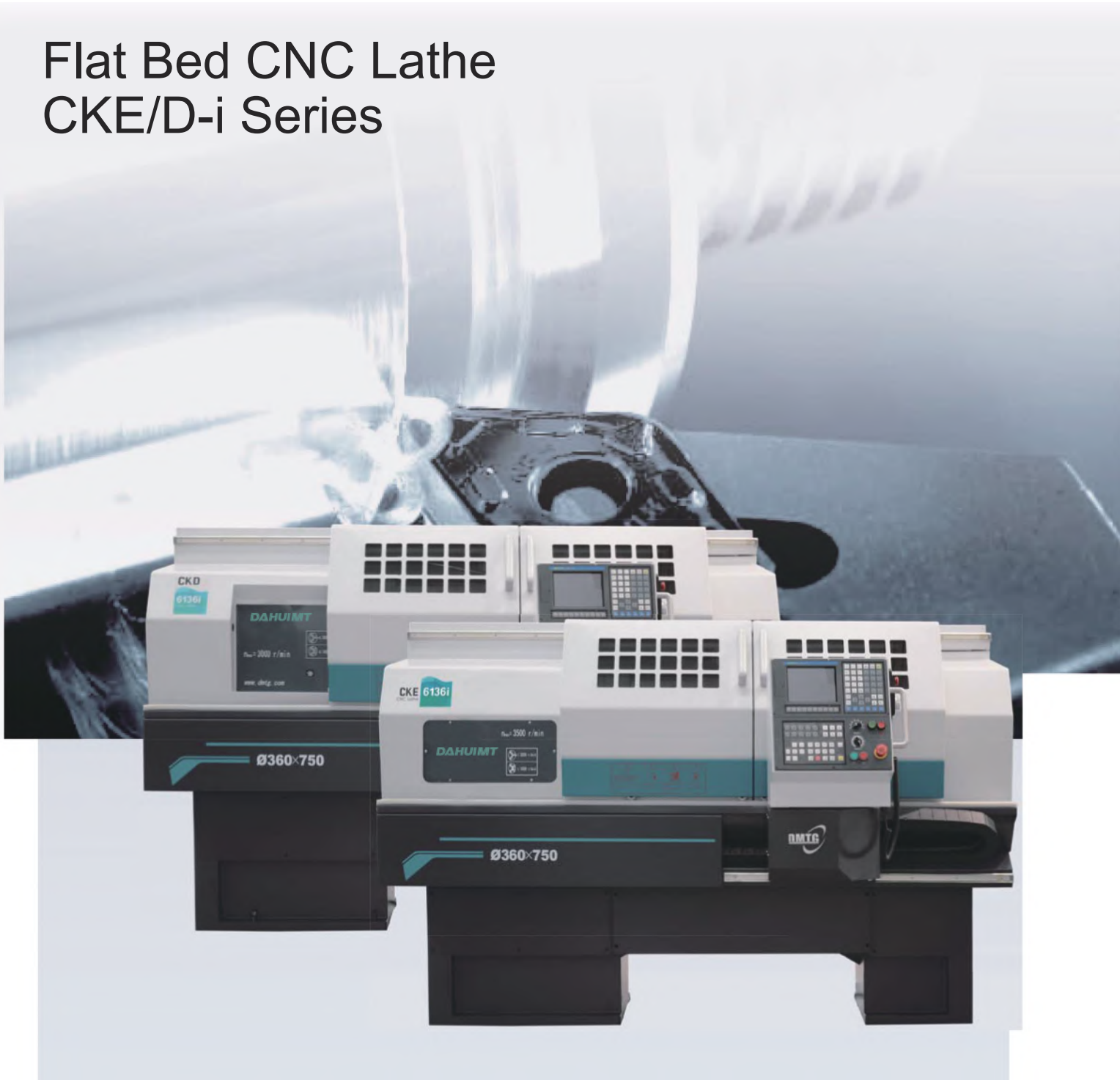
Standard configurations

- 3-Jaw manual chuck
- Manual tailstock
- Servo spindle motor(CKD6150,CKE6136/6140/6150 Series)
- Frequency spindle motor(CKE6163/6180/61100 Series)
- FANUC Oi-TF(5) system
- Vertical 4-position turret
- Heat exchanger

Optional

- 4-Jaw manual chuck
- Horizontal 6-position turret
- Hydraulic tailstock
- Follow rest
- GSK/Siemens system
- Frequency spindle motor(CKD6150,CKE6136/6140/6150 Series)
- Servo spindle motor(CKE6163/6180/61100 Series)
- Hydraulic chuck
- Horizontal 8-position turret
- Hydraulic station
- Steady rest
- Air conditioner

Flat Bed CNC Lathe
CKE/D-i Series

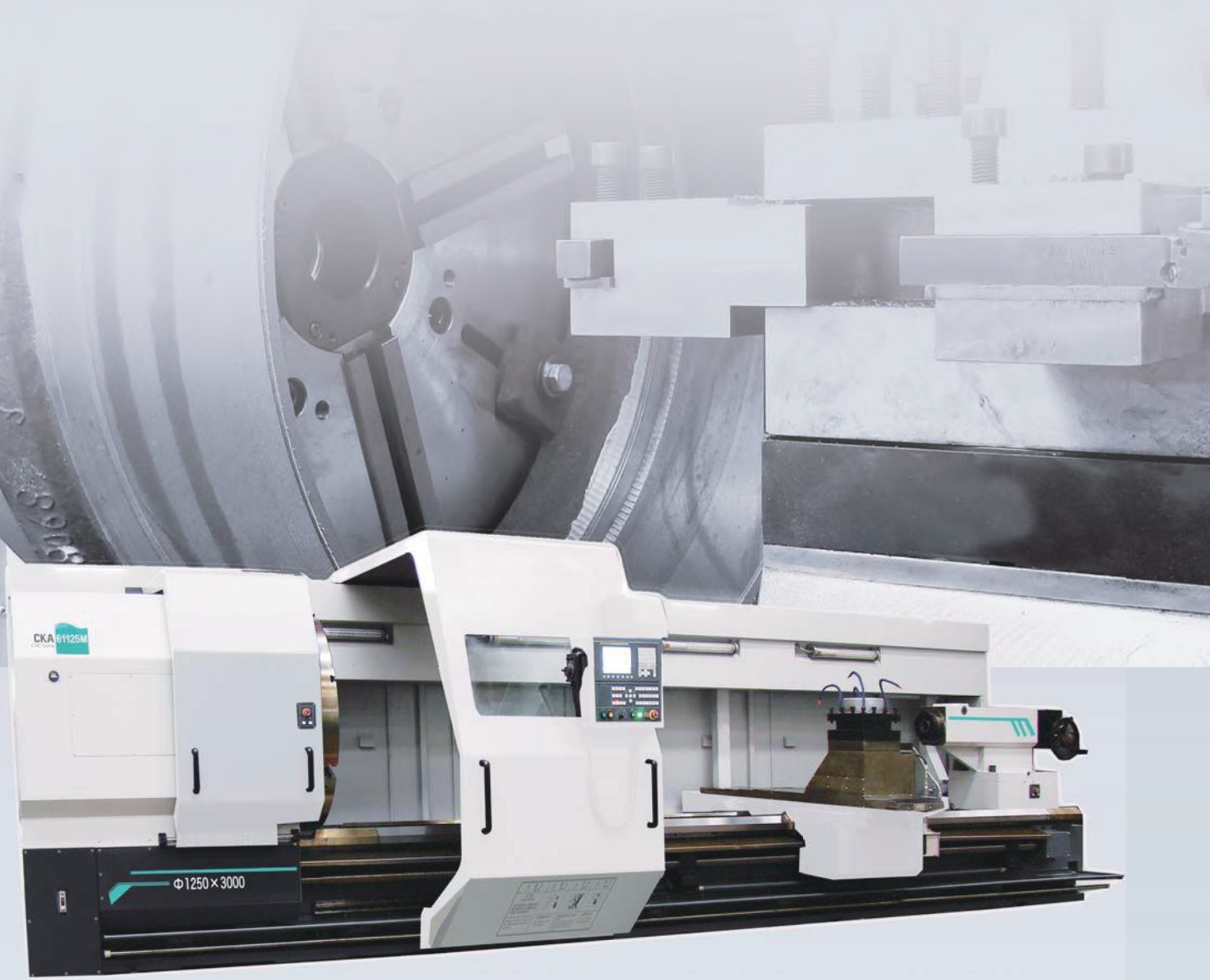


Specification		Unit	CKD6136i	CKE6136i	CKD6140i	CKE6140i	CKE6150i
Max. swing diameter over bed		mm	Φ360	Φ360	Φ400	Φ400	Φ500
Max. swing diameter over cross slide		mm	Φ180	Φ180	Φ200	Φ200	Φ280
Max. workpiece length		mm	750/1000	750/1000	750/1000	750/1000	750/1000
Max. cutting length		mm	580/830	580/830	580/830	580/830	680/930
Max. turning diameter	Vertical 4-position	mm	Φ360	Φ360	Φ400	Φ400	Φ500
	Opt:Horizontal 6-position	mm	Φ300	Φ300	Φ300	Φ300	Φ400
	Opt:Horizontal 8-position	mm	—	—	—	—	Φ370
Spindle center height		mm	186	186	200	200	250
Bed guideway width		mm	300	300	300	300	400
Spindle							
Spindle motor power		kW	5.5	5.5	5.5	5.5	11/15
Spindle bore		mm	Φ52	Φ40	Φ52	Φ40	Φ82
Chuck size		mm	Φ205	Φ165	Φ205	Φ165	Φ254
Taper of spindle bore			No.6 MT	No.5 MT	No.6 MT	No.5 MT	Metric 100 (1:20)
Type of spindle nose			A ₂ -6	A ₂ -5	A ₂ -6	A ₂ -5	A ₂ -8
Spindle speed ranges		r/min	20 ~ 3000 Gear box spindle	200~3500 Single spindle	20 ~ 3000 Gear box spindle	200~3500 Single spindle	30~3000 Single spindle
Tailstock							
Tailstock quill diameter		mm	Φ63	Φ63	Φ63	Φ63	Φ75
Tailstock quill travel		mm	140	140	140	140	150
Tailstock quill taper			No.4 MT	No.4 MT	No.4 MT	No.4 MT	No.5 MT
Travel							
Max. travel of X-axis		mm	230	230	240	240	280
Max. travel of Z-axis		mm	580/830	580/830	580/830	580/830	685/935
Rapid traverse of X/Z axis		m/min	4/6	4/6	4/6	4/6	4/8
Tool post							
Tool shank size (Vertical 4-positon)		mm	20×20	20×20	20×20	20×20	25×25
Accuracy							
X/Z axis positioning accuracy		mm	0.018/ 0.021(750) 0.024(1000)	0.018/ 0.021(750) 0.024(1000)	0.018/ 0.021(750) 0.024(1000)	0.018/ 0.021(750) 0.024(1000)	0.018/ 0.021(750) 0.024(1000)
X/Z axis repeatability accuracy		mm	0.006/ 0.008(750) 0.011(1000)	0.006/ 0.008(750) 0.011(1000)	0.006/ 0.008(750) 0.011(1000)	0.006/ 0.008(750) 0.011(1000)	0.006/ 0.008(750) 0.011(1000)
General							
Machine dimensions(L×W×H)		mm	2300×1480×1520(750) 2550×1480×1520(1000)	2300×1480×1520(750) 2550×1480×1520(1000)	2300×1480×1520(750) 2550×1480×1520(1000)	2300×1480×1520(750) 2550×1480×1520(1000)	2580×1750×1620(750) 2830×1750×1620(1000)
Machine weight		kg	1800(750) 1900(1000)	1800(750) 1900(1000)	1850(750) 1950(1000)	1850(750) 1950(1000)	2550/2600

- Standard configurations
- Servo spindle motor
 - FANUC Oi-TF(5) system
 - 3-Jaw manual chuck
 - Vertical 4-position turret
 - Manual tailstock

- Optional
- Frequency spindle motor
 - GSK/Siemens system
 - 4-Jaw manual chuck
 - Steady rest
 - Horizontal 6-position turret
 - Hydraulic chuck
 - Hydraulic tailstock
 - Hydraulic station
 - Follow rest
 - Horizontal 8-position turret(CKE6150i)

Flat Bed CNC Lathe CKA-M Series

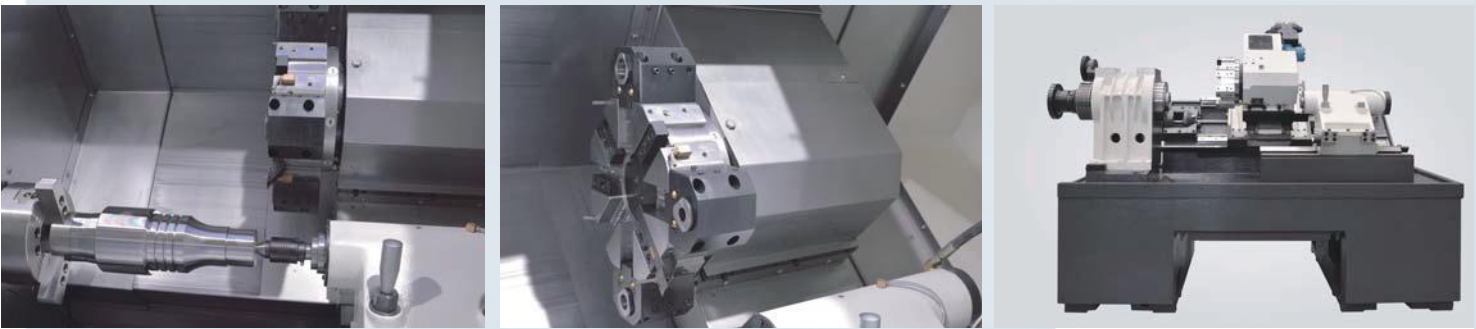


Specification		Unit	CKA61100M	CKA61125M
Max.swing diameter over bed		mm	Φ1000	Φ1250
Max. swing diameter over cross slide		mm	Φ630	Φ880
Max. workpiece length		mm	1500、2000、3000、4000、5000、6000	
Max. cutting length		mm	1400、1900、2900、3900、4900、5900	
Max. turning diameter	Vertical 4-position	mm	Φ1000	Φ1250
	Opt:Horizontal 8-position	mm	Φ700	Φ950
Spindle center height		mm	500	625
Bed guideway width		mm	755	755
Spindle				
Spindle motor power (Servo motor)		kW	22/26 (FANUC)	
Spindle bore		mm	Φ130	
Chuck size		mm	Φ1000	Φ1250
Taper of spindle bore			Front end Φ140mm 1:20	
Type of spindle nose			A ₂ -15	
Spindle speed ranges		r/min	2~500 (L 2~87、M 5~201、H 11~500)	
Spindle speed ranges(with chuck)		r/min	2~315	2~280
Tailstock				
Tailstock quill diameter		mm	Φ200	
Tailstock quill travel		mm	300	
Tailstock quill taper			No 6 MT	
Travel				
Max. travel of X-axis		mm	520	640
Max. travel of Z-axis		mm	1500、2000、3000、4000、5000、6000	
Rapid traverse of X/Z axis		m/min	6/8	
Tool post				
Tool shank size (Vertical 4-positon)		mm	40×40	
Accuracy				
X/Z axis positioning accuracy		mm	0.021/0.026 (1500、2000)、0.03 (3000、4000、5000、6000)	
X/Z axis repeatability accuracy		mm	0.008/0.014 (1500、2000、3000、4000、5000、6000)	
General				
Machine dimensions(L×W×H)		mm	6320×2300×2200(1500) 6820×2300×2200(2000) 7820×2300×2200(3000) 8820×2300×2200(4000) 9820×2300×2200(5000) 10820×2300×2200(6000)	6320×2520×2300(1500) 6820×2520×2300(2000) 7820×2520×2300(3000) 8820×2520×2300(4000) 9820×2520×2300(5000) 10820×2520×2300(6000)
Machine weight		t	13.5/14/15/16/17/18	14.5/15/16/17/18/19

- Standard configurations
- Servo spindle motor
 - FANUC Oi-TF(1) system
 - 4-Jaw manual chuck
 - Vertical 4-position turret
 - Manual tailstock(≤4000mm),Electric tailstock(>4000)
 - Chip conveyor
 - Heat exchanger

- Optional
- Siemens/FANUC Oi-TF(5) system
 - Horizontal 8-position turret
 - Steady rest
 - Follow rest
 - Air conditioner

Slant Bed CNC Lathe CL Series



Specification		Unit	CL-15		CL-20A	
Max. swing diameter over bed		mm	Φ400		Φ440	
Max. turning diameter	Shaft parts	mm	Φ165		Φ260	
	Disc parts	mm	Φ200		Φ300	
Max. turning length		mm	250/330	230/310	450	430
Guideway type			Linear guideway			
Spindle						
Chuck size			6”	8”	8”	10”
Type of spindle nose			A2-5	A2-6	A2-6	A2-8
Spindle speed range		rpm	50 ~ 5000	45 ~ 4500	45 ~ 4500	35 ~ 3500
Spindle motor power		KW	7.5/11 FANUC 0i-TF(5)		11/15 FANUC 0i-TF(5)	
Spindle bore		mm	Φ46	Φ62	Φ62	Φ87
Max. bar capacity (Equipped with through-hole hydraulic chuck)		mm	Φ31	Φ51	Φ51	Φ74
Travel						
Max. travel of X/Z axis		mm	120/260、340	120/240、320	165/500	
Rapid traverse of X/Z axis		m/min	20/24		20/24	
Cutting feed rate		mm/min	0 ~ 5000		0 ~ 5000	
Tool post						
Turret type and tool numbers			Hydraulic 8-position turret		Hydraulic 8-position turret (Opt:12-position turret)	
Tool shank size		mm	20×20		25×25	
Indexing time(adjacent/farthest)		s	0.5/1.4		0.45/1.2 (0.45/1.45 12-position turret)	
Tailstock						
Max. travel of tailstock			300		460	
Diameter of tailstock quill			Φ80		Φ80	
Tailstock quill stroke		mm	130		130	
Taper of tailstock			MT. 4		MT. 4	
Accuracy						
X/Z axis positioning accuracy		mm	0.011/0.011		0.011/0.011	
X/Z axis repeatability accuracy		mm	0.004/0.004		0.004/0.004	
Controller						
CNC Controller			FANUC 0i-TF			
General						
Machine dimensions(L×W×H)		mm	2420×2095×2052 (Rear chip conveyor) 3720×1525×2052 (Side chip conveyor)		2850×2920×1760 (Rear chip conveyor) 4150×1620×1760 (Side chip conveyor)	
Machine weight		kg	3000		4000	

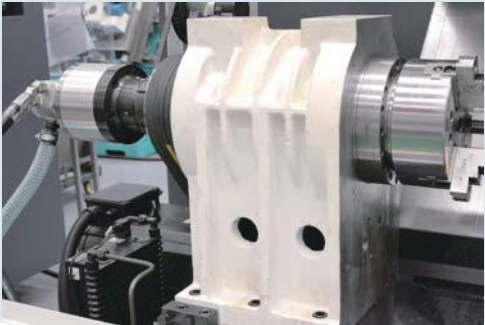
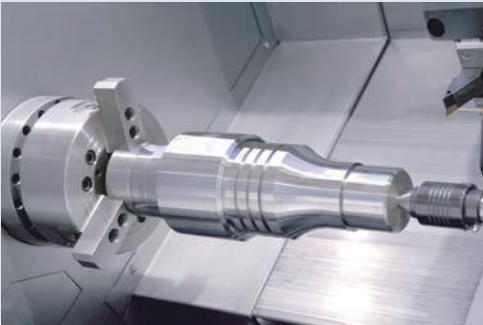
Standard configurations

- Hydraulic 8-position turret
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Chip conveyor
- Automatic lubrication system
- Standard toolkit

Optional

- SIEMENS 828Dsl or GSK 988T controller
- Electric servo turret
- High-flow water pump
- METRAL and RENISHAW tool presetter
- Air conditioner
- TAIWAN through-hole hydraulic chuck and cylinder
- Bar feeder and parts catcher
- Automatic door
- Door inter-lock

Slant Bed CNC Lathe CLS Series



Specification		Unit	CLS-15		CLS-20	
Max. swing diameter over bed		mm	Φ400		Φ440	
Max. turning diameter	Shaft parts	mm	Φ165		Φ260	
	Disc parts	mm	Φ200		Φ300	
Max. turning length		mm	300	280	450	430
Guideway type			Linear guideway			
Spindle						
Chuck size			6”	8”	8”	10”
Type of spindle nose			A2-5	A2-6	A2-6	A2-8
Spindle speed range		rpm	50 ~ 5000	45 ~ 4500	45 ~ 4500	35 ~ 3500
Spindle motor power		KW	7.5/11 FANUC 0i-TF(5)		11/15 FANUC 0i-TF(5)	
Spindle bore		mm	Φ46	Φ62	Φ62	Φ87
Max. bar capacity (Equipped with through-hole hydraulic chuck)		mm	Φ31	Φ51	Φ51	Φ74
Travel						
Max. travel of X/Z axis		mm	120/310		165/500	
Rapid traverse of X/Z axis		m/min	20/24		20/24	
Cutting feed rate		mm/min	0 ~ 5000		0 ~ 5000	
Tool post						
Turret type and tool numbers			Hydraulic 8-position turret		Hydraulic 8-position turret (Opt:12-position turret)	
Tool shank size		mm	20×20		25×25	
Indexing time(adjacent/farthest)		s	0.5/1.4		0.45/1.2 (0.45/1.45 12-position turret)	
Tailstock						
Max. travel of tailstock			300		460	
Diameter of tailstock quill			Φ80		Φ80	
Tailstock quill stroke		mm	130		130	
Taper of tailstock			MT. 4		MT. 4	
Accuracy						
X/Z axis positioning accuracy		mm	0.011/0.011		0.011/0.011	
X/Z axis repeatability accuracy		mm	0.004/0.004		0.004/0.004	
Controller						
CNC Controller			FANUC 0i-TF(5)			
General						
Machine dimensions(L×W×H)		mm	2420×2095×2052 (Rear chip conveyor) 3720×1525×2052 (Side chip conveyor)		2850×2920×1760 (Rear chip conveyor) 4150×1620×1760 (Side chip conveyor)	
Machine weight		kg	3000		4000	

Standard configurations

- Hydraulic 8-position turret
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Chip conveyor
- Automatic lubrication system
- Standard toolkit

Optional

- SIEMENS 828Dsl or GSK 988T controller
- Electric servo turret
- High-flow water pump
- METRAL and RENISHAW tool presetter
- Air conditioner
- TAIWAN through-hole hydraulic chuck and cylinder
- Bar feeder and parts catcher
- Automatic door
- Door inter-lock

Slant Bed CNC Lathe

DT-16/Z Series



Specification	Unit	DT-16	DT-16Z
Max. swing diameter over bed	mm	Φ485	
Max. turning diameter(Shaft/Disc)	mm	Φ160/Φ230	
Max .turning length	mm	300	
Guideway type		Linear guideway	
Spindle			
Chuck size	inch	6	
Type of spindle nose		A ₂ -5	
Spindle speed range	rpm	45~5500	
Spindle bore	mm	Φ58	
Max. bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ45	
Spindle motor power	kW	3.5/5.5	
Travel			
Max Cross travel of X(Y) axis	mm	475(160)	
Max Cross travel of Z axis	mm	345 (When installing the power milling head 300)	
Rapid traverse of X(Y)/Z axis	m/min	24(18)/24	
Tool post			
Turret type and tool numbers		Gang tooling Axial 2 + Radial 2	
Tool shank size	mm	20×20	
Indexing time(adjacent/farthest)	s	—	
Accuracy			
X(Y)/Z(C) axis positioning accuracy	mm	0.01(0.01)/0.01 (C:27")	
X(Y)/Z(C) axis repeatability accuracy	mm	0.004(0.004)/0.004 (C:36")	
Controller			
CNC Controller		Mitsubishi M80	
General			
Loading and unloading mechanism of truss		—	Standard
Machine dimensions(L×W×H) Rear chip conveyor	mm	2169×1779×1632	
Machine weight	kg	2500	

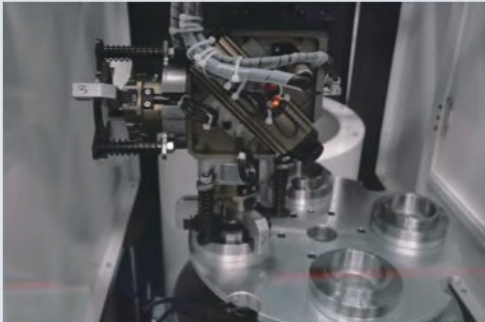
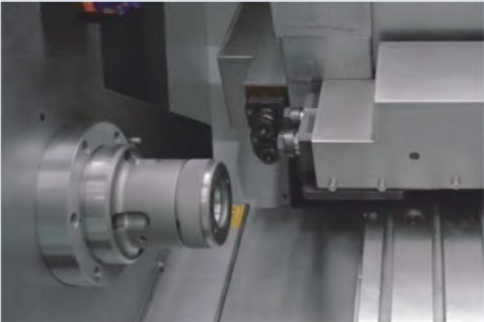
Standard configurations

- Gang tooling
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN through-hole hydraulic chuck
- Heat exchanger
- Automatic lubrication system
- Standard toolkit

Optional

- Power milling head
- Y axis
- Air conditioner
- Bar feeder and parts catcher

Slant Bed CNC Lathe
DT-16/Z Series

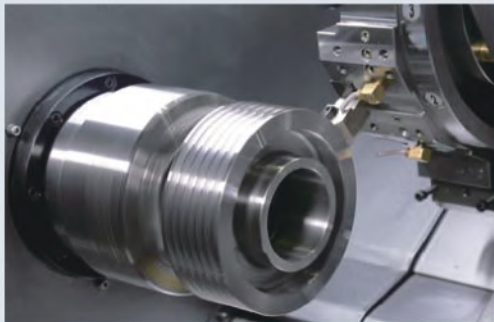


Specification	Unit	DT-16	DT-16Z
Max. swing diameter over bed	mm	Φ485	
Max. turning diameter(Shaft/Disc)	mm	Φ160/Φ230	
Max .turning length	mm	300	
Guideway type		Linear guideway	
Spindle			
Chuck size	inch	6	
Type of spindle nose		A ₂ -5	
Spindle speed range	rpm	45~5500	
Spindle bore	mm	Φ58	
Max. bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ45	
Spindle motor power	kW	3.5/5.5	
Travel			
Max Cross travel of X(Y) axis	mm	475(160)	
Max Cross travel of Z axis	mm	345 (When installing the power milling head 300)	
Rapid traverse of X(Y)/Z axis	m/min	24(18)/24	
Tool post			
Turret type and tool numbers		Gang tooling Axial 2 + Radial 2	
Tool shank size	mm	20×20	
Indexing time(adjacent/farthest)	s	—	
Accuracy			
X(Y)/Z(C) axis positioning accuracy	mm	0.01(0.01)/0.01 (C:27")	
X(Y)/Z(C) axis repeatability accuracy	mm	0.004(0.004)/0.004 (C:36")	
Controller			
CNC Controller		Mitsubishi M80	
General			
Loading and unloading mechanism of truss		—	Standard
Machine dimensions(L×W×H) Rear chip conveyor	mm	2169×1779×1632	
Machine weight	kg	2500	

- Standard configurations
- Gang tooling
 - NSK spindle bearings and X/Z axis bearings
 - X/Z THK ball screws & THK linear guideways
 - TAIWAN through-hole hydraulic chuck
 - Heat exchanger
 - Automatic lubrication system
 - Standard toolkit

- Optional
- Power milling head
 - Y axis
 - Air conditioner
 - Bar feeder and parts catcher

Slant Bed CNC Lathe
DT Series



Specification	Unit	DT-30	DT-30H	DT-40	DT-40H	DT-50	DT-50H	DT-50HS
Max. swing diameter over bed	mm	Φ480		Φ580		Φ680		
Max. turning diameter (Shaft/Disc)	mm	Φ280/Φ300	Φ280/Φ300	Φ360/Φ400	Φ350/Φ350	Φ460/Φ500	Φ450/Φ450	Φ440/Φ440
Max. turning length	mm	300/500	300	585/1085	555/1055	580/1080	555/1055	440/940
Guideway type		Linear guideway		Linear guideway		Linear guideway		Linear guideway
Spindle								
Chuck size	inch	6		8		10		
Type of spindle nose		A ₂ -5		A ₂ -6		A ₂ -8		
Spindle speed range	rpm	5000		4000		3500	3500	3500 4000(sub-spindle)
Spindle bore	mm	Φ63		Φ70		Φ87		
Max.bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ45		Φ51		Φ73		
Spindle motor power	kW	7.5/11		11/15		15/18.5		7.5/15(Low) 11/18.5(High)
Travel								
Max. travel of X axis	mm	155	170	215		265		
Max. travel of Z axis	mm	300/500	300	600/1100	555/1055	600/1100	555/1055	460/960
Rapid traverse of X/Z axis	m/min	30/30		30/30		30/30		
Tool post								
Turret type and tool numbers		Hydraulic 12-position turret	Live tooling 12-position turret	Hydraulic 12-position turret	Live tooling 12-position turret	Hydraulic 12-position turret	Live tooling 12-position turret	Live tooling 12-position turret
Tool shank size	mm	25×25	20×20	25×25		25×25		
Indexing time(adjacent/farthest)	s	0.35/1.6	0.23/0.6	0.45/1.45	0.31/0.78	0.45/1.45	0.31/0.78	0.31/0.78
Tailstock								
Diameter of tailstock quill	mm	Φ70		Φ85		Φ85		Sub-spindle
Tailstock quill stroke	mm	120		140		140		
Accuracy								
X/Z(C) axis positioning accuracy	mm	0.005/0.005	0.005/0.005 (C:44")	0.005/0.007、 0.008	0.005/0.007、 0.008 (C:44")	0.005/0.007、 0.008	0.005/0.007、 0.008 (C:44")	0.005/0.007、 0.008 (C:44")
X/Z(C) axis repeatability accuracy	mm	0.003/0.003	0.003/0.003 (C:18")	0.003/0.004、 0.005	0.003/0.004、 0.005 (C:18")	0.003/0.004、 0.005	0.003/0.004、 0.005 (C:18")	0.003/0.004、 0.005 (C:18")
Controller								
CNC Controller		FANUC 0i-TF						
General								
Machine dimensions(L×W×H) Rear chip conveyor	mm	2360×2510×1835(300) 2660×2510×1835 (500)		2922×3050×2010(600) 3422×3050×2010(1000)		2922×3050×2010(600) 3422×3050×2010(1000)		3222×3050×2010(600) 3850×3050×2010(1000)
Machine weight	kg	4000/4800		5300/6300		5500/6500		6500/6700

Standard configurations

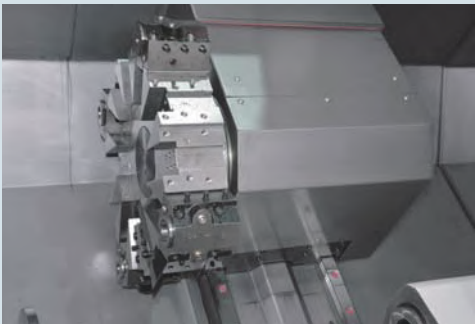
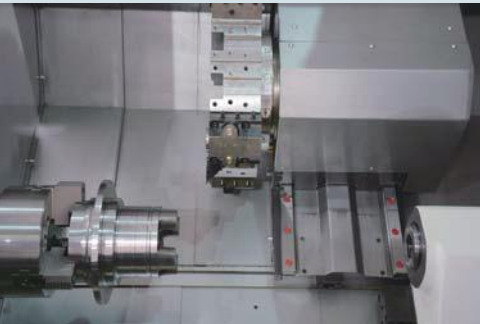
- Hydraulic 12-position turret for DT series
- ITALY 12-position live tooling turret for DT-H series
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Chain-type chain conveyor
- Automatic lubrication system
- Standard toolkit

Optional

- Programmable tailstock
- Air conditioner
- High-flow water pump
- METRAL and RENISHAW tool presetter
- TAIWAN through-hole hydraulic chuck and cylinder
- Bar feeder and parts catcher
- Domestic hydraulic steady rest
- Germany hydraulic steady rest
- Automatic door

Slant Bed CNC Lathe

DL-M Series



Specification	Unit	DL-20M	DL-25M	DL-30M	DL-32M	DL-40M
Max. swing diameter over bed	mm	Φ440	Φ520	Φ625	Φ680	Φ900
Max. turning diameter(Shaft/Disc)	mm	Φ260/Φ400	Φ310/Φ520	Φ380/Φ600	Φ440/Φ630	Φ600/Φ800
Max .turning length	mm	600/1000	1000/1500	1000/1500	1000/1500/2000/3000	1000/1500/2000/3000
Guideway type		Linear guideway	Box way OptLinear guideway(1000)	Linear guideway	Box way	Box way
Spindle						
Chuck size	inch	8	10	12	15	15
Type of spindle nose		A ₂ -6	A ₂ -8	A ₂ -8	A ₂ -11	A ₂ -11
Spindle speed range	rpm	4500	3500	3000	2000	1500
Spindle bore	mm	Φ76	Φ87	Φ88	Φ100	Φ132
Max. bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ65	Φ74	Φ74	Φ80	Φ80
Spindle motor power	kW	11/15	15/18.5	18.5/22	22/30	22/30
Travel						
Max Cross travel of X axis	mm	265	260	330	375	435
Max Cross travel of Z axis	mm	640/1040	1040/1600	1100/1600	1020/1520/2020/3020	1020/1520/2020/3020
Rapid traverse of X/Z axis	m/min	24/24 (Z:16 1000)	12/12 Box way 24/16 Linear guideway	24/24	12/16	12/16
Tool post						
Turret type and tool numbers		Hydraulic 12-position turret	Hydraulic 12-position turret	Hydraulic 12-position turret	Hydraulic 12-position turret	Hydraulic 12-position turret
Tool shank size	mm	25×25	25×25	25×25	32×25	32×25
Indexing time(adjacent/farthest)	s	0.45/1.45	0.45/1.45	0.45/1.6	0.45/2.2	0.45/2.2
Tailstock						
Diameter of tailstock quill	mm	Φ85	Φ100	Φ140	Φ160	Φ160
Tailstock quill stroke	mm	139	139	150	180	180
Accuracy						
X axis positioning accuracy	mm	0.011	0.011	0.011	0.011	0.011
Z axis positioning accuracy	mm	0.014/0.018	0.018/0.021	0.018/0.021	0.018/0.021/0.021/0.021	0.018/0.021/0.021/0.021
X axis repeatability accuracy	mm	0.004	0.004	0.004	0.004	0.004
Z axis repeatability accuracy	mm	0.006/0.007	0.007/0.009	0.007/0.009	0.007/0.009/0.009/0.009	0.007/0.009/0.009/0.009
Controller						
CNC Controller		FANUC Oi-TF				
General						
Machine dimensions(L×W×H) Rear chip conveyor	mm	3900×1910×1880 4430×1910×1880	5010×2020×2110 5200×2020×2110	5700×2200×2150 6450×2200×2150	5922×2120×2217(1000) 6431×2120×2217(1500) 6921×2120×2217(2000) 8339×2321×2350(3000)	6552×2340×2457(1000) 7052×2340×2457(1500) 7552×2340×2457(2000) 8936×2578×2598(3000)
Machine weight	kg	4000/5000	7800/8300	8500/9500	11000/12000/13000/14500	11500/12500/13500/15000

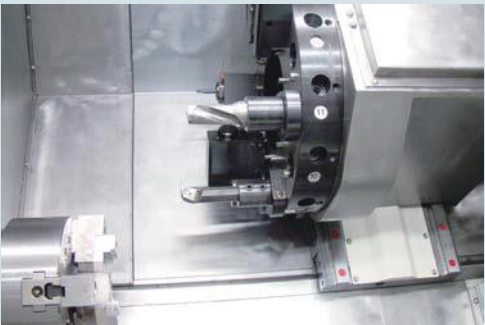
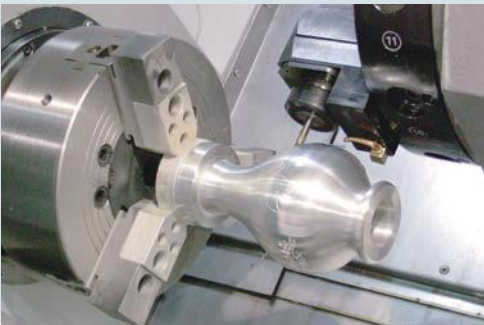
Standard configurations

- Hydraulic 12-position turret
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Chain-type chip conveyor
- Automatic lubrication system
- Standard toolkit

Optional

- SIEMENS 828DsI
- Electric servo turret
- Bar feeder and parts catcher
- Domestic hydraulic steady rest
- METRAL and RENISHAW tool presetter
- TAIWAN through-hole hydraulic chuck and cylinder
- GSK 988T controller
- High-flow water pump
- Air conditioner
- Germany hydraulic steady rest
- Automatic door

Turning Center
DL-MH Series



Specification	Unit	DL-20MH	DL-25MH	DL-30MH	DL-32MH	DL-40MH
Max. swing diameter over bed	mm	Φ440	Φ520	Φ625	Φ680	Φ900
Max. turning diameter (Shaft/Disc)	mm	Φ260/Φ380	Φ310/Φ500	Φ360/Φ570	Φ440/Φ590	Φ600/Φ760
Max. turning length	mm	500/900	1000/1500	940/1440	950/1450/1950/2950	950/1450/1950/2950
Guideway type		Linear guideway	Box way Opt. Linear guideway (1000)	Linear guideway	Box way	Box way
Spindle						
Chuck size	inch	8	10	12	15	15
Type of spindle nose		A ₂ -6	A ₂ -8	A ₂ -8	A ₂ -11	A ₂ -11
Spindle speed range	rpm	4000	3500	3000	2000	1500
Spindle t bore	mm	Φ76	Φ87	Φ88	Φ100	Φ132
Max. bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ65	Φ74	Φ74	Φ80	Φ80
Spindle motor power	kW	11/15	18.5/22	18.5/22	22/30	22/30
Travel						
Max Cross travel of X axis	mm	265	260	370	375	435
Max Cross travel of Z axis	mm	540/940	1040/1600	1100/1600	1020/1520/2020/3020	1020/1520/2020/3020
Rapid traverse of X/Z axis	m/min	24/24 (Z:16 900)	12/12 Box way 24/16 Linear guideway	24/24	12/16	12/16
Tool post						
Turret type and tool numbers		12-position live tooling turret				
Tool shank size	mm	25×25	25×25	25×25	32×25	32×25
Indexing time (adjacent/farthest)	s	0.58/0.97	0.58/0.97	0.58/0.97	0.58/0.97	0.58/0.97
Tailstock						
Diameter of tailstock quill	mm	Φ85	Φ100	Φ140	Φ160	Φ160
Tailstock quill stroke	mm	139	139	150	180	180
Accuracy						
X(C) axis positioning accuracy	mm	0.011(44")	0.011(44")	0.011(44")	0.011(44")	0.011(44")
Z axis positioning accuracy	mm	0.011/0.018	0.018/0.021	0.018/0.021	0.018/0.021/0.021/0.021	0.018/0.021/0.021/0.021
X(C) axis repeatability accuracy	mm	0.004(18")	0.004(18")	0.004(18")	0.004(18")	0.004(18")
Z axis repeatability accuracy	mm	0.004/0.007	0.007/0.009	0.007/0.009	0.007/0.009/0.009/0.009	0.007/0.009/0.009/0.009
Controller						
CNC Controller		FANUC 0i-TF				
General						
Machine dimensions (L×W×H) Rear chip conveyor	mm	3900×1910×1880 4430×1910×1880	5010×2020×2110 5200×2020×2110	5700×2200×2150 6450×2200×2150	5922×2120×2217(1000) 6431×2120×2217(1500) 6921×2120×2217(2000) 8339×2321×2350(3000)	6552×2340×2457(1000) 7052×2340×2457(1500) 7552×2340×2457(2000) 8936×2578×2598(3000)
Machine weight	kg	4000/5000	7800/8300	8500/9500	11000/12000/13000/14500	11500/12500/13500/15000

Standard configurations

- ITALY 12-position live tooling turret
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Chain-type chip conveyor
- Automatic lubrication system
- Axial and radial power tool holder
- Standard toolkit

Optional

- Air conditioner
- High-flow water pump
- METRAL and RENISHAW tool presetter
- TAIWAN through-hole hydraulic chuck and cylinder
- Bar feeder and parts catcher
- Domestic hydraulic steady rest
- Germany hydraulic steady rest
- Automatic door

Vertical CNC Milling Machine

XD Series



Specification	Unit	XD-40A
Table		
Worktable size(L×W)	mm	800×420
Max. load	kg	500
T-slots (numbers*width* centre distance)	mm	3×18×125
Travel		
X/Y/Z Axis travel	mm	620/440/540
X/Y/Z Axis guide way type		Linear guideway
Distance from spindle center to column	mm	550
Distance from spindle nose to table	mm	140~680
Feedrate		
Rapid traverse of X/Y/Z axis	m/min	36/36/30
Cutting feed rate	mm/min	0~10000
Spindle		
Spindle motor power	kW	7.5/11
Max. spindle speed	r/min	8000(Opt:10000)*
Spindle taper		No.40(7:24)
Accuracy		
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005
CNC controller		
CNC controller		FANUC 0i-MF(5)
General		
Machine dimensions(L×W×H)	mm	2413×2451×2549
Machine weight	kg	4600

Standard configurations

- Semi-enclosed guard
- Ball screw and linear guideway
- Heat exchanger
- Spindle air blow
- Rigid tapping
- Workpiece coolant system
- Air gun
- Automatic lubrication system

Optional

- Fully-enclosed guard
- Direct drive spindle(10000rpm/12000rpm)
- Spindle oil chiller
- High volume flushing system
- M30 automatic power off

Vertical Machining Center

VDL Series



Specification	Unit	VDL600A	VDL850A	VDL1000	VDL1300	VDL1200
Table						
Worktable size(L×W)	mm	800×420	1000×500	1120×560	1300×560	1220×620
Max. load	kg	500	500	750	750	1200
T-slots (numbers*width* centre distance)	mm	3×18×125	5×18×100	5×18×100	5×18×100	5×18×100
Travel						
X/Y/Z Axis travel	mm	620/440/540	860/510/560	1040/580/620	1290/580/620	1220/620/685
X/Y/Z Axis guide way type		Linear guideway	Linear guideway	X/Y Linear guideway Z Box way	X/Y Linear guideway Z Box way	X/Y Linear guideway Z Box way
Distance from spindle center to column	mm	546	607	629	629	660
Distance from spindle nose to table	mm	140~680	145~705	125~745	125~745	95~780
Feedrate						
Rapid traverse of X/Y/Z axis	m/min	36/36/30	36/36/30	24/24/18 (Opt:36/36/18)	24/24/18	24/24/18
Cutting feed rate	mm/min	0~10000	0~10000	0~10000	0~10000	0~10000
Spindle						
Spindle motor power	kW	7.5/11	7.5/11	11/15	11/15	11/15
Max. spindle speed	r/min	8000(Opt:10000)*	8000(Opt:10000)*	8000(Opt:10000)*	8000(Opt:10000)*	6000
Spindle taper		No.40(7:24)	No.40(7:24)	No.40(7:24)	No.40(7:24)	No.50(7:24)
ATC						
Tool magazine capacity		24T/Arm (Opt:16T/umbrella)	24T/Arm (Opt:20T/umbrella)	24T/Arm (Opt:20T/umbrella)	24T/Arm (Opt:20T/umbrella)	24T/Arm
Tool shank type		BT40	BT40	BT40	BT40	BT50
Max. tool weight	kg	8	8	8	8	15
Max. tool diameter (w/o adjacent tools)	mm	24T:Φ78/155 (16T:Φ100/Φ130)	24T: Φ78/155 (20T:Φ100/Φ130)	24T: Φ78/155 (20T:Φ100/Φ130)	24T: Φ78/155 (20T:Φ100/Φ130)	24T:Φ125/250
Tool change time (T-T)	S	24T:2.5 16T:5~8	24T:2.5 20T:5~8	24T:2.5 20T:5~8	24T:2.5 20T:5~8	24T:3.5
Accuracy						
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.016/0.008/0.008	0.019/0.008/0.008	0.016/0.008/0.008
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005	0.005/0.005/0.005	0.006/0.005/0.005	0.008/0.005/0.005	0.006/0.005/0.005
CNC controller						
CNC controller		FANUC 0i-MF(5)	FANUC 0i-MF(5)	FANUC 0i-MF(5)	FANUC 0i-MF(5)	FANUC 0i-MF(1)
General						
Machine dimensions(L×W×H)	mm	2413×2451×2549	2496×2530×2679	2800×2671×2760	3100×2671×2760	2993×2705×2888
Machine weight	kg	4600	5600	7000	7200	8500

*8000rpm(Toothed belt drive),10000rpm(direct drive)

Standard configurations

- 24T arm-type ATC
- Ball screw and linear guideway
- Heat exchanger
- Spindle air blow
- Compact oil-water separator
- Screw-type chip conveyor
- Rigid tapping
- Workpiece coolant system
- Air gun
- Automatic lubrication system

Optional

- Spindle oil chiller
- Coolant through spindle and high-pressure unit
- High volume flushing system
- 4th axis rotary table
- Air conditioner
- 16T/20T umbrella-type ATC
- Chain-type chip conveyor and chip cart
- Tool probe & workpiece probe
- M30 automatic power off

Vertical Machining Center VDLS Series



Specification	Unit	VDLS600	VDLS850	VDLS1000
Table				
Worktable size(L×W)	mm	800×420	1000×500	1120×560
Max. load	kg	500	500	750
T-slots (numbers*width* centre distance)	mm	3×18×125	5×18×100	5×18×100
Travel				
X/Y/Z Axis travel	mm	620/440/540	860/510/560	1040/580/620
X/Y/Z Axis guide way type		Linear guideway	Linear guideway	Linear guideway
Distance from spindle center to column	mm	546	607	666
Distance from spindle nose to table	mm	140~680	145~705	125~745
Feedrate				
Rapid traverse of X/Y/Z axis	m/min	36/36/30	36/36/30	36/36/30
Cutting feed rate	mm/min	0~10000	0~10000	0~10000
Spindle				
Spindle motor power	kW	7.5/11	7.5/11	11/15
Max. spindle speed	r/min	12000	12000	12000
Spindle taper		No.40(7:24)	No.40(7:24)	No.40(7:24)
ATC				
Tool magazine capacity		24T/Arm	24T/Arm	24T/Arm
Tool shank type		BT40	BT40	BT40
Max. tool weight	kg	8	8	8
Max. tool diameter (w/o adjacent tools)	mm	24T:Φ78/155	24T: Φ78/155	24T: Φ78/155
Tool change time (T-T)	S	24T:2.5	24T:2.5	24T:2.5
Accuracy				
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.016/0.008/0.008
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005	0.005/0.005/0.005	0.006/0.005/0.005
CNC controller				
CNC controller		FANUC 0i-MF(5)	FANUC 0i-MF(5)	FANUC 0i-MF(5)
General				
Machine dimensions(L×W×H)	mm	2413×2451×2549	2496×2530×2679	2800×2671×2760
Machine weight	kg	4600	5600	7000

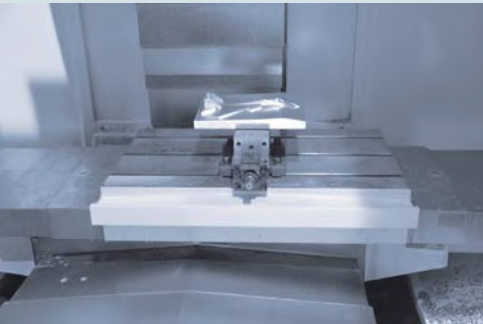
Standard configurations

- 24T arm-type ATC
- Ball screw and linear guideway
- Spindle oil chiller
- Spindle air blow
- Heat exchanger
- Compact oil-water separator
- Screw-type chip conveyor
- Rigid tapping
- Workpiece coolant system
- Air gun
- Automatic lubrication system

Optional

- Roller guideway
- Coolant through spindle and high-pressure unit
- High volume flushing system
- 4th axis rotary table
- Air conditioner
- Chain-type chip conveyor and chip cart
- Tool probe & workpiece probe
- M30 automatic power off

Vertical Machining Center VDF Series



Specification	Unit	VDF850A	VDF1200	VDF1500	VDF1800
Table					
Worktable size(L×W)	mm	1000×500	1220×620	1700×800	2000×800
Max. load	kg	500	1200	2500	2500
T-slots(numbers*width* centre distance)	mm	5×18×100	5×18×100	6×18×125	6×18×125
Travel					
X/Y/Z Axis travel	mm	860/510/560	1220/620/685	1560/830/790	1880/830/790
X/Y/Z Axis guide way type		Box way	Box way (Y - 4)	Box way (Y - 4)	Box way (Y - 4)
Distance from spindle center to columnn	mm	575	660	850	850
Distance from spindle nose to table	mm	145 ~ 705	85 ~ 770	186 ~ 976	166 ~ 956
Feedrate					
Rapid traverse of X/Y/Z axis	m/min	24/24/20	20/20/18	15/15/12	15/15/12
Cutting feed rate	mm/min	0~10000	0~10000	0~6000	0~6000
Spindle					
Spindle motor power	kW	7.5/11	11/15	15/18.5	15/18.5
Max. spindle speed	r/min	8000(Opt:10000)*	6000	6000	6000
Spindle taper		No.40(7:24)	No.50(7/24)	No.50(7/24)	No.50(7/24)
ATC					
Tool magazine capacity		24T/Arm (Opt:20T/umbrella)	24T/Arm	24T/Arm	24T/Arm
Tool shank type		BT40	BT50	BT50	BT50
Max. tool weight	kg	8	15	15	15
Max. tool diameter (w/o adjacent tools)	mm	24T:Φ78/155 (20T:Φ100/Φ130)	24T:Φ125/250	24T:Φ125/250	24T:Φ125/250
Tool change time (T-T)	S	24T:2.5 20T:5~8	3.5	3.5	3.5
Accuracy					
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008	0.016/0.008/0.008	0.019/0.008/0.008	0.019/0.008/0.008
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005	0.006/0.005/0.005	0.008/0.005/0.005	0.008/0.005/0.005
CNC controller					
CNC controller		FANUC Oi-MF(5)	FANUC Oi-MF(1)	FANUC Oi-MF(1)	FANUC Oi-MF(1)
General					
Machine dimensions(L×W×H)	mm	2496×2530×2679	2993×2705×2888	4600×3690×3220	5240×3510×322
Machine weight	kg	5600	8500	14000	14500

*8000rpm(Toothed belt drive),10000rpm(direct drive)

Standard configurations

- 24T arm-type ATC
- Ball screw and linear guideway
- Heat exchanger
- Spindle air blow
- Compact oil-water separator
- Screw-type chip conveyor
- Rigid tapping
- Workpiece coolant system
- Air gun
- Automatic lubrication system

Optional

- Spindle oil chiller
- Coolant through spindle and high-pressure unit
- High volume flushing system
- 4th axis rotary table
- Air conditioner
- 20T umbrella-type ATC(VDF850A)
- Chain-type chip conveyor and chip cart
- Tool probe & workpiece probe
- M30 automatic power off

Vertical Machining Center

VDM Series



Specification	Unit	VDM650L	VDM850L	VDM850F	VDM1060L	VDM1060F	VDM1270L	VDM1270F	VDM1580L	VDM1580F
Table										
Worktable size(L×W)	mm	800×500	850×500		1050×560		1300×660		1550×740	
Max. load	kg	500	500		800		1200		1500	
T-slots(numbers*width* centre distance)	mm	3×18×160	3×18×160		5×18×110		5×18×125		5×22×140	
Travel										
X/Y/Z Axis travel	mm	620/500/510	820/500/510		1020/550/510		1220/650/660		1530/740/660	
X/Y/Z Axis guide way type		Linear guideway	Linear guideway	Box way	Linear guideway	Box way	Linear guideway	Box way	X/Y:Linear guideway Z: Box way	Box way
Distance from spindle center to column	mm	603	603	560	658	615	721	715	810	
Distance from spindle nose to table	mm	130 ~ 640	130 ~ 640		150 ~ 660		130 ~ 790		150 ~ 810	
Feedrate										
Rapid traverse of X/Y/Z axis	m/min	36/36/30 (Opt:48/48/48)	36/36/30 (Opt:48/48/48)	30/30/20	36/36/30 (Opt:48/48/48)	30/30/20	36/36/30	30/30/20	24/24/20	24/24/20
Cutting feed rate	mm/min	0~10000	0~10000		0~10000		0~10000		0~10000	
Spindle										
Spindle motor power	kW	11/15	11/15		11/15		7.5/11		7.5/11	
Max. spindle speed	r/min	10000(direct drive) Opt:(12000、15000 direct drive)	10000(direct drive) Opt:(12000、15000 direct drive)		10000(direct drive) Opt:(12000、15000 direct drive) 8000(BT50 gear box)		6000(gear box) Opt:8000(gear box)		6000(gear box) Opt:8000(gear box)	
Spindle taper		No.40(7:24)	No.40(7:24)		No.40(7:24)		No. 50(7:24)		No. 50(7:24)	
ATC										
Tool magazine capacity		24T (original high-speed synchronous tool changer)	24T (original high-speed synchronous tool changer)		24T (original high-speed synchronous tool changer) BT40 Opt:BT50		20T Opt:30T(original high-speed synchronous tool changer)		20T Opt:30T(original high-speed synchronous tool changer)	
Tool shank type		BT40	BT40		BT40 Opt:BT50		BT50		BT50	
Max. tool weight	kg	8	8		8		20		20	
Max. tool diameter (w/o adjacent tools)	mm	Φ78/Φ150	Φ78/Φ150		Φ78/Φ150		Φ110/Φ200		Φ110(30T Φ103)/Φ200	
Tool change time (T-T)	S	<2	<2		<2		2		2	
Accuracy										
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008	0.008/0.008/0.008		0.008/0.008/0.008		0.010/0.008/0.008		0.012/0.008/0.008	
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005	0.005/0.005/0.005		0.005/0.005/0.005		0.006/0.006/0.006		0.007/0.007/0.007	
CNC controller										
CNC controller		FANUC Oi-MF(1)	FANUC Oi-MF(1)		FANUC Oi-MF(1)		FANUC Oi-MF(1)		FANUC Oi-MF(1)	
General										
Machine dimensions(L×W×H)	mm	3280×2310×2700	3280×2310×2700		3430×2880×2800		3738×3264×2956		4163×4001×3296	
Machine weight	kg	6000	6500		7000	7500	8500		10500	

Standard configurations

- 24T arm-type ATC
- Ball screw and linear guideway
- Heat exchanger
- Spindle oil chiller
- Spindle air blow
- Screw-type chip conveyor
- Rigid tapping
- Workpiece Coolant system
- Air gun
- Automatic lubrication system

Optional

- Coolant through spindle and high-pressure unit
- High volume flushing system
- 4th axis rotary table
- Air conditioner
- Chain-type chip conveyor and chip cart
- Tool probe & workpiece probe
- M30 automatic power off

Vertical Machining Center

VDM856



Specification	Unit	VDM856
Table		
Worktable size(L×W)	mm	1000×500
Max. load	kg	600
T-slots(numbers*width* centre distance)	mm	5×18×100
Travel		
X/Y/Z Axis travel	mm	820/550/600
X/Y/Z Axis guideway type		roller guideway
Distance from spindle center to column	mm	623
Distance from spindle nose to table	mm	120 ~ 720
Feedrate		
Rapid traverse of X/Y/Z axis	m/min	48/48/48
Max. Cutting feed rate	m/min	10
Spindle		
Spindle motor power	kW	7.5/11
Max. spindle speed	r/min	12000(direct drive)
Spindle taper		No.40(7:24)
ATC		
Tool magazine capacity		24T/Arm
Tool shank type		BT40
Max. tool weight	kg	8
Max. tool diameter (w/o adjacent tools)		Φ78/Φ155
Tool change time (T-T)	S	< 2.5
Accuracy		
X/Y/Z axis positioning accuracy	mm	0.006/0.006/0.006
X/Y/Z axis repeatability accuracy	mm	0.004/0.004/0.004
CNC controller		
CNC controller		MITSUBISHI M80B、GSK 25iMC
General		
Machine dimensions(L×W×H)	mm	3160×2280×2818
Machine weight	kg	5800



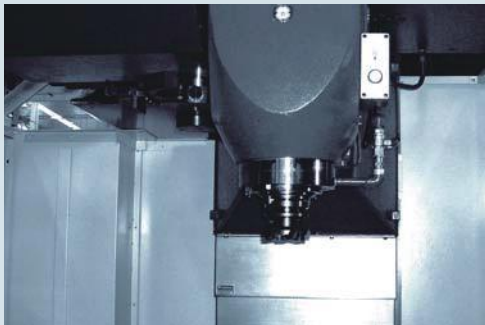
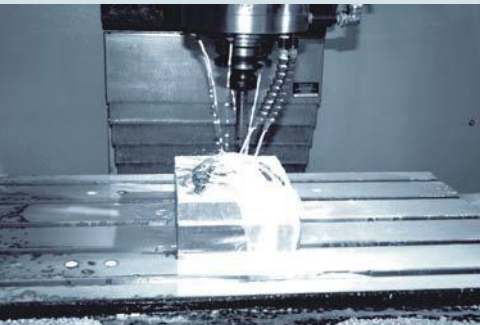
Standard configurations

- Ball screw and Roller guideway
- 24T arm-type ATC
- Heat exchanger
- Spindle oil chiller
- Spindle air blow/Spindle spray
- High volume flushing system
- Rigid tapping
- Workpiece Coolant system
- Air gun
- Automatic lubrication system

Optional

- Coolant through spindle and high-pressure unit
- 4th axis rotary table
- Air conditioner
- Screw-type chip conveyor
- Chain-type chip conveyor and chip cart
- Tool probe & workpiece probe
- M30 automatic power off

Vertical Machining Center MDV Series



Specification	Unit	MDV55	MDV75	MDV95
Table				
Worktable size(L×W)	mm	1050×560(Opt:1250×560)	1550×740	2300×950
Max. load	kg	800	1500	2500
T-slots (numbers*width* centre distance)	mm	5×18×110	5×22×140	7×22×125
Travel				
X/Y/Z Axis travel	mm	1020/550/510	1530/740/660	2060/950/850
X/Y/Z Axis guide way type		Box way	Box way	Box way
Distance from spindle center to column	mm	615	810	1100
Distance from spindle nose to table	mm	150 ~ 660	150 ~ 810	150 ~ 1000
Feedrate				
Rapid traverse of X/Y/Z axis	m/min	30/30/20	24/24/20	20/20/15
Cutting feed rate	mm/min	1 ~ 10000	1 ~ 10000	1 ~ 10000
Spindle				
Spindle motor power	kW	7.5/11	7.5/11	11/15
Max. spindle speed	r/min	8000(Gear box)	6000(Gear box)	6000(Gear box)
Spindle taper		No.50 (7/24)	No.50(7/24)	No.50(7/24)
ATC				
Tool magazine capacity		20T(Opt:30T) original high-speed synchronous tool changer	20T(Opt:30T) original high-speed synchronous tool changer	30T original high-speed synchronous tool change
Tool shank type		BT50	BT50	BT50
Max tool weight	kg	20	20	20
Max.tool diameter (w/o adjacent tools)	mm	20T:Φ110/Φ200	20T:Φ110/Φ200	30T:Φ103/Φ200
Tool change time (T-T)	S	2	2	2
Accuracy				
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008	0.012/0.008/0.008	0.015/0.012/0.012
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005	0.007/0.007/0.007	0.007/0.007/0.007
CNC controller				
CNC controller		FANUC 31i-MB	FANUC 31i-MB	FANUC 31i-MB
General				
Machine dimensions(L×W×H)	mm	3398×2880×2846	4140×4000×3436	5458×5380×3600
Machine weight	kg	7500	10500	20500

Standard configurations

- Core-cooled ball screws
- Spindle oil chiller
- Coolant unit
- Screw-type chip conveyor
- Heat exchanger
- Rigid tapping

Optional

- Electrical spindle(12000rpm)
- 30T ATC
- Coolant through spindle and high-pressure unit
- Chain-type chip conveyor and chip cart
- Air conditioner
- 3 linear scale(Heidenhain)
- 4th axis rotary table
- Tool probe & workpiece probe

5-axis Vertical Machining Center VDW Series



Specification	Unit	VDW50
Table		
Work table size	mm	Φ500
Max. load	Kg	300 (0°) 、 200 (0 ~ 90°)
Clamping area	mm	Φ600×460
T-slots (numbers*width* centre distance)		8×14×45°
Table indexing (B axis×C axis)		175° (left110°~ right65°) ×360°
Rotating speed(B/C axis)	rpm	17.75
Travel		
X/Y/Z axis travel	mm	500/450/400
X/Y/Z axis guideway type		Linear guideway
Distance from spindle nose to table	mm	150 ~ 600
Feedrate		
X/Y/Z axis rapid traverse	m/min	30/30/30(Opt:36/36/36)
X/Y/Z axis cutting feedrate	m/min	0 ~ 20
Spindle		
Spindle type		Direct drive spindle
Spindle motor power	kW	7 (Ps1)/15(Pmax)
Spindle motor torque	N.m	45(Ms1)/95(Mmax)
Max. spindle speed	rpm	12000
ATC		
Tool magazine capacity		24T Arm
Tool shank type		HSK-A63
Max. tool weight	kg	8
Max. tool diameter(w/o adjacent tools)	mm	Φ75 (Φ130)
Max. tool length	mm	300
Machining capacity		
Tapping range(steel)		M3 ~ M24
Max.drilling diameter(steel)		Φ36
Accuracy		
X/Y/Z axis positioning accuracy	mm	0.008 (X) 、 0.008 (Y) 、 0.008 (Z)
X/Y/Z axis repeatability accuracy	mm	0.005 (X) 、 0.005 (Y) 、 0.005 (Z)
B/C axis positioning accuracy	inch	10" (B)、 8" (C)
B/C axis repeatability accuracy	inch	4" (B)、 3" (C)
CNC controller		
CNC controller		SIEMENS SINUMERIK 840Dsl、 HEIDENHAIN iTNC 640
General		
Machine dimensions(L×W×H)	mm	5242×4650×3260
Machine weight	kg	8000

Standard configurations

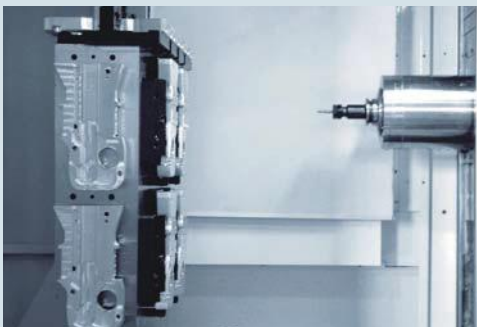
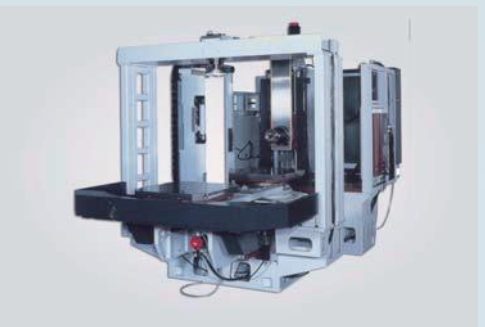
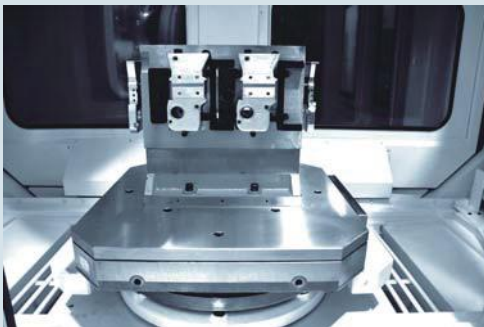
- Ball screw and linear guideway
- Chain-type chip conveyor and chip cart
- Air conditioner
- 24T Arm-type ATC
- Spindle air blow
- Rigid tapping

Optional

- 40T arm-type ATC
- 15000rpm Direct drive spindle
- 2Mpa coolant through spindle/7Mpa coolant through spindle
- 3 linear scale(Heidenhain)



Horizontal Machining Center
MDH Series



Specification	Unit	MDH40P	MDH50PS	MDH50	MDH50A	MDH65S	MDH65	MDH65A	MDH80S	MDH80	MDH80A	MDH100S	MDH125
Table													
Worktable size (L*W)	mm	400×400	500×500	500×500	500×500	630×630	630×630	630×630	800×800	800×800	800×800	1000×1000	1250×1250
No. of Pallet		2		2	Single table	2	2	Single table	2	2	Single table	2	2
Table type		IT OP:BRT		IT OP:BRT		IT OP:BRT		IT OP:BRT		IT OP:BRT		IT OP:BRT	
Table indexing		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)	
Table indexing time	S	1.9(90°)		1.7(90°)		1.7(90°)		1.7(90°)		4.5(90°)		5(90°)	
Pallet changing time	S	5		6	—	6	12	—	12	12.5	—	12.5	35
Max. table load	Kg	400		800		1300		1300		2000		3000	
Travel													
X/Y/Z-axis travel	mm	630/620/710		780/750/800		1050/900/900		1050/900/800	1400/1100/1050		1400/1100/1000	1700/1400/1240	
X/Y/Z Axis guide way type		Linear roller guideway		Linear roller guideway		Linear roller guideway		Linear roller guideway		Linear roller guideway		Linear roller guideway	
Distance from table surface to spindle center	mm	80~700		80~830		80~980		80~980		80~1180		70~1470	
Distance from spindle nose to table	mm	150~860		150~950		200~1100		300~1100	200~1250		250~1250	360~1600	
Feedrate													
Rapid traverse of X/Y/Z axis	m/min	60		54		54		54		45		45	
Cutting feed rate		1~20000		1~20000		1~20000		1~20000		1~20000		1~20000	
Spindle													
Spindle taper		No.40 (7:24)		No.50 (7:24)		No.50 (7:24)		No.50 (7:24)		No.50 (7:24)		No.50 (7:24)	
Max spindle speed	rpm	10000(Direct-Drive) Opt:12000(Direct-Drive)		8000(Motor Spindle) Opt:12000(Motor Spindle) Opt:6000(Gear box)		8000(Motor Spindle) Opt:12000(Motor Spindle) Opt:6000(Gear box)		8000(Motor Spindle) Opt:12000(Motor Spindle) Opt:4000(Gear box) Opt:4000(Gear box)		8000(Motor Spindle) Opt:12000(Motor Spindle) Opt:4000(Gear box) Opt:4000(Gear box)		6000(Motor Spindle) Opt:8000, 12000 (Motor Spindle) Opt:6000(Gear box)	
Spindle motor power (Continuous/30 min)	kW	10000rpm:7.5/11 12000rpm:7.5/11		8000rpm:18.5/22 12000rpm:25/30 6000rpm:22/26		8000rpm:18.5/22 12000rpm:25/30 6000rpm:22/26		8000rpm:18.5/22 12000rpm:25/30 6000rpm:22/26		8000rpm:25/30 12000rpm:25/30 4000rpm:22/26 4000rpm:30/37		6000rpm:37/55 8000rpm:25/30 12000rpm:25/30 6000rpm:22/26	
ATC													
Tool magazine capacity	T	40		40		40		40		40		40	
Tool shank type		BT40		BT50		BT50		BT50		BT50		BT50	
Max. tool length	mm	350		500		500		500		500		500	
Max. tool weight	Kg	8		25		25		25		25		25	
Max. tool diameter (w/adjacent tools)	mm	Φ82(Φ150)		Φ115(Φ270)		Φ115(Φ270)		Φ115(Φ270)		Φ115(Φ270)		Φ115(Φ270)	
Tool changing time(T-T)	s	1.2		2		2		2		2.5		2.5	
Accuracy													
X/Y/Z axis positioning accuracy	mm	0.008		0.008		0.010		0.010		0.010		X:0.015 Y:0.012 Z:0.012	
X/Y/Z axis repeatability accuracy	mm	0.005		0.005		0.006		0.006		0.006		X:0.007 Y:0.007 Z:0.007	
CNC controller													
CNC controller		FANUC 31i		FANUC 31i		FANUC 31i		FANUC 31i		FANUC 31i		FANUC 31i	
General													
Machine dimensions(L×W×H)	mm	5952×2522×2771	5952×2522×2771	4891×3200×3125	4190×3200×3125	4891×3200×3125	5145×3342×3355	5100×3342×3355	5145×3342×3355	6153×3717×3827	5393×3682×3827	6153×3717×3827	8075×6087×3702
Machine weight	Kg	8000	8000	15000	14000	15000	18000	16500	18000	24000	21000	24500	32500

Standard configurations

- Spindle with two speed range
- Core-cooled ball screws
- Chain tool magazine
- Screw type chip conveyor(Double-side mounted)
- Auto lubrication system
- Rigid tapping
- Heat exchanger

Optional

- Built-in-rotary table(BRT)
- High volume flushing system
- Air conditioner
- HEIDENHAIN linear scale
- Gear box spindle
- 60T/80T/120T Chain tool magazine(60T/80T MDH125)
- Coolant-through spindle coolant system and high-pressure unit
- Ceiling shower
- Tool probe &work piece probe
- Oil-water separator system
- Chain-type chip conveyor
- Mist collector

Gantry Machining Center DGM Series



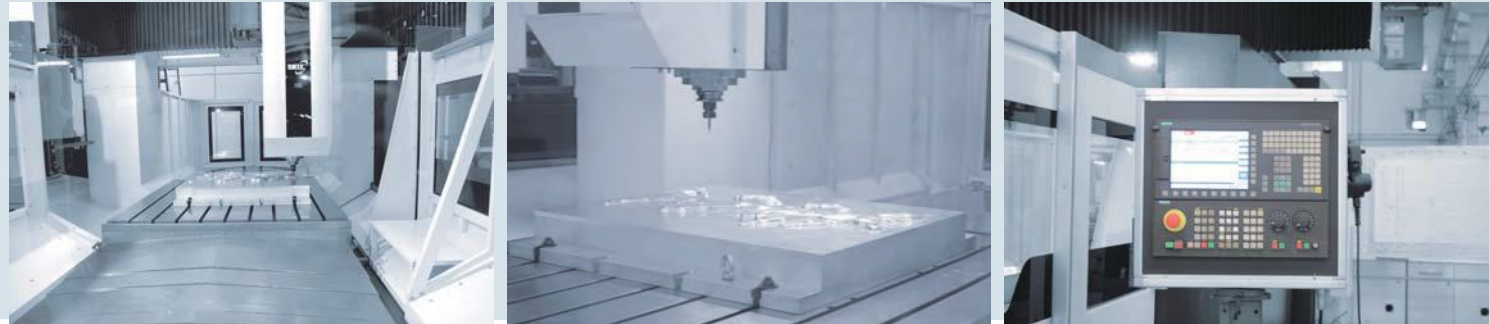
Specification		Unit	DGM1320		DGM1620	
			FANUC 0i-MF(1)	SIEMENS 828D	FANUC 0i-MF(1)	SIEMENS 828D
Travel						
X Axis travel	mm	2100		2100		
Y Axis travel	mm	1620 (Including 220 tool change stroke)		1920 (Including 220 tool change stroke)		
Z Axis travel	mm	800		800 (Opt:1000)		
Spindle nose to table surface	mm	200 ~ 1000		200 ~ 1000 (Opt:1200)		
Distance between two columns	mm	1500		1800		
Table						
Table work area(L×W)	mm	2000×1300		2000×1600		
Max table load	kg	5000		8000		
T-slots (numbers*width* centre distance)		7×22×160		9×22×160		
Spindle						
Spindle taper		BT 50 (7:24)		BT 50 (7:24)		
Speed ratio of spindle speed reducer		1:1/1:5.5		1:1/1:5.5		
Max. spindle speed	r/min	6000		6000		
Rated/Max torque of spindle	Nm	525/649	525/630	525/649	525/630	
Spindle motor power	kW	15/18.5	15/18	15/18.5	15/18	
Accuracy						
Positioning accuracy	X	mm	0.022		0.022	
	Y	mm	0.022		0.022	
	Z	mm	0.017		0.017	
Repeatability accuracy	X	mm	0.010		0.010	
	Y	mm	0.010		0.010	
	Z	mm	0.007		0.007	
Feedrate						
Cutting feed rate	mm/min	1~5000		1~5000		
Rapid traverse of X/Y/Z axis	m/min	24/24/16		24/24/16		
ATC (Opt.)						
Tool magazine capacity/ type		24T Disc/40T Chain		24T Disc/40T Chain		
Tool shank/retention knob type		BT-50/MAS P50T-1(45°)		BT-50/MAS P50T-1(45°)		
Max. tool diameter (w/o adjacent tools)	mm	Ø 125/ Ø 225		Ø 125/ Ø 225		
Max. tool length	mm	300		300		
Max. tool weight	kg	20		20		
Tool change time (T-T)	s	5		5		
General						
Machine dimension (L ×W ×H)	mm	6600×4300×4600		6600×4600×4600(Opt:5000)		
Machine weight	kg	20000		25000		

Standard configurations

- FANUC 0i-MF(1) Control System
- Oil chiller
- Screw type chip conveyor
- Chain-type chip conveyor (not include water tank)
- Heat exchanger
- MPG
- ZF Spindle gear box (Germany)
- Ball screw bearings (NSK JAPAN)
- Ball screw and linear guide way for X/Y Axis (PMI TAIWAN)

Optional

- Siemens 828D control system
- HEIDENHAIN linear scale
- Chain-type chip conveyor(Both side)
- 24 Positions disc type ATC
- 40 Positions chain type ATC
- Manual 90° milling head



The combination of machine tools and automatic line

