



通用技术大连机床 GENERTEC DALIAN MACHINE TOOL



通用技术集团大连机床有限责任公司
GENERTEC DALIAN MACHINE TOOL CO., LTD.



通用技术集团大连机床进出口有限公司
GENERAL TECHNOLOGY GROUP DALIAN MACHINE TOOL IMPORT AND EXPORT CO., LTD.

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CATALOGUE

通用技术集团大连机床进出口有限公司
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Enterprise profile

General Technology Group Dalian Machine Tool Co., Ltd.

General Technology Group Dalian Machine Tool Co., Ltd. belongs to the central enterprise China General Technology Group, formerly known as DMTG, which was established in 1935. In 1995, the major state-owned machine tool enterprises in Dalian were merged together to be DMTG. Since 2002, it has successively merged two famous machine tool factories, which were Ingersoll Production Systems, Ingersoll CM System from USA. Also established eight joint ventures with the company from USA, Germany, Japan, Switzerland, Israel, South Korea and other countries. In April 2019, China General Technology Group strategically reorganized DMTG and established General Technology Group Dalian Machine Tool Co., Ltd.

DMTG's main products are:

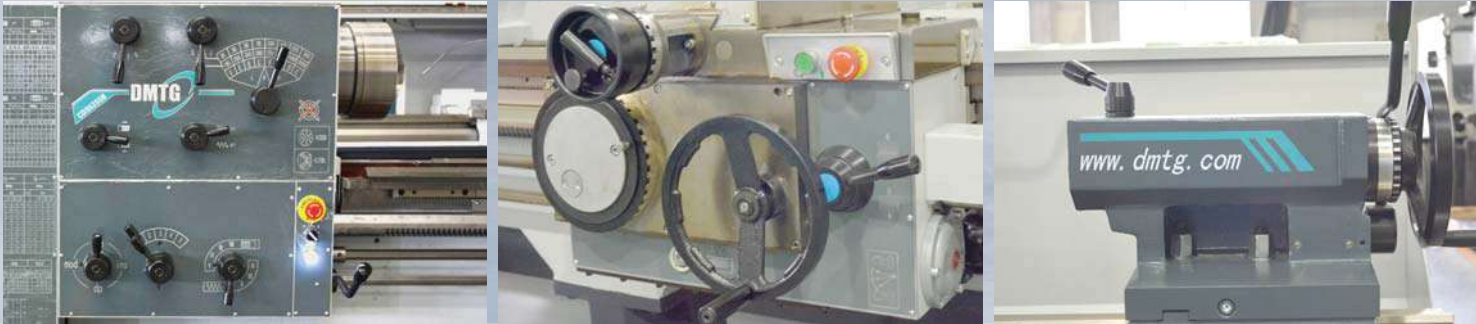
- I Conventional lathe
- II Flat and slant Bed CNC Lathe
- III Vertical Machining Center
- IV 5-axis Vertical Machining Center
- V Horizontal Machining Center
- VI Gantry Machining Center
- VII The combination of machine tools and automatic line.

Over the 80 years, DMTG has more than 500 different kinds of machine models, and it has made great contributions to equipping China's manufacturing industry and maintaining national economic. We provided more than 500,000 sets machine tools for industry of automotive, railway transportation, industrial engineering machinery, and the machines are delivered to more than 100 countries. DMTG is ready for serving the world!

 COMPANY HISTORY SINCE 1935	 SALES QUANTITY 500000+ SETS	 PRODUCT MODEL 500+ KINDS	 ONLINE SERVICE 24 HOURS
 SALES TEAM 200+	 SERVICE TEAM 150+	 TECHNICAL TEAM 500+	 WORLDWIDE MARKET 100+ COUNTRIES

Conventional Lathe

CDS-B/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) 3430×1223×1295 (1500) 3930×1223×1295 (2000) 4930×1223×1295 (3000)		2930×1223×1370 (1000) 3430×1223×1370 (1500) 3930×1223×1370 (2000) 4930×1223×1370 (3000)	
Machine weight		kg	2170/2420/2620/3120		2500/2700/2900/3400	

*opt:inch screw

Standard accessories

- 3-Jaw chuck
- Rear splash guard
- Tool post guard
- Fixed center of tailstock
- 4-way tool post
- Chuck guard
- Foot brake
- Standard toolkit & Oil gun

Optional

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

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/ 6650/7350/7850	4500/4800/5100/5600/ 6950/7450

*opt:inch screw

Standard accessories

- 3-Jaw chuck
- Chuck guard
- Wedge block
- 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
- Steady rest & Follow rest
- 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	CW61125M	CW61140M	CW61160M
Max.Swing diameter over bed	mm	Φ1000	Φ1250	Φ1400	Φ1600
Max.Swing diameter over cross slide	mm	Φ630	Φ880	Φ1030	Φ1230
Max. workpiece length	mm	1500/3000/4000/5000/6000/8000			
Max.cutting length	mm	1300/2800/3800/4800/5800/7800			
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) 5950×1855×1890(3000) 6950×1855×1890(4000) 7950×1855×1890(5000) 8950×1855×1890(6000) 10950×1855×1890(8000)	4450×1955×2015(1500) 5950×1955×2015(3000) 6950×1955×2015(4000) 7950×1955×2015(5000) 8950×1955×2015(6000) 10950×1955×2015(8000)	4450×2010×2165(1500) 5950×2010×2165(3000) 6950×2010×2165(4000) 7950×2010×2165(5000) 8950×2010×2165(6000) 10950×2010×2165(8000)	4450×2110×2355(1500) 5950×2110×2355(3000) 6950×2110×2355(4000) 7950×2110×2355(5000) 8950×2110×2355(6000) 10950×2110×2355(8000)
Machine weight	kg	9650/11000/11900/ 12800/13700/15500	10650/12000/12900/ 13800/14700/16500	11350/12700/13600/ 14500/15400/17200	12050/13400/14300/ 15200/16100/17900

*opt:inch screw

Standard accessories

- 4-Jaw chuck
- Live&fixed center of tailstock
- Tool post guard
- Anchor bolt
- 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
- Heady duty tailstock
- Anti-vibration/Adjustable pads
- Quick-change tool post
- DRO
- Electrical tailstock
- Roller device
- Steady rest & Follow rest

Flat Bed CNC Lathe
CKE Series



Specification		Unit	CKE6136i	CKE6140i	CKE6150Z	CKE6150i	CKE6163Z	CKE6180Z	CKE61100Z
Max. swing diameter over bed		mm	Φ360	Φ400	Φ500		Φ630	Φ800	Φ1000
Max. swing diameter over cross slide		mm	Φ180	Φ200	Φ280		Φ320	Φ490	Φ700
Max. workpiece length		mm	750/1000	750/1000	750/1000/ 1500/2000	750/1000	1000/1500/2000/ 3000/4000/5000		1000/1500
Max. cutting length		mm	580/830	580/830	680/930/1430/1930	680/930	795/1245/1845/2745/3785/4745 (Vertical 4-position) 690/1140/2740/2640/3680/4640 (Horizontal 6-position) 700/1150/2750/2650/3690/4650 (Horizontal 8-position)		795 / 1245 (Vertical 4-position) 690 / 1140 (Horizontal 6-position) 700 / 1150 (Horizontal 8-position)
Max. turning diameter	Vertical 4-position	mm	Φ360	Φ400	Φ500		Φ630	Φ800	Φ800
	Opt.Horizontal 6-position	mm	Φ300	Φ300	Φ400		Φ620	Φ620	Φ620
	Opt.Horizontal 8-position	mm	—	—	Φ370		Φ620	Φ620	Φ620
Spindle center height		mm	186	200	250		315	400	515
Bed guideway width		mm	300	300	400		550	550	550
Spindle									
Spindle motor power		kW	5.5 (Servo motor)	5.5 (Servo motor)	7.5/11 (Servo motor)	11/15 (Servo motor)	11 (inverter-driven motor)		
Spindle type		r/min	Belt driven	Belt driven	Gear box	Belt driven	Gear box		
Spindle bore		mm	Φ40	Φ40	Φ82		Φ100		
Chuck size		mm	Φ165	Φ165	Φ250	Φ254	Φ315	Φ400	Φ500
Taper of spindle bore			MT 5	MT 5	Front end Φ90 1:20	Front end Φ100 1:20	Front end Φ120 1:20		
Type of spindle nose			D8	D8	D8	A2-8	C11		
Spindle speed ranges		r/min	*200~3500 Single spindle	*200~3500 Single spindle	*7~2200 3 range manual(auto)	*30~3000 Single spindle	10~1000 4 range manual(auto)		
Tailstock									
Tailstock quill diameter		mm	Φ63	Φ63	Φ75		Φ100		
Tailstock quill travel		mm	140	140	150		240		
Tailstock quill taper			MT 4	MT 4	MT 5		MT 6		
Travel									
Max. travel of X-axis		mm	240	240	280		320	400	400
Max. travel of Z-axis		mm	580/830	580/830	685/935/1435/1935	685/935	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)	4/8	4/7.5(1000, 1500, 2000) 、 4/4(3000)、4/3.5(4000、 5000)		
Tool post									
Tool shank size (Vertical 4-positon)		mm	20×20	20×20	25×25	25×25	32×32(32×25 Horizontal 8-position)		
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/ 0.021(750) 0.024(1000)	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/ 0.008(750) 0.011(1000)	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)	2580×1750×1620(750) 2830×1750×1620(1000)	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)	2550 (750) 2600 (1000)	4800/5100/5600/5300/5600/6100/ 5900/7100/8100 6400/7600/8600		5600/6000

Standard configurations

- 3-Jaw manual chuck
- Manual tailstock
- FANUC 0i-TF (5) Plus system
- Vertical 4-position turret
- Heat exchanger
- Manual speed shift

Optional

- 4-Jaw manual chuck
- Horizontal 6-position turret
- Hydraulic tailstock
- Follow rest
- GSK system
- Automatic speed shift
- Hydraulic chuck
- Horizontal 8-position turret
- Hydraulic station
- Steady rest
- Siemens system
- Air conditioner

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	mm	Φ1000	Φ1250
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		MT 6	
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	6320×2300×2000(1500) 6820×2300×2000(2000) 7820×2300×2000(3000) 8820×2300×2000(4000) 9820×2300×2000(5000) 10820×2300×2000(6000)	6320×2520×2250(1500) 6820×2520×2250(2000) 7820×2520×2250(3000) 8820×2520×2250(4000) 9820×2520×2250(5000) 10820×2520×2250(6000)
Machine weight	t	13.5/14/15/16/17/18	14.5/15/16/17/18/19

Standard configurations

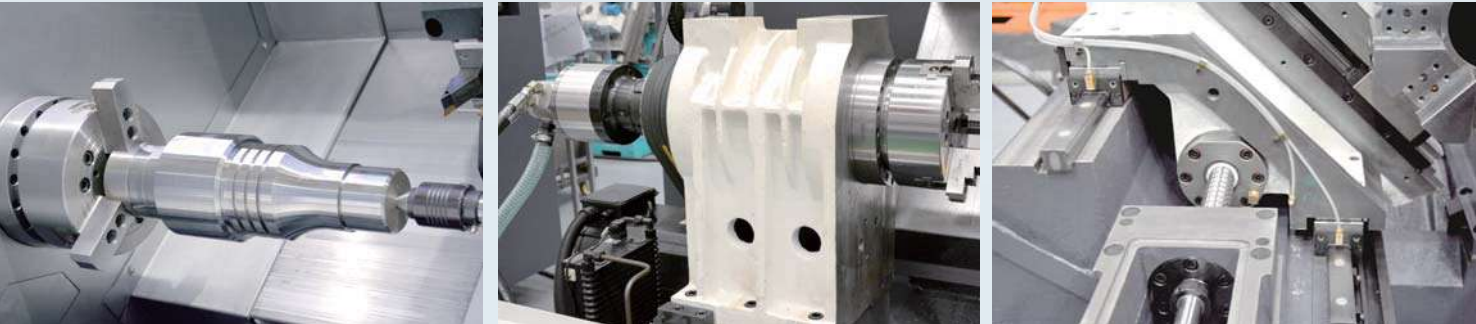
- Servo spindle motor
- FANUC Oi-TF (1) Plus system
- 4-Jaw manual chuck
- Vertical 4-position turret
- Manual tailstock(≤4000mm),Electric tailstock(>4000)
- Chip conveyor
- Heat exchanger

Optional

- Siemens system
- Steady rest
- Follow rest
- Air conditioner

Slant Bed CNC Lathe

CLS Series



Specification		Unit	CLS-20	
Max. swing diameter over bed		mm	Φ500	
Max. turning diameter	Shaft parts	mm	Φ260	
	Disc parts	mm	Φ300	
Max. turning length		mm	450	430
Guideway type			Linear guideway	
Spindle				
Chuck size			8"	10"
Type of spindle nose			A2-6	A2-8
Spindle speed range		rpm	45 ~ 4500	35 ~ 3500
Spindle motor power		KW	11/15 FANUC 0i-TF(5)	
Spindle bore		mm	Φ62	Φ87
Max. bar capacity (Equipped with through-hole hydraulic chuck)		mm	Φ51	Φ74
Travel				
Max. travel of X/Z axis		mm	165/500	
Rapid traverse of X/Z axis		m/min	20/24	
Cutting feed rate		mm/min	0 ~ 5000	
Tool post				
Turret type and tool numbers			Hydraulic 8-position turret (Opt:12-position turret)	
Tool shank size		mm	25×25	
Indexing time(adjacent/farthest)		s	0.45/1.2 (0.45/1.45 12-position turret)	
Tailstock				
Max. travel of tailstock			460	
Diameter of tailstock quill			Φ80	
Tailstock quill stroke		mm	130	
Taper of tailstock			MT 4	
Accuracy				
X/Z axis positioning accuracy		mm	0.008/0.008	
X/Z axis repeatability accuracy		mm	0.004/0.004	
Controller				
CNC Controller			FANUC 0i-TF(5)Plus、SIEMENS 828D、GSK 988T	
General				
Machine dimensions(L×W×H)		mm	2900×2870×2000 (Rear chip conveyor) 3900×1740×2000 (Side chip conveyor)	
Machine weight		kg	4000	

Standard configurations

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

Optional

- Hydraulic 12-position turret
- X/Z THK ball screws& THK linear guideways
- Through-hole hydraulic chuck
- Tool presetter
- Air conditioner
- Oil mist separator
- Bar feeder and parts catcher
- Chain-type chip conveyor
- Automatic door

Slant Bed CNC Lathe
DT Series



Specification	Unit	DT-30		DT-30H		DT-40		DT-40H		DT-40HY		DT-50		DT-50H		DT-50HS		DT-60HY			
Max. swing diameter over bed	mm	Φ480				Φ580						Φ680						Φ920			
Max. turning diameter (Shaft/Disc)	mm	Φ280/Φ300		Φ280/Φ300		Φ360/Φ400		Φ350/Φ350		Φ350/Φ380		Φ460/Φ500		Φ450/Φ450		Φ440/Φ440		Φ600/Φ440			
Max. turning length	mm	300		300		585/1085		555/1055		555/1055(ITALY) 445/945(CHINA)		580/1080		555/1055(ITALY) 445/945(CHINA)		440/940		1000			
Guideway type		Linear guideway				Linear guideway						Linear guideway				Linear guideway		Box way			
Spindle																					
Type of spindle nose		A ₂ -5	Opt: A ₂ -6	A ₂ -5	Opt: A ₂ -6	A ₂ -6	Opt: A ₂ -8	A ₂ -6	Opt: A ₂ -8	A ₂ -6	Opt: A ₂ -8	A ₂ -8				A ₂ -8					
Chuck size	inch	6	8	6	8	8	10	8	10	8	10	10				12					
Spindle speed range	rpm	5000	4500	5000	4500	4000	3500	4000	3500	4000	3500	3500	3500	3500	4000(sub-spindle)	3000					
Spindle bore	mm	Φ63	Φ63	Φ63	Φ63	Φ70	Φ87	Φ70	Φ87	Φ70	Φ87	Φ87				Φ 97					
Max.bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ45	Φ47	Φ45	Φ47	Φ51	Φ73	Φ51	Φ73	Φ51	Φ73	Φ73				Φ 82					
Spindle motor power	kW	7.5/11				11/15						15/18.5				7.5/15(Low) 11/18.5(High)		18.5/22			
Travel																					
Max. travel of X axis	mm	155		170		215						265				395					
Max. travel of Z (Y)axis	mm	300/500		300		600/1100		555/1055(ITALY) 445/945(CHINA)		555/1055(±50)		600/1100		555/1055(ITALY) 445/945(CHINA)		460/960		1090(±60)			
Rapid traverse of X/Z(Y) axis	m/min	30/30				30/30						30/30				24/24(12)					
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		Live tooling 12-position turret		Hydraulic 12-position turret		Live tooling 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				25×25					
Indexing time(adjacent/farthest)	s	0.35/1.6		0.31/0.76		0.35/1.6		0.49/0.96 (ITALY)		0.49/0.96 (ITALY)		0.35/1.6		0.49/0.96 (ITALY)		0.49/0.96 (ITALY)		0.84/1.42			
Tailstock																					
Diameter of tailstock quill	mm	Φ70				Φ85						Φ85				Sub-spindle		Φ100			
Tailstock quill stroke	mm	120				140						140						120			
Accuracy																					
X/Z(C、Y) 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:31")		0.005/0.007、 0.008 (C:31" Y:0.005)		0.005/0.007、 0.008		0.005/0.007、 0.008 (C:31")		0.005/0.007、 0.008 (C:31")		0.005/0.008 (C:31" Y:0.005)			
X/Z(C、Y) 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:13")		0.003/0.004、 0.005 (C:13" Y:0.005)		0.003/0.004、 0.005		0.003/0.004、 0.005 (C:13")		0.003/0.004、 0.005 (C:13")		0.003/0.005 (C:13" Y:0.003)			
Controller																					
CNC Controller		FANUC 0i-TF (5) Plus, FANUC 0i-TF (1) Plus,SIEMENS SINUMERIK 828D														FANUC 0i-TF Plus(1)					
General																					
Machine dimensions(L×W×H) Without chip conveyor	mm	2360×1720×1835(300)				2922×1900×2010(600) 3422×1900×2010(1000)				2922×1900×2260(600) 3422×1900×2260(1000)				2922×1900×2010(600) 3422×1900×2010(1000)				3222×1900×2010(600) 3850×1900×2010(1000)			
Machine weight	kg	4000/4800				5300/6300				5500/6500				5500/6500				6500/6700			
13000																					

Standard configurations

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

Optional

- Screw drive tailstock
- Tool presetter
- Air conditioner
- Oil mist separator
- 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/MH Series



Specification	Unit	DL-25M	DL-25MH	DL-32M	DL-32MH	DL-40M	DL-40MH
Max. swing diameter over bed	mm	Φ520		Φ680		Φ900	
Max. turning diameter(Shaft/Disc)	mm	Φ310/Φ520	Φ310/Φ500	Φ440/Φ630	Φ440/Φ590	Φ600/Φ800	Φ660/Φ760
Max. turning length	mm	1000/1500		1000/1500/2000/3000	950/1450/1950/2950	1000/1500/2000/3000	950/1450/1950/2950
Guideway type		Box way Opt:Linear guideway(1000)		Box way		Box way	
Spindle							
Chuck size	inch	10		15		15	
Type of spindle nose		A ₂ -8		A ₂ -11		A ₂ -11	
Spindle speed range	rpm	3500		2000		1500	
Spindle bore	mm	Φ87		Φ100		Φ130	
Max. bar capacity (Equipped with through-hole hydraulic chuck)	mm	Φ74		Φ80		Φ80	
Spindle motor power	kW	15/18.5	18.5/22	22/30		22/30	
Travel							
Max Cross travel of X axis	mm	260		375		435	
Max Cross travel of Z axis	mm	1040/1600		1020/1520/2020/3020		1020/1520/2020/3020	
Rapid traverse of X/Z axis	m/min	12/12 Box way 24/16 Linear guideway		12/16		12/16	
Tool post							
Turret type and tool numbers		12-position turret Hydraulic	12-position live tooling turret	12-position turret Hydraulic	12-position live tooling turret	12-position turret Hydraulic	12-position live tooling turret
Tool shank size	mm	25×25		32×25		32×25	
Indexing time(adjacent/farthest)	s	0.45/1.45	0.94/1.33	0.45/2.2	0.94/1.33	0.45/2.2	0.94/1.33
Tailstock							
Diameter of tailstock quill	mm	Φ100		Φ160		Φ160	
Tailstock quill stroke	mm	139		180		180	
Accuracy							
X(C) axis positioning accuracy	mm	0.011	0.011(44")	0.011	0.011(44")	0.011	0.011(44")
Z axis positioning accuracy	mm	0.018/0.021	0.018/0.021	0.018/0.021/0.021/0.021	0.018/0.021/0.021/0.021	0.018/0.021/0.021/0.021	0.018/0.021/0.021/0.021
X(C) axis repeatability accuracy	mm	0.004	0.004(18")	0.004	0.004(18")	0.004	0.004(18")
Z axis repeatability accuracy	mm	0.007/0.009	0.007/0.009	0.007/0.009/0.009/0.009	0.007/0.009/0.009/0.009	0.007/0.009/0.009/0.009	0.007/0.009/0.009/0.009
Controller							
CNC Controller		FANUC 0i-TF(5) Plus SIEMENS 828D	FANUC 0i-TF(1) Plus SIEMENS 828D	FANUC 0i-TF(1) Plus SIEMENS 828D			
General							
Machine dimensions(L×W×H) Rear chip conveyor	mm	5010×2020×2110(1000) 5200×2020×2110(1500)		5962×2095×2215(1000) 6461×2153×2268(1500) 6961×2153×2268(2000) 8349×2376×2383(3000)		5962×2312×2455(1000) 6461×2374×2505(1500) 6961×2376×2505(2000) 8349×2599×2618(3000)	
Machine weight	kg	7800/8300		11000/12000/13000/14500		11500/12500/13500/15000	

Standard configurations

- Hydraulic 12-position turret for DL-M series
- Italy 12-position live tooling turret for DL-MH series
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & X/Z THK linear guideways
- Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Automatic lubrication system
- One Axial and radial power tool holder for DL-MH series
- Standard toolkit

Optional

- Tool presetter
- Oil mist separator
- Bar feeder and parts catcher
- Germany hydraulic steady rest
- Air conditioner
- Through-hole hydraulic chuck and cylinder
- Domestic hydraulic steady rest
- Automatic door

Vertical Machining Center

VDLS Series



Specification	Unit	VDLS600		VDLS850		VDLS1000		VDLS1300		VDLS1200	
Table											
Worktable size(L×W)	mm	800×420		1000×500		1120×560		1300×560		1220×620	
Max. load	kg	500		600		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		Linear guideway	X/Y Linear guideway Z Box way	Linear guideway	X/Y Linear guideway Z Box way	Linear guideway	X/Y Linear guideway Z Box way
Distance from spindle center to column	mm	545		607		629	666	629	666	725	660
Distance from spindle nose to table	mm	140~680		145~705		125~745		125~745		95~780	
Spindle											
Spindle motor power	kW	7.5/11		7.5/11		7.5/11	11/15	7.5/11	11/15	11/15	
Max. spindle speed	r/min	12000 Direct-driven	Opt:8000 Belt-driven	12000 Direct-driven	Opt:8000 Belt-driven	12000 Direct-driven	Opt:8000 Belt-driven/ Gear-driven	12000 Direct-driven	Opt:8000 Belt-driven/ Gear-driven	12000 Direct-driven	Opt:6000 Belt-driven/ Gear-driven
Spindle taper		No.40(7:24)		No.40(7:24)		No.40(7:24)		No.40(7:24)		No.40(7:24)	No.50(7:24)
Feedrate											
Rapid traverse of X/Y/Z axis	m/min	36/36/30		36/36/30		36/36/30	24/24/20 OPT(36/36/20)	36/36/30	24/24/20 OPT(36/36/20)	36/36/30	24/24/20 OPT(36/36/20)
Max. cutting feed rate	m/min	10		10		10		10		10	
ATC											
Tool magazine capacity		24T/Arm		24T/Arm		24T/Arm		24T/Arm		24T/Arm	
Tool shank type		BT40		BT40		BT40		BT40		BT40	BT50
Max. tool weight	kg	8		8		8		8		15	
Max. tool diameter (w/o adjacent tools)	mm	Φ78/155		Φ78/155		Φ78/155		Φ78/155		Φ78/155	Φ125/250
Tool change time (T-T)	S	2.7		2.7		2.7		2.7		2.7	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)Plus,FANUC 0i-MF(1)Plus,SIEMENS 828D,MITSUBISHI M80B									FANUC 0i-MF(1)Plus SIEMENS 828D
General											
Machine dimensions(L×W×H)	mm	2445×2451×2625		2496×2530×2679		2800×2671×2820		3100×2671×2820		2990×2641×2759	
Machine weight	kg	4600		5600		7000		7200		8500	

Standard configurations

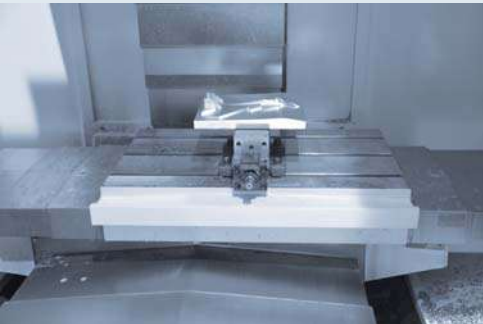
- 24T arm-type ATC
- Ball screw and linear guideway
- Spindle oil chiller
- Spindle coolant ring
- Spindle air blow
- Heat exchanger
- Compact oil-water separator
- Screw-type chip conveyor
- Rigid tapping
- Workpiece coolant system
- Air gun
- Automatic lubrication system

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	VDF1500	VDF1800
Table			
Worktable size(L×W)	mm	1700×800	2000×800
Max. load	kg	2500	2500
T-slots(numbers*width* centre distance)	mm	6×18×125	6×18×125
Travel			
X/Y/Z axis travel	mm	1560/830/790	1880/830/790
X/Y/Z axis guide way type		Box way (Y - 4)	Box way (Y - 4)
Distance from spindle center to column	mm	850	850
Distance from spindle nose to table	mm	186 ~ 976	166 ~ 956
Spindle			
Spindle motor power	kW	15/18.5	15/18.5
Max. spindle speed	r/min	6000	6000
Spindle taper		No.50(7/24)	No.50(7/24)
Feedrate			
Rapid traverse of X/Y/Z axis	m/min	15/15/12	15/15/12
Max. cutting feed rate	m/min	6	6
ATC			
Tool magazine capacity		24T/Arm	24T/Arm
Tool shank type		BT50	BT50
Max. tool weight	kg	15	15
Max. tool diameter (w/o adjacent tools)	mm	24T:Φ125/250	24T:Φ125/250
Tool change time (T-T)	S	3.5	3.5
Accuracy			
X/Y/Z axis positioning accuracy	mm	0.019/0.008/0.008	0.019/0.008/0.008
X/Y/Z axis repeatability accuracy	mm	0.008/0.005/0.005	0.008/0.005/0.005
CNC controller			
CNC controller		FANUC 0i-MF (1) Plus,SIEMENS 828D	
General			
Machine dimensions(L×W×H)	mm	4580×3250×3120	5200×3250×3120
Machine weight	kg	14000	14500

Standard configurations

- 24T arm-type ATC
- Ball screw and linear guideway
- Heat exchanger
- Spindle air blow
- Spindle coolant ring
- 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
- 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 guide way type		Linear roller guideway
Distance from spindle center to column	mm	623
Distance from spindle nose to table	mm	120 ~ 720
Spindle		
Spindle motor power	kW	7.5/11
Max. spindle speed	r/min	12000(Direct drive)
Spindle taper		No.40(7:24)
Feedrate		
Rapid traverse of X/Y/Z axis	m/min	48/48/48
Max. cutting feed rate	m/min	10
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,FANUC 0i-MF(5)Plus,FANUC 0i-MF(1)Plus,SIEMENS 828D,GSK 25i
IDGeneral		
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 coolant ring
- 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

5-axis Vertical Machining Center

VDU Series



Specification	Unit	VDU650
Table		
Work table size	mm	Φ650
Max. load	Kg	600
Clamping area	mm	Φ800×500
T-slots (numbers*width* centre distance)		5×18×45°
Table indexing (A axis×C axis)		±130° ×360°
Rotating speed(A/C axis)	rpm	15/30
Travel		
X/Y/Z axis travel	mm	650/650/500
X/Y/Z axis guideway type		Linear roller guideway
Distance from spindle nose to table	mm	150 ~ 650
Feedrate		
X/Y/Z axis rapid traverse	m/min	45/45/45(OP:60/60/60)
Max. Cutting feedrate	m/min	30
Spindle		
Spindle type		Direct drive spindle
Spindle motor power	kW	8
Spindle motor torque	N.m	44
Max. spindle speed	rpm	12000(Opt:15000)
ATC		
Tool magazine capacity		20T Spindle direct take type Opt:30T/40T/50T/60T
Tool shank type		HSK-A63
Max.tool weight	kg	8
Max.tool diameter(w/o adjacent tools)	mm	Φ76 (Φ125)
Max.tool length	mm	300
Accuracy		
X/Y/Z axis positioning accuracy	mm	0.008
X/Y/Z axis repeatability accuracy	mm	0.005
A/C axis positioning accuracy	inch	10" (A)、8" (C)
A/C axis repeatability accuracy	inch	4" (A)、3" (C)
CNC controller		
CNC controller		SIEMENS ONE
General		
Machine dimensions(L×W×H)	mm	5300×2600×3235
Machine weight	kg	15000

Standard configurations

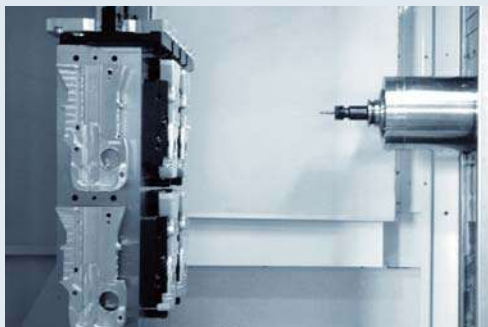
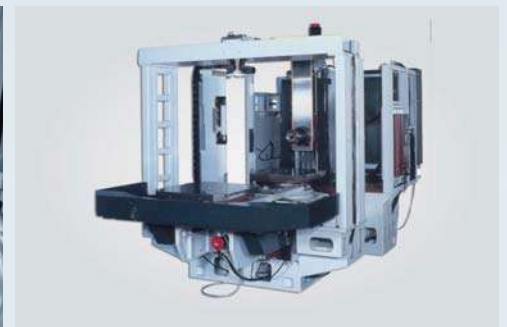
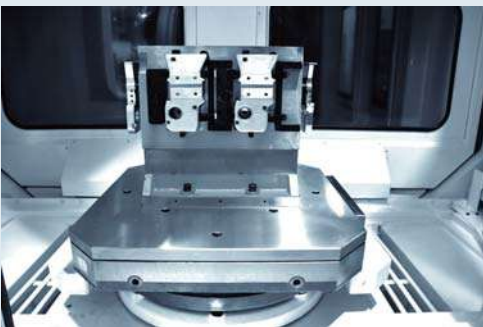
- Ball screw and linear guideway(Taiwan, China)
- Chain-type chip conveyor and chip cart
- Air conditioner
- 20T Arm-type ATC
- Spindle air blow
- Rigid tapping
- Spindle oil chiller
- Workpiece Coolant system
- Air gun
- Automatic lubrication system

Optional

- 30T/40T/50T/60T ATC
- 15000rpm Direct drive spindle
- 2Mpa coolant through spindle/7Mpa coolant through spindle
- 3 Axis linear scale(Heidenhain)
- High volume flushing system
- Tool probe & workpiece probe

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 Opt:BRT		IT Opt:BRT		IT Opt:BRT			IT Opt:BRT			IT Opt: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°)	
Table indexing time	S	1.9(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			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											
Distance from table surface to spindle center	mm	80~700		80~830		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			45			45	
Max. cutting feed rate	m/min	20		20		20			20			20	
Spindle													
Spindle taper		No.40 (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(Motorized) Opt:12000(Motorized) Opt:6000(Geardrive)		8000(Motorized) Opt:12000(Motorized) Opt:6000(Geardrive)			8000(Motorized) Opt:12000(Motorized) Opt:①4000(Geardrive) Opt:②4000(Geardrive)			6000(Motorized) Opt:8000, 12000 (Motorized) Opt:6000(Geardrive)	
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:25/30 12000rpm:25/30 ①4000rpm:22/26 ②4000rpm:30/37			6000rpm:37/55 8000rpm:25/30 12000rpm:25/30 6000rpm:22/26	
ATC													
Tool magazine capacity	T	40		40		40			40			40	
Tool shank type		BT40		BT50		BT50			BT50			BT50	
Max. tool length	mm	350		500		500			500			500	
Max. tool weight	Kg	8		25		25			25			25	
Max. tool diameter (w/oadjacenttools)	mm	Φ82(Φ150)		Φ115(Φ270)		Φ115(Φ270)			Φ115(Φ270)			Φ115(Φ270)	
Tool changing time(T-T)	s	1.2		2		2			2.5			2.5	
Accuracy													
X/Y/Z axis positioning accuracy	mm	0.008		0.008		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			X:0.007 Y:0.007 Z:0.007	
CNC controller													
CNC controller		FANUC 31i		FANUC 31i		FANUC 31i			FANUC 31i			FANUC 31i	
General													
Machine dimension(L×W×H)	mm	5952×2558×2771	5952×2558×2771	4912×3200×3125	4190×3200×3125	4921×3200×3125	6145×3342×3355	4450×3342×3355	6145×3342×3355	6153×3717×3827	5050×3682×3827	6153×3717×3827	8180×6087×3702
Machine weight	Kg	8000	8000	15000	14000	15000	18000	16500	18500	24000	21000	24500	32500

Standard configurations

- Spindle with two speed range
- Core-cooled ball screws
- Chain type 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 type 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

The combination of machine tools and automatic line



SUPPLY CHAIN



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