



General Technology Group Dalian Machine Tool Co., Ltd.

A GENERTEC COMPANY



General Technology Group Dalian Machine Tool Import and Export Co., Ltd.

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# CATALOGUE

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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 85 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 <b>1935</b>	 SALES QUANTITY <b>500000+</b> SETS	 PRODUCT MODEL <b>500+</b> KINDS	 ONLINE SERVICE <b>24</b> HOURS
 SALES TEAM <b>200+</b>	 SERVICE TEAM <b>150+</b>	 TECHNICAL TEAM <b>500+</b>	 WORLDWIDE MARKET <b>100+</b> COUNTRIES



Conventional Lathe Workshop



Slant Bed CNC Lathe Workshop



Flat Bed CNC Lathe Workshop



VMC Workshop



# 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
<b>Spindle</b>					
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)
<b>Tailstock</b>					
Diameter of tailstock quill	mm	Φ75			Φ75
Travel of tailstock quill	mm	150			150
Taper of tailstock quill		No.5 MT			No.5 MT
<b>Feeds&amp;Threads (metric screw *inch screw)</b>					
Longitudinal feed	mm/r	0.035 ~ 2.842 (63 Speeds)	*0.0013 ~ 0.1057in/r(63 Speeds)		0.054 ~ 2.842 (54 Speeds)
Cross feed	mm/r	0.009 ~ 0.804	*0.0003 ~ 0.0304in/r		0.015 ~ 0.804 (54 Speeds)
Metric threads	mm	0.5 ~ 240 (66 Kinds)	*0.5 ~ 160 (43 Kinds)		0.5 ~ 120 (56 Kinds)
Modular threads	mm	0.25 ~ 120 (57 Kinds)	*0.25 ~ 80 (38 Kinds)		0.25 ~ 60 (47 Kinds)
Inch threads	TPI	80 ~ 1/4(49 Kinds)	*80 ~ 1/4(47 Kinds)		80 ~ 7/16(42 Kinds)
Diametral pitch threads	DP	160 ~ 7/16(50 Kinds)	*160 ~ 7/16(48 Kinds)		160 ~ 7/8(25 Kinds)
<b>Tool post</b>					
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	348			373
	Z-axis	700/950/1450/1950/2950			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			
<b>Spindle</b>					
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)			
<b>Tailstock</b>					
Diameter of tailstock quill	mm	Φ75			
Travel of tailstock quill	mm	150			
Taper of tailstock quill		No.5 MT			
<b>Feeds&amp;Threads (metric screw *inch screw)</b>					
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)			
<b>Tool post</b>					
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	315		340	
	Z-axis	950/1450/1950/2950		950/1450/1950/2950	
Machine dimensions(L×W×H)	mm	2930×1223×1295 (1000)	3430×1223×1295 (1500)		2930×1223×1370 (1000)
		3930×1223×1295 (2000)	4930×1223×1295 (3000)		3430×1223×1370 (1500)
				3930×1223×1370 (2000)	
				4930×1223×1370 (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 rest
- Electromagnetic clutch
- Taper-turning attachment
- Gear for special thread(Metric machine)



# 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		
<b>Spindle</b>				
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)		
<b>Tailstock</b>				
Diameter of tailstock quill	mm	Φ100		
Travel of tailstock quill	mm	250		
Taper of tailstock quill		No.6 MT		
<b>Feeds&amp;Threads (metric screw *inch screw)</b>				
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)		
<b>Tool post</b>				
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	Φ1250	Φ1250	Φ1250	Φ1600	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	700	700	700	800	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 crossslide	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
	Opt:Horizontal 6-position	mm	Φ300	Φ300	Φ400	Φ400	Φ400	Φ620	Φ620
	Opt:Horizontal 8-position	mm	—	—	—	Φ370	Φ370	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 <sub>2</sub> -6	A <sub>2</sub> -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) 2700(1500)	2600(1000) 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

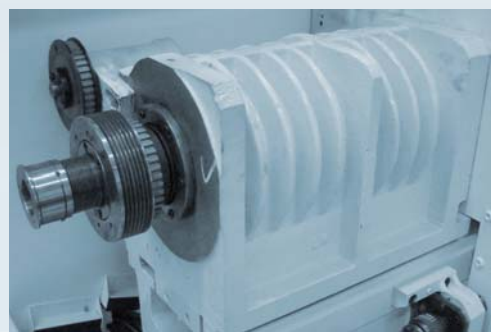
- 3-Jaw manual chuck
- Manual tailstock
- Servo spindle motor(CKD6150,CKE6136/6140/6150 Series)
- Frequency spindle motor(CKE6163/6180/61100 Series)
- FANUC Oi-TF(5) system
- Vertical 4-position turret
- Heat exchanger

## 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	
<b>Spindle</b>							
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 <sub>2</sub> -6	A <sub>2</sub> -5	A <sub>2</sub> -6	A <sub>2</sub> -5	A <sub>2</sub> -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	
<b>Tailstock</b>							
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	
<b>Travel</b>							
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	
<b>Tool post</b>							
Tool shank size (Vertical 4-positon)	mm	20×20	20×20	20×20	20×20	25×25	
<b>Accuracy</b>							
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)	
<b>General</b>							
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 0i-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
	Opt:Horizontal 8-position	mm	Φ700
Spindle center height	mm	500	625
Bed guideway width	mm	755	755
<b>Spindle</b>			
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 <sub>2</sub> -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
<b>Tailstock</b>			
Tailstock quill diameter	mm	Φ200	
Tailstock quill travel	mm	300	
Tailstock quill taper		No 6 MT	
<b>Travel</b>			
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	
<b>Tool post</b>			
Tool shank size (Vertical 4-positon)	mm	40×40	
<b>Accuracy</b>			
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)	
<b>General</b>			
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 0i-TF(1) system
- 4-Jaw manual chuck
- Vertical 4-position turret
- Manual tailstock(≤4000mm),Electric tailstock(>4000)
- Chip conveyor
- Heat exchanger

**Optional**

- Siemens/FANUC 0i-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			
<b>Spindle</b>						
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
<b>Travel</b>						
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	
<b>Tool post</b>						
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)	
<b>Tailstock</b>						
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	
<b>Accuracy</b>						
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	
<b>Controller</b>						
CNC Controller			FANUC 0i-TF			
<b>General</b>						
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

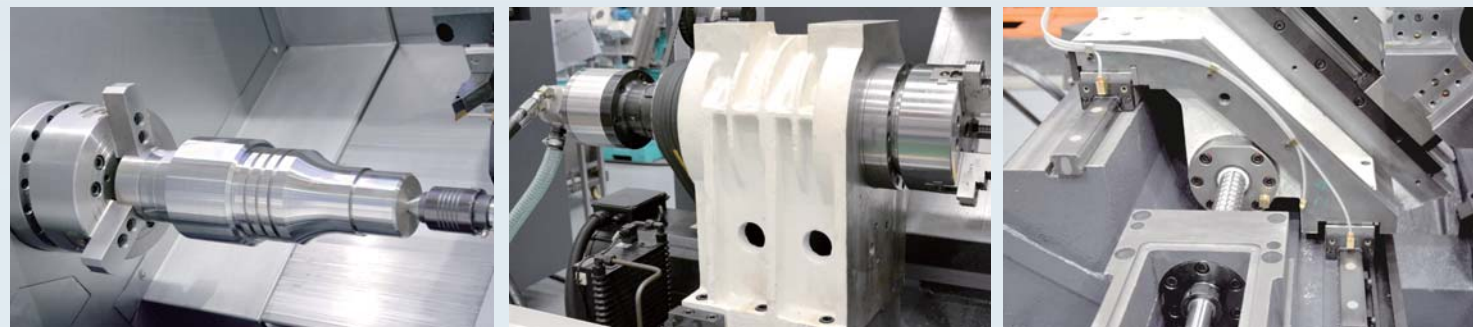
- SIEMENS 828Dsl or GSK 988T controller
- Electric servo turret
- High-flow water pump
- METRAL and RENISHAW tool presetter
- Air conditioner
- TAIWAN through-hole hydraulic chuck and cylinder
- Bar feeder and parts catcher
- Automatic door
- Door inter-lock



# 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			
<b>Spindle</b>						
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
<b>Travel</b>						
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	
<b>Tool post</b>						
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)	
<b>Tailstock</b>						
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	
<b>Accuracy</b>						
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	
<b>Controller</b>						
CNC Controller			FANUC 0i-TF(5)			
<b>General</b>						
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 <sub>2</sub> -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 <sub>2</sub> -5		A <sub>2</sub> -6		A <sub>2</sub> -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 Oi-TF						
General								
Machine dimensions(L×W×H)	mm	2360×2510×1835(300)		2922×3050×2010(600)		2922×3050×2010(600)		3222×3050×2010(600)
Rear chip conveyor		2660×2510×1835(500)		3422×3050×2010(1000)		3422×3050×2010(1000)		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 Opt.Linear guideway(1000)	Linear guideway	Box way	Box way
Spindle						
Chuck size	inch	8	10	12	15	15
Type of spindle nose		A <sub>2</sub> -6	A <sub>2</sub> -8	A <sub>2</sub> -8	A <sub>2</sub> -11	A <sub>2</sub> -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		FANUC Oi-TF				
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

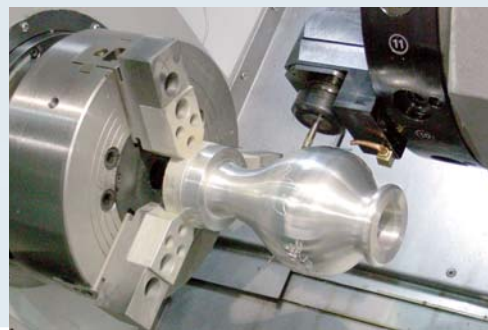
- Hydraulic 12-position turret
- NSK spindle bearings and X/Z axis bearings
- X/Z THK ball screws & THK linear guideways
- TAIWAN Non through-hole hydraulic chuck
- Hydraulic tailstock
- Heat exchanger
- Chain-type chip conveyor
- Automatic lubrication system
- Standard toolkit

### Optional

- SIEMENS 828Dsl
- 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 <sub>2</sub> -6	A <sub>2</sub> -8	A <sub>2</sub> -8	A <sub>2</sub> -11	A <sub>2</sub> -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 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

- 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 Oi-MF(5)	FANUC Oi-MF(5)	FANUC Oi-MF(5)	FANUC Oi-MF(5)	FANUC Oi-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 column	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 0i-MF(5)	FANUC 0i-MF(1)	FANUC 0i-MF(1)	FANUC 0i-MF(1)
General					
Machine dimensions(L×W×H)	mm	2496×2530×2679	2993×2705×2888	4600×3690×3220	5240×3510×3220
Machine weight	kg	5600	8500	14000	14500

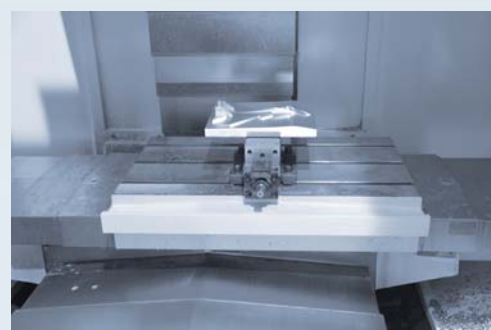
\*8000rpm(Toothed belt drive),10000rpm(direct drive)

### 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)		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 0i-MF(1)	FANUC 0i-MF(1)		FANUC 0i-MF(1)		FANUC 0i-MF(1)		FANUC 0i-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	500
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	0.008/0.008/0.008
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005
CNC controller		
CNC controller		mitsubishi M80B、GSK 25iMC
General		
Machine dimensions(L×W×H)	mm	3160×2280×2818
Machine weight	kg	5800



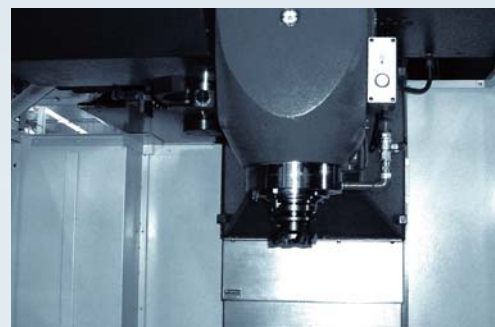
#### Standard configurations

- 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
<b>Table</b>				
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
<b>Travel</b>				
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
<b>Feedrate</b>				
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
<b>Spindle</b>				
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)
<b>ATC</b>				
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 changer
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
<b>Accuracy</b>				
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
<b>CNC controller</b>				
CNC controller		FANUC 31i-MB	FANUC 31i-MB	FANUC 31i-MB
<b>General</b>				
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
<b>Table</b>		
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
<b>Travel</b>		
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
<b>Feedrate</b>		
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
<b>Spindle</b>		
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
<b>ATC</b>		
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
<b>Machining capacity</b>		
Tapping range(steel)		M3 ~ M24
Max.drilling diameter(steel)		Φ36
<b>Accuracy</b>		
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)
<b>CNC controller</b>		
CNC controller		SIEMENS SINUMERIK 840Dsl、 HEIDENHAIN iTNC 640
<b>General</b>		
Machine dimensions(L×W×H)	mm	5242×4650×3260
Machine weight	kg	8000

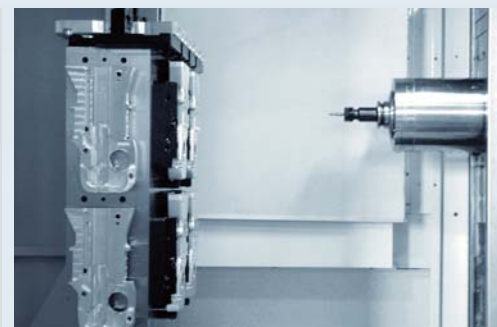
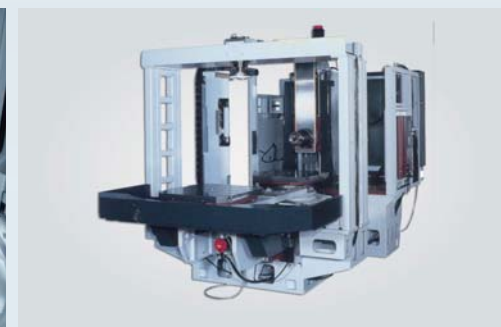
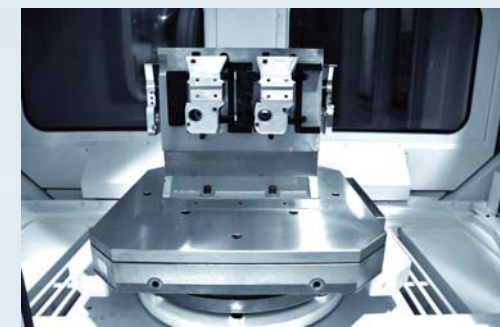
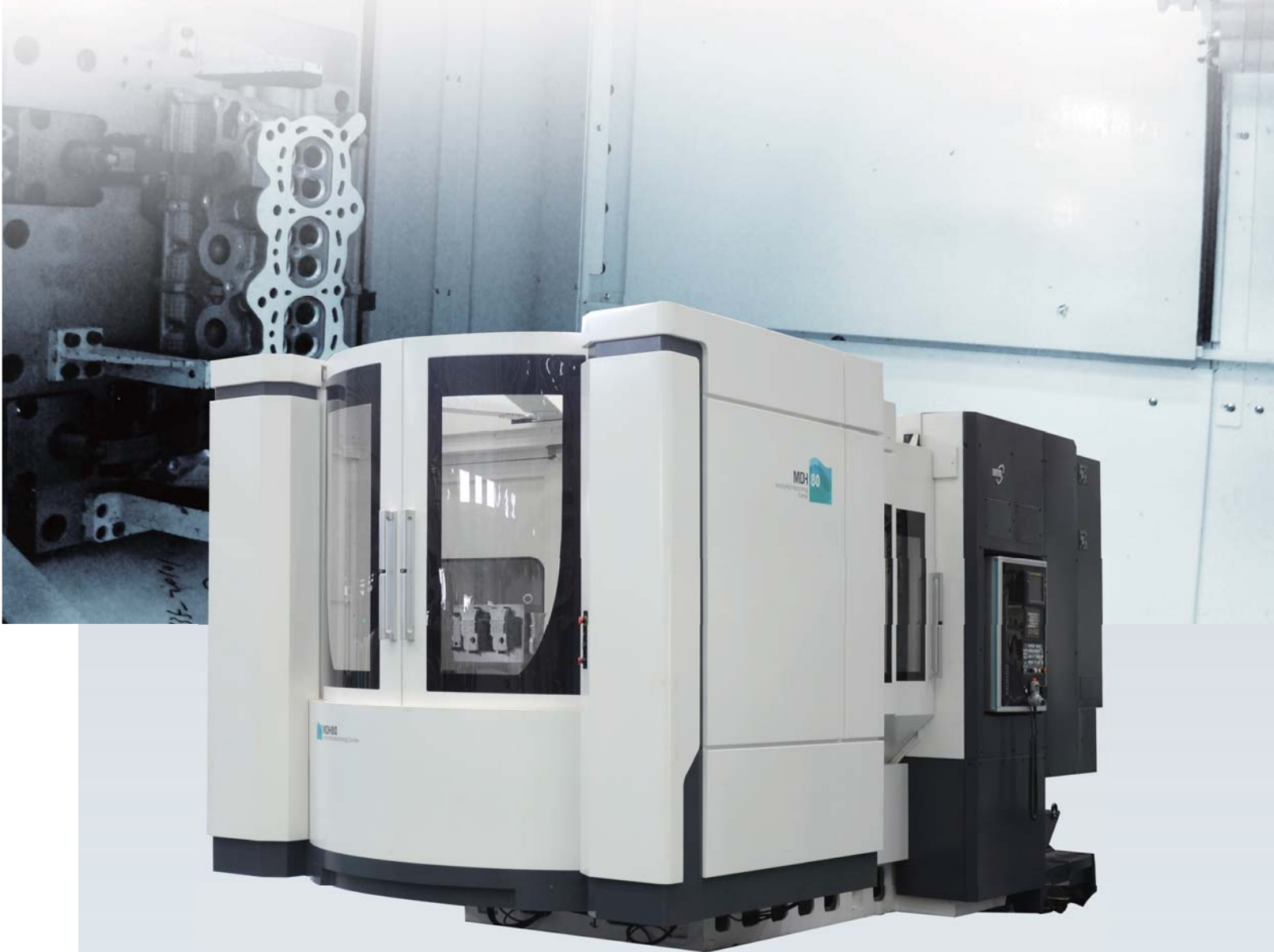
### Standard configurations

- 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	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		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		80~1180		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		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:25/30 12000rpm:25/30 4000rpm:22/26 4000rpm:30/37		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/o 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		2.5		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
<b>Travel</b>					
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	
<b>Table</b>					
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	
<b>Spindle</b>					
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
<b>Accuracy</b>					
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	
<b>Feedrate</b>					
Cutting feed rate	mm/min	1~5000		1~5000	
Rapid traverse of X/Y/Z axis	m/min	24/24/16		24/24/16	
<b>ATC (Opt.)</b>					
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	∅ 125/ ∅ 225		∅ 125/ ∅ 225	
Max. tool length	mm	300		300	
Max. tool weight	kg	20		20	
Tool change time (T-T)	s	5		5	
<b>General</b>					
Machine dimension (L × W × H)	mm	6600×4300×4600		6600×4600×4600(Opt:5000)	
Machine weight	kg	20000		25000	

### Standard configurations

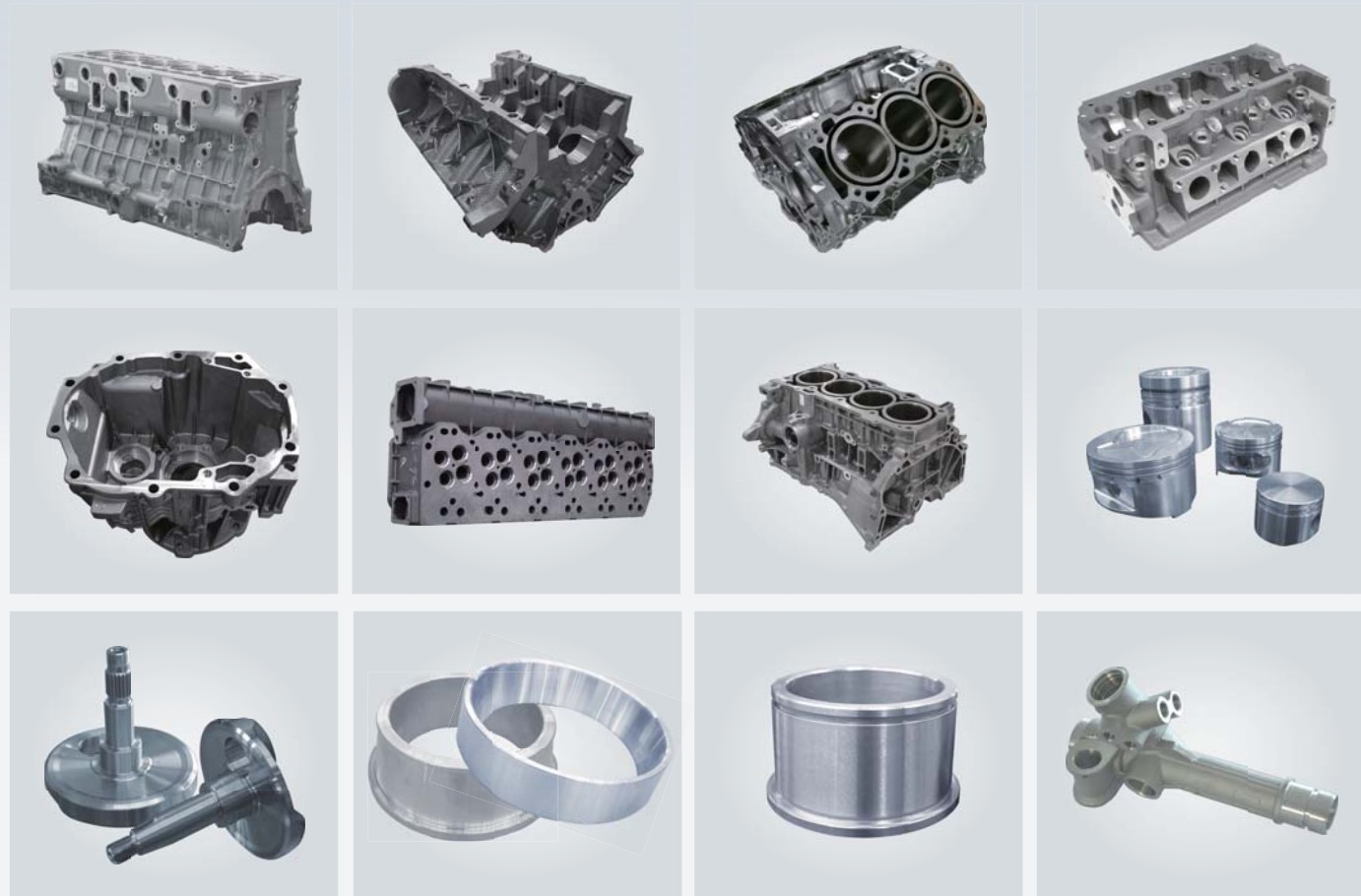
- FANUC 0i-MF(1) Control System
- Oil chiller
- Screw type chip conveyor
- Chain-type chip conveyor (not include water tank)
- Heat exchanger
- MPG
- ZF Spindle gear box (Germany)
- Ball screw bearings (NSK JAPAN)
- Ball screw and linear guide way for X/Y Axis (PMI TAIWAN)

### 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



## SUPPLY CHAIN



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