通用技术大连机床
GENERTEC DALIAN MACHINE TOOL

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# CATALOGUE

## 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**

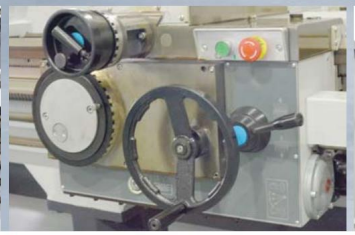
**VI Gantry Machining Center**

**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)<br>3430×1223×1295 (1500)<br>3930×1223×1295 (2000)<br>4930×1223×1295 (3000) | | 2930×1223×1370 (1000)<br>3430×1223×1370 (1500)<br>3930×1223×1370 (2000)<br>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
- Quick-change tool post
- Spindle center and center sleeve
- Live center of tailstock
- Face plate
- Large-sized Steady rest&Follow rest
- Thread dial
- Drive Plate
- Electromagnetic clutch
- Electromagnetic brake
- DRO
- Taper-turning attachment
- 11Kw spindle motor
- Carriage stop
- Gear for special thread(Metric machine)
- Anti-vibration/Adjustable pads
- Stead rest &Follow rest

# 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)<br>*32~1/16(67 Kinds) | 14~1(26 Kinds)<br>*32~1/16(67 Kinds) | 28~1(34 Kinds)<br>*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)<br>3630×1340×1830(1500)<br>4230×1340×1830(2000)<br>5130×1340×1830(3000)<br>6040×1430×1830(4000)<br>7120×1430×1830(5000)<br>8240×1430×1830(6000) | 3180×1380×1830(1000)<br>3630×1380×1830(1500)<br>4230×1380×1830(2000)<br>5130×1380×1830(3000)<br>6040×1470×1830(4000)<br>7120×1470×1830(5000)<br>8240×1470×1830(6000) | 3180×1460×1830(1000)<br>3630×1460×1830(1500)<br>4230×1460×1830(2000)<br>5130×1460×1830(3000)<br>6040×1550×1830(4000)<br>7120×1550×1830(5000)<br>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

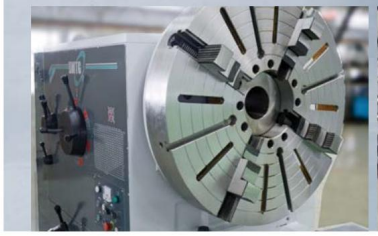
## Standard accessories

- 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)<br>5950×1855×1890(3000)<br>6950×1855×1890(4000)<br>7950×1855×1890(5000)<br>8950×1855×1890(6000)<br>10950×1855×1890(8000) | 4450×1955×2015(1500)<br>5950×1955×2015(3000)<br>6950×1955×2015(4000)<br>7950×1955×2015(5000)<br>8950×1955×2015(6000)<br>10950×1955×2015(8000) | 4450×2010×2165(1500)<br>5950×2010×2165(3000)<br>6950×2010×2165(4000)<br>7950×2010×2165(5000)<br>8950×2010×2165(6000)<br>10950×2010×2165(8000) | 4450×2110×2355(1500)<br>5950×2110×2355(3000)<br>6950×2110×2355(4000)<br>7950×2110×2355(5000)<br>8950×2110×2355(6000)<br>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/ 5900/7100/8100 | 5300/5600/6100/ 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<br>(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)<br>6820×2300×2000(2000)<br>7820×2300×2000(3000)<br>8820×2300×2000(4000)<br>9820×2300×2000(5000)<br>10820×2300×2000(6000) | 6320×2520×2250(1500)<br>6820×2520×2250(2000)<br>7820×2520×2250(3000)<br>8820×2520×2250(4000)<br>9820×2520×2250(5000)<br>10820×2520×2250(6000) |
| Machine weight | t | 13.5/14/15/16/17/18 | 14.5/15/16/17/18/19 |

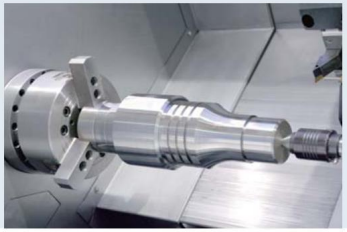
## Standard configurations

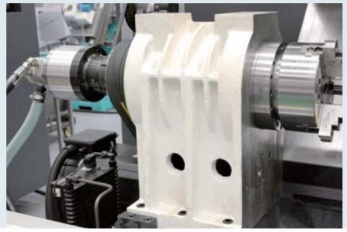
- Servo spindle motor
- FANUC 0i-TF (1) Plus system
- 4-Jaw manual chuck
- Vertical 4-position turret
- Manual tailstock(≤4000mm),Electric tailstock(＞4000)
- Chip conveyor
- Heat exchanger

## 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)<br>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) | 6320×2462×2720(1000) |
| Machine weight | kg | 4000/4800 | | | | 5300/6300 | | | | 5500/6500 | | 5500/6500 | | 6500/6700 | 13000 |

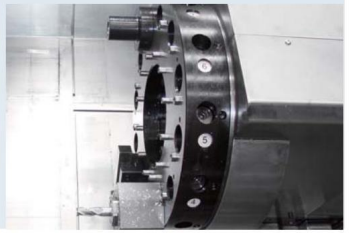
## Standard configurations

- 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<br>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<br>(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<br>24/16 Linear guideway | | 12/16 | | 12/16 | |
| Tool post | | | | | | | |
| Turret type and tool numbers | | 12-position turret<br>Hydraulic | 12-position<br>live tooling turret | 12-position turret<br>Hydraulic | 12-position<br>live tooling turret | 12-position turret<br>Hydraulic | 12-position<br>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(S) Plus<br>SIEMENS 828D | FANUC 0i-TF(1) Plus<br>SIEMENS 828D | FANUC 0i-TF(1) Plus<br>SIEMENS 828D | | | |
| General | | | | | | | |
| Machine dimensions(L×W×H)<br>Rear chip conveyor | mm | 5010×2020×2110(1000)<br>5200×2020×2110(1500) | | 5962×2095×2215(1000)<br>6461×2153×2268(1500)<br>6961×2153×2268(2000)<br>8349×2376×2383(3000) | | 5962×2312×2455(1000)<br>6461×2374×2505(1500)<br>6961×2376×2505(2000)<br>8349×2599×2618(3000) | |
| Machine weight | kg | 7800/8300 | | 11000/12000/13000/14500 | | 11500/12500/13500/15000 | |

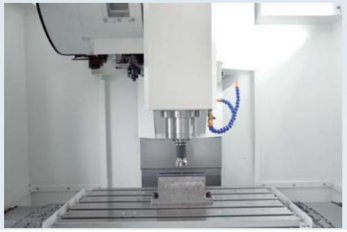
## Standard configurations

- 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 | |

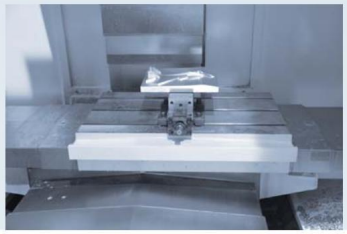
## Standard configurations

- 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 |

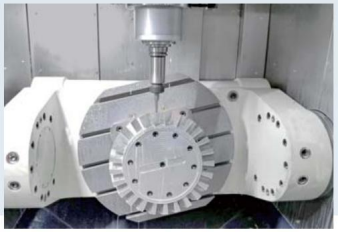
## Standard configurations

- 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 |

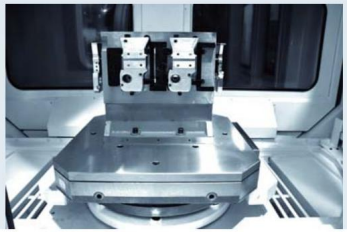
## Standard configurations

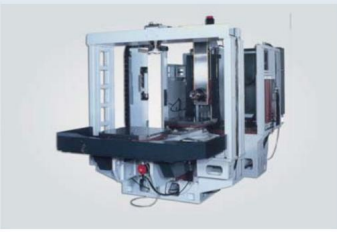
- Ball screw and linear guideway(Taiwan, China)
- Chain-type chip conveyor and chip cart
- Air conditioner
- 20T Arm-type ATC
- Spindle air blow
- Rigid tapping
- Spindle oil chiller
- Workpiece Coolant system
- Air gun
- Automatic lubrication system

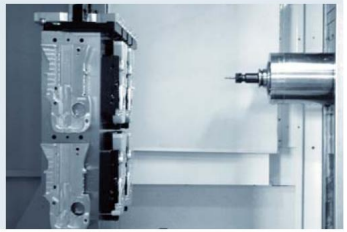
## Optional

- 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(Gear drive) | | | 8000(Motorized) Opt:12000(Motorized) Opt:6000(Gear drive) | | | 8000(Motorized) Opt:12000(Motorized) Opt:①4000(Gear drive) Opt:②4000(Gear drive) | | | 6000(Motorized) Opt:8000、12000 (Motorized) Opt 6000(Gear drive) |
| Spindle motor power (Continueous/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/o adjacent tools) | 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 | 5145×3342×3355 | 5450×3342×3350 | 5145×3342×3350 | 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
- Ceiling shower
- Tool probe &work piece probe
- Oil-water separator system
- Chain-type chip conveyor
- Mist collector
- 60T/80T/120T Chain type tool magazine(60T/80T MDH125)
- Coolant-through spindle coolant system and high-pressure unit

# The combination of machine tools and automatic line

## SUPPLY CHAIN

FANUC
SIEMENS
GSK
MITSUBISHI
Schneider Electric
THK The Mark of Linear Motion
HIWIN Linear Motion Products & Technology
PMI Linear Motion Systems
NSK
NACHI
GM
Ford
HONDA
Gates
BYD
HYUNDAI HEAVY INDUSTRIES CO.,LTD.
SAMSUNG

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