



Doosan Machine Tools

# PRODUCT LINEUP



## Overview

### Product Full Line-up

Full Line-up of Products  
Turning Center  
Machining Center  
Double Column  
Machining Center  
Boring Machine

### iDOO CONTROL

Optimal Technology  
Easy Operation Package  
Service

### Global Support

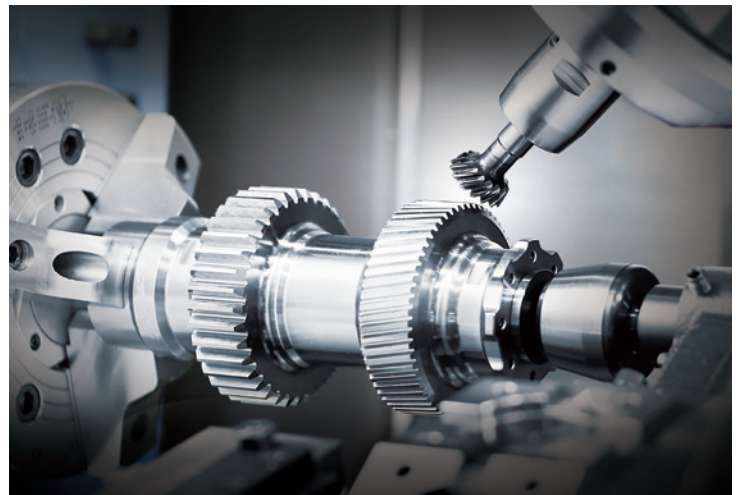
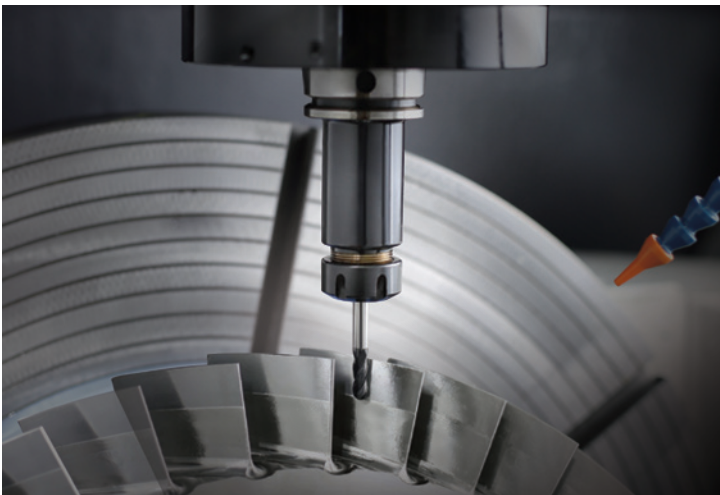
Network  
Overseas Supplies  
System



**Providing cutting-edge technology and optimal solutions to ensure Doosan Machine Tools' customers have a bright future. Satisfying Customer needs by developing leading technology, Supporting successful businesses with quality products and customized solutions. Growing together with innovative technology for customer satisfaction the Doosan Machine Tools' way.**

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Overseas Supplies System**



Product Full Line-up

Full Line-up of Products

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Machining Center

Double Column

Machining Center

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# Continuous Innovation for Advanced Products & Technology

Whatever your needs are, we have the product you need.  
Our full line of competitive high-value machine tools  
delivers unmatched performance and precision.

## Full Line-up of Products

### Horizontal turning centers



### Multi-tasking turning centers



### Vertical turning centers



### Ram type vertical turning centers

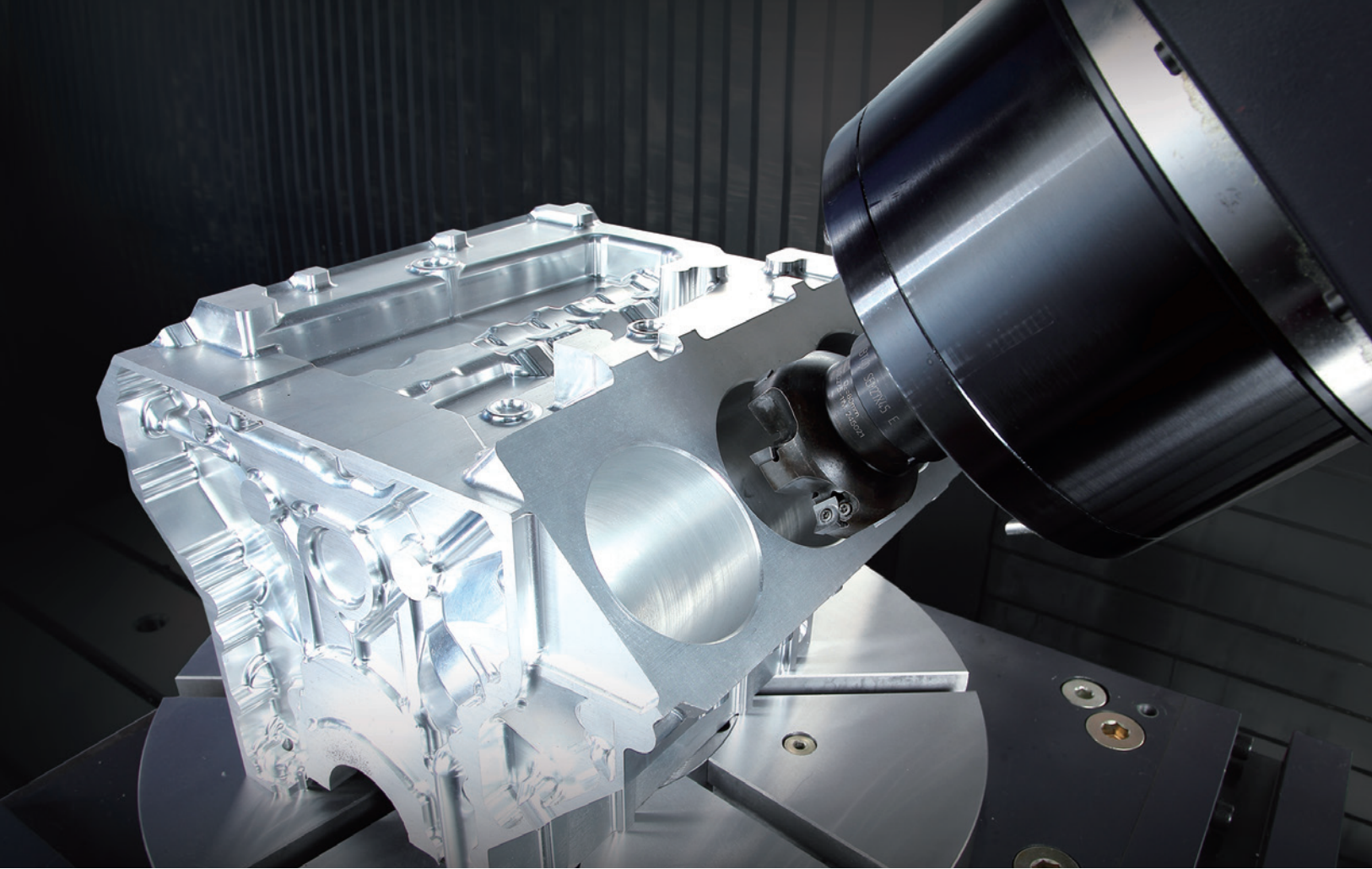


### Swiss type turning centers



### Vertical machining centers

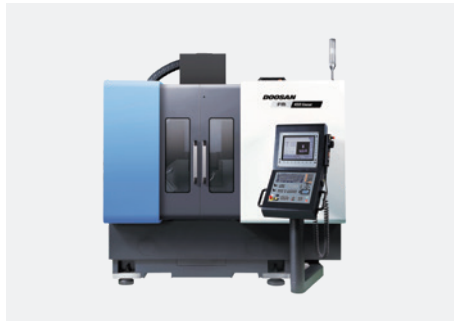




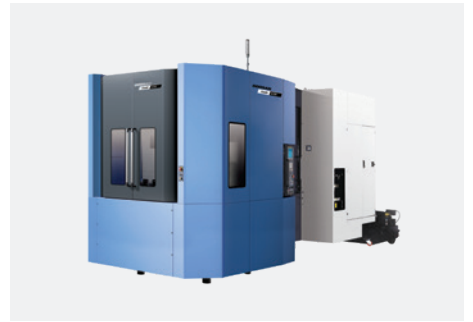
**5-axis vertical machining centers**



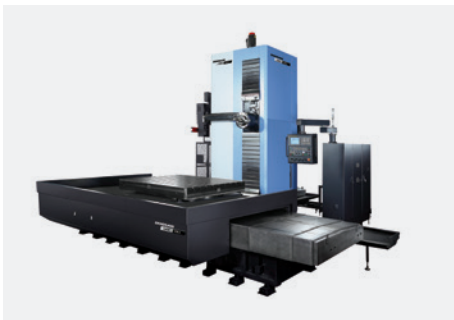
**Die & mold vertical machining centers**



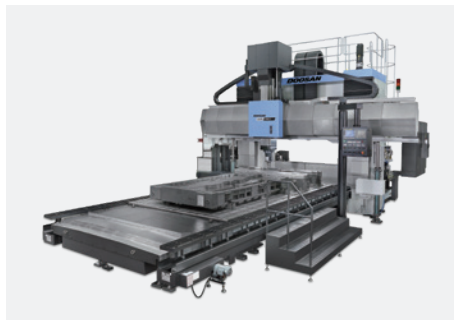
**Horizontal machining centers**



**Horizontal boring mills**



**Double column machining centers**



**Linear Pallet System**



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Optimal solutions through advanced technologies

Through open communication with our customers and shareholders, regarding their current and future needs, our company takes pride in offering effective and flexible manufacturing solutions. In doing so, we guarantee to deliver quality products and services as an integral part of our business policy and operational priority. As we pursue autonomous management by respecting individuals' unique abilities and encourage collaboration and teamwork, we advance the development of innovation and value. This is our vision and management philosophy.

Turning Centers

Horizontal Turning Centers

Compact

LEO 1600

Lynx 2100

A B LA LB  
LC MA MB LMA  
LMB LMC LMSA LMSB  
LMSC LYA LYB LSYA  
LSYB G

Lynx 2600

Y SY

Lynx 210

A B

Lynx 220

A B C LA  
LB LC

Lynx 300

STD M

Multi-Axis

PUMA TT1300

SY SYB SYY SYYB

PUMA TT1800

MS SY

PUMA TT2100

SYY SYYB

PUMA TT2500

MS SY

PUMA TL2000

STD L M LM

PUMA TL2500

STD L XL M  
LM XLM

Aluminum Wheel Turn

PUMA 560 II / 660 II

PUMA 560-MF II

PUMA VAW6000/7500/800

Twin Spindle

PUMA TW2100

STD M

PUMA TW2600

STD M

PUMA TS2100

STD M

PUMA TS2600

STD M

Twin Spindle with Gantry Loader

PUMA TW2100-GL

STD M

PUMA TW2600-GL

STD M

PUMA TS2100-GL

STD M

PUMA TS2600-GL

STD M

High Performance

PUMA 2100

STD L M LM  
LS MS LMS  
Y II LY II SY II LSY II

PUMA 2600

STD L M LM  
LS MS LMS  
Y II LY II SY II LSY II  
B LB MB LMB  
SB MSB YB II LYB II  
SYB II LSYB II

PUMA 3100

STD L XL UL  
M LM XLM ULM  
Y LY XLY ULY

PUMA GT2100

STD M  
B MB

PUMA GT2600

STD L M LM  
XL XLM XLB XLMB

PUMA GT3100

STD L M LM  
A LA MA LMA

PUMA 4100

A B C  
LA LB LC  
XLA XLB XLC  
MA MB MC  
LMA LMB LMC  
XLMA XLMB XLMC

PUMA 5100

A B C  
LA LB LC  
XLA XLB XLC  
MA MB  
LMA LMB  
XLMA XLMB  
LYA LYB LYC  
XLYA XLYB

PUMA 600 II / 700 II / 800 II

STD L II XL II  
M II LM II XLM II  
LY II XLY II  
B II\* LB II\*

PUMA 1000

A B  
MA MB

Multi-Tasking Turning Centers

PUMA MX1600

STD /735 S S/735  
T T/735 ST ST/735

PUMA MX2100

STD L S LS  
T LT ST LST

PUMA MX2600

T ST

PUMA SMX2600

STD S ST

PUMA SMX3100

STD L S LS  
ST

PUMA SMX5100

L LS LB LSB  
XL XLB

Vertical Turning Centers

PUMA V400

STD -2SP M

PUMA V400P

STD

PUMA V8300

STD -2SP M M-2SP

PUMA VT900

STD -2SP M M-2SP

PUMA VT1100

STD M

Ram Type

PUMA VTR1012

F FC

PUMA VTR1216

STD M F FM FC

PUMA VTR1620

STD M

PUMA VTR2025

STD M

PUMA VTR2530

STD M

Disc Brake Machining

PUMA VD3600TT

STD G

Grinding machine for quartz, ceramic materials

Lynx XG600

Swiss Type Turning Centers

PUMA ST10GS II

PUMA ST20GS II / 26GS II

PUMA ST32GS II / 35GS II / 38GS II

- M Milling
- L Long Bed
- G Gang type
- T Lower Turret
- 2SP Twin Spindle
- F Cross rail fixed type
- Y Y-axis Milling
- S Sub Spindle (Right Spindle)
- GL Gantry Loader
- XL Extra Long Bed
- B\* Big Bore (only PUMA 800)

STD Standard model

A B C Chuck size

## Machining Centers / DCM / HBM

### Vertical Machining Centers

#### Tapping Centers

T 4000 STD L HP HS  
 T 3600D  
 T 170/5AX  
 T 5500L

#### Compact

DEM 4000 STD

#### High Productivity & Heavy Duty

DNM 4000 STD  
 SVM 4100 STD  
 DNM 4500 STD S L  
 DNM 5700 STD S L  
 DNM 6700 STD L XL  
 DNM 400 α  
 DNM 500 /50 II  
 DNM 650 P II /50 II  
 DNM 750 II /50 II L II U/50 II

Mynx 5400 II STD /50  
 Mynx 6500 II STD /50  
 Mynx 7500 II STD /50  
 Mynx 9500 STD

#### Dual Pallet / 2 spindle

VC 3600  
 VC 430  
 VC 510

#### 2-Spindle Vertical Machining Center for High Productivity

XC 4000DA-2SP  
 DMP 500-2SP  
 DMP 570/50-2SP

#### 5-axis

DVF 5000 STD  
 DVF 6500 STD  
 DVF 8000 STD T  
 DNM 200/5AX  
 DNM 350/5AX  
 VC 630/5AX  
 FM 200/5AX *linear*  
 FM 350/5AX *linear*

### Multi Purpose

VCF 850 II STD L SR LSR  
 VCF 5500 L UL  
 VCF 1100 LSR

### Die & Mold

VM 5400  
 VM 6500  
 VM 750 STD L  
 VM 84  
 VM 960 STD L  
 VM 1260

MD 6700

DVM 500 II  
 DVM 650 II  
 NX 5500 II  
 MP 6500

### Special Machining

VX 6500C (Ceramic Machining)  
 VX 6500G (Graphite Machining)

### Horizontal Machining Centers

#### Compact

HC 400 II  
 HC 500 II

#### High Speed

NHP 4000 STD S  
 NHP 5000 STD S F  
 NHP 5500  
 NHP 6300  
 NHP 8000

#### Heavy Duty

NHM 5000  
 NHM 6300  
 NHM 8000  
 HM 1000 STD W  
 HM 1250

#### 5-axis

DHF 8000 STD ST  
 HFP 1540

### Bridge Type Machining Centers

BM 1530 STD M  
 BM 2035 STD M  
 BM 2740 STD M U P

### Five Face Double Column Machining Centers

DBM 2030  
 DBM 2040  
 DBM 2540  
 DBM 2550  
 DBM 3050  
 DBM 3060  
 DBM 3080  
 DCM 2740F II  
 DCM 2750F II  
 DCM 2760F II  
 DCM 2780F II  
 DCM 3250F II  
 DCM 3260F II  
 DCM 3280F II  
 DCM 3780F II  
 DCM 37100F II  
 DCM 4280F II

### Horizontal Boring Mills

DBC 110 S II  
 DBC 130 S SL II L II  
 DBC 160 STD L  
 DBC 250 II L II

### Double Column Horizontal Boring Mills

DBD 1270  
 DBD 1580

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## Turning Center

Global Compact Turning Center / High Performance Horizontal Turning Center /  
Global Standard Turning Center / Medium to Large Turning Center

### LEO 1600

### Lynx2100 / 2600, Lynx210 / 220 / 300

6, 8, 10 inch Global Compact Turning Center



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
LEO 1600	6	320 (12.6)	303 (11.9)	4000	7.5 / 5.5 / 5.5 (10.1 / 7.4 / 7.4)**
Lynx 2100A / LA	6	350 (13.8)	330 / 550 (13.0 / 21.7)	6000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100B / LB	8	350 (13.8)	330 / 550 (13.0 / 21.7)	4500	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100LC	10	350 (13.8)	537 (21.1)	3500	18.5/18.5/15 (24.8 / 24.8 / 20.1)
Lynx 2100MA / LMA	6	300 (11.8)	290 / 510 (11.4 / 20.1)	6000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100MB / LMB	8	300 (11.8)	290 / 510 (11.4 / 20.1)	4500	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100LMC/LMSC	10	300 (11.8)	497 (19.6)	3500	18.5/18.5/15 (24.8 / 24.8 / 20.1)
Lynx 2100LMSA	6	300 (11.8)	510 (20.1)	6000	15/11/11 (20.1 / 14.8 / 14.8)
Lynx 2100LMSB	8	300 (11.8)	510 (20.1)	4500	15/11/11 (20.1 / 14.8 / 14.8)
Lynx 2100LYA / LYB	6/8	300 (11.8)	510 (20.1)	6000 / 4500	15/11/11 (20.1 / 14.8 / 14.8)
Lynx 2100LSYA/LSYB	6	300 (11.8)	510 (20.1)	6000 / 4500	15/11/11 (20.1 / 14.8 / 14.8)
Lynx 2100G	6	170 (6.7)	330 (13.0)	6000	18.5/15/11/11 (24.8/20.1 / 14.8/14.8)
Lynx 2600Y	10	380 (15.0)	610 (24.0)	3500	18.5/15 (24.8/20.1)
Lynx 2600SY	10	380 (15.0)	610 (24.0)	3500	18.5/15 (24.8/20.1)
Lynx 210A / B	6 / 8	280 (11.0)	280 / 300 (11.0 / 11.8)	6000 / 5000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 220A / LA	6	320 (12.6)	322 / 542 (12.7 / 21.3)	6000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 220B / LB	8	320 (12.6)	305 / 525 (12.0 / 20.7)	5000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 220C / LC	8	320 (12.6)	305 / 525 (12.0 / 20.7)	4000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 300	10	450 (17.7)	765 (30.1)	3500	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 300M	10	370 (14.6)	712 (28.0)	3500	15/15/11 (20.1 / 20.1 / 14.8)

L : Long bed M : Milling S : Sub spindle \* S3 25%/15min/Cont. \*\*S3 25%/Cont.

### PUMA 2100 / 2600 / 3100

High Performance Horizontal Turning Center



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
PUMA 2100 [L]	8	481 (18.9)	545 [785] (21.4 [30.9])	4500	18.5/15 (24.8/20.1)
PUMA 2100M / MS [LM / LMS]	8	406 (16.0)	520 [760] (20.5 [29.9])	4500	18.5/15 (24.8/20.1)
PUMA 2100Y II / LY II	8	406 (16.0)	520 / 760 (20.5 / 29.9)	5000	22/11 (29.5/14.8)**
PUMA 2100SY II / LSY II	8	406 (16.0)	520 / 760 (20.5 / 29.9)	5000	22/11 (29.5/14.8)**
PUMA 2600 [L]	10	481 (18.9)	790 [1310] (31.1 [51.6])	3500	22/18.5 (29.5/24.8)
PUMA 2600M / MS [LM / LMS]	10	376 (14.8)	760 [1280] (29.9 [50.4])	3500	22/18.5 (29.5/24.8)
PUMA 2600B / SB [LB]	12	481 (18.9)	755 [1275] (29.7 [50.2])	2800	22/18.5 (29.5/24.8)
PUMA 2600MB / MSB [LMB]	12	376 (14.8)	725 [1245]** (28.5 [49.0])	2800	22/18.5 (29.5/24.8)
PUMA 2600Y II / LY II	10	376 (14.8)	760 / 1280 (29.9 / 50.4)	4000	22/15 (29.5/20.1)
PUMA 2600SY II / LSY II	10	376 (14.8)	760 / 1280 (29.9 / 50.4)	4000	22/15 (29.5/20.1)
PUMA 2600YB II / SYB II [LYB II / LSYB II]	12	376 (14.8)	725 [1245] (28.5 [49.0])	2800	22/18.5 (29.5/24.8)
PUMA 3100 / L	12	525 (20.7)	790 / 1310 (31.1 / 51.6)	2800	22/18.5 (29.5/24.8)
PUMA 3100XL / UL	12	525 (20.7)	2150 / 3150 (84.7 / 124.0)	2800	22/18.5 (29.5/24.8)
PUMA 3100M / Y [LM / LY]	12	420 (16.5)	765 / 1285 (30.1 / 50.6)	2800	22/18.5 (29.5/24.8)
PUMA 3100XM / XLY [ULM / ULY]	12	420 (16.5)	2125 / 3125 (83.7 / 123.0)	2800	22/18.5 (29.5/24.8)

L : Long bed XL : Xtra long bed UL : Ultra long bed M : Milling S : Sub spindle Y : Y-axis milling \* 30min/Cont. \*\*\* LYB II



## PUMA GT2100 / 2600 / 3100

8, 10, 12 inch Global Standard Turning Center



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
PUMA GT2100	8	390 (15.4)	562 (22.1)	4500	18.5/15/15(24.8/20.1/20.1)
PUMA GT2100M	8	300 (11.8)	513 (20.2)	4500	18.5/15/15(24.8/20.1/20.1)
PUMA GT2100B / MB	10	390 / 300 (15.4/11.8)	550/501 (21.7/19.7)	3500	18.5/15/15(24.8/20.1/20.1)
PUMA GT2600 / L	10	460 (18.1)	658/1078 (25.9/42.4)	3500	26/22/18.5**(34.9/29.5/24.8)
PUMA GT2600M / LM	10	410 (16.1)	610/1030 (24/40.6)	3500	26/22/18.5**(34.9/29.5/24.8)
PUMA GT2600XL/XLM	10	460/410 (18.1/16.1)	1603/1555 (63.1/61.2)	3500	26/22/18.5**(34.9/29.5/24.8)
PUMA GT2600XLB/XLMB	12	460/410 (18.1/16.1)	1573/1525 (61.9/60.0)	2500	26/22/18.5**(34.9/29.5/24.8)
PUMA GT3100A / LA	10	481 (18.9)	790 / 1310 (31.1/51.6)	3500	35/26/22****(47.0/34.9/29.5)
PUMA GT3100MA / LMA	10	376 (14.8)	760 / 1280 (29.9/50.4)	3500	22/18.5***** (29.5/24.8)
PUMA GT3100 / L	12	481 (18.9)	755 / 1275 (29.7 / 50.2)	2800	35/26/22*** (47.0/34.9/29.5)
PUMA GT3100M / LM	12	376 (14.8)	725 / 1245 (28.5 / 49.0)	2800	22/18.5** (29.5/24.8)

\* 15min/Cont \*\* 30min/Cont. \*\*\* S3 25%/30min/Cont. \*\*\*\*S3 25%/S3 60%/Cont. \*\*\*\*\*S3 60%/Cont.

## PUMA 4100

Medium to Large Turning Center with 2-axis to Milling Machining Capability



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
PUMA 4100A / LA / XLA	12	550 (21.7)	1074 / 2124 / 3152 (42.3 / 83.6 / 124.1)	3000	35/26/22** (47.0/34.9/29.5)
PUMA 4100B / LB / XLB	15	550 (21.7)	1042 / 2092 / 3120 (41.0 / 82.4 / 122.8)	2000	35/26/22** (47.0/34.9/29.5)
PUMA 4100C / LC / XLC	21	550 (21.7)	1002 / 2052 / 3080 (39.4 / 80.8 / 121.3)	1500	37/30 (49.7/40.3)
PUMA 4100MA / LMA / XLMA	12	550 (21.7)	1010 / 2060 / 3100 (39.8 / 81.1 / 122.0)	3000	30/22 (40.3/29.5)
PUMA 4100MB / LMB / XLMB	15	550 (21.7)	978 / 2028 / 3068 (38.5 / 79.8 / 120.8)	2000	30/22 (40.3/29.5)
PUMA 4100MC / LMC / XLMC	21	550 (21.7)	938 / 1988 / 3028 (36.9 / 78.3 / 119.2)	1500	37/30 (49.7/40.3)

L : Long bed M : Milling \* 30min/Cont. \*\* S3 25%/30min/Cont.

## PUMA 5100

Medium to Large Turning Center with 2-axis to Y-axis Machining Capability



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
PUMA 5100A / LA / XLA	15	650 (25.6)	1032 / 2082 / 3082 (40.6 / 82.0 / 121.3)	2000	37/30 (49.7/40.3)
PUMA 5100B / LB / XLB	21	650 (25.6)	992 / 2042 / 3042 (39.1 / 80.4 / 119.8)	1500	45/37 (60.4/49.7)
PUMA 5100C / LC / XLC	-	650 (25.6)	992 / 2042 / 3042 (39.1 / 80.4 / 119.8)	1000	45/37 (60.4/49.7)
PUMA 5100MA / LMA / XLMA	15	650 (25.6)	992 / 2042 / 3068 (39.1 / 80.4 / 120.8)	2000	37/30 (49.7/40.3)
PUMA 5100MB / LMB / XLMB	21	650 (25.6)	952 / 2042 / 3028 (37.5 / 80.4 / 119.2)	1500	45/37 (60.4/49.7)
PUMA 5100LYA / XLYA	15	550 (21.7)	2050 / 3070 (80.7 / 120.9)	2000	37/30 (49.7/40.3)
PUMA 5100LYB / XLYB	21	550 (21.7)	2020 / 3040 (79.5 / 119.7)	1500	45/37 (60.4/49.7)
PUMA 5100LYC	-	550 (21.7)	2020 (79.5)	1000	45/37 (60.4/49.7)

L : Long bed M : Milling Y : Y axis Milling \* 30min/Cont.

Overview

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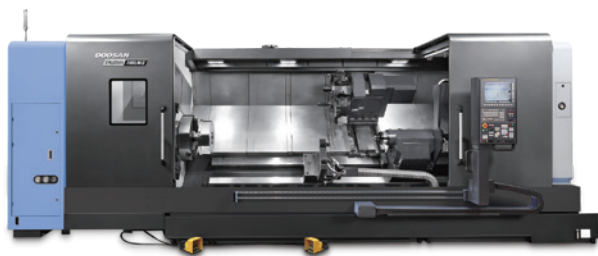
- Global Support Network
- Overseas Supplies System

## Turning Center

Large Horizontal Turning Center / Horizontal Multi turret Turning Center / Aluminum Wheel Turns  
Twin Spindle Turning Center / Twin Spindle Turning Center with Gantry Loader

### PUMA 600 II / 700 II / 800 II

Large Horizontal Turning Center with 2-axis to Y-axis Machining Capability

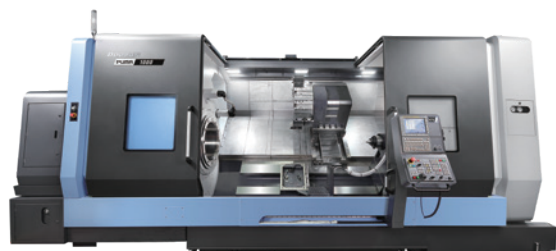


Machine	Chuck mm (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA 600 / M	18	900 (35.4)	1600 (63.0)	1800	55/45/37 (73.8/60.4/49.7)
PUMA 600L / LM	18	900 (35.4)	3200 (126.0)	1800	55/45/37 (73.8/60.4/49.7)
PUMA 600XL / XLM	18	900 (35.4)	5050 (198.8)	1800	55/45/37 (73.8/60.4/49.7)
PUMA 700 / M	24	900 (35.4)	1600 (63.0)	1500	55/45/37 (73.8/60.4/49.7)
PUMA 700L / LM	24	900 (35.4)	3200 (126.0)	1500	55/45/37 (73.8/60.4/49.7)
PUMA 700XL / XLM	24	900 (35.4)	5050 (198.8)	1500	55/45/37 (73.8/60.4/49.7)
PUMA 800 / M	32	900 (35.4)	1600 (63.0)	750	55/45/37 (73.8/60.4/49.7)
PUMA 800B / LB	-	900 (35.4)	1600 (63.0)/3200 (126.0)	500	55/45/37** (73.8/60.4/49.7)
PUMA 800L / LM	32	900 (35.4)	3200 (126.0)	750	55/45/37 (73.8/60.4/49.7)
PUMA 800XL / XLM	32	900 (35.4)	5050 (198.8)	750	55/45/37 (73.8/60.4/49.7)
PUMA 600LY / XLY	18	750 (29.5)	3250/5050 (128.0/198.8)	1800	55/45/37 (73.8/60.4/49.7)
PUMA 700LY / XLY	24	750 (29.5)	3250/5050 (128.0/198.8)	1500	55/45/37 (73.8/60.4/49.7)
PUMA 800LY / XLY	32	750 (29.5)	3250/5050 (128.0/198.8)	750	55/45/37 (73.8/60.4/49.7)

L : Long bed XL : Xtra long bed M : Milling Y : Y-axis milling \* 30min/Cont. \*\*Big bore

### PUMA 1000

Large-sized Big bore Heavy Duty Turning Center with upto 560mm spindle bore



Machine	Chuck mm (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA 1000A	-	1000 (39.4)	2040 (80.3)	500	75/60 (100/80)
PUMA 1000B	-	1000 (39.4)	2040 (80.3)	300	75/60 (100/80)
PUMA 1000MA	-	1000 (39.4)	2040 (80.3)	500	75/60 (100/80)
PUMA 1000MB	-	1000 (39.4)	2040 (80.3)	300	75/60 (100/80)

\* 30min/Cont.

### PUMA TT1300 / 1800 / 2100 / 2500 PUMA TL2000 / 2500

Horizontal Multi turret Turning Center



Machine	Chuck mm (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA TT1300SY/SYY	5	175 (6.9)	120 (4.7)	6000	11/7.5/5.5 <sup>1)</sup> (14.8/10.1/7.4)
PUMA TT1300SYB/SYYB	(Left)6/ (Right)5	175 (6.9)	120 (4.7)	6000	15/11/7.5 <sup>1)</sup> (20.1/14.8/10.1)
PUMA TT1800/MS	8	230 (9.1)	230 (9.1)	5000	22/18.5(29.5/24.8)
PUMA TT1800SY	8	230 (9.1)	230 (9.1)	5000	22/18.5(29.5/24.8)
PUMA TT2100SYY	8	230 (9.1)	230 (9.1)	5000	25/18.5/15 <sup>1)</sup> (33.5/24.8/20.1)
PUMA TT2100SYYB	(Left)10/ (Right)8	230 (9.1)	230 (9.1)	3500	22/18.5 <sup>2)</sup> (29.5/24.8)
PUMA TT2500 /MS	10	U : 390 (15.4) L : 300 (11.8)	350 (13.8)	3500	26/22 (34.9/29.5)
PUMA TT2500SY	10	U : 390 (15.4) L : 300 (11.8)	350 (13.8)	3500	26/22 (34.9/29.5)
PUMA TL2000 / L	8	U : 370 (14.6) L : 240 (9.4)	600 / 1000 (23.6 / 39.4)	5000	22/18.5/15** (29.5/24.8/20.1)
PUMA TL2000M / LM	8	U : 350 (13.8) L : 240 (9.4)	600 / 1000 (23.6 / 39.4)	5000	22/18.5/15** (29.5/24.8/20.1)
PUMA TL2500/L/XL	10	U : 370 (14.6) L : 240 (9.4)	600/1000/1250 (23.6/39.4/49.2)	4000	26/22 (34.9/29.5)
PUMA TL2500M/LM/XLM	10	U : 350 (13.8) L : 240 (9.4)	600/1000/1250 (23.6/39.4/49.2)	4000	26/22 (34.9/29.5)

M : Milling S : Sub spindle Y : Y-axis milling U : on upper turret L : on lower turret  
\* 30min/Cont. \*\* 10min/30min/Cont. 1) S3 25%/S3 60%/Cont. 2) S3 60% / Cont.

## PUMA AW560 II / 660 II

Aluminum Wheel Turns



Machine	Wheel Size (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA AW560 II	20	550 (21.7)	2500	37/30 (49.7/40.3)
PUMA AW660 II	24	650 (25.6)	2000	37/30 (49.7/40.3)
PUMA AW560-MF II	20	550 (21.7)	2500	30/25 (40.3/33.6)

\* 30min/Cont.

## PUMA VAW6000/7500/800

Vertical Aluminum Wheel Turns

Machine	Wheel Size (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA VAW6000-ACC	24	790 (31.1)	2000{3000}	85/75*
PUMA VAW7500	27.5	720 (28.3)	2000	55/45** (73.8/60.4)
PUMA VAW800	28	711 (28.0)	2000	55/45** (73.8/60.4)

\* S3 25%/Cont. \*\* S3 40% 30min/Cont.

## PUMATS2100/2100-GL/2600/2600-GL PUMATW2100/2100-GL/2600/2600-GL

Twin Spindle Turning Center



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA TW2100 / M	8 {6}	240 (9.4)	128 (5.0)	4500 {6000}	15/11 (20.1/14.8)
PUMA TW2600 / M	10{8,12}	360 (14.1)	170 (6.7)	3500	18.5/15** (24.8/20.1)
PUMA TS2100 / M	8{6}	240 (9.4)	128 (5.0)	4500{6000}	15/11 (20.1/14.8)
PUMA TS2600 / M	10{8,12}	360 (14.1)	170 (6.7)	3500	18.5/15** (24.8/20.1)

{ } : Option M : Milling \* 30min/Cont. \*\* 15min/Cont.

Twin Spindle Turning Center with Gantry Loader



Machine	Max. Handling dia. mm (inch)	Max. Work Weight kg (lb)	Std. Loading Time (s)
PUMA TW2100-GL / M	Ø130 x 65 (5.1 x 2.6) {Ø180 x 80 (7.1 x 3.1)}	3 (6.6)	5.7
PUMA TW2600-GL / M-GL	Ø200 x 90 (7.9 x 3.5) {Ø320 x 35 (12.6 x 1.4)}	6 (13.2)	7.9
PUMA TS2100-GL / M-GL	Ø240 x 128 (9.4 x 5.0)	3	5.7
PUMA TS2600-GL / M-GL	Ø200 x 90 (7.9 x 3.5) {Ø320 x 35 (12.6 x 1.4)}	6 (13.2)	7.9

{ } : Option

Overview

Product Full Line-up

- Full Line-up of Products
- Turning Center
- Machining Center
- Double Column Machining Center
- Boring Machine

- iDOO CONTROL
- Optimal Technology
- Easy Operation Package
- Service

- Global Support Network
- Overseas Supplies System

## Turning Center

Multi-Tasking Turning center / Vertical Turning Center / Large Vertical Turning Center with RAM Head Spindle / Swiss Type Turning Center

### PUMA MX1600 / 2100 / 2600 PUMA SMX2600 / 3100 / 5100

Multi-Tasking Turning center



Machine	Chuck (inch)	Max. Machining Dia. mm (inch)	Max. Machining Length mm (inch)	Spindle Speed Main / Milling (r/min)	Motor Main / Sub / Milling kW (Hp)
PUMA MX1600	6	330 (13.0)	900 (35.4)	6000 / 12000	15/-/9 (20.1/-/12.1)
PUMA MX1600/735	6	330 (13.0)	700 (27.6)	6000 / 12000	15/-/9 (20.1/-/12.1)
PUMA MX1600S	6	330 (13.0)	900 (35.4)	6000 / 12000	15/15/9 (20.1/20.1/12.1)
PUMA MX1600S/735	6	330 (13.0)	700 (27.6)	6000 / 12000	15/15/9 (20.1/20.1/12.1)
PUMA MX1600T	6	330 (13.0)	900 (35.4)	6000 / 12000	15/-/9 (20.1/-/12.1)
PUMA MX1600T/735	6	330 (13.0)	700 (27.6)	6000 / 12000	15/-/9 (20.1/-/12.1)
PUMA MX1600ST	6	330 (13.0)	900 (35.4)	6000 / 12000	15/15/9 (20.1/20.1/12.1)
PUMA MX1600ST/735	6	330 (13.0)	700 (27.6)	6000 / 12000	15/15/9 (20.1/20.1/12.1)
PUMA MX2100 / L	8	540 (21.3)	1020 / 1520 (40.2 / 59.8)	5000 / 12000	22 / - / 18.5 (29.5 / - / 24.8)
PUMA MX2100S / LS	8	540 (21.3)	1020 / 1520 (40.2 / 59.8)	5000 / 12000	22/22/18.5 (29.5/29.5/24.8)
PUMA MX2100T / LT	8	540 (21.3)	1020 / 1520 (40.2 / 59.8)	5000 / 12000	22 / - / 18.5 (29.5 / - / 24.8)
PUMA MX2100ST / LST	8	540 (21.3)	1020 / 1520 (40.2 / 59.8)	5000 / 12000	22/22/18.5 (29.5/29.5/24.8)
PUMA MX2600T	10	760 (29.9)	1540 (60.6)	4000 / 12000	26 / - / 22 (34.9 / - / 29.5)
PUMA MX2600ST	10	760 (29.9)	1540 (60.6)	4000 / 12000	26/26/22 (34.9/34.9/29.5)
PUMA SMX2600	10	660 (26.0)	1540 (60.6)	4000 / 12000	30 / - / 26 (40.2 / - / 34.9)
PUMA SMX2600S	10	660 (26.0)	1540 (60.6)	4000 / 12000	30/30/26 (40.2/34.9/34.9)
PUMA SMX2600ST	10	660 (26.0)	1540 (60.6)	4000 / 12000	30/30/26 (40.2/34.9/34.9)
PUMA SMX3100	12	660 (26.0)	1540 (60.6)	3000 / 12000	30 / - / 26 (40.2 / - / 34.9)
PUMA SMX3100L	12	660 (26.0)	2540 (100.0)	3000 / 12000	30 / - / 26 (40.2 / - / 34.9)
PUMA SMX3100S	12	660 (26.0)	1540 (60.6)	3000* / 12000	30/30/26 (40.2/40.2/34.9)
PUMA SMX3100LS	12	660 (26.0)	2540 (100.0)	3000* / 12000	30/30/26 (40.2/40.2/34.9)
PUMA SMX3100ST	12	660 (26.0)	1540 (60.6)	3000* / 12000	30/30 / 26 (40.2/40.2/34.9)
PUMA SMX5100L/XL	15	830 (32.7)	3050/4070(120.1/160.2)	2400/10000	37/30/25** (49.6/40.2/33.5)
PUMA SMX5100LB/XLB	21	830 (32.7)	3050/4070(120.1/160.2)	1500/10000	37/30/25** (49.6/40.2/33.5)
PUMA SMX5100LS	15	830 (32.7)	3050 (120.1)	2400/10000	37/30/25** (49.6/40.2/33.5)
PUMA SMX5100LSB	21	830 (32.7)	3050 (120.1)	1500/10000	37/30/25** (49.6/40.2/33.5)

L : Long bed S : Sub spindle T : Turret \* Sub spindle : 4000 r/min \*\*2.5min / 30min / Cont.

### PUMA V400 / V400P, PUMA V8300

High Productivity Vertical Turning Center



L : Long bed S : Sub spindle T : Turret \* Sub spindle : 4000 r/min \*\*2.5min / 30min / Cont.

Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Height mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
PUMA V400	12	496 (19.5)	461 (18.1)	3000	22/18.5 (29.5/24.8)
PUMA V400-2SP	12	496 (19.5)	461 (18.1)	3000	22/18.5 + 22/18.5 (29.5/24.8) + (29.5/24.8)
PUMA V400M	12	420 (16.5)	400 (15.7)	3000	22/18.5 (29.5/24.8)
PUMA V400P	12	496 (19.5)	461 (18.1)	3000	22/18.5 (29.5/24.8)
PUMA V8300	15	830 (32.7)	750 (29.5)	2000	37/30** (49.6/40.2)
PUMA V8300-2SP	15	830 (32.7)	750 (29.5)	2000	37/30 + 37/30** (49.6/40.2) + (49.6/40.2)
PUMA V8300M	15	830 (32.7)	750 (29.5)	2000	37/30* (49.6/40.2)
PUMA V8300M-2SP	15	830 (32.7)	750 (29.5)	2000	37/30* (49.6/40.2)
PUMA VD3600T/G	12	360 (14.2)	400 (15.7)	3000	37/30* (49.6/40.2)

M : Milling 2SP : Twin spindle \* 30min/Cont. \*\*S6 40% / Cont.

### Lynx XG600

Grinding machine for quartz, ceramic materials



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
Lynx XG600	12	600 (23.6)	500(2500)* (19.7{98.4})	18.5/15/11 (24.8/20.1/14.8)

{ } : Option \*S3 15% / S3 40% / Cont.

## PUMAVT 900 / 1100

High Performance Vertical Turning Center



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Height mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
PUMAVT900	24	900 (35.4)	801 (31.5)	1800	45/37 (60.4/49.7)
PUMAVT900-2SP	24	900 (35.4)	801 (31.5)	1800	45/37 + 45/37 (60.4/49.7) + (60.4/49.7)
PUMAVT900M	24	900 (35.4)	809 (31.9)	1800	45/37 (60.4/49.7)
PUMAVT900M-2SP	24	900 (35.4)	809 (31.9)	1800	45/37 + 45/37 (60.4/49.7) + (60.4/49.7)
PUMAVT1100	32	1100 (43.4)	960 (37.8)	850	60/55/45** (80.5/73.8/60.4)
PUMAVT1100M	32	1100 (43.4)	960 (37.8)	850	60/55/45** (80.5/73.8/60.4)

M : Milling 2SP : Twin spindle \* 30min/Cont. \*\* 10min/30min/Cont.

## PUMAVTR1012F / 1216F / 1216 / 1620 / 2025 / 2530

Large Vertical Turning Center with RAM Head Spindle



Machine	Max. Turning Dia. mm (inch)	Max. Turning Height mm (inch)	Spindle Speed (r/min)	Motor kW (hp)
PUMAVTR1012F	1250 (49.2)	750 (29.5)	600	45/37* (60.3/49.6)
PUMAVTR1012FC	1250 (49.2)	750 (29.5)	600	45/37* (60.3/49.6)
PUMAVTR1216F	1600 (63.0)	950 (37.4)	400	45/37* (60.3/49.6)
PUMAVTR1216FC	1600 (63.0)	855 (33.7)	400	45/37* (60.3/49.6)
PUMAVTR1216FM	1600 (63.0)	950 (37.4)	400	45/37* (60.3/49.6)
PUMAVTR1216 / M	1600 (63.0)	1250 (49.2)	400	45/37* (60.3/49.6)
PUMAVTR1620/M	2000 (78.7)	1800 (70.9)	300	45/37* (60.3/49.6)
PUMAVTR2025 / M	2500 (98.4)	1900 (74.8)	200	75/60** (100/80)
PUMAVTR2530 / M	3000 (118.1)	1900 (74.8)	150	75/60** (100/80)

M : Milling \* S3 60%/Cont. \*\* 30min/Cont.

## PUMAST10GS II / 20GS II / 26GS II / 32GS II / 35GS II / 38GS II

A Highly Rigid Swiss type Turning Center, Excellent for Continuous Precision Machining



Machine	Max. Machining Dia. mm (inch)	Tool Storage (ea)	Main Spindle Motor* [ Built-in ] kW (Hp)	Sub Spindle Motor** [ Built-in ]*** kW (Hp)
PUMAST10GS II	10 (0.4)	22	3.7/2.2 (5.0/3.0)	1.1/0.55 (1.5/0.7)
PUMAST20GS II	20 (0.8)	25	3.7/2.2 (5.0/3.0)	3.7/2.2 (5.0/3.0)
PUMAST26GS II	26 (1.0)	22 { 27 }	5.5/2.2 (7.4/3.0)	3.7/2.2 (5.0/3.0)
PUMAST32GS II	32 (1.3)	24	7.5/5.5 (10.1/7.4)	3.7/2.2 (5.0/3.0)
PUMAST35GS II	35 (1.4)	22	7.5/5.5 (10.1/7.4)	3.7/2.2 (5.0/3.0)
PUMAST38GS II	38 (1.5)	22	7.5/5.5 (10.1/7.4)	3.7/2.2 (5.0/3.0)

{ } : Option  
\* 30min/Cont. \*\* 15min/Cont. \*\*\*Belt type motor applied in the sub spindle of PUMAST10GS model

Overview

Product Full Line-up

- Full Line-up of Products
- Turning Center
- Machining Center
- Double Column Machining Center
- Boring Machine

- iDOO CONTROL
- Optimal Technology
- Easy Operation Package
- Service

- Global Support Network
- Overseas Supplies System

## Machining Center

Tapping Center / Global Standard Vertical Machining Center / Heavy Duty Vertical Machining Center / Twin Table Vertical Machining Center / 2 spindle Vertical Machining Center / 5 Axis Vertical Machining Center

### T 170/5AX, T 3600D, T 4000, T 5500L

High-Speed, High-Productivity Tapping Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
T 170/5AX	200 / 400 / 320 (7.9/15.7/12.6)	Ø200(Ø7.9)	24,000	21	11(14.8)
T4000	520 / 400 / 350 (20.5 / 15.7 / 13/8)	650x400 (25.6x15.7)	12000 {24000}	21	13/7.5/5.5/3.7 (17.4/10.1/7.4/5.0)
T4000L	700 / 400 / 350 (27.6 / 15.7 / 13.8)	850x400 (33.5x15.7)	12000 {24000}	21	13/7.5/5.5/3.7 (17.4/10.1/7.4/5.0)
T4000HP	520/400/350 (20.5 / 15.7 / 13.8)	650 x 400 (25.6x15.7)	12000	21	36
T4000HS	520 / 500 / 350 (20.5 / 19.7 / 13.8)	650x400 (25.6x15.7)	24000	21	11
T3600D	520 / 360 / 350 (20.5 / 14.2 / 13.8)	2-650 x 375 (2-25.6 x 14.8)	12000	14 {21}	13
T 5500L	1200 / 550 / 480 (47.2 / 21.7 / 18.9)	1300 x 600 (51.2 x 23.6)	12,000	30	24(32.2)

{} : Option \* S3 15%/S3 25%/30min/Cont.

### DEM 4000

Compact Vertical Machining Centers



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle speed (r / min)	Tool Storage (ea)	Motor kW (Hp)
DEM 4000	550 / 400 / 450 (21.7 / 15.7 / 17.7)	650 x 400 (25.6 x 15.7)	8000	20{16}	5.5(Cont.) / 7.5 (7.4 / 10.1) (S3-25%)

{} : Option

### DNM 4000 / 4500 / 5700 / 6700 DNM 400α / 650P II / 750 II DNM 500/50 II / 650/50 II SVM 4100

Global Standard Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
DNM 4000	520 / 400 / 480 (20.5 / 15.7 / 18.9)	650 x 400 (25.6 x 15.7)	12000	20	18.5(10min) / 11(Cont.)
SVM 4100	770 / 410 / 510 (30.3 / 17.7 / 20.1)	920 x 410 (36.2x16.1)	12000	30	18.5/5.5 (24.8/7.4)
DNM 4500	800 / 450 / 510 (31.5 / 17.7 / 20.1)	1000 x 450 (39.4 x 17.7)	8000 {12000, 15000}	30 {40}	18.5/11 (24.8/14.8)
DNM 4500L	910/450/510 (35.8 / 17.7 / 20.1)	1050 x 450 (41.3 x 17.7)	8000{12000, 15000}	30	18.5/11 (24.8/14.8)
DNM 5700	1050 / 570 / 510 (41.3 / 22.4 / 20.1)	1300 x 570 (51.2 x 22.4)	8000 {12000, 15000}	30 {40}	18.5/11 (24.8/14.8)
DNM 5700L	1300/570/510 (51.2 / 22.4 / 20.1)	1500 x 570 (59.1 x 22.4)	8000{12000, 15000}	30	18.5/11 (24.8/14.8)
DNM 6700	1300 / 670 / 625 (51.2 / 26.4 / 24.6)	1500 x 670 (59.1 x 26.4)	8000 {12000, 15000}	30 {40}	18.5/15 (24.8/20.1)
DNM 6700L	1500 / 670 / 625 (59.1 / 26.4 / 24.6)	1600 x 670 (63.0 x 26.4)	8000 {12000, 15000}	30 {40}	18.5/15 (24.8/20.1)
DNM 6700XL	2100 / 670 / 625 (82.7 / 26.4 / 24.6)	2200 x 670 (86.6 x 26.4)	8000 {12000, 8000}	30(40,60)	18.5/15 (24.8/20.1)
DNM 4500S	800 / 450 / 510 (31.5 / 17.7 / 20.1)	1000 x 450 (39.4 x 17.7)	15000	30 {40}	18.5/11 (24.8/14.8)
DNM 5700S	1050 / 570 / 510 (41.3 / 22.4 / 20.1)	1300 x 570 (51.2 x 22.4)	15000	30 {40}	18.5/11 (24.8/14.8)
DNM 400α	635 / 435 / 510 (25.0 / 17.1 / 20.1)	790 x 435 (31.1 x 17.1)	8000	20	11/7.5** (14.8/10)
DNM 650P II	1400 / 670 / 625 (55.1 / 26.4 / 24.6)	1500 x 680 (59.1 x 26.8)	8000 {12000}	30 {40}	18.5/15*** (24.8/20.1)
DNM 750 II	1630 / 762 / 650 (54.2 / 30.0 / 25.6)	1630 x 760 (64.2 x 29.9)	8000 {12000}	30 {40, 60}	18.5/15*** (24.8/20.1)
DNM 750L II	2160 / 762 / 650 (85.0 / 30.0 / 25.6)	2160 x 760 (85.0 x 29.9)	8000 {12000}	30 {40, 60}	18.5/15*** (24.8/20.1)
DNM 750/50 II	1630 / 762 / 650 (54.2 / 30.0 / 25.6)	1630 x 760 (64.2 x 29.9)	8000 {10000}	24 {30}	18.5/7.5**** (24.8/10)
DNM 750L/50 II	2160 / 762 / 650 (85.0 / 30.0 / 25.6)	2160 x 760 (85.0 x 29.9)	8000 {10000}	24 {30}	18.5/7.5**** (24.8/10)
DNM 500/50 II	1020 / 540 / 510 (40.2 / 21.3 / 20.1)	1200 x 540 (47.2 x 21.3)	8000 {10000}	24	22/11 (29.5/14.8)
DNM 650/50 II	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1300 x 670 (51.2 x 26.4)	8000 {10000}	24 {30}	22/11 (29.5/14.8)

{} : Option \* S3 15%/Cont. \*\* 15min/Cont. \*\*\* S3 60%/Cont. \*\*\*\* 5min/Cont.

## Mynx 5400 II / 6500 II / 7500 II / 9500

Heavy Duty Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
Mynx 5400 II	1020 / 550 / 530 (40.2 / 21.7 / 20.9)	1200x540 (47.2x21.3)	8000 {12000}	30{40}	15/11 (20.1/14.8)
Mynx 5400/50 II	1020 / 550 / 530 (40.2 / 21.7 / 20.9)	1200x540 (47.2x21.3)	6000 { 8000 }	24	15/15/11** (20.1 / 20.1 / 14.8)
Mynx 6500 II	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400x670 (55.1x26.4)	8000 { 12000 }	30{40}	15/11 (20.1/14.8)
Mynx 6500/50 II	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400x670 (55.1x26.4)	6000 { 8000 }	24{30}	15/15/11** (20.1 / 20.1 / 14.8)
Mynx 7500 II	1525 / 770 / 625 (60.0 / 30.3 / 24.6)	1600x750 (63.0x29.5)	12000	30{40}	26/22 (34.9/29.5)
Mynx 7500/50 II	1525 / 770 / 625 (60.0 / 30.3 / 24.6)	1600x750 (63.0x29.5)	6000 { 8000 }	24{40}	18.5/15 (24.8/20.1)
Mynx 9500	2500 / 950 / 800 (98.4 / 37.4 / 31.5)	2500x950 (98.4x37.4)	6000 { 10000 }	30{40}	30/18.5**** (40.2/24.8)

{ } : Option

\* 30min/Cont. \*\* 15min/30min/Cont. \*\*\* 15min/Cont. \*\*\*\* S3 25%/Cont.

## VC 3600 / 430 / 510

High productivity machining center equipped with dual pallet



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
VC 3600	520 / 360 / 465 (20.5 / 14.2 / 18.3)	2-650x375 (2-25.6x14.8)	12000	20	18.5 (24.8)**
VC 430	560 / 430 / 570 (22.0 / 16.9 / 22.4)	2-712x477 (2-28.0x18.8)	10000 {12000}	30 { 40 }	18.5/15 (24.8/20.1)
VC 510	762 / 516 / 570 (30.0 / 20.3 / 22.4)	2-860x570 (2-33.9x22.4)	10000 {6000, 12000}	30 { 40 }	18.5/15 (24.8/20.1)

{ } : Option \* 30min/Cont. \*\* S3 15%

## XC4000DA-2SP, DMP 500-2SP, DMP 570/50-2SP

High Productivity 2 spindle Machining Center



Machine	X / Y / Z / W Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
XC 4000DA-2SP	630 / 400+190 / 360 (24.8 / 15.7+7.5 / 14.2)	2-790 x 320 (2-31.1 x 12.6)	12000	2 x 24	15 (20.1)
DMP 500-2SP	1040 / 520 / 600 / 20 (40.9 / 20.5 / 23.6 / 0.8)	1200 x 520 (47.2 x 20.5)	12000 {8000}	2x24 {2x30, 2x40}	18.5/11 (24.8/14.8)
DMP 570/50-2SP	600 / 570+142 / 625 / - (23.6 / 22.4+5.6 / 24.6 / -)	1500 x 570 (59.1 x 22.4)	8000	2 x 24	15/11 (20.1/0.4)

\* S3 15% / Cont.

## 5 axis

5 Axis Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
DVF 5000	625 / 450 / 400 (24.6 / 17.7 / 15.7)	Ø500 (Ø19.7)	12000 {18000}	30 {40, 60, 90, 120}	18.5/11 (24.8/14.8)
DVF 6500	750 / 785 / 600 (29.5 / 30.9 / 23.6)	Ø650 (Ø25.6)	12000 {18000}	40 {60,90,120}	FANUC : 22 / 18.5 <sup>1)</sup> (29.5/24.8) HEIDENHAIN : 30/24 <sup>3)</sup> (40.2/32.2)
DVF 8000	1000 / 900 / 685 (39.4 / 35.4 / 27.0)	Ø800 (Ø31.5)	12000 {18000}	40 {60, 90,120}	FANUC : 22 / 18.5 <sup>1)</sup> (29.5/24.8) HEIDENHAIN/SIEMENS : 30/24 <sup>3)</sup> (40.2/32.2)
DVF 8000T	1000 / 900 / 685 (39.4 / 35.4 / 27.0)	Ø800 (Ø31.5)	18000	40 {60, 90,120}	FANUC : 22 / 18.5 <sup>1)</sup> (29.5/24.8) HEIDENHAIN/SIEMENS : 30/24 <sup>3)</sup> (40.2/32.2)
DNM 200/5AX	400 / 435 / 500 (15.7 / 17.1 / 19.7)	Ø200 (Ø7.9)	12000	30 {40}	18.5/11 (24.8/14.8)
DNM 350/5AX	600 / 655 / 500 (23.6 / 25.8 / 19.7)	Ø350 (Ø13.8)	12000 {20000}	30 {40, 60}	18.5/11 (24.8/14.8)
VC 630/5AX	650 / 765 / 520 (25.6 / 30.1 / 20.5)	Ø630 (Ø24.8)	12000 {20000}	40 {60, 81, 101, 121}	FANUC : 22/18.5** (29.5/24.8) HEIDENHAIN : 23.5/18*** (31.5/24.2) SIEMENS : 30/24*** (40.3/32.2)
FM 200/5AX linear	200 / 340 / 300 (7.9 / 13.4 / 11.8)	Ø200 (Ø7.9)	42000	24	12.6**** (16.9)
FM 350/5AX linear	400 / 600 / 350 (15.7 / 23.6 / 13.8)	Ø350 (Ø13.8)	42000	40	12.6**** (16.9)

{ } : Option \* 10min / Cont. \*\*S3 25%/Cont. \*\*\*S6 40%/Cont. \*\*\*\* Cont. 1) S3 25%/CONT. , 2)S6 40%/CONT.

Product Full Line-up

- Full Line-up of Products
- Turning Center
- Machining Center
- Double Column Machining Center
- Boring Machine

- iDOO CONTROL
- Optimal Technology
- Easy Operation Package
- Service

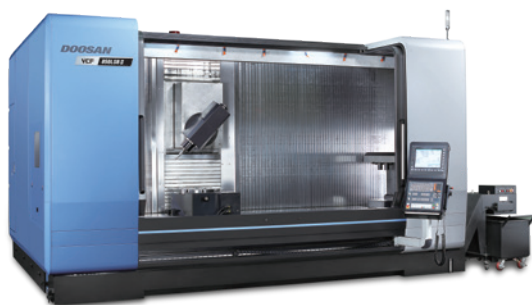
- Global Support Network
- Overseas Supplies System

## Machining Center

Multi Purpose Vertical Machining Center / Vertical Machining Center for Die & Mold Machining / Ultra-high-Speed, High-Precision Vertical Machining Center Equipped with Linear Motors

### VCF 5500 / VCF 850 II / VCF 1100LSR

Multi Purpose Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor kW (Hp)
VCF 5500L	2200 / 550 / 510 (86.6 / 21.7 / 20.1)	2500 x 580 (98.4 x 22.8)	12000	30 {40/60}	18.5/11 (24.8/14.8)
VCF 5500UL	5000 / 550 / 570 (196.9 / 21.7 / 22.4)	5600 x 550 (220.5 x 21.7)	12000	35	18.5/11 (24.8/14.8)
VCF850 / SR II	2000 / 850 / 800 (78.7 / 33.5 / 31.5)	2500 x 870 (98.4 x 34.3)	12000 {18000}	30 {60}	HEIDENHAIN : 32/24* (42.9/32.2) FANUC : 22/18.5** (29.5/24.8)
VCF850L / LSR II	3000 / 850 / 800 (118.1 / 33.5 / 31.5)	3500 x 870 (137.8 x 34.3)	12000 {18000}	30 {60}	HEIDENHAIN : 32/24* (42.9/32.2) FANUC : 22/18.5** (29.5/24.8)
VCF 1100LSR	4000 / 1100 / 1200 (157.5 / 43.3 / 47.2)	4200 x 1120 (165.4 x 44.1)	10,000	60T {120T}	25 / 37 (33.5/49.6)

{} : Option \*S6 40%/Cont. \*\*30min/Cont.

### VM 5400 / 6500 (#40)

High Performance Vertical Machining Center for Die & Mold Machining



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
VM 5400	1020 / 540 / 530 (40.2 / 21.3 / 20.9)	1200 x 540 (47.2 x 21.3)	12000	30 {40}	15.6 / 15.6 (20.9 / 20.9)
VM 6500	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400 x 670 (55.1 x 26.4)	12000	30 {40}	15.6 / 15.6 (20.9 / 20.9)

{} : Option  
\* 30min/Cont.

### VM 750 / 750L / 960 / 960L / 1260 (#50)

Large, High-Speed, High-Precision Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
VM 750	1500 / 750 / 800 (59.1 / 29.5 / 31.5)	1600 x 800 (63.0 x 31.5)	6000 {8000, 12000}	30 {40}	18.5/15 (24.8/20.1)
VM 750L	1800 / 750 / 800 (70.9 / 29.5 / 31.5)	1900 x 800 (74.8 x 31.5)	6000 {8000, 12000}	30 {40}	18.5/15 (24.8/20.1)
VM 960	2000 / 960 / 800 (78.7 / 37.8 / 31.5)	2400 x 950 (94.5 x 37.4)	6000 {8000, 12000}	30 {40}	18.5/15 (24.8/20.1)
VM 960L	2400 / 960 / 800 (94.5 / 37.8 / 31.5)	2600 x 950 (102.4 x 37.4)	6000 {8000, 12000}	30 {40}	18.5/15 (24.8/20.1)
VM 1260	2500 / 1260 / 900 (98.4 / 49.6 / 35.4)	2800 x 1260 (110.2 x 49.6)	6000 {8000, 12000}	40	22/18.5 (29.5/24.8)

{} : Option  
\* 30min/Cont. \*\* 15min/Cont.



## MD 6700

New Generation Die&Mold Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor kW (Hp)
MD 6700	1300 / 670 / 670 (51.2 / 26.4 / 26.4)	1500 x 670 (59.1 x 26.4)	12000 { 8000 }	24 { 30 }	30 (40.2)
{} : Option					

## DVM 500 II / 650 II

High Precision Die & Mold Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
DVM 500 II	1020 / 540 / 510 (40.2 / 21.3 / 20.1)	1200 x 540 (47.2 x 21.3)	20000	30 { 40 }	22/11 (29.5/14.8)
DVM 650 II	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1300 x 670 (51.2 x 26.4)	20000	30 { 40 }	22/11 (29.5/14.8)
{} : Option * S3 15%,10min/Cont.					

## NX 5500 II / MP 6500

High-Precision, High-Speed Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
NX 5500 II	900 / 550 / 500 (35.4 / 21.7 / 19.7)	1000 x 550 (39.4 x 21.7)	20000 { 30000, 40000 }	30	22/11 (29.5/14.8)
MP 6500	1050 / 650 / 550 (41.3 / 25.6 / 21.7)	1200 x 650 (47.2 x 25.6)	20000	30	22/11 (29.5/14.8)
{} : Option * 10min 15%/Cont.					

## VX 6500C/G

High-Precision Special Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
VX 6500C	1050 / 650 / 550 (41.3 / 25.6 / 21.7)	1200 x 650 (47.2 x 25.6)	12000{20000}	30	18.5/11*
VX 6500G	1050 / 650 / 550 (41.3 / 25.6 / 21.7)	1200 x 650 (47.2 x 25.6)	12000 {20000/30000/40000}	30	18.5/11*
{} : Option * S3 15%/Cont.					

## Machining Center

### Product Full Line-up

- Full Line-up of Products
- Turning Center
- Machining Center
- Double Column Machining Center
- Boring Machine

### iDOO CONTROL

Optimal Technology

Easy Operation Package

Service

### Global Support

Network

Overseas Supplies

System

Compact Horizontal Machining Center / High Speed High Performance Horizontal Machining Center / High Capability Horizontal Machining Center / Large Horizontal Machining Center

## HC 400 II / 500 II

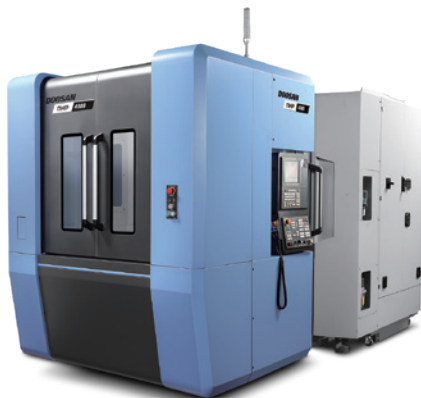
Compact Horizontal Machining Center



Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
HC 400 II	600 / 560 / 565 (23.6 / 22.0 / 22.2)	400 x 400 (15.7 x 15.7)	8000 { 12000 }	40 { 60 / 120 / 170 }	18.5/11 (24.8/14.7)
HC 500 II	850 / 700 / 750 (33.5 / 27.6 / 29.5)	500 x 500 (19.7 x 19.7)	8000 { 12000 }	40 { 60 / 120 / 170 }	18.5/11 (24.8/14.7)
					{ } : Option * 15min/Cont.

## NHP 4000 / 5000 / 5500 / 6300 / 8000

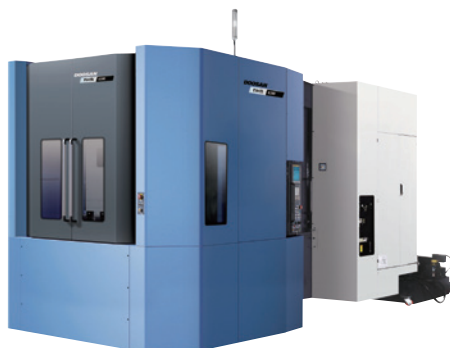
High-Speed, High-Productivity Horizontal Machining Center



Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
NHP 4000	560 / 640 / 660 (22.0 / 25.2 / 26.0)	400 x 400 (15.7 x 15.7)	15000 { 15000, 20000 }	40 { 60, 80, 120, 171, 275 }	30/18.5 { 37/22, 37/18.5 } (40.2/24.8 { 49.6/29.5, 49.6/24.8 })
NHP 5000/S	730 / 730 / 880 (28.7 / 28.7 / 34.6)	500 x 500 (19.7 x 19.7)	15000 { 15000, 20000 }	40 { 60, 80, 120, 171, 275 }	30/18.5 { 37/22, 37/18.5 } (40.2/24.8 { 49.6/29.5, 49.6/24.8 })
NHP 5500/S	800 / 750 / 850 (31.5 / 29.5 / 33.5)	500 x 500 (19.7 x 19.7)	10000 { 6000 / 15000 }	40 { 60, 90, 120, 150, 196, 256, 316, 376 }	45/25 (60.3/33.5)
NHP 6300	1050 / 900 / 1000 (41.3 / 35.4 / 39.4)	630 x 630 (24.8 x 24.8)	10000 { 6000 / 15000 }	40 { 60, 90, 120, 150, 196, 256, 316, 376 }	45/25 (60.3/33.5)
NHP 8000	1400 / 1200 / 1370 (55.1 / 47.2 / 53.9)	800 x 800 (31.5 x 31.5)	10000 { 6000 / 15000 }	40 { 60, 90, 120, 150, 196, 256, 316, 376 }	45/25 (60.3/33.5)
					{ } : Option * S3 25%/Cont.

## NHM 5000 / 6300 / 8000

Heavy duty Capability Horizontal Machining Center



Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor* kW (Hp)
NHM 5000	800 / 700 / 850 (31.5 / 27.6 / 33.5)	500 x 500 (19.7 x 19.7)	6000 { 8000 }	60 { 90, 120, 150, 196, 256, 316, 376 }	25/15 (33.5/20.1)
NHM 6300	1050 / 850 / 1000 (41.3 / 33.5 / 39.4)	630 x 630 (24.8 x 24.8)	6000 { 8000 }	60 { 90, 120, 150, 196, 256, 316, 376 }	35/22** (46.9/29.5)
NHM 8000	1400 / 1050 / 1200 (55.1 / 41.3 / 47.2)	800 x 800 (31.5 x 31.5)	6000 { 8000 }	60 { 90, 120, 150, 196, 256, 316, 376 }	35/22** (46.9/29.5)
					{ } : Option * S3 25%/Cont. ** S3 10%/Cont.

## HM 1000 / 1250

Large Horizontal Machining Center



Machine	X / Y / Z / W Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor* kW (Hp)
HM 1000	2100 / 1250 / 1250 / - (82.7 / 49.2 / 49.2 / -)	1000 x 1000 (39.4 x 39.4)	6000 {8000}	60 { 90, 120, 196, 256 }	26/22 (34.9/29.5)
HM 1250	2100 / 1500 / 1500 / - (82.7 / 59.1 / 59.1 / -)	1250 x 1250 (49.2 x 49.2)	6000 {8000}	60 {90/120/196, 256,316(MATRIX)}	26/22 (34.9/29.5)
HM 1250W	2100 / 1400 / 1400 / 300 (82.7 / 55.1 / 55.1 / 11.8)	1250 x 1250 (49.2 x 49.2)	3000	60 {90/120/196, 256,316(MATRIX)}	45/37 (60.3/49.6)
{} : Option * 30min/Cont.					

## DHF 8000 / ST

5 axis Horizontal Machining Center



Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor* kW (Hp)
DHF 8000 / ST	1450 / 1200 / 1500 (57.1 / 47.2 / 59.1)	800 x 800 (31.5 x 31.5)	6000 {15000, 30000}	60 {90, 120, 150, 196 - 376}	35/22 (46.9/29.5)
{} : Option					

## HFP 1540

5 axis Horizontal Machining Center



Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor* kW (Hp)
HFP 1540	4200 / 1600 / 550 (165.4 / 63.0 / 21.7)	4000 x 1500 (157.5 x 59.1)	30000	60	75 (100.6)
{} : Option					

Overview

Product Full Line-up

- Full Line-up of Products
- Turning Center
- Machining Center
- Double Column Machining Center
- Boring Machine

iDOO CONTROL

Optimal Technology

Easy Operation Package

Service

Global Support

Network

Overseas Supplies

System

## Double Column Machining Center

### High Speed Double Column Machining Center

#### BM series

#### High Speed Double Column Machining Center

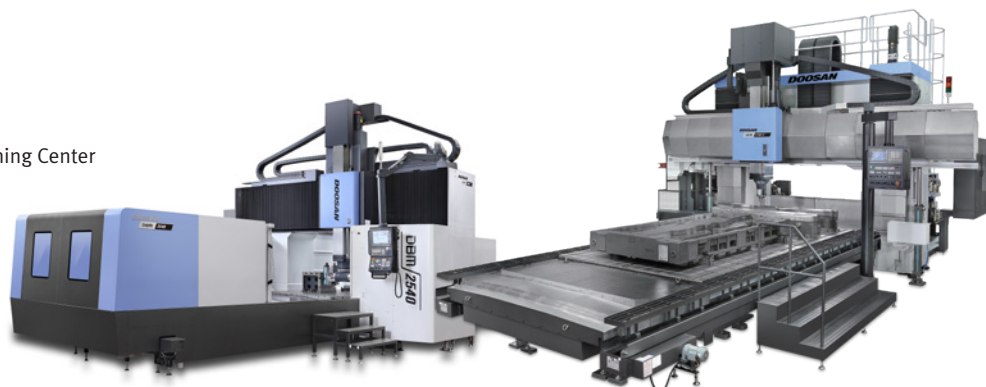


Machine	X / Y / Z Travel mm (inch)	B/C Swivel Angle (deg)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
BM 1530 / M	3000 / 1550 / 800 (118.1 / 61.0 / 31.5)	-	3000 x 1350 (118.1 x 53.1)	8000 / 12000	40 { 60 }	30/25 (40.2/33.5)
BM 2035 / M	3500 / 2050 / 800 (137.8 / 80.7 / 31.5)	-	3500 x 1850 (137.8 x 72.8)	8000 / 12000	40 { 60 }	30/25 (40.2/33.5)
BM 2740 / M	4000 / 2700 / 800 (157.5 / 106.3 / 31.5)	-	4000 x 2500 (157.5 x 98.4)	10000 / 12000	40 { 60 }	30/25 (40.2/33.5)
BM 2740P	4000 / 2700 / 500 (157.5 / 106.3 / 19.7)	-	4000 x 2500 (157.5 x 98.4)	12000	30{40}	22/18.5 (29.5/24.8)
BM 2740U	4000 / 2500 / 700 (157.5 / 98.4 / 27.6)	±110 / ±220	4000 x 2500 (157.5 x 98.4)	18000	60	40 (53.6)**

{} : Option \* 30min/Cont. \*\*Cont.

#### DBM / DCM II series

#### Customized Double Column Machining Center



Machine	X / Y / Z / W Travelmm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Effective width between column mm (inch)	Motor* kW (Hp)
DBM 2030	3250/2500/800 (128.0/98.4/31.5)	1500 x 3000 (59.1 x 118.1)	6000 {8000}	2000 (78.7)	55/37** (73.8/49.6)
DBM 2040	4250 / 2500 / 800{1100} (167.3 / 98.4 / 31.5{43.3})	1500 x 4000 (59.1 x 157.5)	6000 {8000}	2000 (78.7)	55/37** (73.8/49.6)
DBM 2540	4250 / 3000 / 800 / - (167.3 / 118.1 / 31.5 / -)	2000 x 4000 (78.7 x 157.5)	6000 {8000}	2500 (98.4)	55/37** (73.8/49.6)
DBM 2550	5250 / 3000 / 800 / - (206.7 / 118.1 / 31.5 / -)	2000 x 5000 (78.7 x 196.9)	6000 {8000}	2500 (98.4)	55/37** (73.8/49.6)
DBM 3050	5250 / 3500 / 800 (206.7 / 137.8 / 31.5)	2500 x 5000 (98.4 x 196.9)	6000 {8000}	3000 (118.1)	55/37** (73.8/49.6)
DBM 3060	6250 / 3500 / 800{1100} (246.1 / 137.8 / 31.5{43.3})	2500x6000 (98.4 x 315.0)	6000{8000}	3000 (118.1)	55/37** (73.8/49.6)
DBM 3080	8250/3500/800 (324.8/137.8/31.5)	2500 x 8000 (98.4 x 315.0)	6000 {8000}	3000 (118.1)	55/37** (73.8/49.6)
DCM 2740F II	4250 / 3200 / 700 / 1100 (167.3 / 126.0 / 27.6 / 43.3)	2200 x 4100 (86.6 x 161.4)	6000 { 4000, 12000 }	2700 (106.3)	25/22 (33.5/29.5)
DCM 2750F II	5250 / 3200 / 700 / 1100 (206.7 / 126.0 / 27.6 / 43.3)	2200 x 5100 (86.6 x 200.8)	6000 { 4000, 12000 }	2700 (106.3)	25/22 (33.5/29.5)
DCM 2760F II	6250 / 3200 / 700 / 1100 (246.1 126.0 / 27.6 / 43.3)	2200 x 6100 (86.6 x 240.2)	6000 { 4000, 12000 }	2700 (106.3)	25/22 (33.5/29.5)
DCM 2780F II	8250 / 3200 / 700 / 1100 (324.8 / 126.0 / 27.6 / 43.3)	2200 x 8100 (86.6 x 318.9)	6000 { 4000, 12000 }	2700 (106.3)	25/22 (33.5/29.5)
DCM 3250F II	5250 / 3700 / 700 / 1100 (206.7 / 145.7 / 27.6 / 43.3)	2700 x 5100 (106.3 x 200.8)	6000 { 4000, 12000 }	3200 (126.0)	25/22 (33.5/29.5)
DCM 3260F II	6250 / 3700 / 700 / 1100 (246.1 / 145.7 / 27.6 / 43.3)	2700 x 6100 (106.3 x 240.2)	6000 { 4000, 12000 }	3200 (126.0)	25/22 (33.5/29.5)
DCM 3280F II	8250 / 3700 / 700 / 1100 (324.8 / 145.7 / 27.6 / 43.3)	2700 x 8100 (106.3 x 318.9)	6000 { 4000, 12000 }	3200 (126.0)	25/22 (33.5/29.5)
DCM 3780F II	8250 / 4200 / 1000 / 1100 (324.8 / 165.4 / 39.4 / 43.3)	3200 x 8100 (126.0 x 318.9)	6000 { 4000, 12000 }	3700 (145.7)	25/22 (33.5/29.5)
DCM 37100F II	10250 / 4200 / 1000 / 1100 (403.5 / 165.4 / 39.4 / 43.3)	3200 x 10100 (126.0 x 397.6)	6000 { 4000, 12000 }	3700 (145.7)	25/22 (33.5/29.5)
DCM 4280F II	8250 / 5000 / 1000 / 1100 (324.8 / 196.9 / 39.4 / 43.3)	3500 x 8100 (137.8 x 318.8)	6000 { 4000, 12000 }	4200 (165.4)	25/22 (33.5/29.5)

{} : Option \* 30min/Cont. \*\* S3 25%/Cont.

## Boring Machine

Horizontal Boring Machine / Duplex Spindle Horizontal Boring Machine

### DBC 110 / 130 / 160 / 250

Horizontal Boring Machine



Machine	X / Y / Z / W Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor* kW (Hp)
DBC 110S	2000 / 1500 / 1200 / 500 (78.7 / 59.1 / 47.2 / 19.7)	1400 x 1600 (55.1 x 63.0)	3000	{40, 60, 90}	26/22 (34.9/29.5)
DBC 130S	2000 / 1500 / 1200 / 600 (78.7 / 59.1 / 47.2 / 23.6)	1400 x 1600 (55.1 x 63.0)	3000	40 {60 / 90}	26/22 (34.9/29.5)
DBC 130SL	2500 / 2000 / 1500 / 600 (98.4 / 78.7 / 59.1 / 23.6)	1400 x 1800 (55.1 x 70.9)	2500	40 {60 / 90}	37/30 (49.6/40.2)
DBC 110 II	2500 / 2000 / 1500 / 550 (98.4 / 78.7 / 59.1 / 21.7)	1400 x 1800 (55.1 x 70.9)	4000	{40, 60, 90}	26/22 (34.9/29.5)
DBC 130 II	3000 / 2000 / 1600 / 700 (118.1 / 78.7 / 63.0 / 27.6)	1600 x 1800 (63.0 x 70.9)	2500	{40, 60, 90}	26/22 (34.9/29.5)
DBC 130L II	4000 / 2500 / 2000 / 700 (157.5 / 98.4 / 78.7 / 27.6)	1600 x 1800 (63.0 x 70.9)	2500	{40, 60, 90}	26/22 (34.9/29.5)
DBC 160	4000 / 2500 / 1600 / 800 (157.5 / 98.4 / 63.0 / 31.5)	2000 x 2200 (78.7 x 86.6)	2000	{40, 60, 90}	45/37 (60.4/49.7)
DBC 160L	5000 / 3000 / 2000 / 800 (196.9 / 118.1 / 78.7 / 31.5)	2000 x 2200 (78.7 x 86.6)	2000	{40, 60, 90}	45/37 (60.4/49.7)
DBC 250 II	3000 / 2000 / 1600 / 500 (118.1 / 78.7 / 63.0 / 19.7)	1600 x 1800 (63.0 x 70.9)	6000	{40, 60, 90}	30/22 (40.2/29.5)
DBC 250L II	4000 / 2500 / 2000 / 500 (157.5 / 98.4 / 78.7 / 19.7)	1600 x 1800 (63.0 x 70.9)	6000	{40, 60, 90}	30/22 (40.2/29.5)

{ } : Option \*30min/Cont.

### DBD series

Duplex Spindle Horizontal Boring Machine



Machine	X / Y / Z / W Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor* kW (Hp)
DBD 1270	7000 / 1500 / 1000 / - (275.6 / 59.1 / 39.4 / -)	1250 x 7000 (49.2 x 275.6)	3000	{ 40, 60 }	26/22 (34.9/29.5)
DBD 1580	8000 / 2000 / 450 / 500 (315.0 / 78.7 / 17.7 / 19.7)	1500 x 8000 (59.1 x 315.0)	2500	{ 40, 60 }	26/22 (34.9/29.5)

{ } : Option \* 30min/Cont.

# CUFOS

## Customized User-friendly Flexible Operation Solutions

CUFOS is a PC based control system created by Doosan Machine Tools. Equipped with intuitive user-friendly functions such as a smart phone screen and easy customization, CUFOS helps to improve operational efficiency and performance for the user.

### • Features of CUFOS

#### User-Friendly

- 19 inch Multi Touch Screen
- Multiple Apps such as –
  - CPS app (Collision Protection System)
  - Turn-cut app
  - Tool management app
  - Status monitoring and alarm guidance app
- Max. program memory : 40GB option
- App-based Interface for Smartphones & Tablet PC

#### Customized

- Simple Customization
- Extend Functionality with Additional apps
- Register for up to 6 individual users

#### Flexible

- Simple Connectivity with External Software (Cloud, Office etc.)
- SSD data server app
- PC based operating system (Windows®7)



# Optimal Technology

Continuous research and years of know-how of Doosan Machine Tools, offers reliability and convenience to our customers. Worldwide excellent technology will provide you the best solution.



## High speed Spindle Technology

Maximum speed and acceleration / deceleration speed are the two core performance factors of a spindle that affect a machine's productivity. Doosan Machine Tools has developed a high-speed, constant-pressure machining by introducing coil switching technology that can control and optimize power distribution on a structure with minimized vibration.



## Smart Monitoring Technology

Doosan Machine Tools develops and provides various features designed to enhance its machine tool performance and operational convenience in addition to the features inherent in the CNC system.



## High rigidity Guideway Technology

The high-rigidity box guideway installed in our products is equipped with air-based semi-floating technology. Doosan Machine Tools has applied its unique semi-floating sliding plate, which slashes maintenance costs through the reduction of engine oil consumption.



## Easy Operation Technology

Build your own Smart Factory with all doo control that offers monitoring data collection from various machine tools, ERP connection & data accumulation, and data analysis & solution provision by AI algorithm etc.



## Thermal Stability Technology

Doosan Machine Tools possesses technologies that minimize the impact of plant environments on machine tools, including a variety of technologies related to cooling and pre-load methods, low-heat ball screws, and cooling oil inside the main shaft.



## Eco-Friendly Technology

Doosan Machine Tools deliver eco-friendly value and energy savings in addition to the machine's own performance.

Product Full Line-up

- Full Line-up of Products
- Turning Center
- Machining Center
- Double Column Machining Center
- Boring Machine

iDOO CONTROL

Optimal Technology

Easy Operation Package

Service

Global Support

Network

Overseas Supplies

System

# Easy Operation Package (EOP)

Easy Operation Package (EOP) is a smart software program consisting of about 70 convenient features designed to help customers carry out their setting/operation tasks more easily and conveniently. It will help them to improve their productivity through accurate, fast machining operations.

## Convenient Control

These software features are designed to enable users to operate their machine tools conveniently. They help users carry out their program setting and scheduling tasks easily through NC screens, manage/handle accessory devices and tools effectively, and fix problems when alarms ring or problems arise.

### Program setting

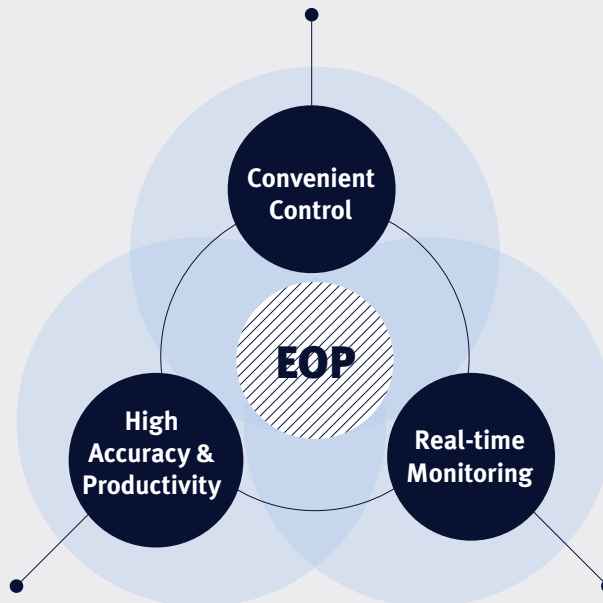
- CALCULATOR
- PATTERN CYCLE FOR DCM
- ENGRAVING
- WORK OFFSET SETTING
- G-CODE LIST
- M-CODE LIST

### Operation control

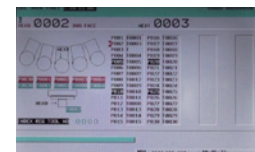
- MACHINE MOVING FOR SETUP
- ATC / APC / AAC SETTING SCREEN
- RENISHAW GUI
- APC SETTING SCREEN
- MATRIX
- MULTI PALLET MAGAZINE (PMG)
- MULTI PALLET STATION(MPS)
- 5APC
- TAIL STOCK THRUST SETTING
- PMC SOFT PANEL SWITCH
- Q-SETTER GUIDE (DEVELOPING)
- MULTI FACE SUPPORT

### Easy Maintenance

- ALARM GUIDANCE
- ATC RECOVERY HELP
- EASY NC PARAMETER HELP
- TOOL DATA REGISTRY SCREEN
- TOOL MANAGEMENT I
- TOOL MANAGEMENT II (with Tool ID)
- TOOL MANAGEMENT 8-digits (with Tool ID)



### TOOL MANAGEMENT (example)



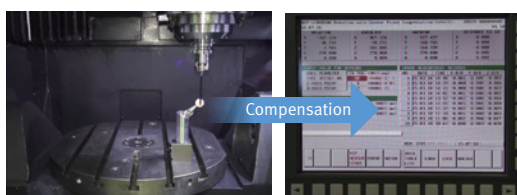
- Tool information
- Tool number
  - Tool name
  - Tool size, status
  - Manage broken or warning tool
  - Switch tool
  - Regist and set manual tool

## High Accuracy & high Productivity

This feature helps improve users' productivity by ensuring that they can carry out their machining operations more accurately and efficiently.

- SMART THERMAL COMPENSATION
- SQUARENESS COMPENSATION
- AUTOMATIC BACKLASH COMPENSATION
- DCP-i
- AFC(Adaptive Feed Control)

### DCP-i (Doosan Center Point position Intelligence)



## Real-time Monitoring

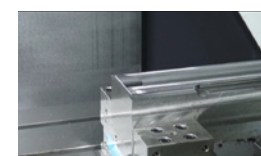
This feature enables users to monitor everything that takes place during their machining operations in real time. Users can check their machining progress rates and machining results.

- OPERATION RATE
- SENSOR STATUS MONITOR
- TOOL LOAD MONITOR
- PRODUCT COUNT
- TOOL LIFE COUNT

### AFC (Adaptive Feed Control)



AFC 'OFF'  
02:19

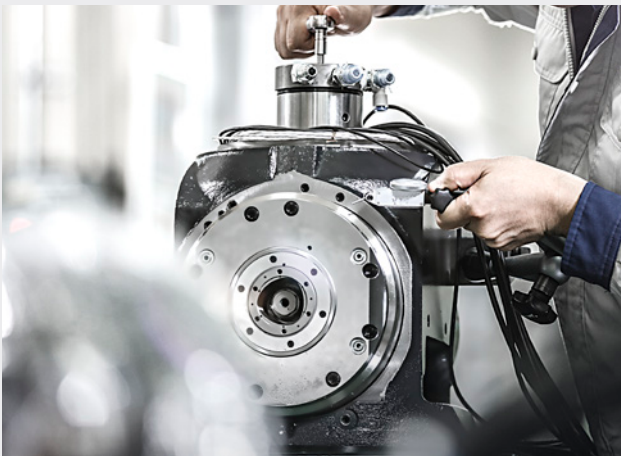


AFC 'ON'  
01:49



# Customer Support Service

We offer 24-hour personalized customer service. We help customers to achieve success by providing a variety of professional services from pre-sales consultancy to post-sales support.



## Supplying Parts

- Supplying a wide range of original Doosan spare parts
- Parts repair service



## Field Services

- On site service
- Machine installation and testing
- Scheduled preventive maintenance
- Machine repair



## Technical Support

- Supports machining methods and technology
- Responds to technical queries
- Provides technical consultancy



## Training

- Programming / machine setup and operation
- Electrical and mechanical maintenance
- Applications engineering



# Responding to Customers Anytime, Anywhere

## Doosan Machine Tools' Global Network, Responding to Customer's Needs nearby, Anytime, Anywhere

Doosan machine tools provides a system-based professional support service before and after the machine tool sale by responding quickly and efficiently to customers' demands.

By supplying spare parts, product training, field service and technical support, we can provide top class support to our customers around the world.



### Global Sales and Service Support Network

Corporations	Dealer Networks	Technical Centers	Service Post	Factories
4	167	51 <small>Technical Center: Sales Support, Service Support, Parts Support</small>	200	3

# Overseas Supplied System

## Doosan Machine Tools Products Working In Industries World Wide

Machining systems | Flexible Manufacturing Cells | Flexible Manufacturing System | Flexible Transfer Line

### UNITED STATES

Alco Controls  
Allied Signal  
Allied Signal Engines  
Ambel Precision  
Manufacturing Co.  
American Sleeve Bearing  
Anchor Hocking  
ATM Specialties  
B.F. Goodrich Aerospace  
Baldor Electric  
Baldor Electric Co.  
Bath Iron Works  
Bendix Benz  
Bimba Manufacturing  
Bosche  
Browning Bosche  
Brunswick  
Buck Chuck  
Camco  
Carrier  
Caterpillar  
Chicago Roll  
Clark Equipment  
Colts Manufacturing  
Combustion Engineering  
Cooper Industries

Cooper Power Tools  
Cushman  
Dana  
Dana Spicer  
Darmark Corp.  
Dayton Progress  
Dresser  
E.G. & G.  
Eaton  
Elgin Sweeper  
Emerson Electric  
Fastenal Inc.  
Federal Mogal  
Federal Signal  
Ford  
France Compressor Products  
General Dynamics  
General Motors  
George Fisher Foundries  
Gildea  
Grimes Engineering  
Hexatron Engineering  
Hydraw Flow  
I. B. M.  
In-Sink-EratorInvar  
Manufacturing  
ITT Engineered Valves

Jacobs Vehicle  
Jake Brake  
Kellogg Crankshaft  
Kelsey-Hayes  
Kuhn Industries  
Kurk Manufacturing  
TCN Vehicles Division S.r.l.  
TEKNO S.r.l.  
VIAR Meccanica S.r.l.  
Lift-Tech International , Inc.  
Marathon Electric Company  
Mason & Hanger  
Mennies  
Milwaukee Electric  
Modern Tooling  
Outboard Marine Corp.  
Parker-Hannifin  
PGI International  
Sikorsky  
Spicer Heavy Axle  
Stace Allen Chucks  
TDM Corp.  
Technical Machine Service  
Triad Machine  
Trompler Co.  
TRW  
Twin Disk

Union Special Corp.  
United Technologies  
US Axle, Inc.  
Valentek Olivette  
Van Corp.  
Velan Engineering  
W.D. Lee & Co.  
WABCO Locomotive Products  
Watts Industries  
Westinghouse Electric  
White Rodgers  
Zurn Industries

### GERMANY

Benz Sohne  
Deutsche Metallwerke  
Duspohl  
Erco Leuchten  
Fischer Mess-und  
Regeltechnik  
Flender AG  
Gestra AG  
Heraeus  
Intra  
R & H Alurad Group  
Regeltechnik Kornwestheim  
Ronald Group

### ITALY

A.D.R. S.r.l.  
Atomat S.p.A.  
Baruffaldi S.p.A.  
Brembo S.p.A. Divisione Dischi  
Contarini Leopoldo S.r.l.  
Dott. Ing. Mario Cozzani S.r.l.  
Franzoni Ruggero  
Fucine Rostagno S.p.A.  
Manfredini Doviglio & C. S.n.c.  
Meccanica Melegari S.r.l.  
Mekanotech S.n.c. di  
Perissinotto  
O/Cava Meccanica S.p.A.  
O.M.L. di Antonioli T. & C.S.a.s.  
O.M.G. S.p.A. di Messieri & C.  
Roero Meccanica S.r.l.  
SFARMEC S.r.l.  
TCN Vehicles Division S.r.l.  
TEKNO S.r.l.  
VIAR Meccanica S.r.l.

### U. K

Anson  
Automatic Components  
Bombardier  
British Aerospace  
Depuy  
Firth Rixon  
FMC Technologies  
GKN  
Hewland Engineering  
Howdens  
Kawasaki Heavy Industries  
Nikken  
Pear Engineering  
Renishaw  
Rolls Royce Aerospace  
Rolls Royce  
RT Quaife  
Sandvik Medical  
Slomaw Engineering  
Smith and Nephew  
Thales Defence  
Trelleborg

### INDIA

Ace Designers Ltd  
Amtek Auto Limited  
Apex Auto Limited  
BRAKES India Ltd  
CRI Pumps Pvt. Ltd  
Cummins India Ltd  
GNA Enterprises Limited  
International Auto Limited  
KIRLOSKAR Brothers Ltd  
KIRLOSKAR Ebara Pumps Ltd  
KIRLOSKAR Oil Engines Ltd  
KIRLOSKAR Pneumatic Co. Ltd  
Ramkrishna Forgings Limited  
Rico Auto Industries Ltd  
TATA motors  
Wheels India Ltd

### MALAYSIA

Hicom Engineering  
OMS Oilfield Services  
Sapura Machining  
SMEA  
Takako Vietnam  
TRW

### SINGAPORE

ASM Front-End  
Manufacturing

### INDONESIA

PT. Inti Ganda Perdanan  
Group

### JAPAN

Komatsu  
Nissan  
SNK

### THAILAND

Delphi  
Honda Automobile  
TRW

### BRAZIL

Volkswagen

### HUNGARY

Rabbe

### SWEDEN

Volvo

### IRAN

Mega motors  
Saipa Malleable

### MEXICO

Delphi

### CHINA

FAW Group  
Flender  
JAC Group  
KF Valve  
KNORR  
SAIC  
Sany Group  
Shaanxi Fast Group  
WEICHAI Power  
XCMG Group

### PAKISTAN

KSB Pumps  
Rastgar Engineering

### UAE

Ados Engineering Industries  
FTV Proclad  
Hoerbiger Service ME  
Weatherford

### SAUDI ARABIA

Saudi Mechanical Industries

### OMAN

Cameron Services  
Middle East  
United Engineering Services



### **Head Office**

22F T Tower, 30, Sowol-ro 2-gil  
Jung-gu, Seoul, Korea, 04637

Tel +82-2-6972-0370/0350

Fax +82-2-6972-0400

### **Doosan Machine Tools America**

19A Chapin Road, Pine Brook  
New Jersey 07058, United States

Tel: +1-973-618-2500

Fax: +1-973-618-2501

### **Doosan Machine Tools Europe**

Emdener Strasse 24, D-41540  
Dormagen, Germany

Tel: +49-2133-5067-100

Fax: +49-2133-5067-111

### **Doosan Machine Tools India**

No.82, Jakkuar Village  
Yelahanka Hobli, Bangalore-560064

Tel: + 91-80-2205-6900

E-mail: [india@doosanmt.com](mailto:india@doosanmt.com)

### **Doosan Machine Tools China**

Room 101,201,301, Building 39 Xinzhuan  
Highway No.258 Songjiang District  
China Shanghai (201612)

Tel: +86 21-5445-1155

Fax: +86 21-6405-1472

### **Sales inquiry**

[sales@doosanmt.com](mailto:sales@doosanmt.com)

\*For more details, please contact Doosan Machine Tools.

\*Specifications and information contained within this catalogue may be changed without prior notice.

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**Fire Safety  
Precautions**

There is a high risk of fire when using non-water-soluble cutting fluids, processing flammable materials, neglecting the controlled and careful use of coolants and modifying the machine without the consent of the manufacturer. Always check the SAFETY GUIDELINES carefully before using the machine.