



PRODUCT LINEUP



Overview

Product Full Line-up

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

CUFOS

Optimal Technology

EZ Work

Service

Global Support

Network

Overseas Supplies

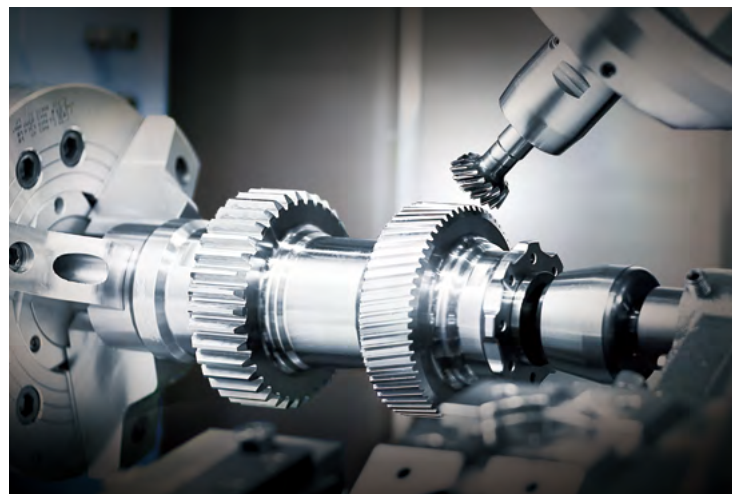
System



Providing cutting-edge technology and optimal solutions to ensure DN Solutions' 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 DN Solutions' way.

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Overseas Supplies System**



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Continuous Innovation for Advanced Products & Technology

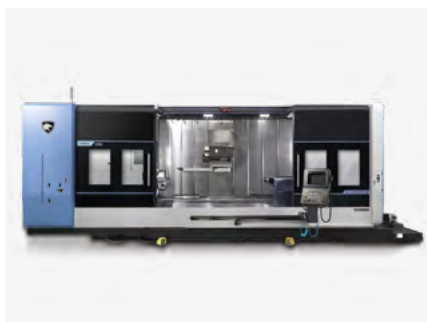
Whatever your needs are, we have the product you need.
Our full line of competitive high-value machine tools
delivers unmatched performance and precision.

Full Line-up of Products

Horizontal turning centers



Multi-tasking turning centers



Ram type vertical turning centers



Double column machining centers

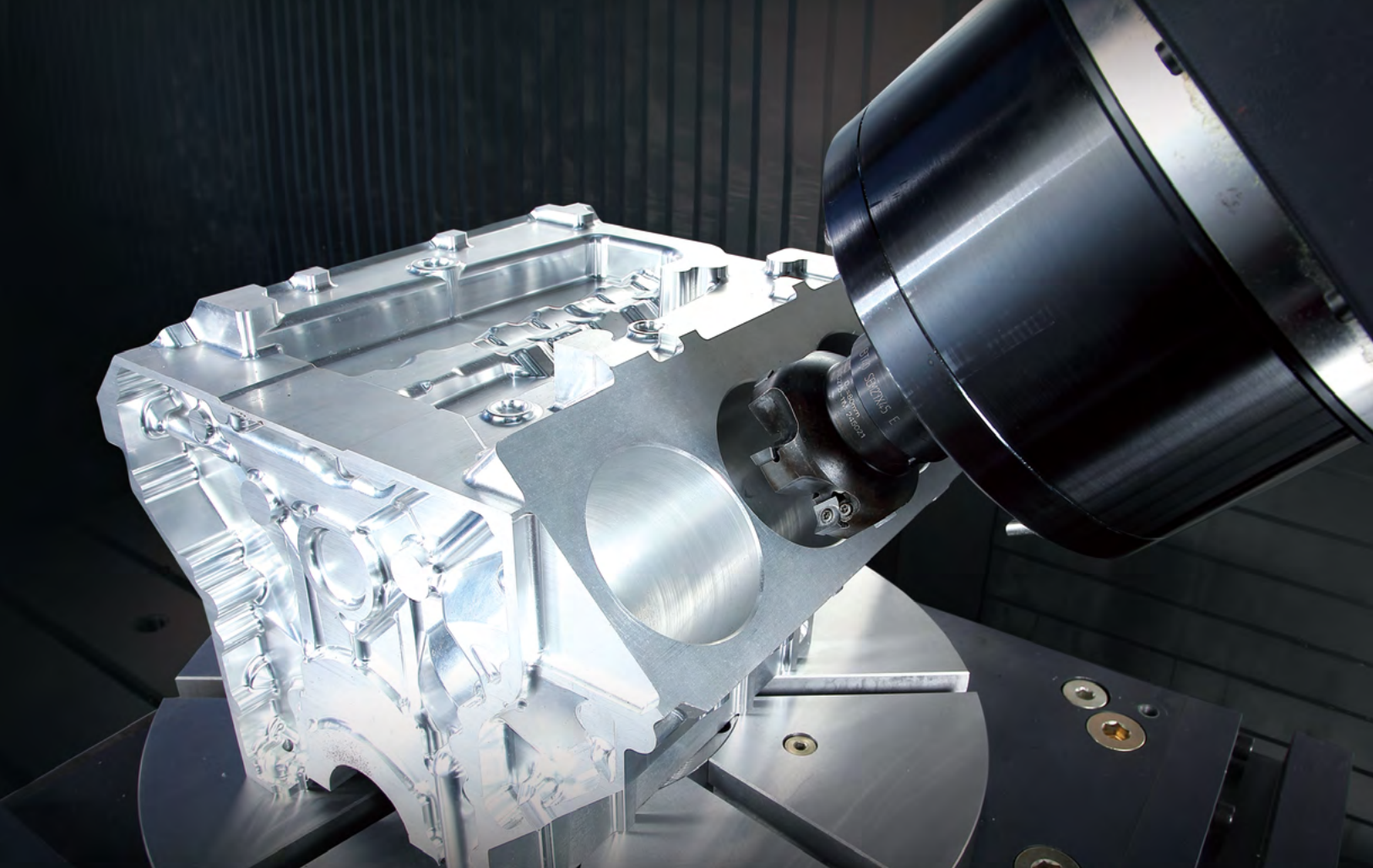


Linear Pallet System



Round Pallet System





Vertical machining centers



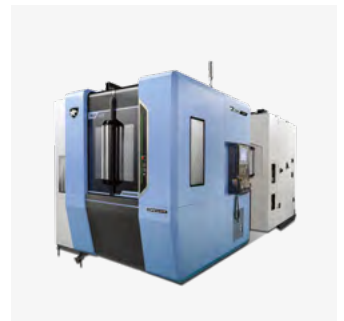
5-axis vertical machining centers



Die & mold vertical machining centers



Horizontal machining centers



Auto work-piece change system



Swiss type turning centers



Vertical turning centers



Horizontal boring mills



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 2000

Lynx 2100

Lynx 2600

Lynx 210

Multi-Axis

PUMA TT1300

PUMA TT1800

PUMA TT2100

PUMA TT2500

PUMA TL2000

PUMA TL2500

Aluminum Wheel Turn

PUMA VAW 800

Twin Spindle

PUMA TW2100

PUMA TW2600

Twin Spindle with Gantry Loader

PUMA TW2100-GL

PUMA TW2600-GL

High Performance

PUMA 2100

PUMA 2600

PUMA 3100

PUMA DNT2100

PUMA DNT2600

PUMA GT2600

PUMA GT3100

PUMA 4100

PUMA 5100

PUMA 600II / 700II/ 800II

PUMA 1000

Multi-Tasking Turning Centers

DNX 2100

SMX 2100

SMX 2600

SMX 3100

SMX 5100

Vertical Turning Centers

PV 400

PV 400P

PV 8300

PV 9300

PUMA VT1100

Ram Type

PUMA VTR1012

PUMA VTR1216

PUMA VTR1620

PUMA VTR2025

Grinding machine for quartz, ceramic materials

XG 600 / 800

Swiss Type Turning Centers

PUMA ST10GSII

PUMA ST20GSII / 26GSII

PUMA ST32GSII / 35GSII / 38GSII

M

L

G

T

2SP

F

Milling

Long Bed

Gang type

Lower Turret

Twin Spindle

Cross rail fixed type

Y

S

GL

XL

B*

Y-axis Milling

Sub Spindle (Right Spindle)

Gantry Loader

Extra Long Bed

Big Bore (only PUMA 800)

STD

A

B

C

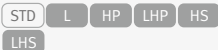
Standard model

Chuck size

Machining Centers / DCM / HBM

Vertical Machining Centers

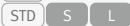
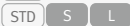
Tapping Centers

T 4000 

Compact

DEM 4000 

High Productivity & Heavy Duty

DNM 4000 
SVM 4100 
SVM 5100L 
DNM 4500 
DNM 5700 
DNM 6700 
DNM 4500 4th 
DNM 5700 4th 
DNM 6700 4th 
DNM 650 
DNM 750 

Mynx 5400II 
Mynx 6500II 
Mynx 7500II 
Mynx 9500 

High Speed, High Precision

BVM 5700 

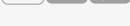
Dual Pallet / 2 spindle

VC 3600
VC 3600/30
VC 430
VC 510

2-Spindle Vertical Machining Center for High Productivity

VC 4000D-2SP
XC 4000D-2SP
XC 4000DA-2SP

5-axis

DVF 4000 
DVF 5000 
DVF 5000 2nd 
DVF 6500 
DVF 8000 
DNM 200/5AX
DNM 350/5AX
FM 200/5AX linear
FM 350/5AX linear

Multi Purpose

VCF 850II 
VCF 5500 

Die & Mold

VM 5400 / 6500
VM 560 
VM 750 
VM 960 
VM 1260

MD 6700

DVM 500II
DVM 650II
NX 5500II
MP 6500

Special Machining

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

Horizontal Machining Centers

Compact

NHC 4000
NHC 5000

High Speed

NHP 4000
NHP 5000
NHP 5500 2nd
NHP 6300
NHP 8000

Heavy Duty

NHM 5000
NHM 6300
NHM 8000
HM 1000 
HM 1250

5-axis

DHF 8000 
HFP 1540

Bridge Type Machining Centers

BM 1530 
BM 2035 
BM 2740 

Five Face Double Column Machining Centers

DBM 1525s
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 
DCM 3150H

Horizontal Boring Mills

DBC 110 
DBC 130 
DBC 160 

Double Column Horizontal Boring Mills

DBD 1250
DBD 1270
DBD 1280

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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

Lynx 2000/2100/2600, Lynx 210

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 2000G	6/8	170 (6.7)	330 (13.0)	6000	15/15/11 (20.1 / 20.1 / 14.8)
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 2600	10	460 (18.1)	658 (25.9)	3500	18.5/15 (24.8 / 20.1)
Lynx 2600M	10	380 (15.0)	610 (24.0)	3500	18.5/15 (24.8 / 20.1)
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)

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 2100MS [LMS]	8	406 (16.0)	520 [760] (20.5 [29.9])	4500	25/18.5/15 (33.5/24.8/20.1)
PUMA 2100YII / LYII	8	406 (16.0)	520 / 760 (20.5 / 29.9)	5000	22/22/11 (29.5/29.5/14.8)**
PUMA 2100SYII / LSYII	8	406 (16.0)	520 / 760 (20.5 / 29.9)	5000	22/22/11 (29.5/29.5/14.8)**
PUMA 2600MS [LM / LMS]	10	376 (14.8)	760 [1280] (29.9 [50.4])	3500	30/22/18.5 (40.2/29.5/24.8)
PUMA 2600B / SB [LB]	12	481 (18.9)	755 [1275] (29.7 [50.2])	2800	26/22/18.5 (34.9/29.5/24.8)
PUMA 2600MB / MSB [LMB]	12	376 (14.8)	725 [1245***] (28.5 [49.0])	2800	26/22/18.5 (34.9/29.5/24.8)
PUMA 2600YII / LYII	10	376 (14.8)	760 / 1280 (29.9 / 50.4)	4000	22/22/15 (29.5/29.5/20.1)
PUMA 2600SYII / LSYII	10	376 (14.8)	760 / 1280 (29.9 / 50.4)	4000	22/22/15 (29.5/29.5/20.1)
PUMA 2600YBII / SYBII [LYBII / LSYBII]	12	376 (14.8)	725 [1245] (28.5 [49.0])	2800	26/22/18.5 (34.9/29.5/24.8)
PUMA 3100 / L	12	525 (20.7)	790 / 1310 (31.1 / 51.6)	2800	26/22/18.5 (34.9/29.5/24.8)
PUMA 3100XL / UL	12	525 (20.7)	2150 / 3150 (84.7 / 124.0)	2800	26/22/18.5 (34.9/29.5/24.8)
PUMA 3100M / Y [LM / LY]	12	420 (16.5)	765 / 1285 (30.1 / 50.6)	2800	26/22/18.5 (34.9/29.5/24.8)
PUMA 3100SY / LSY	12	420 (16.5)	765 / 1285 (30.1 / 50.6)	2800 {3000}	30/26/18.5 (40.2/34.9/24.8) {30/25 (40.2/33.5)}
PUMA 3100XLM / XLY [ULM / ULY] XLYB / ULYB	12	420 (16.5)	2125 / 3125 (83.7 / 123.0)	2800	30/26/18.5 (40.2/34.9/24.8)

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

PUMA DNT2100 / 2600

PUMA GT2600 / 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 DNT2100/M	8{10}	400/320 (15.7/12.6)	562/513 (22.1/20.2)	4500	18.5/15/15(24.8/20.1/20.1)
PUMA DNT2100B/MB	10	400/320 (15.7/12.6)	550/501 (21.7/19.7)	3500	18.5/15/15(24.8/20.1/20.1)
PUMA DNT2600/L	10{12}	460 (18.1)	658 (25.9)	3500	26/22/18.5(34.9/29.5/24.8)
PUMA DNT2600M/LM	10{12}	380 (15.0)	610 (24)	3500	26/22/18.5(34.9/29.5/24.8)
PUMA GT2600XL/XLMA	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 GT2600XL/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	26/22/18.5** (34.9/29.5/24.8)

* 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.

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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 600II / 700II / 800II

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

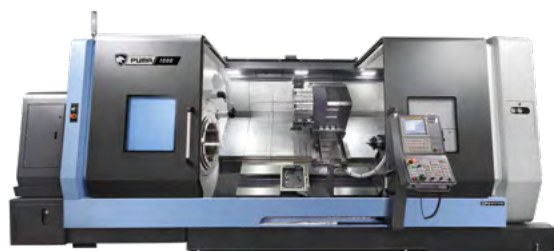


Machine	Chuck mm (inch)	Max. Turning Dia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA 600 / M	18	900 (35.4)	1600 (63.0)	1800	55/45/37 (73.8 /60.4/49.7)
PUMA 600L / LM	18	900 (35.4)	3200 (126.0)	1800	55/45/37 (73.8 /60.4/49.7)
PUMA 600XL / XLM	18	900 (35.4)	5050 (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 TT1300SYB	(Left)6/ (Right)5	175 (6.9)	120 (4.7)	6000	15/11/7.5(L),11/7.5/5.5(R) ¹⁾ (20.1/14.8/10.1),(14.8/10.1/7.4)
PUMA TT1800SY	8	230 (9.1)	230 (9.1)	5000	22/18.5(29.5/24.8)
PUMA TT2100SY	8	230 (9.1)	230 (9.1)	5000	25/18.5/15(L),22/18.5(R) ²⁾ (33.5/24.8/20.1),(29.5/24.8)
PUMA TT2100SYB	(Left)10/ (Right)8	230 (9.1)	230 (9.1)	3500(L) 5000(R)	22/18.5 ³⁾ (29.5/24.8)
PUMA TT2500SY	10	U : 390 (15.4) L : 300 (11.8)	350 (13.8)	3500	26/22 (34.9/29.5)
PUMA TL2000	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 TL2500/L	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)

M : Milling S : Sub spinndle 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.

PUMAVAW 800

Vertical Aluminum Wheel Turns



Machine	Wheel Size (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA VAW800	28	711 (28.0)	2000	55/45** (73.8/60.4)
* S3 25%/Cont. ** S3 40% 30min/Cont.				

PUMA TW2100/2100-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(W)/(W)M	8 {6}	240 (9.4)	128 (5.0)	4500 { 6000 }	15/11 (20.1/14.8)
PUMA TW2600(W)/(W)M	10{8,12}	360 (14.1)	170 (6.7)	3500	18.5/15** (24.8/20.1)
PUMA TW2600(W)B/(W)MB	12	Ø360 (14.1)	170 (6.7)	3500	22/18.5 (29.5/24.8)
{ } : 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(W)-GL/(W)M-GL	Ø130 x 65 (5.1 x 2.6) { Ø180 x 80 (7.1 x 3.1) }	3 (6.6)	5.7
PUMA TW2600(W)-GL/(W)M-GL	Ø200 x 90 (7.9 x 3.5) { Ø320 x 35 (12.6 x 1.4) }	6 (13.2)	7.9
PUMA TW2600(W)B-GL/(W)MB-GL	Ø225 (8.9)	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

CUFOS

Optimal Technology

EZ Work

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

DNX series

DN Multi axis Turning center



Machine	Chuck (inch)	Max. Machining Dia. mm (inch)	Max. Machining Length mm (inch)	Max. Spindle Speed (r/min)	Spindle Motor kW (Hp)
DNX 2100	8	520 (20.5)	1100 (43.3)	5000	18.5 (24.8)

PUMA SMX 2600 / 3100, SMX 2100 / 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)
SMX 2100/S/ST	8	600 (23.6)	1040 (40.9)	5000	22/18.5/15 (29.5/24.1/20.1)
SMX 2100L	8	600 (23.6)	1540 (60.6)	5000	22/-/22 (29.5/-/29.5)
SMX 2100B/SB/STB	10	600 (23.6)	1040 (40.9)	4000	22/22/15 (29.5/29.5/20.1)
PUMA SMX 2600/S/ST	10	660 (26.0)	1540 (60.6)	4000 / 12000	30/26/22 (40.2/34.9/29.5)
PUMA SMX 3100/S/ST	12	660 (26.0)	1540 (60.6)	3000 / 12000	30/25 (40.2/33.5)
PUMA SMX 3100L/LS	12	660 (26.0)	2540 (100.0)	3000 / 12000	30/25 (40.2/33.5)
SMX 3100B/835	12 {15}	760 (29.9)	790 (31.1)	2400/12000	30/25 (40.2/33.5)
SMX 5100L/XL	15	830 (32.7)	3050/4070 (120.1/160.2)	2400/10000	37/30 (49.6/40.2)
SMX 5100LB/XLB	21	830 (32.7)	3050/4070 (120.1/160.2)	1500/10000	37/30 (49.6/40.2)
SMX 5100LS	15	830 (32.7)	3050 (120.1)	2400/10000	37/30 (49.6/40.2)
SMX 5100LSB	21	830 (32.7)	3050 (120.1)	1500/10000	37/30 (49.6/40.2)

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

PV 400/6300/8300/9300

High Productivity Vertical Turning Center



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. Turning Height mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PV 400	12	496 (19.5)	461 (18.1)	3000	22/18.5 (29.5/24.8)
PV 400M	12	420 (16.5)	400 (15.7)	3000	22/18.5 (29.5/24.8)
PV 400P	12	496 (19.5)	461 (18.1)	3000	22/18.5 (29.5/24.8)
PV 8300	15	830 (32.7)	750 (29.5)	2000	37/30 ** (49.6/40.2)
PV V8300M	15	830 (32.7)	750 (29.5)	2000	37/30 *(49.6/40.2)
PV 9300 / 2SP	24	930 (36.6)	801 (31.5)	1800	45/37 (60.3/49.6)
PV 9300M	24	930 (36.6)	801 (31.5)	1800	45/37 (60.3/49.6)

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

PUMA VT1100

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)
PUMA VT1100	32	1100 (43.4)	960 (37.8)	850	60/55/45** (80.5/73.8/60.4)
PUMA VT1100M	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.

XG 600 / 800

Grinding machine for quartz, ceramic materials



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Spindle Speed (r/min)	Motor* kW (Hp)
XG 600	12	600 (23.6)	500{2500}* (19.7{98.4})	18.5/15/11 (24.8/20.1/14.8)
XG 800	12	800 (31.5)	500{2500} (19.7{98.4})	14.1 / 6.3 (18.9 / 8.4)

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

PUMA VTR1012F / 1216F / 1216 / 1620 / 2025

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)
PUMA VTR1012F	1250 (49.2)	750 (29.5)	600	45/37* (60.3/49.6)
PUMA VTR1012FC	1250 (49.2)	695 (27.4)	600	45/37* (60.3/49.6)
PUMA VTR1216F	1600 (63.0)	950 (37.4)	400	45/37* (60.3/49.6)
PUMA VTR1216FC	1600 (63.0)	855 (33.7)	400	45/37* (60.3/49.6)
PUMA VTR1216FM	1600 (63.0)	950 (37.4)	400	45/37* (60.3/49.6)
PUMA VTR1216 / M	1600 (63.0)	1250 (49.2)	400	45/37* (60.3/49.6)
PUMA VTR1620/M	2000 (78.7)	1800 (70.9)	300	45/37* (60.3/49.6)
PUMA VTR2025 / M	2500 (98.4)	2000 (78.7)	200	75/60** (100/80)

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

PUMA ST10GS 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)
PUMA ST10GS II	10 (0.4)	22	3.7/2.2 (5.0/3.0)	1.1/0.55 (1.5/0.7)
PUMA ST20GS II	20 (0.8)	25	3.7/2.2 (5.0/3.0)	3.7/2.2 (5.0/3.0)
PUMA ST26GS II	26 (1.0)	22 { 27 }	5.5/2.2 (7.4/3.0)	3.7/2.2 (5.0/3.0)
PUMA ST32GS II	32 (1.3)	24	7.5/5.5 (10.1/7.4)	3.7/2.2 (5.0/3.0)
PUMA ST35GS II	35 (1.4)	22	7.5/5.5 (10.1/7.4)	3.7/2.2 (5.0/3.0)
PUMA ST38GS 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 PUMA ST10GS model

Overview

Product Full Line-up

Full Line-up of Products

Turning Center

Double Column
Machining Center

Boring Machine

CUFOS

Optimal Technology

EZ Work

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 4000

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 4000	520{700} / 400 / 350 (20.5{27.6} / 15.7 / 13/8)	650 x 400 (25.6 x 15.7)	12000 {18000}	21	13 / 3.7 (17.4 / 5.0) {2.2 / 1.1(3.0 / 14.8) }
T 4000L	520{700} / 400 / 350 (20.5{27.6} / 15.7 / 13/8)	850 x 400 (33.5 x 15.7)	12000 {18000}	21	13 / 3.7 (17.4 / 5.0) {2.2 / 1.1(3.0 / 14.8) }
T 4000HP	520{700} / 400 / 350 (20.5{27.6} / 15.7 / 13/8)	650 x 400 (25.6 x 15.7)	12000	21	36 / 7.5 (48.3 / 10.1)
T 4000LHP	520{700} / 400 / 350 (20.5{27.6} / 15.7 / 13.8)	650 x 400 (25.6 x 15.7) {850X400 (33.5x15.7)}	12000	21	36 / 7.5 (48.3 / 10.1)
T 4000HS	520{700} / 400 / 350 (20.5{27.6} / 15.7 / 13/8)	650x400 (25.6 x 15.7)	24000	21	5.5 / 3.7 (7.4 / 5.0)
T 4000LHS	520{700} / 400 / 350 (20.5{27.6} / 15.7 / 13/8)	850 x 400 (33.5x15.7)	24000	21	11/2.2 (14.8/3.0)
{ } : Option * 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	7.5/5.5 (10.1/7.4)
{ } : Option					

DNM 4000 / 4500 / 5700 / 6700

DNM 650/50 II

DNM 750/50 II , 750L/50 II

SVM 4100/5100L

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 (36.2 x 16.1)	12000	30	18.5/5.5 (24.8/7.4)
SVM 5100L	1270 / 510 / 510 (50.0 / 20.1 / 20.1)	1320 x 510 (52.0 x 20.1)	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 4500 ^{4th}	800 / 450 / 510 (31.5 / 17.7 / 20.1)	1000 x 450 (39.4 x 17.7)	8000 {8000****, 12000, 15000}	30{40} / 60 : SQ	18.5/11 {15/11} (24.8/20.1 {20.1/14.8})
DNM 5700 ^{4th}	1050 / 570 / 510 (41.3 / 22.4 / 20.1)	1300 x 570 (51.2 x 22.4)	8000 {8000****, 12000, 15000}	30{40} / 60 : SQ	18.5/11 {15/11} (24.8/20.1 {20.1/14.8})
DNM 6700 ^{4th}	1300 / 670 / 625 (51.2 / 26.4 / 24.6)	1500 x 670 (59.1 x 26.4)	8000 {8000****, 12000, 15000}	30{40} / 60 : SQ	18.5/11 {15/11} (24.8/20.1 {20.1/14.8})
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 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.
***** 8000 r/min High torque version(FANUC only)

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)	1200 x 540 (47.2 x 21.3)	8000 {12000}	30 {40}	15/11 (20.1/14.8)
Mynx 5400/50 II	1020 / 550 / 530 (40.2 / 21.7 / 20.9)	1200 x 540 (47.2 x 21.3)	6000 { 8000 }	24	15/15/11** (20.1 / 20.1 / 14.8)
Mynx 6500 II	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400 x 670 (55.1 x 26.4)	8000 { 12000 }	30 {40}	15/11 (20.1/14.8)
Mynx 6500/50 II	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400 x 670 (55.1 x 26.4)	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)	1600 x 750 (63.0 x 29.5)	12000	30 {40}	26/22 (34.9/29.5)
Mynx 7500/50 II	1525 / 770 / 625 (60.0 / 30.3 / 24.6)	1600 x 750 (63.0 x 29.5)	6000 { 8000 }	24 {40}	18.5/15 (24.8/20.1)
Mynx 9500	2500 / 950 / 800 (98.4 / 37.4 / 31.5)	2500 x 950 (98.4 x 37.4)	6000 { 10000 }	30 {40}	30/18.5**** (40.2/24.8)

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

BVM 5700

High Speed, High Precision Premium Vertical Machining Center



Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
BVM 5700	1050 / 570 / 460 (41.3 / 22.4 / 18.1)	1300 x 570 (51.2 x 22.4)	15000	30 {40}	37/15 (49.6/20.1)

{ } : Option *S3 15%/ Cont.

VC 4000D-2SP, XC4000DA-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)
VC 4000D-2SP	630 / 400 / 360 / 10 (24.8 / 15.7 / 14.2 / 0.4)	2-800 x 535 (2-31.5 x 21.1)	12000	2 x 24	13 (17.4)
XC 4000DA-2SP	630 / 400+190 / 360 (24.8 / 15.7+7.5 / 14.2)	2-790 x 300 (2-31.1 x 11.8)	12000	2 x 24	15/7.5 (20.1/10.1)

* 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 4000	620 / 440 / 430 (24.4 / 17.3 / 16.9)	Ø400(Ø15.7) {Ø500 x 460 (Ø19.7x18.1)}	12000 {15000}	30 {40,60}	18.5/11 (24.8/14.8)
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 5000 ^{2nd}	650 / 520 / 480 (25.6 / 20.5 / 18.9)	Ø630 (Ø24.8)	15000 {20000}	30 {40, 60, 120}	FANUC : 18.5 / 11 ¹⁾ HEIDENHAIN : 17/10 ¹⁾ SIEMENS : 16./11 ³⁾
DVF 6500	750 / 785 / 600 (29.5 / 30.9 / 23.6)	Ø650 (Ø25.6)	15000 {18000}	40 {60,90,120}	FANUC : 22 / 18.5 ¹⁾ (29.5/24.8) HEIDENHAIN : 30/24 ³⁾ (40.2/32.2)
DVF 8000	1000 / 900 / 685 (39.4 / 35.4 / 27.0)	Ø800 (Ø31.5)	15000 {18000}	40 {60, 90, 120}	FANUC : 22 / 18.5 ¹⁾ (29.5/24.8) HEIDENHAIN/SIEMENS : 30/24 ³⁾ (40.2/32.2)
DVF 8000T	1000 / 900 / 685 (39.4 / 35.4 / 27.0)	Ø800 (Ø31.5)	20000	40 {60, 90, 120}	FANUC : 22 / 18.5 ¹⁾ (29.5/24.8) HEIDENHAIN/SIEMENS : 30/24 ³⁾ (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)
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.)

Overview

Product Full Line-up

Full Line-up of Products
Turning Center
Machining Center
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EZ Work

Service

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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

VC 3600 / 430 / 510, VC 3600/30

High productivity machining center equipped with dual pallet

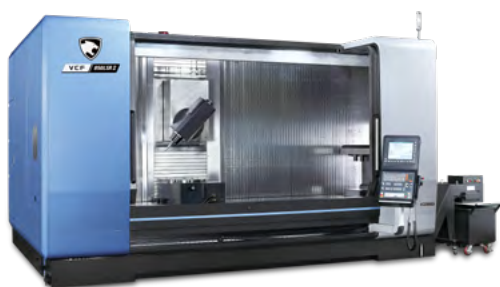


Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor * kW (Hp)
VC 3600	520 / 360 / 465 (20.5 / 14.2 / 18.3)	2-650 x 375 (2-25.6 x 14.8)	12000	20	18.5 (24.8)**
VC 3600/30	520 / 360 / 350 (20.5 / 14.2 / 13.8)	2-650 x 375 (2-25.6 x 14.8)	12000 {18000}	14 {21}	13/3.7 (17.4/5.0)
VC 430	560 / 430 / 570 (22.0 / 16.9 / 22.4)	2-712 x 477 (2-28.0 x 18.8)	10000 {12000}	30 {40}	18.5/15 (24.8/20.1)
VC 510	762 / 516 / 570 (30.0 / 20.3 / 22.4)	2-860 x 570 (2-33.9 x 22.4)	10000 {6000, 12000}	30 {40}	18.5/15 (24.8/20.1)

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

VCF 5500 / VCF 850 II

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*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 580 (220.5 x 22.8)	12000	35	18.5/11 (24.8/14.8)
VCF 5500SL	6200 / 550 / 570 (244.1 / 21.7 / 22.4)	6600 x 580 (259.8 x 22.8)	12000	35	18.5/11 (24.8/14.8)
VCF 850SR 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)
VCF 850LSR 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)

{ } : 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 560	1050 / 650 / 560 (41.3 / 25.6 / 22.0)	1600 x 560 (63.0 x 22.0)	12000	30	22/18.5 (29.5/24.8)
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	1100 / 650 / 550 (43.3 / 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* (24.8/14.8)*
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* (24.8/14.8)*
{ } : Option * S3 15%/Cont.					

Overview

Product Full Line-up

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

CUFOS

Optimal Technology

EZ Work

Service

Global Support

Network

Overseas Supplies

System

Machining Center

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

NHC 4000 / 5000

Compact Horizontal Machining Center

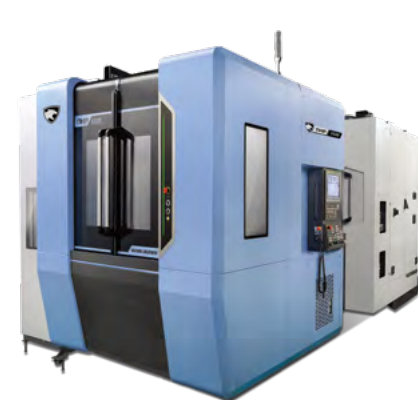


Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
NHC 4000	600 / 560 / 565 (23.6 / 22.0 / 22.2)	400 x 400 (15.7 x 15.7)	8000 {12000, 15000}	40 {60, 80, 120, 170, 262}	18.5/11 (24.8/14.7)
NHC 5000	850 / 700 / 750 (33.5 / 27.6 / 29.5)	500 x 500 (19.7 x 19.7)	8000 {12000, 15000}	40 {60, 80, 120, 170, 262}	18.5/11 (24.8/14.7)

{ } : Option * 15min/Con

NHP 4000 / 5000 / 5500 / 6300 / 8000

High-Speed, High-Productivity Horizontal Machining Center

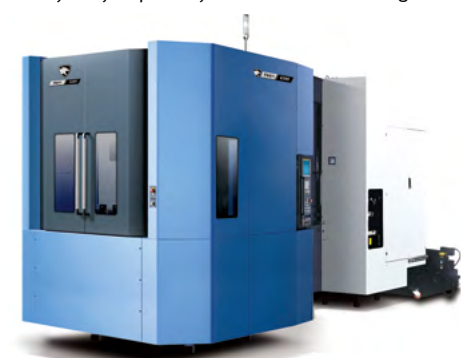


Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r / min)	Tool Storage (ea)	Motor * kW (Hp)
NHP 4000	560 / 640 / 660 (22.0 / 25.2 / 26.0)	400 x 400 (15.7 x 15.7)	15000 {15000, 20000}	40 {60, 80, 120, 171, 275}	30/18.5 {37/22, 37/18.5} (40.2/24.8 {49.6/29.5, 49.6/24.8})
NHP 5000	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	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 5500 2nd	800 / 750 / 900 (31.5 / 29.5 / 35.4)	500 x 500 (19.7 x 19.7)	10000 {8000, 15000}	40 {60, 90, 120, 150, 196, 256, 316, 376}	37/30/26 (49.6/40.2/34.9) (45/37/30/26, 37/30){60.3/49.6/40./34.9, 49.6/40.2})
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	90 (120.7)
{ } : Option					

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

- CUFOS
- Optimal Technology
- EZ Work
- 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 1530M	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 2035M	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 2035U	3500 / 2050 / 800 (137.8 / 80.7 / 31.5)	±110 / ±220	3500 x 1600 (137.8 x 63.0)	15000	60	45.9/34 (61.6/45.6)
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 2740U	4000 / 2500 / 800 (157.5 / 98.4 / 31.5)	±110 / ±220	4000 x 2500 (157.5 x 98.4)	15000 {30000}	60	45.9 / 34 (61.6 / 45.6) {90 / 78.3}{120.7 / 105.0}

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

DBM / DCM II series

Customized Double Column Machining Center



Machine	X/Y / Z(U)/W(U) Travelmm (inch)	B/C Swivel Angle (deg)	Table Size mm (inch)	Spindle Speed (r / min)	Effective width between column_mm (inch)	Motor* kW (Hp)
DBM 1525s	2800/1350/750/-	-	2800 x 1250	12000	1550	25**
DBM 2030 (U)	3250/2500/800 (128.0/98.4/31.5)	(±110 / ±220)	1500 x 3000 (59.1 x 118.1)	6000 {8000} (15000{30000})	2000 (78.7)	55/37** (73.8/49.6) (34 (45.6))**
DBM 2040 (U)	4250 / 2500 / 1100(800) (167.3 / 98.4 / 43.3(31.5))	(±110 / ±220)	1500 x 4000 (59.1 x 157.5)	6000 {8000} (15000{30000})	2000 (78.7)	55/37** (73.8/49.6) (34 (45.6))**
DBM 2540 (U)	4250 / 3000 / 1100(800) / - (167.3 / 118.1 / 43.3(31.5) / -)	(±110 / ±220)	2000 x 4000 (78.7 x 157.5)	6000 {8000} (15000{30000})	2500 (98.4)	55/37** (73.8/49.6) (34 (45.6))**
DBM 2550 (U)	5250 / 3000 / 1100(800) / - (206.7 / 118.1 / 43.3(31.5) / -)	(±110 / ±220)	2000 x 5000 (78.7 x 196.9)	6000 {8000} (15000{30000})	2500 (98.4)	55/37** (73.8/49.6) (34 (45.6))**
DBM 3050 (U)	5250 / 3500 / 1100(800) (206.7 / 137.8 / 43.3(31.5))	(±110 / ±220)	2500 x 5000 (98.4 x 196.9)	6000 {8000} (15000{30000})	3000 (118.1)	55/37** (73.8/49.6) (34 (45.6))**
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 (U)	4250 / 3200 / 700(1000) / 1100 (167.3 / 126.0 / 27.6(39.4) / 43.3)	(±110 / ±220)	2200 x 4100 (86.6 x 161.4)	6000 {4000, 12000} (15000{30000})	2700 (106.3)	25/22 (33.5/29.5) (34 (45.6))**
DCM 2750F II (U)	5250 / 3200 / 700(1000) / 1100 (206.7 / 126.0 / 27.6(39.4) / 43.3)	(±110 / ±220)	2200 x 5100 (86.6 x 200.8)	6000 { 4000, 12000} (15000{30000})	2700 (106.3)	25/22 (33.5/29.5) (34 (45.6))**
DCM 2760F II (U)	6250 / 3200 / 700(1000) / 1100 (246.1 126.0 / 27.6(39.4) / 43.3)	(±110 / ±220)	2200 x 6100 (86.6 x 240.2)	6000 { 4000, 12000} (15000{30000})	2700 (106.3)	25/22 (33.5/29.5) (34 (45.6))**
DCM 2780F II (U)	8250 / 3200 / 700(1000) / 1100 (324.8 / 126.0 / 27.6(39.4) / 43.3)	(±110 / ±220)	2200 x 8100 (86.6 x 318.9)	6000 { 4000, 12000} (15000{30000})	2700 (106.3)	25/22 (33.5/29.5) (34 (45.6))**
DCM 3250F II (U)	5250 / 3700 / 700(1000) / 1100 (206.7 / 145.7 / 27.6(39.4) / 43.3)	(±110 / ±220)	2700 x 5100 (106.3 x 200.8)	6000 { 4000, 12000} (15000{30000})	3200 (126.0)	25/22 (33.5/29.5) (34 (45.6))**
DCM 3260F II (U)	6250 / 3700 / 700(1000) / 1100 (246.1 / 145.7 / 27.6(39.4) / 43.3)	(±110 / ±220)	2700 x 6100 (106.3 x 240.2)	6000 { 4000, 12000} (15000{30000})	3200 (126.0)	25/22 (33.5/29.5) (34 (45.6))**
DCM 3280F II (U)	8250 / 3700 / 700(1000) / 1100 (324.8 / 145.7 / 27.6(39.4) / 43.3)	(±110 / ±220)	2700 x 8100 (106.3 x 318.9)	6000 { 4000, 12000} (15000{30000})	3200 (126.0)	25/22 (33.5/29.5) (34 (45.6))**
DCM 3780F II (U)	8250 / 4200 / 1000 / 1100(1400) (324.8 / 165.4 / 39.4 / 43.3(55.1))	(±110 / ±220)	3200 x 8100 (126.0 x 318.9)	6000 { 4000, 12000} (15000{30000})	3700 (145.7)	25/22 (33.5/29.5) (34 (45.6))**
DCM 37100F II (U)	10250 / 4200 / 1000 / 1100(1400) (403.5 / 165.4 / 39.4 / 43.3(55.1))	(±110 / ±220)	3200 x 10100 (126.0 x 397.6)	6000 { 4000, 12000} (15000{30000})	3700 (145.7)	25/22 (33.5/29.5) (34 (45.6))**
DCM 4280F II (U)	8250 / 5000 / 1000 / 1100(1400) (324.8 / 196.9 / 39.4 / 43.3(55.1))	(±110 / ±220)	3500 x 8100 (137.8 x 318.8)	6000 { 4000, 12000} (15000{30000})	4200 (165.4)	25/22 (33.5/29.5) (34 (45.6))**
DCM 3150/3160/3180 H	5250 {6250, 8250} / 3700 / 800 / 1200 (204.7{246.1, 324.8} / 145.7 / 31.5 / 47.2)	-	2500 x {6000, 8000} (98.4 x {236.2, 315.0})	6000 {4000, 12000}	3200 (126.0)	37 (49.6) **

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

Boring Machine

Horizontal Boring Machine / Duplex Spindle Horizontal Boring Machine

DBC 110 / 130 / 160

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)	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)

{ } : 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)

{ } : Option * 30min/Cont.

CUFOS

Customized User-friendly Flexible Operation Solutions

CUFOS is a PC based control system created by DN Solutions. 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 DN Solutions, 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. DN Solutions has developed a high-speed, constant-pressure spindle optimized for high speed machining by introducing coil switching technology that can control and optimize power distribution on a structure with minimized vibration.



Smart Monitoring Technology

DN Solutions 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. DN Solutions 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 al 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

DN Solutions 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

DN Solutions 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

CUFOS

Optimal Technology

EZ Work

Service

Global Support

Network

Overseas Supplies

System

EZ Work

EZ Work 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

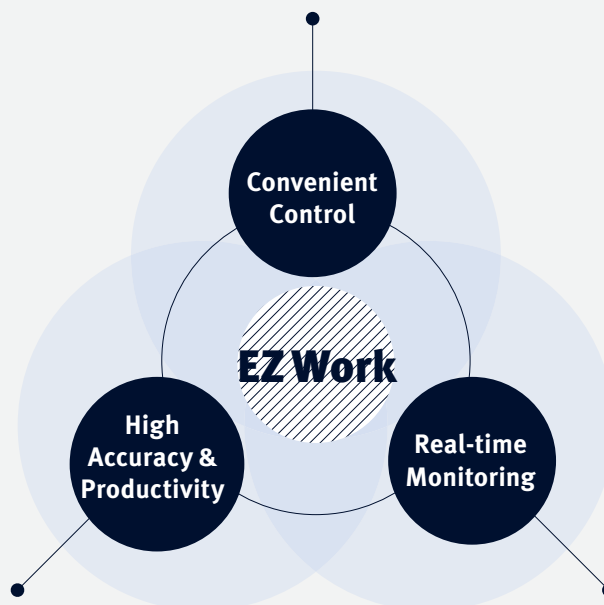
- CALCULATOR
- PATTERN CYCLE FOR DCM
- ENGRAVING
- WORK OFFSET SETTING
- G-CODE LIST
- M-CODE LIST

Operation control

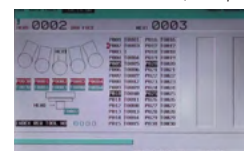
- MACHINE MOVING FOR SETUP
- ATC / APC / AAC SETTING SCREEN
- RENISHAW GUI
- APC SETTING SCREEN
- MATRIX
- MULTI PALLET MAGAZINE (PMG)
- MULTI PALLET STATION(MPS)
- 5APC
- TAIL STOCK THRUST SETTING
- PMC SOFT PANEL SWITCH
- Q-SETTER GUIDE (DEVELOPING)
- MULTI FACE SUPPORT

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

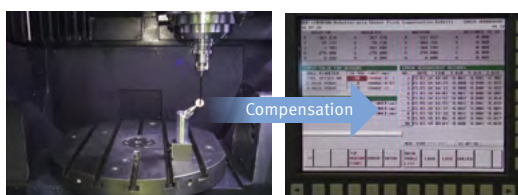
- Tool number
- Tool name
- Tool size, status
- Manage broken or warning tool
- Switch tool
- Regist and set manual tool

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 (DN Solutions 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'
02:19AFC '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 DN Solutions 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

DN Solutions' Global Network, Responding to Customer's Needs nearby, Anytime, Anywhere

DN Solutions 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 Technical Center: Sales Support, Service Support, Parts Support	Service Post	Factories
6	155	51	204	3

Overseas Supplied System

DN Solutions 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 Quafe
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
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* Specifications and information contained within this catalogue may be changed without prior notice.