DN SOLUTIONS

PRODUCT LINEUP

TURNING CENTER | MACHINING CENTER | DOUBLE COLUMN MACHINING CENTER
CNC BORING MACHINE | ADVANCED PROCESS | DN AUTOMATION SOLUTION | SOFTWARE

Total Solutions with Over 450 Products

With more than 450 products designed for various industries and customer needs DN Solutions provides complete solutions for automation machining and additive manufacturing

Through customer-focused R&D and continuous product innovation DN Solutions delivers advanced technologies and optimized solutions that set new standards in manufacturing

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FULL LINE-UP OF PRODUCTS



Horizontal turning centers



Multi-tasking turning centers



Ram type vertical turning centers



Double column machining centers



Pallet System (Linear)



DN Round Storage

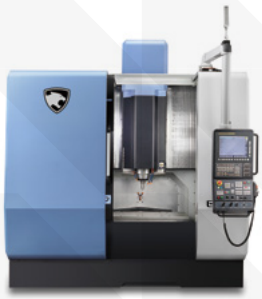




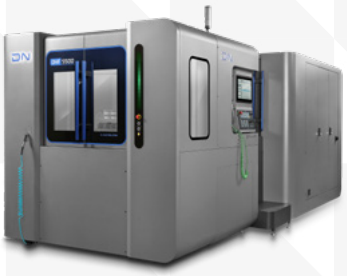
Vertical
machining centers



5-axis vertical
machining centers



Die & mold vertical
machining centers



Horizonatal
machining centers



Auto Work-Piece Changer



Vertical turning centers



Horizontal boring mills

TURNING CENTERS | ADVANCED PROCESS

Horizontal Turning Centers

Compact

LEO 1600

Lynx 2000 — G

Lynx 2100 — A B LA LB LC MA MB LMA LMB LMC LMSA LMSB LMSC LYA LYB LSYA LSYB

Lynx 2600 — STD M Y SY

Lynx 210 — A B

Multi-Axis

PUMA TT1300 — SYY SYYB
PUMA TT1800 — SY
PUMA TT2100 — SYY SYYB
PUMA TT2500 — SY

PUMA TL2000 — STD
PUMA TL2500 — L
PUMA TL4100

Aluminum Wheel Turn

PUMA VAW 800

Twin Spindle

PUMA TW2100 — STD M
PUMA TW2600 — STD M B MB

Twin Spindle with Gantry Loader

PUMA TW2100-GL — STD M
PUMA TW2600-GL — STD M B MB

Grinding machine for quartz, ceramic materials

DNC 8050 / 8060

High Performance

PUMA 2100 — MS LMS YII LYII SYII LSYII

PUMA 2600 — LM MS LMS YII LYII SYII LSYII B LB MB LMB SB MSB YBII LYBII SYBII LSYBII

PUMA 3100 — STD L XL UL M LM XLM ULM Y LY XLY ULY SY LSY XLYB ULYB

PUMA DNT2100 — STD M B MB

PUMA DNT2600 — STD L M LM

PUMA GT2600 — XLA XLMA XLB XLMB

PUMA GT3100 — STD L M LM

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 600II / 700II / 800II — STD LII XLII MII LMII XLMII LYII XLYII BII* LBII*

PUMA 1000 — A B MA MB

Multi-Tasking Turning Centers

DNX 2100 — STD B S SB

SMX 2100 — STD S ST B SB STB L LS LST

SMX 2600 — STD S ST

SMX 3100 — STD L S LS ST B/835

SMX 5100 — STD LS LB LSB L XL XLB

Vertical Turning Centers

PUMA V400 — STD M
PUMA V400P — STD
PV 6300 — STD M
PUMA V8300 — STD M
PV 9300 — STD M
PUMA VT1100 — STD M

Ram Type

PUMA VTR1012 — F FC
PUMA VTR1216 — STD M F FM FC
PUMA VTR1620 — STD M MC
PUMA VTR2025 — STD M

Advanced Process

Additive Manufacturing Solution

DLX 150 (Single Laser)
DLX 325 (Single/Dual Laser)
DLX 450 (Single/Dual/Quad Laser)

Laser Water Jet Solution

FM 600/LW

Friction Stir Welding Solution

FSW 2030
FSW 2030T
FSW 2030D
FSW 2030TD

M Milling
L Long Bed
G Gang type
T Lower Turret
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
DOUBLE COLUMN MACHINE | BORING

Machining Centers

Tapping Centers

T 4000 — STD L HP LHP HS LHS

High Productivity & Heavy Duty

DEM 4000 — STD

고속 & 고강성

DNM 4000
DNM 4500 4th — STD L
DNM 5700 4th — STD L
DNM 6700 4th — STD L
DNM 650Ⅱ — /50
DNM 750Ⅱ — STD /50 L L/50

SVM 4100
SVM 5100L

Mynx 5400Ⅱ — STD /50
Mynx 6500Ⅱ — STD /50
Mynx 7500Ⅱ — STD /50
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
DNM 6700-2SP
DNP 4000–2SP

5-axis

DVF 4000
DVF 5000 2nd
DVF 6500 — T
DVF 8000 — T T/50 /50
DVF 6500 2nd
DVF 8000 2nd
DNM 350/5AX
FM 200/5AX *linear*

Multi Purpose

VCF 850Ⅱ — SR LSR
VCF 5500 — L UL SL

Die & Mold

VM 5400 / 6500
VM 750 — STD L
VM 960 — STD L
VM 1260

MD 6700

DVM 500Ⅱ
DVM 650Ⅱ
NX 5500Ⅱ
MP 6500

Special Machining

VX 4600C (Ceremic 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 2nd
NHP 8000

Heavy Duty

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

5-axis

DHF 5500 — /50
DHF 8000 — STD ST
DHF 1250
HFP 1540

Bridge Type Machining Centers

BM 1530 — M
BM 2035 — M U
BM 2740 — STD M U

Five Face Double Column Machining Centers

DBM 1525s
DBM 2030 — STD U
DBM 2040 — STD U
DBM 2540 — STD U
DBM 2550 — STD U
DBM 3050 — STD U
DBM 3060 — STD
DBM 3080 — STD

DCM 2740FⅡ — STD U
DCM 2750FⅡ — STD U
DCM 2760FⅡ — STD U
DCM 2780FⅡ — STD U
DCM 3250FⅡ — STD U
DCM 3260FⅡ — STD U
DCM 3280FⅡ — STD U
DCM 3780FⅡ — STD U
DCM 37100FⅡ — STD U
DCM 4280F — STD U
DCM 2640H
DCM 2650H
DCM 3150H
DCM 3160H
DCM 3180H
DCM 42100F

Large-Part 2-Spindle Machining Center

DGX 1630

Horizontal Boring Mills

DBC 110 — S Ⅱ
DBC 130 — S L Ⅱ
DBC 160 — STD
DBC 250 — L Ⅱ
DBC 130 3rd — STD

Double Column Horizontal Boring Mills

DBD 1250
DBD 1270
DBD 1280

TURNING CENTER

Global Compact Turning Center | High Performance Horizontal 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	320 (12.6)	303 (11.9)	4000	7.5 / 5.5 / 5.5 (10.1 / 7.4/ 7.4) **
Lynx 2100A / LA	6/8	170 (6.7)	330 (13.0)	6000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100B / LB	6	350 (13.8)	330 / 550 (13.0 / 21.7)	6000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100LC	8	350 (13.8)	330 / 550 (13.0 / 21.7)	4500	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100MA / LMA	10	350 (13.8)	537 (21.1)	3500	18.5/18.5/15 (24.8 /24.8 / 20.1)
Lynx 2100MB / LMB	6	300 (11.8)	290 / 510 (11.4 / 20.1)	6000	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100LMC / LMSC	8	300 (11.8)	290 / 510 (11.4 / 20.1)	4500	15/15/11 (20.1 / 20.1 / 14.8)
Lynx 2100LMSA	10	300 (11.8)	497 (19.6)	3500	18.5/18.5/15 (24.8 / 24.8 / 20.1)
Lynx 2100LMSB	6	300 (11.8)	510 (20.1)	6000	15/11/11 (20.1 /14.8/14.8)
Lynx 2100LYA / LYB	8	300 (11.8)	510 (20.1)	4500	15/11/11 (20.1 /14.8/14.8)
Lynx 2100LSYA / LSYB	6/8	300 (11.8)	510 (20.1)	6000 / 4500	15/11/11 (20.1 /14.8/14.8)
Lynx 2600	6	300 (11.8)	510 (20.1)	6000 / 4500	15/11/11 (20.1 /14.8/14.8)
Lynx 2600M	10	460(18.1)	658(25.9)	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	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.*

TURNING CENTER

Global Standard Turning Center | Medium to Large Turning Center

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)	658/1078 (25.9/42.4)	3500	26/22/18.5 (34.9/29.5/24.8)
PUMA DNT2600M/LM	10{12}	380 (15.0)	610/1030 (24/40.6)	3500	26/22/18.5 (34.9/29.5/24.8)
PUMA GT2600XLA/ 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 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 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)

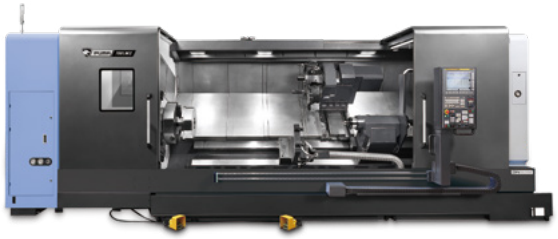
*L: Long bed M: Milling Y: Y axis Milling * 30min/Cont.*

TURNING CENTER

Large Horizontal Turning Center | Horizontal Multi turret Turning Center

PUMA 600Ⅱ / 700Ⅱ / 800Ⅱ

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



Machine	Chuck mm (inch)	Max. TurningDia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA 600Ⅱ / MⅡ	18	900 (35.4)	1600 (63.0)	1800	55/45/37 (73.8 /60.4/49.7)
PUMA 600LⅡ/ LMⅡ	18	900 (35.4)	3200 (126.0)	1800	55/45/37 (73.8 /60.4/49.7)
PUMA 600XLⅡ / XLMⅡ	18	900 (35.4)	5050 (198.8)	1800	55/45/37 (73.8 /60.4/49.7)
PUMA 700Ⅱ / MⅡ	24	900 (35.4)	1600 (63.0)	1500	55/45/37 (73.8 /60.4/49.7)
PUMA 700LⅡ / LMⅡ	24	900 (35.4)	3200 (126.0)	1500	55/45/37 (73.8 /60.4/49.7)
PUMA 700XLⅡ/ XLMⅡ	24	900 (35.4)	5050 (198.8)	1500	55/45/37 (73.8 /60.4/49.7)
PUMA 800Ⅱ / MⅡ	32	900 (35.4)	1600 (63.0)	750	55/45/37 (73.8 /60.4/49.7)
PUMA 800BⅡ / LBⅡ	-	900 (35.4)	1600 (63.0)/ 3200 (126.0)	500	55/45/37** (73.8 /60.4/49.7)
PUMA 800LⅡ / LMⅡ	32	900 (35.4)	3200 (126.0)	750	55/45/37 (73.8 /60.4/49.7)
PUMA 800XLⅡ / XLMⅡ	32	900 (35.4)	5050 (198.8)	750	55/45/37 (73.8 /60.4/49.7)
PUMA 600LYⅡ / XLYⅡ	18	750 (29.5)	3250/5050 (128.0/198.8)	1800	55/45/37 (73.8 /60.4/49.7)
PUMA 700LYⅡ / XLYⅡ	24	750 (29.5)	3250/5050 (128.0/198.8)	1500	55/45/37 (73.8 /60.4/49.7)
PUMA 800LYⅡ / XLYⅡ	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 up to 560mm spindle bore

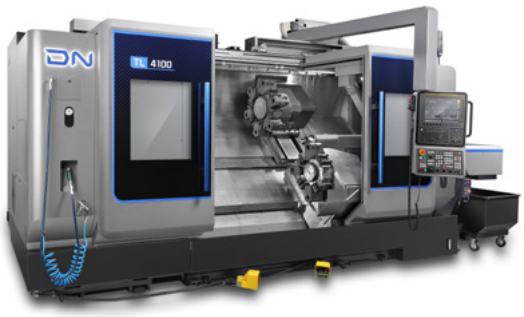


Machine	Chuck mm (inch)	Max. TurningDia. mm (inch)	Max. Turning Length mm (inch)	Spindle Speed (r/min)	Motor * kW (Hp)
PUMA 1000A	-	1000 (39.4)	2040 (80.3)	500	75/60 (100/80)
PUMA 1000B	-	1000 (39.4)	2040 (80.3)	300	75/60 (100/80)
PUMA 1000MA	-	1000 (39.4)	2040 (80.3)	500	75/60 (100/80)
PUMA 1000MB	-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

** 30min/Cont.*

PUMA TT1300 / 1800 / 2100 / 2500
PUMA TL2000 / 2500 / 4100

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 TT1300SYYB	(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 TT2100SYY	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 TT2100SYYB	(Left)10/ (Right)8	230 (9.1)	230 (9.1)	3500(L) 5000(R)	22/18.52) (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 TL2500L	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 TL4100	12	U: 480 (18.9) L: 360 (14.2)	1555 (61.2)	2800	37/30 (49.6/40.2)

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.*

TURNING CENTER

Twin Spindle Turning Center | Twin Spindle Turning Center with Gantry Loader | Aluminum Wheel Turns

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

PUMA VAW800

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.*

TURNING CENTER

DN Multi axis Turning center | Multi-Tasking Turning center | Ceramic & quartz grinding machine

DNX series

DN Multi axis Turning center

reddot winner 2025



Machine	Chuck (inch)	Max. Machining Dia. mm (inch)	Max. Machining Length mm (inch)	Max. Spindle Speed (r/min)	Spindle Motor kW (Hp)
DNX 2100/S	8	410 (16.1)	1100 (43.3)	5000	18.5 (24.8)
DNX 2100B/SB	10	410 (16.1)	1100 (43.3)	4000	22 (29.5)

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)
SMX 2600/S/ST	10	660 (26.0)	1540 (60.6)	4000 / 12000	30/26/22 (40.2/34.9/29.5)
SMX 3100/S/ST	12	660 (26.0)	1540 (60.6)	3000 / 12000	30/25 (40.2/33.5)
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 5100	15	830 (32.7)	2050 (80.7)	2400	37/30 (49.6/40.2)
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.*

DNC 8050 / 8060

Ceramic & quartz grinding machine



Machine	Chuck (inch)	Max. Turning Dia. mm (inch)	Max. distance between chuck and grinding spindle mm (inch)	Max. Spindle Speed (r/min)	Spindle Motor * kW (Hp)
DNC 8050	12~20	810 (31.9)	510 (20.1)	500	18.5/15 (24.8/20.1)
DNC 8060	12~20	810 (31.9)	610 (24.0)	500	18.5/15 (24.8/20.1)

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

TURNING CENTER

High Productivity·Performance Vertical Turning Center | Large Vertical Turning Center with RAM Head Spindle

PUMA V400 / PV 6300 / PUMA V8300 / PV 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)
PUMA V400	12	496 (19.5)	461 (18.1)	3000	22/18.5 (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)
PV 6300/M	15	630 (24.8)	600 (23.6)	2000	30/22 (40.2/29.5)
PUMA V8300	15	830 (32.7)	750 (29.5)	2000	37/30 ** (49.6/40.2)
PUMA V8300M	15	830 (32.7)	750 (29.5)	2000	37/30 *(49.6/40.2)
PV 9300/M	24	930 (36.6)	801 (31.5)	1800	45/37 (60.3/49.6)

*M: Milling * 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)	Max. Spindle Speed (r/min)	Spindle 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.*

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)	Max. Spindle Speed (r/min)	Spindle 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 VTR1620MC	2000 (78.7)	1700 (66.9)	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.*

ADVANCED PROCESS

Additive Manufacturing Solution | Laser Water Jet Solution | High-Quality, Friction Stir Welding Solution

DLX 150 / 325 / 450

High-performance Laser Additive Manufacturing Machine

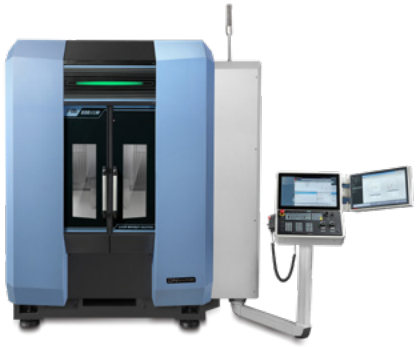


Machine	Build Volume (mm (inch))	Laser Thickness (um)	Build Rate (cm³/h (inch³/min))
DLX 150	150 x 195 (5.9 x 7.7) (ØxH)	20-90	20(1.2) and above
DLX 325	325 x 325 x 420 (12.8 x 12.8 x 16.5) (X/Y/Z)	30-90	20(1.2) and above
DLX 450	450 x 450 x 470 (17.7 x 17.7 x 18.5) (X/Y/Z)	30-90	20(1.2) and above

Machine	Laser Configuration	Laser Power (W)	Optical Configuration
DLX 150	Single	500/1000	2 axis
DLX 325	Single, Dual	500/1000	3 axis
DLX 450	Single, Dual, Quad	500/1000 (Single/Dual), 500 (Quad)	3 axis

FM 600/LW

Laser Water Jet Solution



Machine	Working Area (mm (inch))	Workpiece load (kg (lb))	Rapid Traverse (m/min (ipm))
FM 600/LW	600 x 600 x 350 (23.6 x 23.6 x 13.8) (X/Y/Z)	600 (1322.8)	60/60/60 (2362.2/2362.2/2362.2) (X/Y/Z)

Machine	Wavelength (mm (inch))	Laser Power (W)	Water Pressure (Bar)
FM 600/LW	532 (20.9)	150 (@10kHz)	~600

FSW 2030 / 2030T / 2030D / 2030TD

High-Quality, High-Speed Friction Stir Welding Solution



Machine	X / Y / Z Travel mm (inch)	B/C Swivel angle (deg)	Table Size mm (inch)	Spindle Speed (r/min)	Max Force (kN)	Spindle torque N·m (ft-lbs)
FSW 2030	3350 / 2000 / 550 (131.9 / 78.7 / 21.7)	-	2000 x 3000 (78.7 x 118.1)	3500	20	286 (211.1)
FSW 2030T	3350 / 2000 / 550 (131.9 / 78.7 / 21.7)	0~5 / ± 720	2000 x 3000 (78.7 x 118.1)	3500	20	181 (133.6)
FSW 2030D	8090 / 2000 / 550 (318.5 / 78.7 / 21.7)	-	2000 x 3000 (78.7 x 118.1) (2ea)	3500	20	286 (211.1)
FSW 2030TD	8090 / 2000 / 550 (318.5 / 78.7 / 21.7)	0~5 / ± 720	2000 x 3000 (78.7 x 118.1) (2ea)	3500	20	181 (133.6)

MACHINING CENTER

Tapping Center | Compact Vertical Machining Center | Global Standard 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 (33.5x 15.7)}	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 (33.5x 15.7)	24000	21	11/2.2 (14.8/3.0)

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

DEM 4000

Compact Vertical Machining Center



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 * S3 25%/Cont.*

DNM 4000 / 4500 / 5700 / 6700
DNM 650/50Ⅱ
DNM 750/50Ⅱ, 750L/50Ⅱ
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	18.5/11
SVM 4100	770 / 410 / 510 (30.3 / 17.7 / 20.1)	920 x 410 (36.2 x16.1)	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 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 (24.8/7.4) {8k(high toque): 15/11 (20.1/14.8)** 12k: 18.5/11 (24.8/7.4) 15k: 18.5/11 (24.8/7.4)}
DNM 4500L 4th	910/450/510 (35.8 / 17.7 / 20.1)	1050 x 450 (41.3 x 17.7)	8000 {8000*****, 12000, 15000}	30 {40} / 60:SQ	
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	
DNM 5700L4th	1300/570/510 (51.2 / 22.4 / 20.1)	1500 x 570 (59.1 x 22.4)	8000 {8000*****, 12000, 15000}	30 {40} / 60:SQ	
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	18.5/15 (24.8/20.1)** {8k(high toque): 15/11 (20.1/14.8)** 12k: 18.5/11 (24.8/7.4) 15k: 18.5/11 (24.8/7.4)}
DNM 6700L4th	1500 / 670 / 625 (59.1 / 26.4 / 24.6)	1600 x 670 (63.0 x 26.4)	8000 {8000*****, 12000, 15000}	30 {40} / 60:SQ	
DNM 6700XL	2100 / 670 / 625 (82.7 / 26.4 / 24.6)	2200 x 670 (86.6 X 26.4)	8000 {8000*****, 12000}	30 {40, 60}	18.5/15 (24.8/20.1)** {8k(high toque): 15/11 (20.1/14.8)** 12k: 18.5/11 (24.8/7.4)
DNM 750Ⅱ	1630 / 762 / 650 (54. 2 / 30.0 / 25.6)	1630 x 760 (64.2 x 29.9)	8000 {12000}	30 {40} / 60:SQ	18.5/15 (24.8/20.1)**** {12k: 28/11 (37.5/14.8) ** 12k: 15.6/15.6 (20.9/20.9) ***}
DNM 750LⅡ	2160 / 762 / 650 (85.0 / 30.0 / 25.6)	2160 x 760 (85.0 x 29.9)	8000 {12000}	30 {40} / 60:SQ	
DNM 750/50Ⅱ	1630 / 762 / 650 (54. 2 / 30.0 / 25.6)	1630 x 760 (64.2 x 29.9)	8000 {10000}	24 {30}	22/11 (29.5/14.8)** {26/22 (34.9/29.5) ***}
DNM 750L/50Ⅱ	2160 / 762 / 650 (85.0 / 30.0 / 25.6)	2160 x 760 (85.0 x 29.9)	8000 {10000}	24 {30}	
DNM 650/50Ⅱ	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1300 x 670 (51.2 x 26.4)	8000 {10000}	24 {30}	

*{ }: Option * S3 15%/Cont. ** S3 25%/Cont. *** S3 40%/Cont. **** S3 60%/Cont. ***** 8000 r/min High torque version*

MACHINING CENTER

Heavy Duty Vertical Machining Center | 5 Axis Vertical Machining Center |
High Speed·High Precision Premium Vertical Machining Center | 2 spindle Vertical Machining Center

Mynx 5400Ⅱ / 6500Ⅱ / 7500Ⅱ / 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 5400Ⅱ	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)** {15.6/15.6 (20.9/20.9) ***}
Mynx 5400/50Ⅱ	1020 / 550 / 530 (40.2 / 21.7 / 20.9)	1200 x 540 (47.2 x 21.3)	6000 {6000#, 6000##, 8000}	24	15/11 (20.1/14.8) 6k(high toque): 18.5/15 (24.8/20.1)**** 6k(gear type): 30/18.5 (40.2/24.8)** 8k: 15/11 (20.1/14.8)}
Mynx 6500Ⅱ	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)** {15.6/15.6 (20.9/20.9) ***}
Mynx 6500/50Ⅱ	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400 x 670 (55.1 x 26.4)	6000 {6000#, 6000##, 8000}	24 {30}	15/11 {6k(high toque): 18.5/15 (24.8/20.1)**** 6k(gear type): 30/18.5(40.2/24.8)** 8k: 15/11 (20.1/14.8)}
Mynx 7500Ⅱ	1525 / 770 / 625 (60.0 / 30.3 / 24.6)	1600 x 750 (63.0 x 29.5)	8000 {12000}	30 {40}	15/11 (20.1/14.8)** {15.6/15.6 (20.9/20.9) ***}
Mynx 7500/50Ⅱ	1525 / 770/ 625 (60.0 / 30.3 / 24.6)	1600 x 750 (63.0 x 29.5)	6000 {6000#, 6000##, 8000}	24 {30}	18.5/15 (24.8/20.1)**** {6k(high toque): 22/18.5 (29.5/24.8)**** 6k(gear type): 30/18.5** 8k: 15/11 (20.1/14.8)}
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)** {30/25 (40.2/33.5) *****}

*{ } : Option * S3 15%/Cont, S3 60%/Cont. ** S3 25%/Cont. *** S3 40%/Cont. **** S3 60%/Cont. ***** 30min/Cont. #High toque ## Gear type*

5 axis

5 Axis Vertical Machining Center

reddot winner 2025



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)	12000 {15000}	30 {40, 60, 120}	18.5/11 (24.8/14.8)*
DVF 5000 2nd	650 / 520 / 480 (25.6 / 20.5 / 18.9)	Ø630 (Ø24.8)	15000 {15000#, 20000}	30 {40, 60, 120}	FANUC : 18.5/11 *** {30/18.5***, 37/18.5**} HEIDENHAIN : 17/10 {30/18.5***, 30/24*****} SIEMENS : 16.5/11***** {30/18.5***, 30/24*****}
DVF 6500 2nd	750 / 785 / 600 (29.5 / 30.9 / 23.6)	Ø650 (Ø25.6)	15000 {20000}	40 {60, 90, 120}	FANUC : 45/25 {37/18.5} HEIDENHAIN/SIEMENS : 45/25*** {30/24*****}
DVF 8000 2nd	1000 / 900 / 685 (39.4 /35.4 / 27.0)	Ø800 (Ø31.5)	15000 {20000}	40 {60, 120}	FANUC : 45/25 {37/18.5} HEIDENHAIN/SIEMENS : 45/25*** {30/24*****}
DVF 6500T	750 / 785 / 600 (29.5 / 30.9 / 23.6)	Ø650 (Ø25.6)	18000	60 {120}	FANUC : 22/18.5 HEIDENHAIN/SIEMENS : 30/24***** HEIDENHAIN(for SKIVING) : 47.2/31.5
DVF 8000/50	1000 / 900 / 800 (39.4 /35.4 / 31.5)	Ø800 (Ø31.5)	10000	40 {60}	FANUC : 35/25 HEIDENHAIN/SIEMENS : 37/25
DVF 8000T	1000 / 900 / 685 (39.4 /35.4 / 27.0)	Ø800 (Ø31.5)	18000	60 {120}	FANUC : 22/18.5 HEIDENHAIN/SIEMENS : 30/24***** HEIDENHAIN(for SKIVING) : 47.2/31.5
DVF 8000T/50	1000 / 900 / 800 (39.4 /35.4 / 31.5)	Ø800 (Ø31.5)	10000	40 {60}	FANUC : 35/25 HEIDENHAIN/SIEMENS : 37/25
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	14.5/10 (19.4/13.4)

*{ } : Option *S3 15%/Cont. **S6 10%//Cont. ***S6 15%/Cont. ****S6 25%/Cont. *****S6 40%/Cont. #Built in type*

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 {20000}	30 {40}	37/18.5 (49.6/24.8) {22/11 (29.5/14.8)**}

*{ }: Option *S3 15%/Cont. **10min 15%/Cont.*

VC 4000D-2SP, XC4000DA-2SP
DNM 6000-2SP, DNP 4000-2SP

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)
DNM 6700-2SP	1300 / 670 / 625 (51.2 / 26.4 / 24.6)	1500 x 670 (59.1 x 26.4)	12000	2 x 30	18.5/11 (24.8/14.8)
DNP 4000-2SP	520 / 400 / 350 (20.5 / 15.7 / 13.8)	1040 x 400 (40.9 x 15.7)	24000	2 x 24	5.5/3.7 (7.4/5.0)

** S3 15%/ Cont.*

MACHINING CENTER

High productivity machining center equipped with dual pallet | Multi Purpose Vertical Machining Center | Vertical Machining Center for Die & Mold Machining Center | Large·High-Speed·High-Precision Machining Center

VC 3600 / 430 / 510, VC 3600/30

High productivity machining center equipped with dual pallet

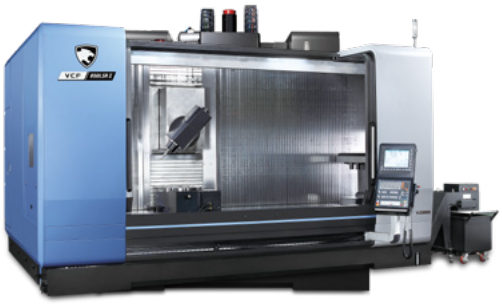


Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor * kW (Hp)
VC 3600	520 / 360 / 465 (20.5 / 14.2 / 18.3)	2-650 x 375 (2-25.6 x 14.8)	12000	20	18.5 (24.8)**
VC 3600/30	520 / 360 / 350 (20.5 / 14.2 / 13.8)	2-650 x 375 (2-25.6 x 14.8)	12000 {18000}	14 {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 850Ⅱ

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 850SRⅡ	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 850LSRⅡ	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

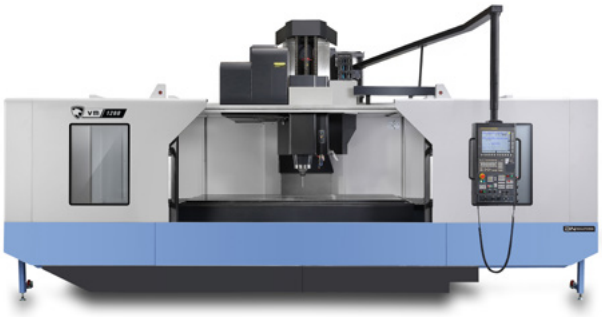


Machine	X / Y / Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor * kW (Hp)
VM 5400	1020 / 540 / 530 (40.2 / 21.3 / 20.9)	1200 x 540 (47.2 x 21.3)	12000	30 { 40 }	15.6 / 15.6 (20.9 / 20.9)
VM 6500	1270 / 670 / 625 (50.0 / 26.4 / 24.6)	1400 x 670 (55.1 x 26.4)	12000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

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

VM 750 / 960 / 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.*

MACHINING CENTER

New Generation Die & Mold Machining Center | High Precision Die & Mold Vertical Machining Center | High-Precision·High-Speed Vertical Machining Center | High-Precision Special Machining Center

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 500Ⅱ / 650Ⅱ

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 500Ⅱ	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 650Ⅱ	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 5500Ⅱ / 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 5500Ⅱ	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 4600C / 6500C / 6500G

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 4600C	600 / 460 / 460 (23.6 / 18.1 / 18.1)	800 x 460 (31.5 x 18.1)	15000 {20000}	30	37/18.5 (49.6/24.8) {22/11 (29.5/14.8)}
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) {22/11 (29.5/14.8)**}
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) {22/11 (29.5/14.8), 18.5/13 (24.8/17.4), 5.5/3.7 (7.4/5.0)}

*{ }: Option * S3 15%/Cont . ** 10min 15%/Cont .*

MACHINING CENTER

Compact Horizontal Machining Center | High Speed·High Performance Horizontal Machining Center | Heavy duty Capability Horizontal Machining Center

NHC 4000 / 5000

Compact Horizontal Machining Center

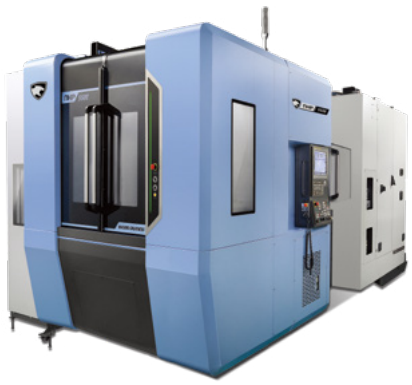


Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor * kW (Hp)
NHC 4000	600 / 560 / 565 (23.6 / 22.0 / 22.2)	400 x 400 (15.7 x 15.7)	8000 {12000, 15000}	40 {60, 80, 120, 170, 262}	18.5/11 (24.8/14.7)
NHC 5000	850 / 700 / 750 (33.5 / 27.6 / 29.5)	500 x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

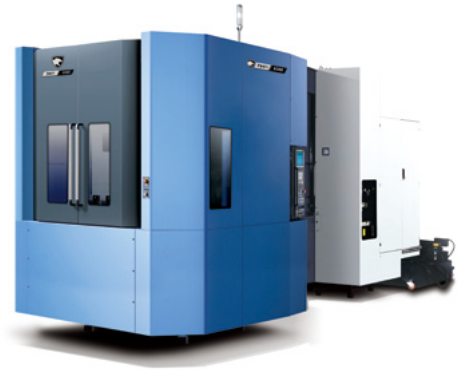


Machine	X / Y / Z Travel mm (inch)	Pallet Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor * kW (Hp)
NHP 4000	560 / 640 / 660 (22.0 / 25.2 / 26.0)	400 x 400 (15.7 x 15.7)	15000 {15000, 20000}	40 {60, 80, 120, 171, 275}	30/18.5 {37/22, 37/18.5} (40.2/24.8 { 49.6/29.5, 49.6/24.8 })
NHP 5000	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 2nd	800 / 750 / 900 (31.5 / 29.5 / 35.4)	500 x 500 (19.7 x 19.7)	10000 {8000, 10000, 15000}	40 {60, 90, 120, 150, 196, 256, 316}	37/30/26** (49.6/40.2/34.9) {55/30*,45/37/ 30/26***,37/30*}
NHP 6300 2nd	1050 / 900 / 1000 (41.3 / 35.4 / 39.4)	630 x 630 (24.8 x 24.8)	10000 {6000, 6000HT, 15000}	40 {60, 90, 120, 150, 196, 256, 316}	45/25 (60.3/(33.5) {37/22,55/30,37/30 (49.6/29.5, 73.8/40.2, 49.6/40.2)}
NHP 8000	1400 / 1200 / 1370 (55.1 / 47.2 / 53.9)	800 x 800 (31.5 x 31.5)	10000 {6000, 6000HT, 15000}	40 {60, 90, 120, 150, 196, 256, 316}	45/25 (60.3/(33.5) {37/22,55/30,37/30 (49.6/29.5, 73.8/40.2, 49.6/40.2)}

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

MACHINING CENTER

Large Horizontal Machining Center | 5 axis Horizontal Machining Center

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 5500 / 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 5500	900 / 950 / 950 (35.4 / 37.4 / 37.4)	630 x 630 (24.8 x 24.8)	15000 {20000, 30000}	61 {121, 171, 196, 275}	24/30 (32.2/40.2)
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



DOUBLE COLUMN MACHINING CENTER

High Speed·Customized 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 x1600 (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 / DCMⅡ series

Customized Double Column Machining Center



Machine	X/ Y /Z(U)/W(U) Travel mm (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 2740FⅡ (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 2750FⅡ (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 2760FⅡ (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 2780FⅡ (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 3250FⅡ (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 3260FⅡ (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 3280FⅡ (U)	8250 / 3700 / 700(1000) / 1100 (624.8 / 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 3780FⅡ (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 37100FⅡ (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 4280FⅡ (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 2640/2650H	4250 {5250} / 3200 / 800 / 1200 (167.3 {206.7} / 126.0 / 31.5 / 47.2)	-	2000 x 4000 {5000} (78.7 x 157.5 {196.9})	6000 {4000, 12000}	2650 (104.3)	55/37** (73.8/49.6)
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 5000 {6000, 8000} (98.4 x 196.9 {236.2, 315.0})	6000 {4000,12000}	3150 (124.0)	55/37** (73.8/49.6)
DCM 42100F	10250 / 5000 / 1000 / 1100(1400) (403.5 / 196.9 / 39.4 / 43.3 / 43.3(55.1))	(±110 /± 220)	3500 x 10100 (137.8 x 397.6)	6000 {4000, 12000} (15000{30000})	4200 (165.4)	25/22 (33.5/29.5) (34 (45.6))**

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

CNC BORING MACHINE

Horizontal Boring Machine | Duplex Spindle Horizontal Boring Machine | Large-Part 2-Spindle Machining Center

DBC 110 / 130 / 160 / 250

Horizontal Boring Machine

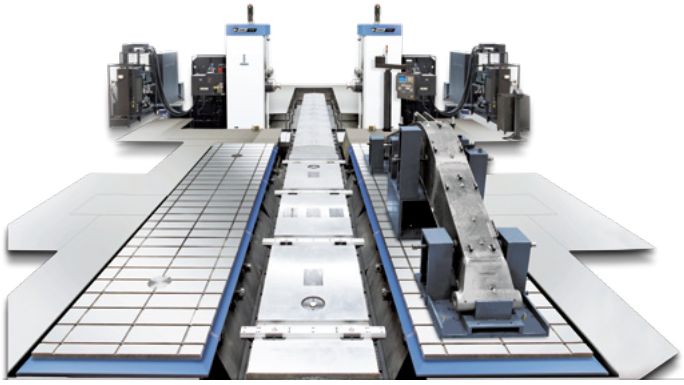


Machine	X / Y / Z / W Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor* kW (Hp)
DBC 110S	2000 / 1500 / 1200 / 500 (78.7 / 59.1 / 47.2 / 19.7)	1400 x 1600 (55.1 x 63.0)	3000	40 {60, 90, 120}	26/22 (34.9/29.5)
DBC 130S	2000 / 1500 / 1200 / 600 (78.7 / 59.1 / 47.2 / 23.6)	1400 x 1600 (55.1 x 63.0)	2500	40 {60, 90, 120}	37/30 (49.6/40.2)
DBC 110II	2500 / 2000 / 1500 / 550 (98.4 / 78.7 / 59.1 / 21.7)	1400 x 1800 (55.1 x 70.9)	4000	40 {60, 90, 120}	26/22 (34.9/29.5)
DBC 130 3rd	3000 / 2000 / 1600 / 700 (118.1 / 78.7 / 63.0 / 27.6)	1600 x 1800 (63.0 x 70.9)	2500	40 {60, 90, 120}	45/37 (60.4/49.7)
DBC 130LII	4000 / 2500 / 2000 / 700 (157.5 / 98.4 / 78.7 / 27.6)	1600 x 1800 (63.0 x 70.9)	2500	40 {60, 90, 120}	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, 120}	45/37 (60.4/49.7)
DBC 250	4000 / 2500 / 2000 / 500 (157.5 / 98.4 / 78.7 / 19.7)	1600 x 1800 (63.0 x 70.9)	6000	40 {60, 90, 120}	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)

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

DGX 1630

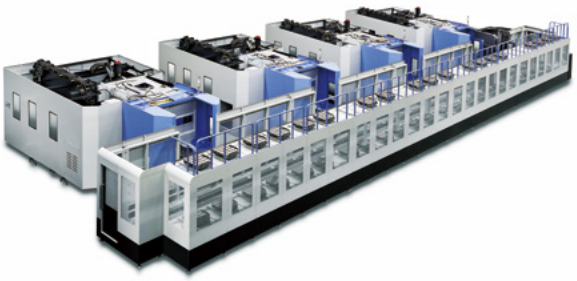
Large-Part 2-Spindle Machining Center



Machine	X/Y/Z Travel mm (inch)	Table Size mm (inch)	Spindle Speed (r/min)	Tool Storage (ea)	Motor* kW (Hp)
DGX 1630	3040 / 880 / 1250 (119.7/ 34.6 / 49.2)	Ø400 (Ø15.7)	20000	80 (40+40)	48 (64.4)

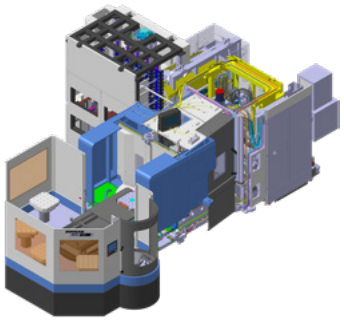
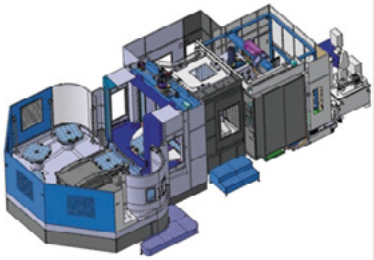
PALLET AUTOMATION SYSTEM

Pallet System (Linear)

Type	Pallet System (Linear) 4000 / 5000	Pallet System (Linear) 5500 / 6300 / 8000
Features	- Optimized Slim design - Optimized AGV of Single Mast & Single Fork Structure - Easy installation - Flexible expansion - Easily expandable with additional Machines, Racks, and Setup Stations	- Ready to expansion for machine, washing station, setup station, pallet - Full Line-up for all HMC - Flexible expansion - Easily expandable with additional Machines, Racks, and Setup Stations
Available Model	NHP 4000 / HC 400 II NHP 5000 / HC 500 II DVF 6500 w/APC	NHM 5000 / NHP 5500 NHM 6300 / NHP 6300 NHM 8000 / NHP 8000 / DHF 8000 DVF 8000 w/APC / DVF 8000T w/APC NHM 8000 / NHP 8000 / DHF8000
Workpiece Size	NHP 4000: Ø630 x 900h x 400kg NHC 4000: Ø600 x 800h x 400kg NHP 5000: Ø800 x 1000h x 500kg(700kg) NHC 5000: Ø800 x 900h x 500kg DVF 6500: Ø630 x 430h x 500kg	NHM 5000 / NHP 5500 / NHP 5500 2nd : Ø850 x 1100h x 800kg NHM 6300 / NHP 6300 / NHP 6300 2nd : Ø1050 x 1350h x 1200kg DVF 8000 / DVF 8000T: Ø960 x 490h x 850kg DHF 8000: Ø1400 x 1400h x 2000kg NHM 8000 / NHP 8000: Ø1450 x 1550h x 2000kg
Number of Machine	1~7 (AUX. +1)	1~7 (AUX. +1)
Number of Setup Station	1~4	1~4
Number of pallet	Pallet 400 Class: 12 ~ 72 Pallet 500 Class: 12 ~ 72	Pallet 500 Class: 12 ~ 72 Pallet 630 Class: 10 ~ 72 Pallet 800 Class: 8 ~ 72 Pallet 1000 Class: 6 ~ 30
Control Methods	PLC + Windows-based PC with DPMS Software	
Operational Features	- Use of a standalone industrial PC and monitor - Management of NC programs, fixtures, and pallets - Automatic operation based on the production plan - Reporting and remote monitoring	
Machine		

PALLET AUTOMATION SYSTEM

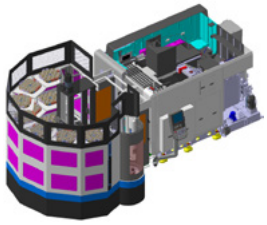
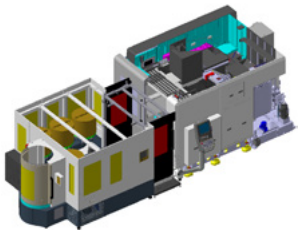
DN Round Storage

Type	DN Round Storage 4000 / 5000 / 5500	DN Round Storage 5500 / 6300 / 8000	DN Round Storage 1000 / 1250
Features	- Optimized slim design for space saving & minimal invest cost - Telescopic Mechanism Fork - Simple installation and easy maintenance - Easy field retrofit available	- Long time unmanned operation - High reliability by servo driven - Simple installation - Easy field retrofit available	- Long time unmanned operation - High reliability by servo driven - Simple installation
Available Model	NHP 4000 / NHC 4000 NHP 5000 / NHC 5000 NHP 5500 2nd / NHM 5000 / DHF 5500	NHM 5000 / NHP 5500 NHM 6300 / NHP 6300 NHM 8000 / NHP 8000 / DHF 8000	HM 1000 / HM 1250 *(only for pallet size 1000 x 1000, 1250 x 1000)*
Workpiece Size	NHP 4000 6/14p: Ø630 x 900h x 400kg - 1p: Ø630 x 700h x 400kg NHC 4000 6/14p: Ø600 x 800h x 400kg - 21p: Ø600 x 700h x 400kg NHP 5000 6/14p: Ø800 x 1000h x 500kg(700kg) - 21p: Ø800 x 700h x 500kg(700kg NHC 5000 6/14p: Ø800 x 900h x 500kg - 21p: Ø800 x 700h x 500kg NHP 5500 2nd / NHM 5000 / DHF 5500 - 6/12p: Ø850 x 1100h x 800kg - 18p: Ø850 x 750h x 800kg - 24p: Ø850 x 350h x 800kg *(1000kg Option only for NHP 5500 2nd)*	Ø850 x 1100h x 800kg Ø1050 x 1350h x 1200kg NHM 8000 / NHP 8000: Ø1450x1550h x 1700kg DHF 8000: Ø1400 x 1400h x 1700kg	Ø2000 x 1475h / 1725h x 3000kg *(Adjacent pallets empty)*
Number of pallet	DN Round Storage 4000/5000: 6/14/21 DN Round Storage 5500: 6/12/18/24	7 & 9	6
Control Methods	PLC + HMI with Embedded Software	CNC-based Control System	
Operational Features	- Deployment of an independent touch operated control panel - Pallet scheduling and status management - Automatic operation based on schedule	- 2-path NC system control - Pallet scheduling and status management - Automatic operation based on schedule	- PMC control - Pallet scheduling and status management - Automatic operation based on schedule
Machine			

** Please contact DN Solutions sales representative for further information.*

PALLET AUTOMATION SYSTEM

APC (Auto Pallet Changer) / AWC (Auto Workpiece Changer)

Type	Multi - level DRS 6500 / 8000	APC	AWC (Single-level / Multi-level)	AWC (Multi-level / HSK 100T Type)
Features	- Slim design optimized for a 5-axis machine. - Large maintenance space for optimal machine tool accessibility. - Easy to install.	- Automatic pallet changer optimized for 5-axis machine tools. - Large maintenance space easily accessible to the operator. - Easy to install.	- Slim design. - Side loading/unloading for optimal access to the front. - Easy to install.	- By applying HSK 100T clamp type, space utilization is improved compared to single layer AWC. Multi-level automation system optimized for multiple item production.
Available Model	DVF 6500 / DVF 6500T DVF 8000(/50) / DVF 8000T(/50)	DVF 6500 / DVF 6500T DVF 8000(/50) / DVF 8000T(/50)	DVF 4000 / 5000 DNM 4500 / 5700 / 6700 Mynx 6500 BVM 5700	DVF 4000 / 5000
Workpiece Size	DVF6500: ø630 x 430h x 600kg DVF6500T: ø630 x 430h x 500kg DVF8000T(/50) : Ø850 x 490h x 700kg DVF8000(/50) : Ø850 x 490h x 850kg *(Weight: Pallet Included)*	DVF 6500(T): Ø630 x 430h x 600kg DVF 8000(/50): Ø850 x 490h x 850kg DVF 8000T(/50): Ø850 x 490h x 700kg *(Weight: Pallet Included)*	Ø550 x 350h x 300kg *(DVF 4000 is not applicable)* Ø450 x 350h x 300kg Ø400 x 350h x 300kg Ø300 x 350h x 130kg *(Weight: Pallet Included)*	Ø350 x 315h x 80kg *(Weight: Pallet Included)*
Number of pallet	DVF 6500: 7/14/21 DVF 8000: 6/12/18	2/4	Pallet 500 Class: 4/24 Pallet 400 Class: 6/28 Pallet 350 Class: 8/32 Pallet 250 Class: 12/40	40
Control Method	PLC + HMI with Embedded Software			
Operational Features	- Deployment of an independent touch-operated control panel - Pallet scheduling and status management - Automatic operation based on schedule			
Machine				

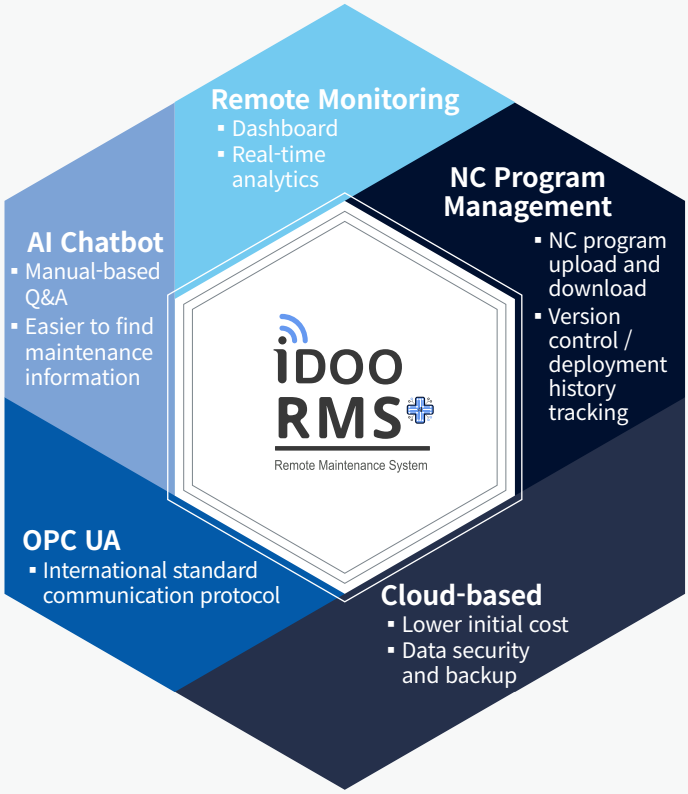
** Please contact DN Solutions sales representative for further information.*

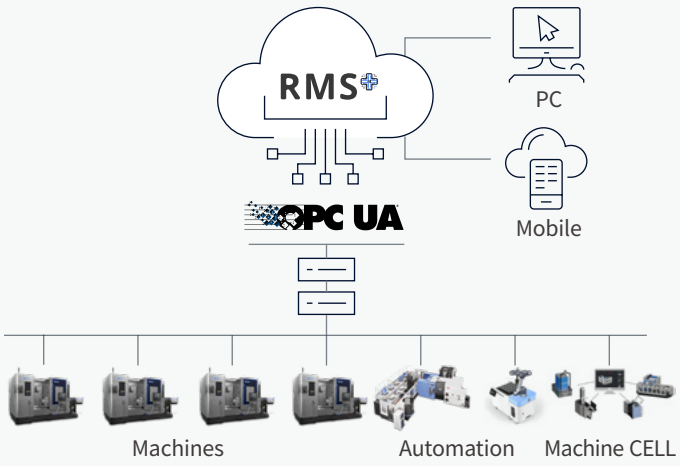
iDOO RMS+

DN Solutions Smart Factory Platform designed to reduce waste and delays, enhance quality and efficiency, and drive continuous evolution and innovation.

RMS+ Remote Maintenance System+

AI-Enhanced machine monitoring solution **+(Plus)**







iDOO RMS+

Real-time operation monitoring

- Real-time remote monitoring
- 24-hour operation status
- Machine alarm monitoring

Data-driven insights

- Production analysis reports
- Operation analysis reports

Customized user environment

- Layout customization
- System settings
- Access Control

AI services

- Manual-support chatbot
- Alarm cause analysis and resolution guide

iDOO RMS+

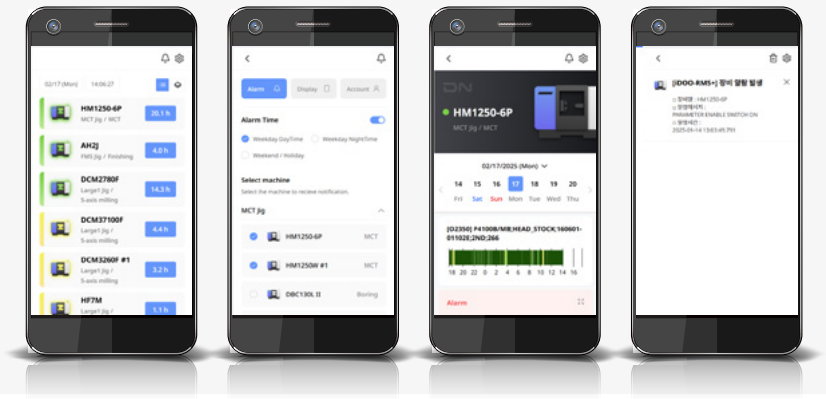
Real time monitoring

- Entire machine monitoring
- Individual machine monitoring
- 24H machine status chart
- Production dashboard
- Operation/Production analysis
- Alarm history
- Layout settings
- Status check logic



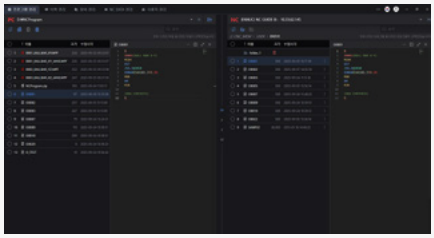
Web/Mobile support

- Entire machine monitoring
- Individual machine monitoring
- Machine alarm notifications



NC program management

- NC program upload and download
- Version control / deployment history tracking
- NC data backup & recovery



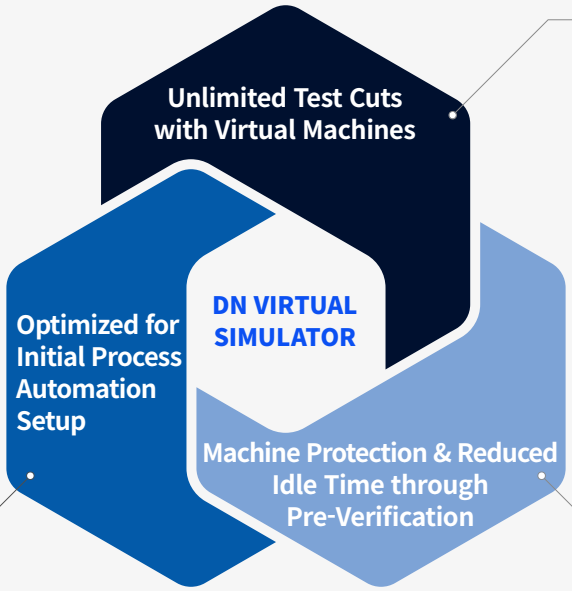
AI support service

- Chatbot – manual Q&A
- Machine manual-based information
- Machine maintenance guidance
- Alarm cause & resolution guide



WHY DN VIRTUAL SIMULATOR?

DN Solutions Digital Twin Solution



No more wasting time and cost on physical Test Cuts.

With DN Virtual Simulator, you can perform unlimited simulations without constraints.

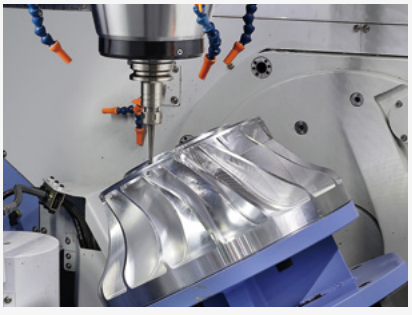
Accurate cycle time prediction enables seamless integration with DN Solutions' automation systems and third-party solutions.

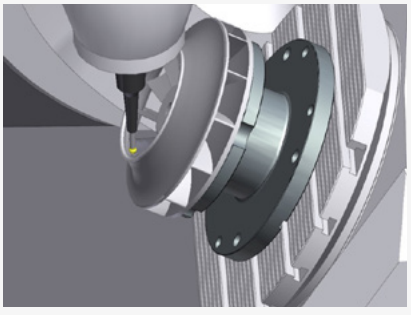
Pre-validate machining programs in a real-world environment to detect potential collisions in advance, seamlessly apply the results to actual operations, and minimize idle time.

DN SOLUTIONS DIGITAL TWIN FEATURES

Ensure Machine Safety & Process Stability

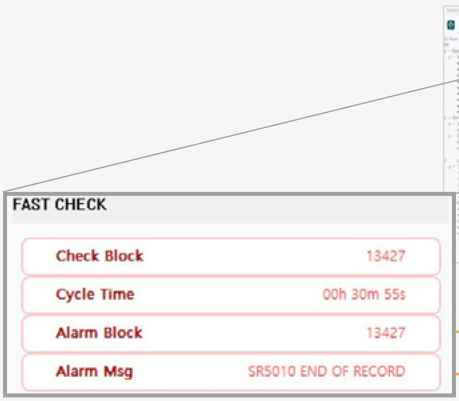
- Simultaneous 5-axis machine simulation and verification
- Collision and interference detection
- Large-scale NC code validation

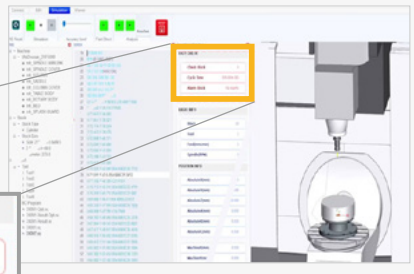




FAST CHECK: Up to 100× Faster Validation

- Accurate cycle time prediction
- NC program execution validation
- Pre-check alarm-triggering sections and messages
- Validation of FANUC / DN Solutions M-codes and G-codes





➡ High speed machining code verification: **up to (x100 speed)**

➡ Syntax and machining process error

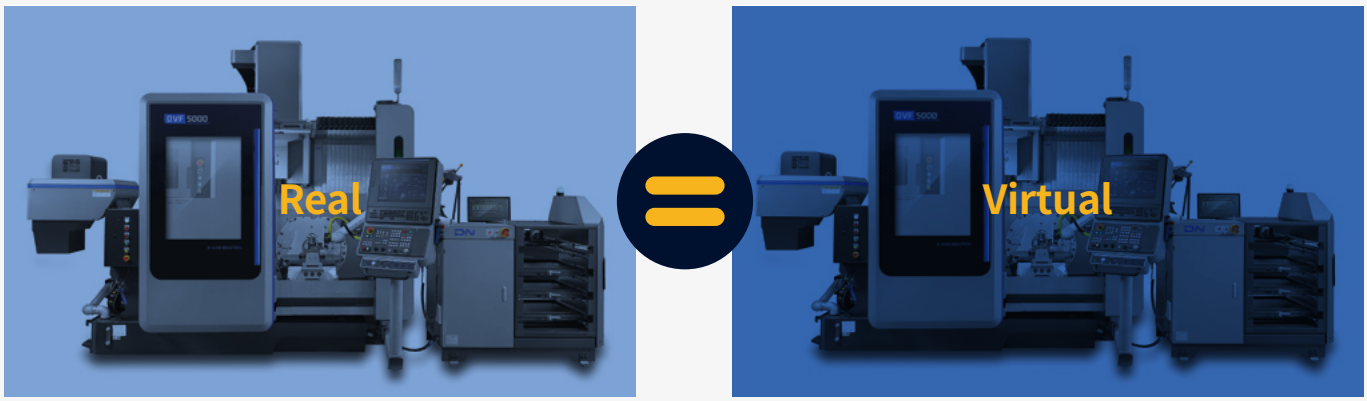
DN SOLUTIONS DIGITAL TWIN FEATURES

Always a Real-World Digital Twin

- Automatically synchronized virtual machine with real machine changes
- Upload and download project files via CUFOS

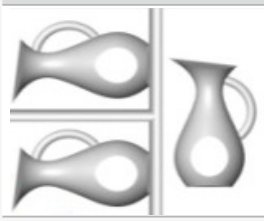
High-Accuracy Virtual Machine

- DN Solutions-verified virtual machine files provided
- DN Solutions real machine models applied
- DN Solutions real machine parameters reflected
- DN Solutions real machine PMC integrated
- FANUC CNC kernel applied



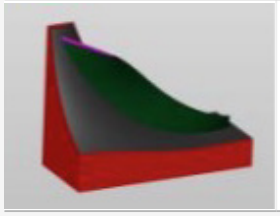
- 3-Axis Test

  - Workpiece: Vase machining (full process, no tool change)

Workpiece	Category	Real Machine	Digital Machine	Time Difference	Accuracy
	Time	1H 7M 555	1H 7M 495	6 sec	**99.8** %

- 5-Axis Test

  - Workpiece: Impeller (full process, 1 tool change)

Workpiece	Category	Real Machine	Digital Machine	Time Difference	Accuracy
	Time	1H 19M 40S	1H 20M 6S	26 sec	**99.4** %

CUSTOMER SUPPORT AND SERVICES

We help our customers operate at maximum efficiency by providing them with a range of tried, tested and trusted services - from pre-sales consultancy to post-sales support.



FIELD SERVICES

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



PARTS SUPPLY

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



TRAINING

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

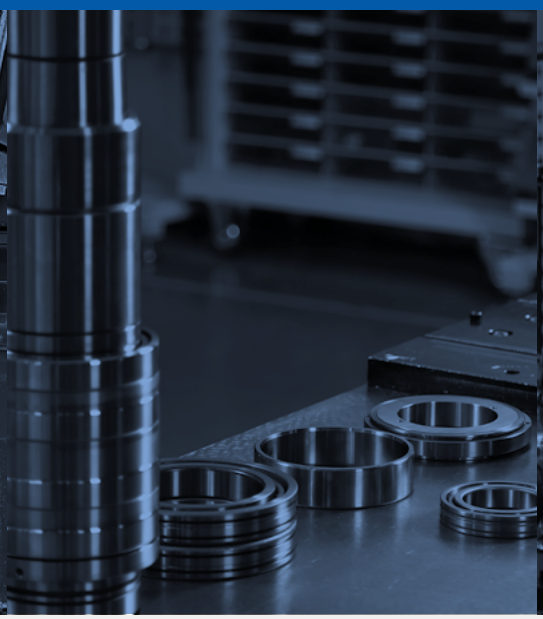


TECHNICAL SUPPORT

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

SERVICE EXCELLENCE







NEW SPINDLE

High-end technology
Premium quality
Extended warranty
High stock availability

REPLACEMENT SPINDLE

Cost efficiency
Premium quality
High stock availability

SPINDLE REPAIR

Maximized cost efficiency
Precision repair by highly skilled technician
Genuine parts only

RESPONDING TO CUSTOMERS **ANYTIME, ANYWHERE**

DN SOLUTIONS GLOBAL NETWORK

DN Solutions provides systems-based professional support services, before and after the machine tool sale, by responding quickly and efficiently to customers. By supplying spare parts, product training, field service and technical support, we provide the expert care, attention and assistance our customers expect from a market leader.



66	COUNTRIES
140+	SALES NETWORKS
4	FACTORIES
6	REGIONAL HQS



OVERSEAS SUPPLIED SYSTEM

DN Solutions 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
Ronal 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

ESG | SUSTAINABILITY MANAGEMENT

Since its founding in 1976, DN Solutions has been committed to building a sustainable future in the machine tool industry.

Placing ESG principles at the core of our business, we strive to protect the environment, uphold social responsibility, and ensure transparent governance, aiming to lead as a global industry pioneer. This vision goes beyond industrial contribution, driving positive change for society and the planet.



DN Solutions is dedicated to achieving carbon neutrality by 2050

As a milestone toward this goal, we aim to reduce carbon emissions by 40% by 2030 and will transparently disclose our carbon footprint.

We Pledge Net Zero Carbon by 2050.

We declare our commitment to achieving net-zero carbon emissions by 2050, grounded in a deep awareness of the pivotal role that companies must play.
While our ultimate goal is set for 2050, we will establish both short-term and long-term targets to ensure continuous emissions reduction and demonstrate measurable progress at every stage.

We Target 40% Carbon Emission Cuts by 2030, Aiming for Net Zero by 2050.

We are determined to set a critical milestone on our journey to net-zero by reducing carbon emissions by 40% by 2030.

Our 2030 target is not merely a numerical indicator, but a strong declaration of our intent to achieve meaningful change within the next decade. We will strive to ensure consistent and measurable progress toward this goal.

We Commit to Transparent Carbon Footprint Disclosure for Emissions.

As part of our commitment to achieving net-zero by 2050 and a 40% reduction by 2030, we solemnly pledge to transparently disclose our carbon emissions throughout this journey.

Emphasizing transparency in carbon disclosure serves as a compass, guiding us toward our goals and ensuring that every decision and action we take aligns with our commitment.

DN SOLUTIONS

dn-solutions.com

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Fax: +86-0535-693-5619

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Sales inquiry

sales@dncompany.com

** For more details, please contact DN Solutions.*
** Specifications and information contained within this catalogue may be changed without prior notice.*

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