

VMC

Vertical Machining Center

FP Series High Precision High Performance Die Mold Vertical Machining Center / High Precision Graphite Vertical Machining Center
FP55LX, FP66A, FP100A / FP66G

NXV Series High Performance Vertical Machining Center
NXV560A, NXV1020A/AM, NXV1380A, NXV1680A/B

TV Series Heavy Duty Vertical Machining Center
TV116B, TV146B, TV158B, TV188B, TV2110B, TV2610B, TV850B

NTV Series High Efficiency T-base Vertical Machining Center
NTV158A/B

NMV Series High Performance High Rigidity Vertical Machining Center
NMV76A, NMV106A

WV Series Ultra Wide High Performance Vertical Machining Center
WV108A/B

NFX Series High Performance 5-axis Vertical Machining Center
NFX380A

NSV Series Ultra High Performance Vertical Machining Center
NSV66A, NSV102A, NSV102AM, NSV156A

TCV Series High Performance Traveling Column Vertical Machining Center
TCV2000A, TCV3000A, TCV3000A-5AF, TCV3000A-5AX

DCV Series Advanced Double Column Vertical Machining Center
DCV2012A/B, DCV3016B~6035B, DCV2018A-5AX, DCV4030B~6030B-5AX, DCV4030B-5AF

NDC Series High Performance Double Column Vertical Machining Center
NDC2016B~4016B, NDC3022B~6027B, NDC2018B~4018B-AHC, NDC3022B~6027B-AHC

HMC

Horizontal Machining Center

H Series High Production Horizontal Machining Center
H2612B

NH Series High Speed High Precision Horizontal Machining Center
NH450A, NH630B, NH800B

HBM

Horizontal Boring Milling Machining Center

BMP Series High Accuracy Heavy Duty Boring Machine
BMP1416B

CNC LATHES

CNC Turning Center

NT Series High Performance Mill/Turn Center
NT-2000Y/SY, NT-2500Y/SY, NT-2000SY2

GT Series High Performance Geo Turning Center
GT-200A/B/MA, GT-250A/B/MA/MB, GT-300A/B/LA/LB/MA/MB/LMA/LMB, GT-380A/B/LA/LB

TC Series High Performance High Precision CNC Lathe
TC-16A/B/LA/LB/MA/MB/LMA/LMB, TC-26, TC-26L, TC-36, TC-36W, TC-46, TC-46M

Integrated Operation Control System **iOPERATION**

Spindle Thermal Compensation System **STC PLUS**

Remote Monitoring System **iDirect**

Automation Solutions

INTEGRATION
AND SOLUTIONS



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201706-E03-2000

NDC Series

High Efficiency Double Column Machining Center



NDC 2016B / 3016B / 4016B

High Efficiency Double Column Machining Center

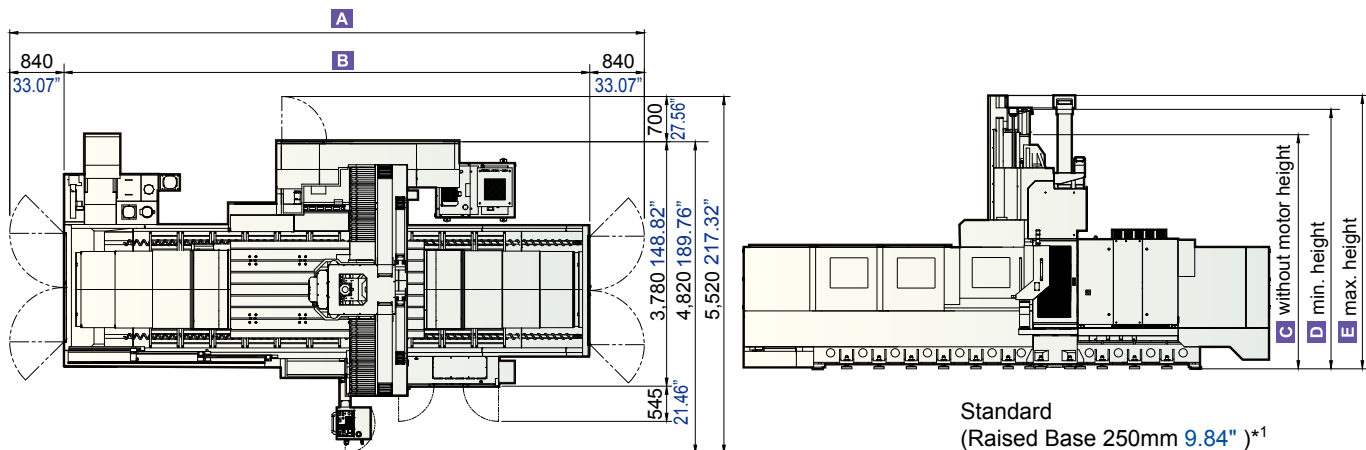
YCM persists on building the self-manufacturing capability and strict assembly inspection process for upgrading the NDC High Efficiency Double Column Machining Center to its limit of precision, rigidity and power.

High Rigidity Structural Design

- A-ribbed base structure with multiple supporting points provides X-axis with the best straightness
- Work table fully supported by base provides perfect dynamic accuracy
- One piece high rigidity column offers low deformation, providing Y-axis with the best straightness
- Wide span saddle provides both horizontal and vertical support which decentralizes the load caused from head weight and spindle during machining
- Roller type linear guideways on both X/Y-axis provides low friction, non-backlash, high rigidity and high precision
- High damping boxway on Z-axis absorbs vibration, prolongs tool life and enhances surface precision
- Dual chip augers with conveyor offer efficient chip removal
- Simple plate metal design reduces chip accumulation



► NDC 2016B / 3016B / 4016B



Model	A	B	C	D	E
NDC 2016B	7,488 mm 294.8"	5,972 mm 235.12"	3,622 mm 142.6"	4,013 mm 157.99"	4,230 mm 166.54"
NDC 3016B	9,820 mm 386.61"	8,136 mm 320.31"	(3,872 mm 152.44")* ¹	(4,263 mm 167.83")* ¹	(4,480 mm 176.38")* ¹
NDC 4016B	11,800 mm 464.57"	10,150 mm 399.61"	(4,122 mm 162.28")* ²	(4,587 mm 180.59")* ²	(4,963 mm 195.39")* ²

Note: Above specifications may vary depending on the machine and the surrounding environment.
The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions.

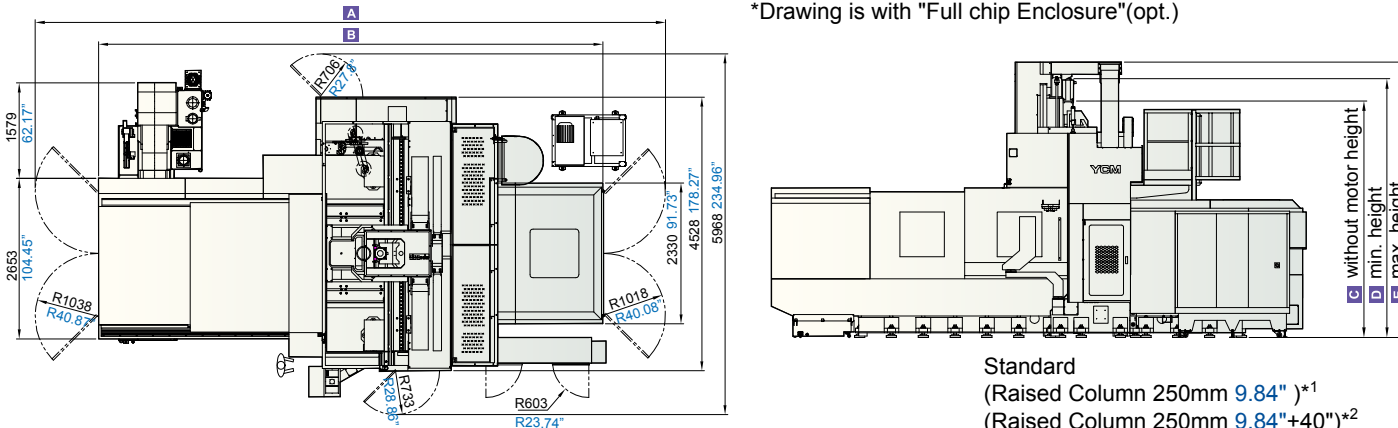
NDC 3022B / 4022B

High Efficiency Double Column Machining Center

- The gear box is self-made which is powerful 2-step gear transmission as standard, with oil cooling lubrication that prevents temperature rise and noise.
- X-axis adopts direct gear drive that provides high torque, high transmission efficiency and low backlash.
- Z-axis head is boxway design that shows high rigidity and high damping, effectively avoids overhang, and vibration issues.
- Wide span saddle enhances stabilization. With rigid beam and columns configuration, it provides Y-axis with the best straightness.
- Y-axis and Z-axis adopt ball screw and flexible direct design, without backlash and belt drive issues.
- Highly rigid box structure head design, effectively resists deformation and vibration during heavy cutting.
- Extra wide column base with boots design prevents the headstock from leaning forward.
- Work table fully supported by base provides perfect dynamic accuracy.



► NDC 3022B / 4022B



Model	A	B	C	D	E
NDC 3022B	10,424 410.39"	8,346 328.58"	3,717 146.34"	4,067 160.12"	4,326 170.32"
NDC 4022B	12,424 489.13"	10,346 407.32"	(3,967 156.18")* ¹	(4,317 169.96")* ¹	(4,576 180.16")* ¹
			(4,217 166.02")* ²	(4,641 182.72")* ²	(5,059 199.17")* ²

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NDC 2018B / 3018B / 4018B - AHC

High Efficiency Double Column Machining Center with Automatic 90° Angle Head Change

The NDC series is suitable for long workpiece machining. Multi-face machining could also be performed with the adoption of the 90° Angle head which changes automatically. The NDC-AHC can be used for machining applications such as large-scale castings, structural parts and semiconductor chamber components.

High Rigidity 90° Angle Head

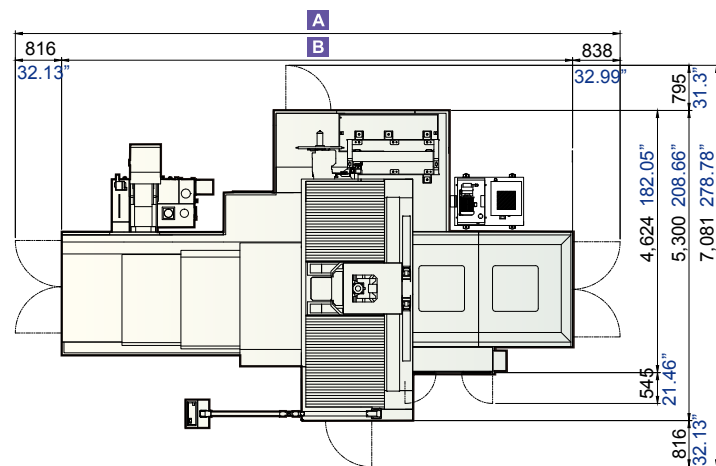
- Self-manufactured gearbox provides high torque for both vertical and horizontal machining
- High rigidity octagonal milling head design
- Quiet precision grounded bevel gear, adopts oil-mist lubrication to reduce heat
- Large diameter toothed clutches provide high machining stability, precision and rigidity
- 4 independent pull studs with high clamping force
- 90° angle head anti-drop safety mechanism
- Coolant through spindle (CTS) optional for both vertical / 90° angle head (opt.)

Reliable AHC Vertical / Horizontal Automatic Tool Change

- Rotary head chamber design reduces space and provides rapid head change
- Automatic vertical / horizontal head change mechanism
- Reduce time for both fixture producing and workpiece installation, improving production efficiency
- Multi-face machining in one step increases machining efficiency and precision
- Vertical / Horizontal tool change system provides fast tool change, sensors and sequence scanning ensures tool change stability



► NDC 2018B / 3018B / 4018B -AHC



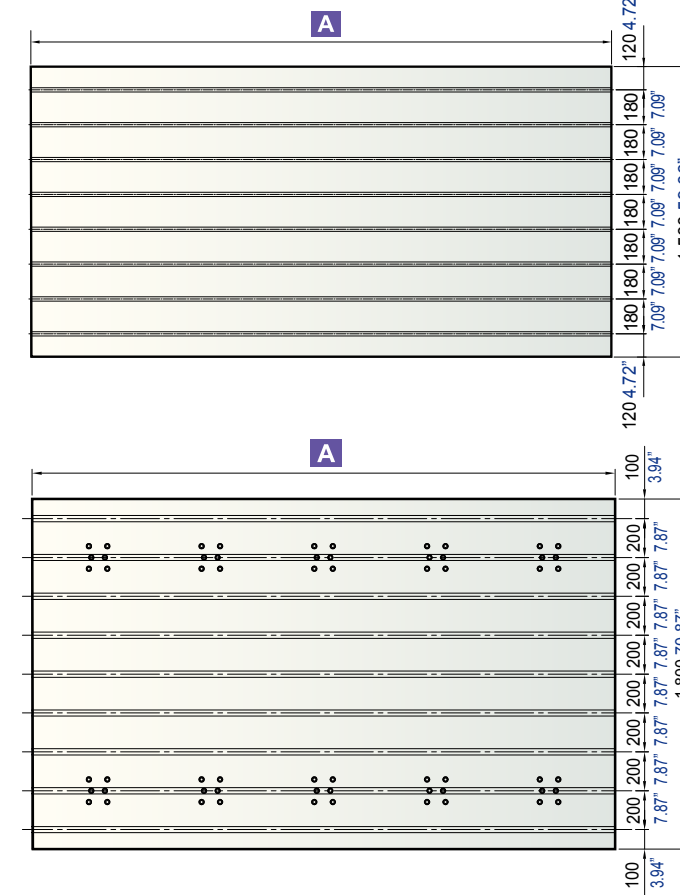
Model	A	B	C	D	E
NDC 2018B-AHC	8,530 mm 335.83"	6,876 mm 270.71"	3,922 mm 154.41"	4,313 mm 169.8"	4,530 mm 178.35"
NDC 3018B-AHC	10,670 mm 420.08"	9,016 mm 354.96"			
NDC 4018B-AHC	12,670 mm 498.82"	11,016 mm 433.7"			

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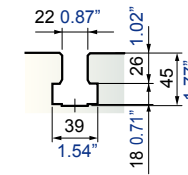
DIMENSIONS

Unit: mm **inch**

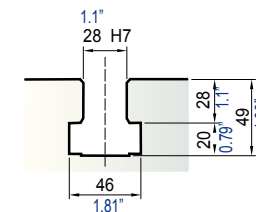
▶ TABLE SIZE



► T-SLOTS



Model	A
NDC 2016B / 2018B-AHC	2,000 mm 78.74"
NDC 3016B / 3018B-AHC	3,000 mm 118.11"
NDC 4016B / 4018B-AHC	4,000 mm 157.48"



Model	A
NDC 3022B	3,000 mm 118.11"
NDC 4022B	4,000 mm 157.48"

ACCURACY

■ **NDC 2016B / 2018B-AHC**

Accuracy	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning A (X/Y/Z)	0.038 / 0.032 / 0.025 mm 0.0015" / 0.0013" / 0.0010"	0.015 / 0.015 / 0.010 mm 0.0006" / 0.0006" / 0.0004"
Repeatability R (X/Y/Z)	0.016 / 0.013 / 0.010 mm 0.0006" / 0.0005" / 0.0004"	0.010 / 0.010 / 0.007 mm 0.0004" / 0.0004" / 0.0003"

*All values shown above are measured for the machine in good foundation and air-conditioned environments.

■ **NDC 3016B / 3022B / 3018B-AHC**

Accuracy	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning A (X/Y/Z)	0.044 / 0.038 / 0.025 mm 0.0017" / 0.0015" / 0.0010"	0.020 / 0.015 / 0.010 mm 0.0008" / 0.0006" / 0.0004"
Repeatability R (X/Y/Z)	0.019 / 0.016 / 0.010 mm 0.0007" / 0.0006" / 0.0004"	0.015 / 0.010 / 0.007 mm 0.0006" / 0.0004" / 0.0003"

*All values shown above are measured for the machine in good foundation and air-conditioned environments.

■ **NDC 4016B / 4022B / 4018B-AHC**

Accuracy	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning A (X/Y/Z)	0.050 / 0.038 / 0.025 mm 0.0020" / 0.0015" / 0.0010"	0.025 / 0.015 / 0.010 mm 0.0010 / 0.0006" / 0.0004"
Repeatability R (X/Y/Z)	0.022 / 0.016 / 0.010 mm 0.0009" / 0.0006" / 0.0004"	0.020 / 0.010 / 0.007 mm 0.0008" / 0.0004" / 0.0003"

*All values shown above are measured for the machine in good foundation and air-conditioned environments.

CUTTING CAPACITY

NDC 3016B Spindle Speed : 10,000 rpm (opt.)

FACE MILL

S45C Steel

Material Removal Rate

700

cc/min.

Tool

ø125 mm x 8T

Spindle Speed

675 rpm

Feedrate

3,240 mm/min.

Width of Cut

120 mm

Depth of Cut

1.8 mm

FACE MILL

S45C Steel

Depth of Cut

8

mm

Tool

ø160 mm x 10T

Spindle Speed

500 rpm

Feedrate

300 mm/min.

Width of Cut

120 mm

TAP

S45C Steel

Tapping

M48

Tool

M48 x 5P

Spindle Speed

45 rpm

Feedrate

225 mm/min.

Depth of Cut

48 mm

END MILL

S45C Steel

Depth of Cut

15

mm

Tool

ø63 mm x 4T

Spindle Speed

500 rpm

Feedrate

200 mm/min.

Width of Cut

63 mm

U-DRILL

S45C Steel

Cutter Diameter

ø65

mm

Tool

ø65 mm x 1T

Spindle Speed

500 rpm

Feedrate

120 mm/min.

Depth of Cut

30 mm

NDC 3018B-AHC Spindle Speed : 6,000 rpm

FACE MILL

S45C Steel

Material Removal Rate

864

cc/min.

Tool

ø125 mm x 8T

Spindle Speed

375 rpm

Feedrate

1,800 mm/min.

Width of Cut

120 mm

Depth of Cut

4 mm

FACE MILL

S45C Steel

Depth of Cut

11

mm

Tool

ø160 mm x 8T

Spindle Speed

375 rpm

Feedrate

240 mm/min.

Width of Cut

125 mm

TAP

S45C Steel

Tapping

M48

Tool

M48 x 5P

Spindle Speed

45 rpm

Feedrate

225 mm/min.

Depth of Cut

35 mm

END MILL

S45C Steel

Depth of Cut

10

mm

Tool

ø63 mm x 4T

Spindle Speed

500 rpm

Feedrate

200 mm/min.

Width of Cut

63 mm

U-DRILL

S45C Steel

Cutter Diameter

ø65

mm

Tool

ø65 mm x 1T

Spindle Speed

750 rpm

Feedrate

180 mm/min.

Depth of Cut

30 mm

NDC 3018B-AHC Spindle Speed : 4,000 rpm (Horizontal-C0°)

U-DRILL

S45C Steel

Cutter Diameter

ø65

mm

Tool

ø65 mm x 1T

Spindle Speed

750 rpm

Feedrate

120 mm/min.

Depth of Cut

30 mm

TAP

S45C Steel

Tapping

M48

Tool

M48 x 5P

Spindle Speed

45 rpm

Feedrate

225 mm/min.

Depth of Cut

30 mm

NDC 3018B-AHC Spindle Speed : 4,000 rpm (Horizontal-C90°)

FACE MILL

S45C Steel

Material Removal Rate

864

cc/min.

Tool

ø125 mm x 8T

Spindle Speed

375 rpm

Feedrate

1,800 mm/min.

Width of Cut

120 mm

Depth of Cut

4 mm

U-DRILL

S45C Steel

Cutter Diameter

ø65

mm

Tool

ø65 mm x 1T

Spindle Speed

750 rpm

Feedrate

75 mm/min.

Depth of Cut

30 mm

TAP

S45C Steel

Tapping

M48

Tool

M48 x 5P

Spindle Speed

45 rpm

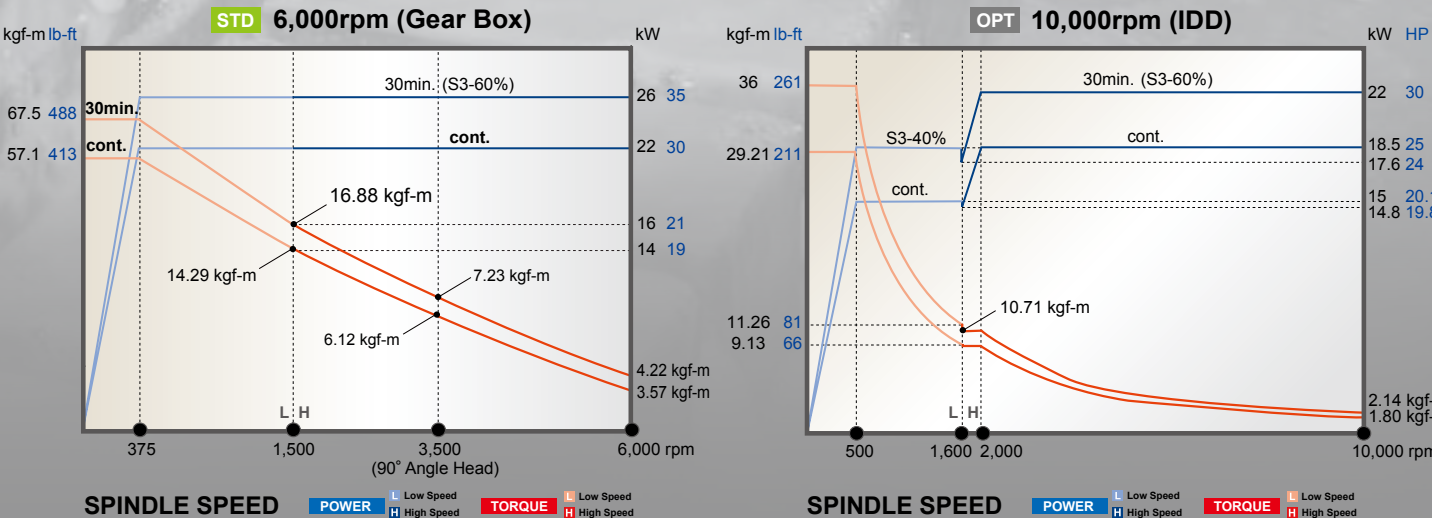
Feedrate

225 mm/min.

Depth of Cut

35 mm

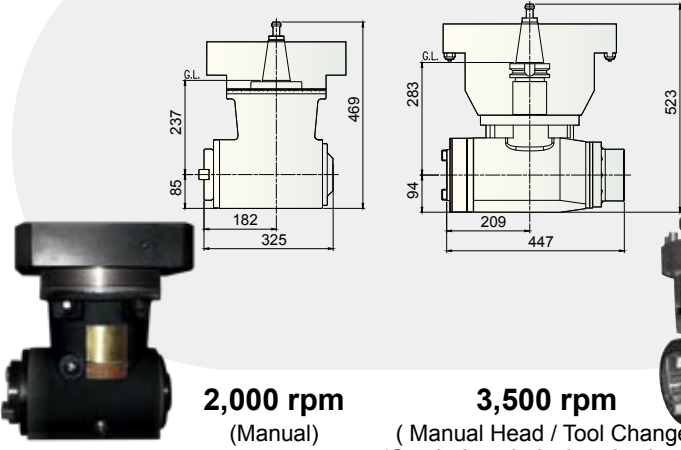
Note: Internal cutting test data are just for reference. This is tested for the max. machining capability of the machine, but not for the optimum tool life conditions.



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MILLING HEAD

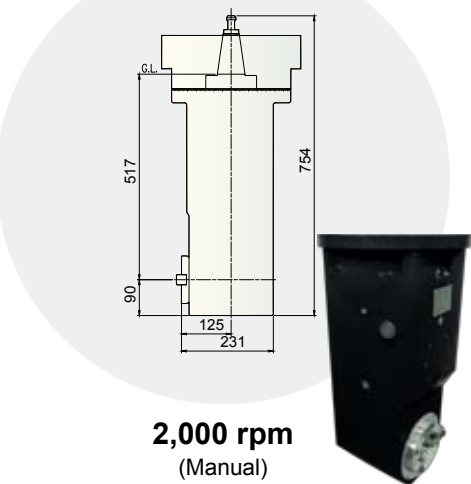
90° Milling Head



2,000 rpm
(Manual)

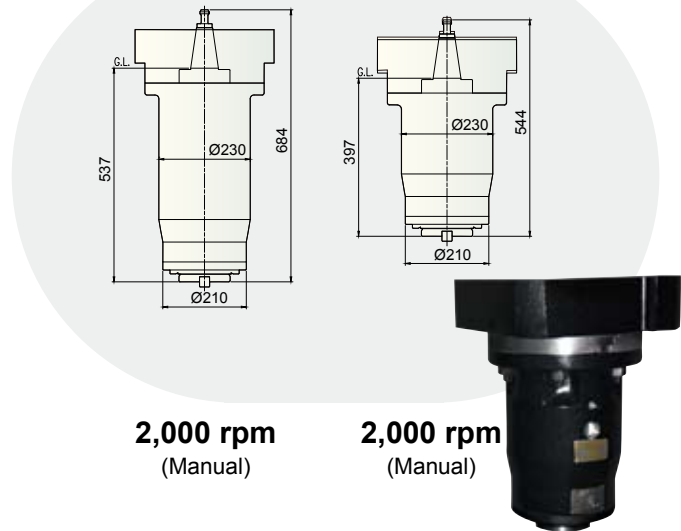
3,500 rpm
(Manual Head / Tool Change)
(C-axis Auto Indexing Angle: 5°)

Extended 90° Milling Head



2,000 rpm
(Manual)

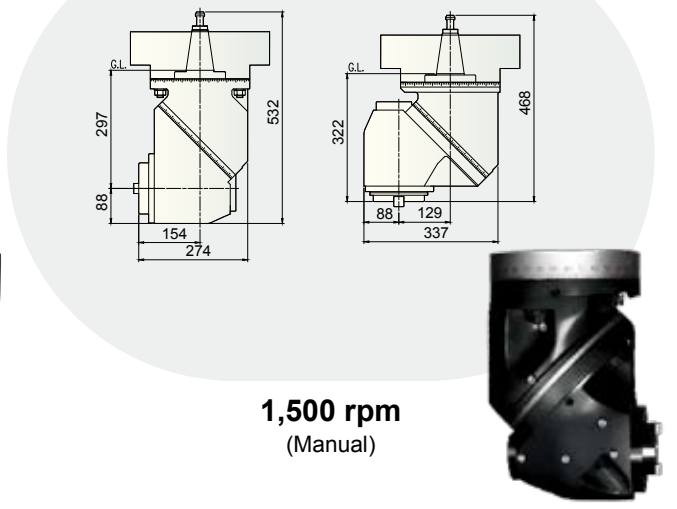
Extended Milling Head



2,000 rpm
(Manual)

2,000 rpm
(Manual)

Universal Milling Head



1,500 rpm
(Manual)

Note:
Milling heads shown above are optional exclusively for NDC 2016B, NDC 3016B, NDC 4016B, NDC 3022B, NDC 4022B with 6,000 rpm spindle (gearbox) and raised base 250mm.



■ Rotary Head Chamber Design ■ Stable Vertical Milling Head ■ 90° Angle Head

Note: Above designs are for NDC 2018B / 3018B / 4018B-AHC

ACCESSORIES

● : Standard ○ : Optional — : None

	NDC							
	2016B	3016B	4016B	3022B	4022B	2018B -AHC	3018B -AHC	4018B -AHC
Tool Kit	●	●	●	●	●	●	●	●
Work Lamp	●	●	●	●	●	●	●	●
Pilot Lamp	●	●	●	●	●	●	●	●
Safety Door	●	●	●	●	●	●	●	●
Rigid Tapping	●	●	●	●	●	●	●	●
Coolant Equipment System	●	●	●	●	●	●	●	●
Spindle Air Blast	●	●	●	●	●	●	●	●
Cutting Air Blast	●	●	●	●	●	●	●	●
Leveling Bolts and Pads	●	●	●	●	●	●	●	●
Foundation Bolts	●	●	●	●	●	●	●	●
Central Lubrication Equipment	●	●	●	●	●	●	●	●
A/C. Cooler for Electrical Cabinet	●	●	●	●	●	●	●	●
Chip Enclosure	●	●	●	●	●	●	●	●
Full Chip Enclosure	○	○	○	○	○	○	○	○
Workpiece Measurement System	○	○	○	○	○	○	○	○
Automatic Tool Length Measurement System	○	○	○	○	○	○	○	○
Laser Measuring System	○	○	○	○	○	○	○	○
4th Axis Rotary Table	○	○	○	○	○	○	○	○
Chip Conveyor (Chain Type)	●	●	●	●	●	●	●	●
Chip Conveyor (Scraper Type)	○	○	○	○	○	○	○	○
Dual Chip Augers (Screw Type)	●	●	●	●	●	●	●	●
Mechanical, Maintenance, Electrical & Operating Manuals	●	●	●	●	●	●	●	●
Optical Scale	○	○	○	○	○	○	○	○
Oil-mist System	○	○	○	○	○	○	○	○
Oil-mist Collector	○	○	○	○	○	○	○	○
Coolant Through Spindle System (Form A)	○	○	○	○	○	○	○	○
Spindle & Gear Box Cooling System	●	●	●	●	●	●	●	●
Hi/Low Gear Box	●	●	●	●	●	●	●	●
Oil Skimmer	●	●	●	●	●	●	●	●
Oil Hole Holder Function	○	○	○	○	○	○	○	○
Circular Coolant Nozzle	●	●	●	●	●	●	●	●
Tool Unclamping Pedal	●	●	●	●	●	●	●	●
Automatic Power Off Device	●	●	●	●	●	●	●	●
250mm Raised Column	○	○	○	○	○	—	—	—
STC Plus	○	○	○	○	○	—	—	—
Paper Filter Unit	○	○	○	○	○	○	○	○
90° Milling Head / 2,000 rpm (Manual)	○	○	○	○	○	—	—	—
90° Milling Head / 3,500 rpm (Manual Head/ Tool Change : C-axis Auto Indexing Angle: 5°)	○	○	○	○	○	—	—	—
Extended 90° Milling Head / 2,000 rpm (Manual)	○	○	○	○	○	—	—	—
Extended Milling Head / 2,000 rpm (Manual)	○	○	○	○	○	—	—	—
Universal Milling Head / 1,500 rpm (Manual)	○	○	○	○	○	—	—	—
90° Angle Head / 4,000 rpm (AHC)	—	—	—	—	—	●	●	●
Vertical/ Horizontal Arm Type Automatic Tool Change	—	—	—	—	—	●	●	●
CNC Control: FANUC MXP-200FA	●	●	●	●	●	●	●	●
CNC Control: FANUC MXP-200FB	○	○	○	○	○	○	○	○
CNC Control: FANUC MXP-200FC	○	○	○	○	○	○	○	○
CNC Control: HEIDENHAIN iTNC-530 HSCI	○	○	○	○	○	○	○	○

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SPECIFICATIONS

	NDC		
	2016B	3016B	4016B
SPINDLE			
Spindle Speed (opt.)	6,000 rpm (10,000 rpm)		
Spindle Power / Torque (opt.)	26 kW / 675 Nm 35HP (22 kW / 355 Nm 30HP)		
Spindle Taper	BBT50		
TRAVEL			
X-axis Travel	2,200 mm 86.61"	3,200 mm 125.98"	4,200 mm 165.35"
Y-axis Travel	1,600 mm 62.99"		
Z-axis Travel (opt.)	762 mm 30" (1016 mm 40")		
Distance Between Spindle Nose & Table Top	200~962 mm 7.87"~37.87" (Raised Base 250mm: 450~1,212 mm 17.73"~47.72") (Z-axis Travel 1,016mm: 200~1,216 mm 7.87"~47.87")		
Distance Between Columns	1,800 mm 70.87"		
TABLE			
Table Size	2,000 x 1,500 mm 78.74" x 59.06"	3,000 x 1,500 mm 118.11" x 59.06"	4,000 x 1,500 mm 157.48" x 59.06"
No. T-slots x Size x Pitch	8 x 22 mm x 180 mm 8 x 0.87" x 7.09"		
Max. Load on Table	8,000 kg 17,637 lb	10,000 kg 22,046 lb	12,000 kg 26,455 lb
FEEDRATE			
Rapid Feedrate (X/Y/Z)	20/20/15 m/min 787/787/591 ipm		15/20/15 m/min 591/787/591 ipm
Cutting Feedrate	1~10,000 mm/min. 0.04~394 ipm		
ATC			
Tool Magazine Capacity (opt.)	32T (40 / 60T)		
Max. Tool Weight	20 kg 44 lb		
Max. Tool Dimensions (W/O Adjacent Tool)	ø125 x 350mm ø4.92" x 13.78" (ø240 x 350mm ø9.45" x 13.78")		
Tool Changer Method	Arm Type		
Tool Selection Method	Random		
GENERAL			
Pneumatic Supplier	5.5 kg/cm² 78.2psi		
Power Consumption (Transformer)	72 kVA (80 kVA)		
Machine Weight	23,000 kg 50,706 lb	26,000 kg 57,320 lb	29,000 kg 63,933 lb

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NDC	
3022B	4022B
6,000 rpm (10,000 rpm)	
26 kW / 675 Nm 35HP (22 kW / 355 Nm 30HP)	
BBT50	
3,200 mm 125.98"	4,200 mm 165.35"
2,200 mm 86.61"	
762 mm 30" (1016 mm 40")	
200~962 mm 7.87"~37.87" (Raised Column 250mm: 450~1,212 mm 17.73"~47.72") (Z-axis Travel 1,016mm: 200~1,216 mm 7.87"~47.87")	
2,200 mm 86.61"	
3,000 x 1,800 mm 118.11" x 70.87"	4,000 x 1,800 mm 157.48" x 70.87"
9 x 28 mm x 200 mm 9 x 0.87" x 7.09"	
12,000 kg 26,455 lb	15,000 kg 33,069 lb
15/20/15 m/min 591/787/591 ipm	15/20/15 m/min 591/787/591 ipm
1~10,000 mm/min. 0.04~394 ipm	
32T (40 / 60T)	
20 kg 44 lb	
ø125 x 350mm ø4.92" x 13.78" (ø240 x 350mm ø9.45" x 13.78")	
Arm Type	
Random	
5.5 kg/cm² 78.2psi	
6,000 rpm : 86 (100) kVA 10,000 rpm : 79 (80) kVA	
33,500 kg 73,854 lb	36,500 kg 80,468 lb

	NDC		
	2018B-AHC	3018B-AHC	4018B-AHC
SPINDLE			
Spindle Speed (V / H)	6,000 rpm / 4,000 rpm		
Spindle Power / Torque	26 kW / 675 Nm 35HP		
Spindle Taper	BBT50		
TRAVEL			
X-axis Travel	2,200 mm 86.61"	3,200 mm 125.98"	4,200 mm 165.35"
Y-axis Travel	2,200 mm 86.61"		
Z-axis Travel	762 mm 30"		
Distance Between Spindle Nose & Table Top	500~1,262 mm 19.69"~49.69" / 130~892 mm 5.12"~35.12"		
Distance Between Columns	1,800 mm 70.87"		
TABLE			
Table Size	2,000 x 1,500 mm 78.74" x 59.06"	3,000 x 1,500 mm 118.11" x 59.06"	4,000 x 1,500 mm 157.48" x 59.06"
No. T-slots x Size x Pitch	8 x 22 x 180 mm 8 x 0.87" x 7.09"		
Max. Load on Table	8,000 kg 17,637 lb	10,000 kg 22,046 lb	12,000 kg 26,455 lb
FEEDRATE			
Rapid Feedrate (X/Y/Z)	20/20/15 m/min 787/787/591 ipm		15/20/15 m/min 591/787/591 ipm
Cutting Feedrate	1~10,000 mm/min. 0.04~394 ipm		
ATC			
Tool Magazine Capacity (opt.)	40T (60T)		
Max. Tool Weight	20 kg 44 lb		
Max. Tool Dimensions (W/O Adjacent Tool)	ø125 x 350mm ø4.92" x 13.78" (ø240 x 350mm ø9.45" x 13.78")		
Tool Changer Method	Arm Type (V/H Tool Change)		
Tool Selection Method	Random		
GENERAL			
Pneumatic Supplier	5.5 kg/cm² 78.2psi		
Power Consumption (Transformer)	75 kVA (80 kVA)		
Machine Weight	26,000 kg 57,320 lb	29,000 kg 63,933 lb	32,000 kg 70,547 lb

Note: Above specifications may vary depending on the machine and the surrounding environment.
The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions.

Linear Encoder

- HEIDENHAIN linear encoders are available on 3 axes
- With the absolute measuring method, the position value is available from the encoder immediately upon switch-on
- The absolute position information is read from the scale graduation, which is formed from a serial absolute code structure



Auto Tool Length Measurement System

- Tool length & radius measurement
- Universal and economic solution for fast tool setting and breakage control



Laser Measuring System

- Non-contact precise tool setting and breakage control
- The integrated electronic system checks each individual cutting edge at full speed



Workpiece Measurement System

- Multidirectional touch probe
- Allows fast, precise, and automatic calculation of workpiece position and dimensions

