

# VMC

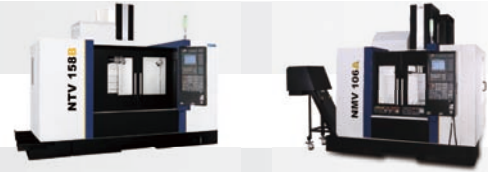
YCM PRODUCT LINES

## Vertical Machining Center

**FP Series** High Precision High Performance Die Mold Vertical Machining Center  
**FP66A, FP100A, NFP66A**



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



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

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

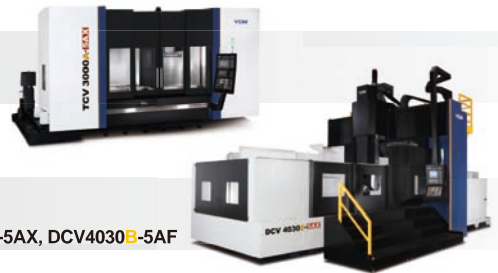
**NMV Series** High Performance High Rigidity Vertical Machining Center  
**NMV76A, NMV106A**



**WV Series** Ultra Wide High Performance Vertical Machining Center  
**WVA/B**

**NFX Series** High Performance 5-axis Vertical Machining Center  
**NFX380A**

**NSV Series** Ultra High Performance Vertical Machining Center  
**NSV66A, NSV102A/AM, NSV156A/AM**



**TCV Series** High Performance Traveling Column Vertical Machining Center  
**TCV2000A, TCV3000A, TCV4500B, TCV2300A-4A, TCV3000A-4A/5AF/5AX**

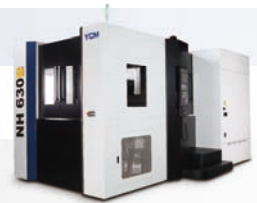
**DCV Series** Advanced Double Column Vertical Machining Center  
**DCV2012A/B, DCV3016B-6035B, DCV2018A-4018A-5AX, DCV4030B-6023B-5AX, DCV4030B-5AF**

**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  
**NH630B, NH800B**

# CNC LATHES

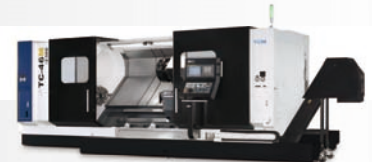
## CNC Turning Center

**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**



**NTC Series** High Efficiency CNC Turning Center  
**NTC-1600M/Y/L/LM/LS/LY/LSY, NTC-2000M/Y/L/LM/LS/LY/LSY**



Integrated Operation Control System **iOPERATION Plus**

Spindle Thermal Compensation System **STC PLUS**

Remote Monitoring System **iDirect**

Automation Solutions



INTEGRATION AND SOLUTIONS



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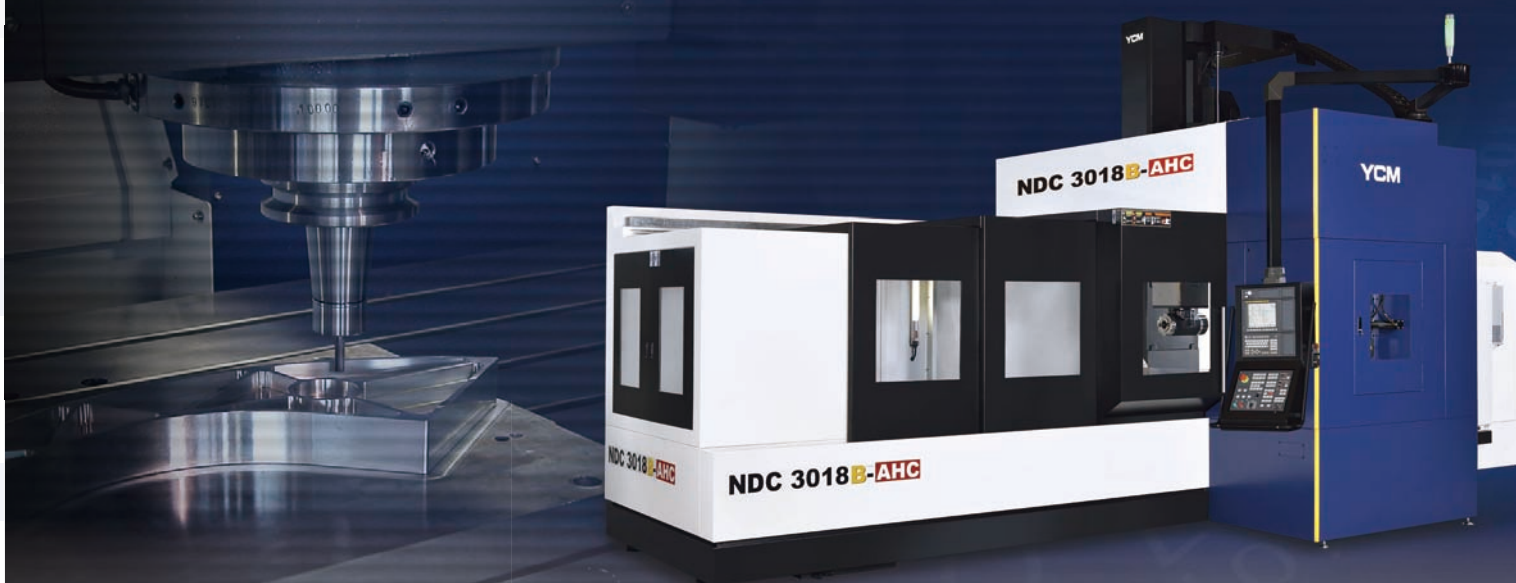
Email: [sales@YCMCNC.com](mailto:sales@YCMCNC.com)



201804-E03-3000

# NDC Series

High Efficiency Double Column Machining Center



# NDC 2016B / 3016B / 4016B

## High Efficiency Double Column Machining Center

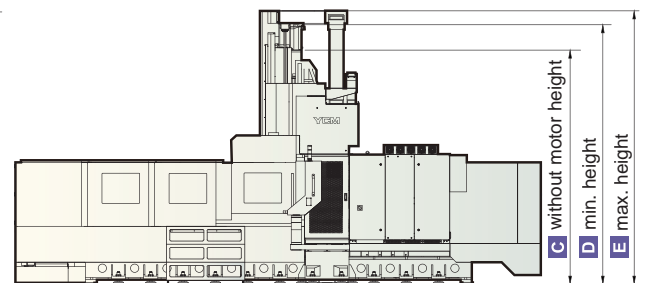
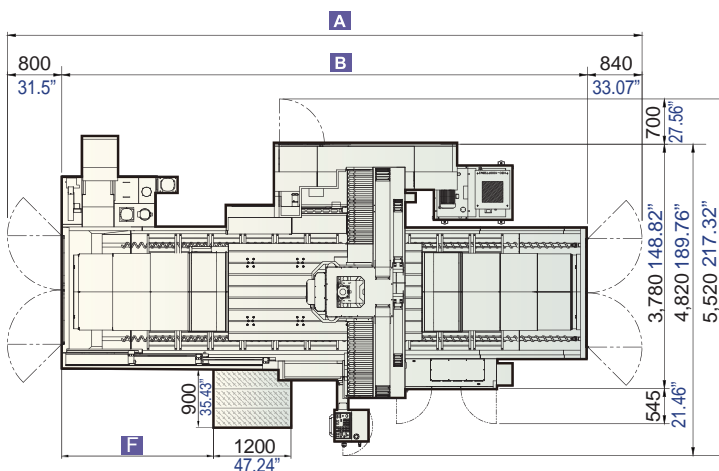
YCM persists on building the self-manufacturing capability and strict assembly inspection process for upgrading the NDC High Efficiency Double Column Machining Center to its limit of precision, rigidity and power.

### 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



Standard  
 (Raised Base 250mm 9.84")\*1  
 (Raised Base 250mm 9.84"+ Z-axis travel 40")\*2

Model	A	B	C	D	E	F
NDC 2016B	7,488 mm 294.8"	5,972 mm 235.12"	3,622 mm 142.6"	4,013 mm 157.99"	4,227 mm 166.42"	1345.5 mm 52.97"
NDC 3016B	9,820 mm 386.61"	8,132 mm 320.16"	(3,872 mm 152.44")*1	(4,263 mm 167.83")*1	(4,477 mm 176.26")*1	2,345.5 mm 92.34"
NDC 4016B	11,800 mm 464.57"	10,150 mm 399.61"	(4,122 mm 162.28")*2	(4,587 mm 180.59")*2	(4,972 mm 195.75")*2	3,363.5 mm 132.42"

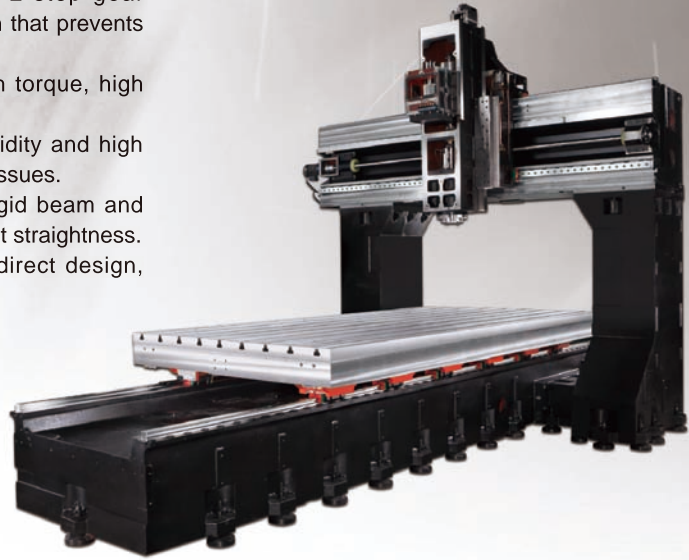
Note: Above specifications may vary depending on the machine and the surrounding environment. The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under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



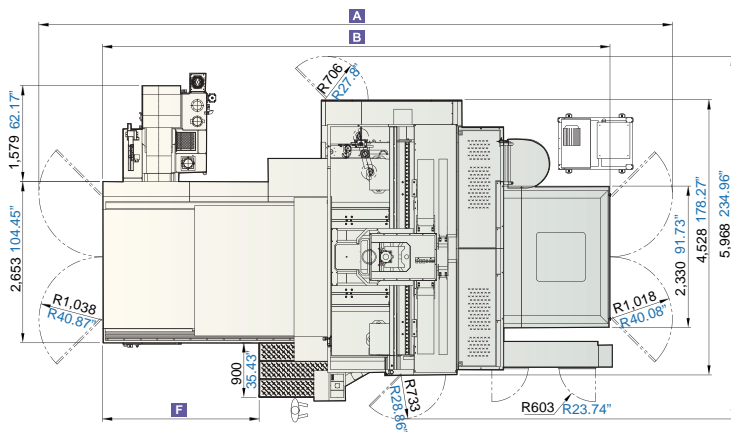
# NDC 3022B / 4022B

## High Efficiency Double Column Machining Center

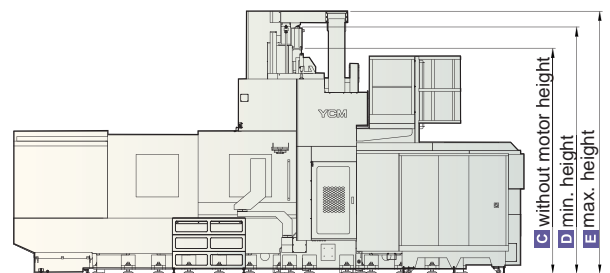
- The gear box is self-made which is powerful 2-step gear transmission as standard, with oil cooling lubrication that prevents temperature rise and noise.
- X-axis adopts direct gear drive that provides high torque, high transmission efficiency and low backlash.
- Z-axis head is boxway design that shows 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



\*Drawing is with "Full chip Enclosure"(opt.)



Standard  
 (Raised Column 250mm 9.84" )<sup>\*1</sup>  
 (Raised Column 250mm 9.84"+ Z-axis travel 40")<sup>\*2</sup>

Model	A	B	C	D	E	F
NDC 3022B	10,424 mm 410.39"	8,351 mm 328.78"	3,717 mm 146.34" (3,967 mm 156.18") <sup>*1</sup>	4,067 mm 160.12" (4,317 mm 169.96") <sup>*1</sup>	4,326 mm 170.32" (4,576 mm 180.16") <sup>*1</sup>	2,578 mm 101.5"
NDC 4022B	12,424 mm 489.13"	10,351 mm 407.52"	(4,217 mm 166.02") <sup>*2</sup>	(4,641 mm 182.72") <sup>*2</sup>	(5,059 mm 199.17") <sup>*2</sup>	3,578 mm 140.87"

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 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

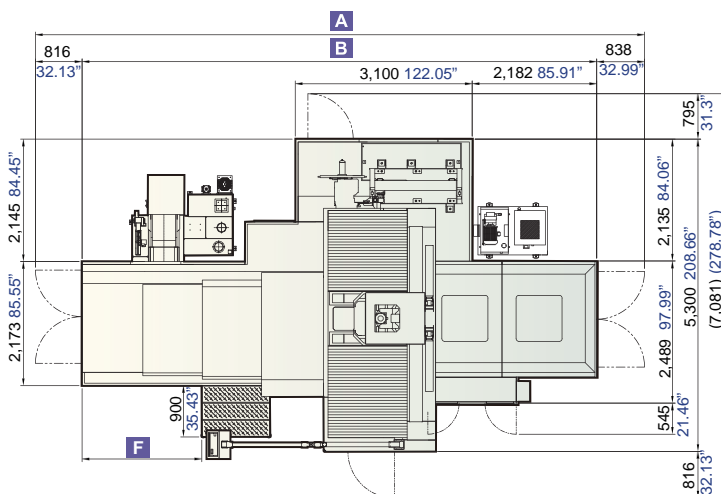
- Self-manufactured gearbox provides high torque for both vertical and horizontal machining
- High rigidity octagonal milling head design
- Quiet precision grounded bevel gear, adopts oil-mist lubrication to reduce heat
- Large diameter toothed clutches provide high machining stability, precision and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

### Reliable AHC Vertical / Horizontal Automatic Tool Change

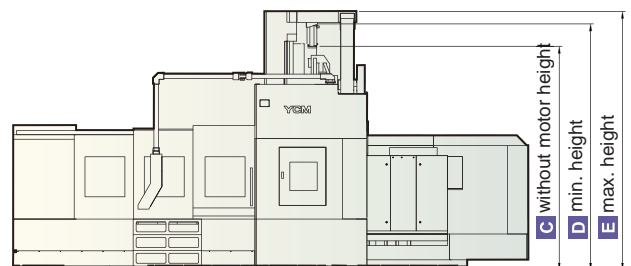
- Rotary head chamber design reduces space and provides rapid head change
- Automatic vertical / horizontal head change mechanism
- Reduce time for both fixture producing and workpiece installation, improving production efficiency
- Multi-face machining in one step increases machining efficiency and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



### ▶ NDC 2018B / 3018B / 4018B -AHC



\*Drawing is with "Full chip Enclosure"(opt.)



Standard  
(Raised Column 250mm 9.84" )<sup>\*1</sup>  
(Raised Column 250mm 9.84"+ Z-axis travel 40")<sup>\*2</sup>

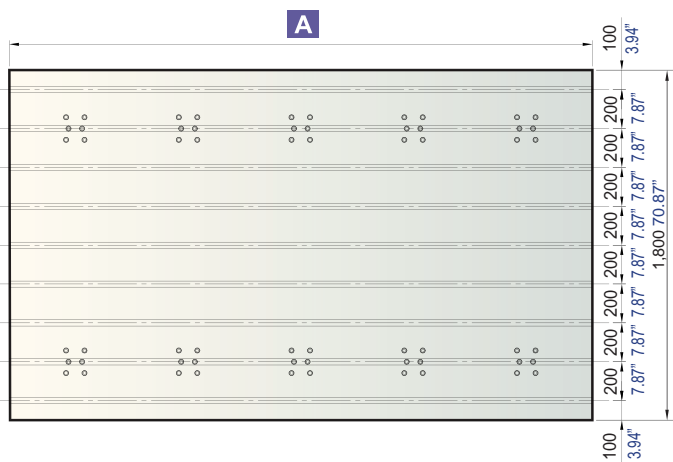
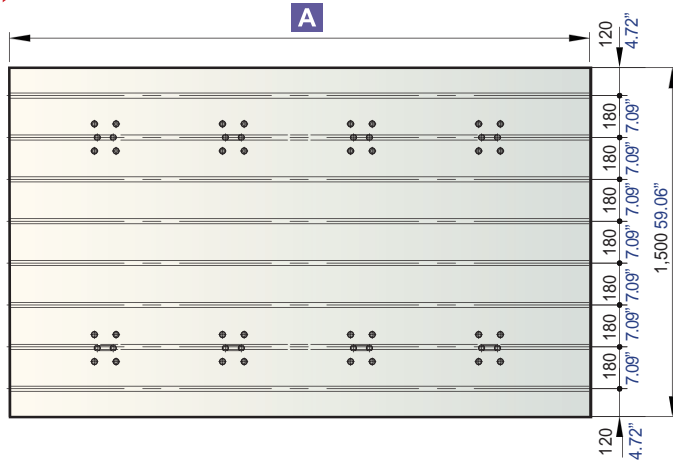
Model	A	B	C	D	E	F
NDC 2018B-AHC	8,530 mm 335.83"	6,876 mm 270.71"	3,922 mm 154.41"	4,313 mm 169.8"	4,533 mm 178.46"	1,117.5 mm 44"
NDC 3018B-AHC	10,670 mm 420.08"	9,016 mm 354.96"	3,922 mm 154.41" (4,172 mm 164.25") <sup>*1</sup>	4,313 mm 169.8" (4,563 mm 179.65") <sup>*1</sup>	4,533 mm 178.46" (4,783 mm 188.31") <sup>*1</sup>	2,097.5 mm 82.58"
NDC 4018B-AHC	13,010 mm 512.20"	11,356 mm 447.09"	(4,422 mm 174.09") <sup>*2</sup>	(4,813 mm 189.49") <sup>*2</sup>	(5,268 mm 207.4") <sup>*2</sup>	3,437.5 mm 135.33"

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.

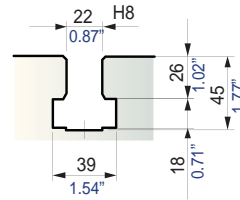
# DIMENSIONS

Unit: mm inch

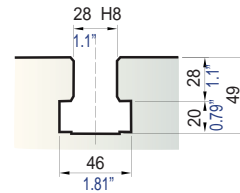
## ▶ TABLE SIZE



## ▶ 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  $\phi 125$  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  $\phi 160$  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  $\phi 63$  mm x 4T  
Spindle Speed 500 rpm  
Feedrate 200 mm/min.  
Width of Cut 63 mm

**U-DRILL S45C Steel**

Cutter Diameter

**$\phi 65$**   
mm



Tool  $\phi 65$  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  $\phi 125$  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  $\phi 160$  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  $\phi 63$  mm x 4T  
Spindle Speed 500 rpm  
Feedrate 200 mm/min.  
Width of Cut 63 mm

**U-DRILL S45C Steel**

Cutter Diameter

**$\phi 65$**   
mm



Tool  $\phi 65$  mm x 1T  
Spindle Speed 750 rpm  
Feedrate 180 mm/min.  
Depth of Cut 30 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.



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

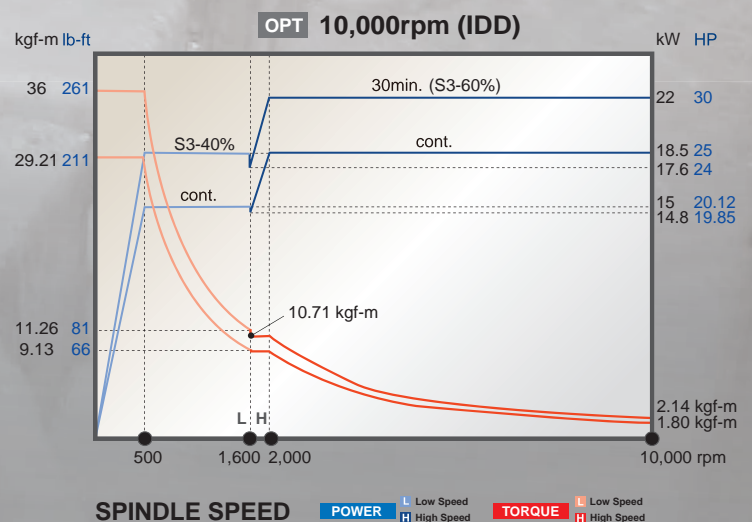
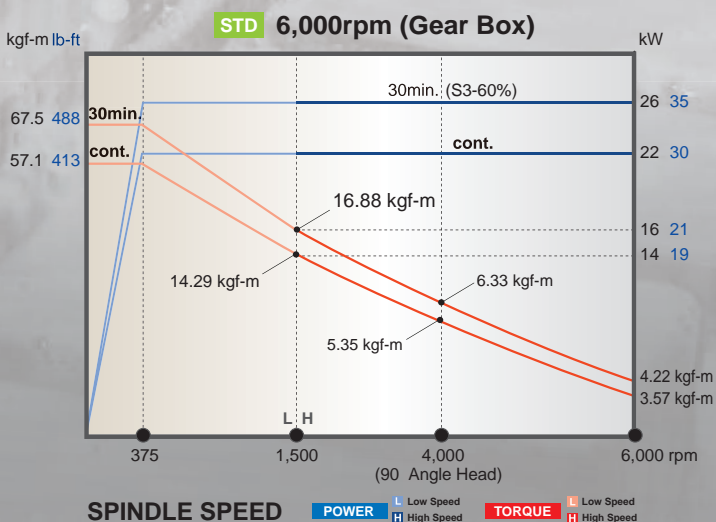
**TAP S45C Steel**

Tapping  
**M48**



Tool M48 x 5P  
Spindle Speed 45 rpm  
Feedrate 225 mm/min.  
Depth of Cut 35 mm

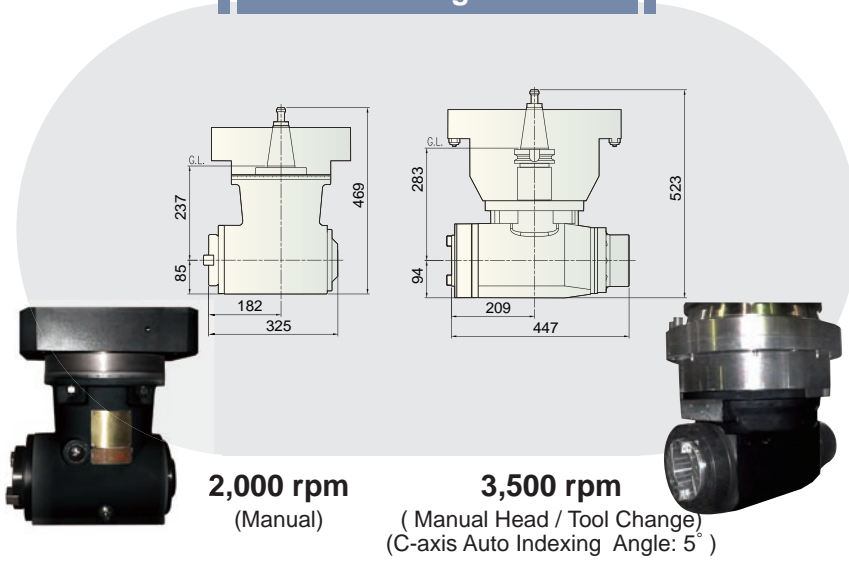
Note: Internal cutting test data are just for reference. This is tested for the max. machining capability of the machine, but not for the optimum tool life conditions.



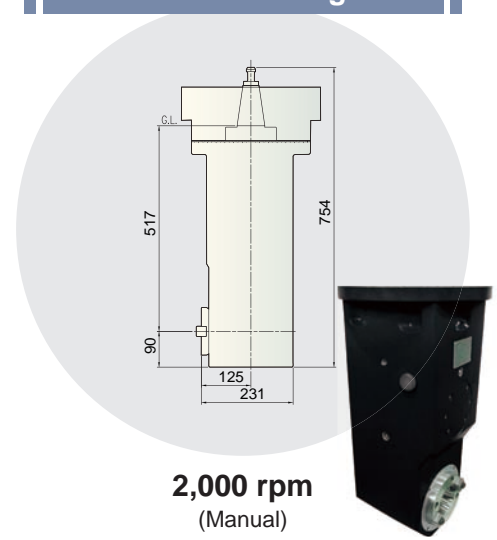


# MILLING HEAD

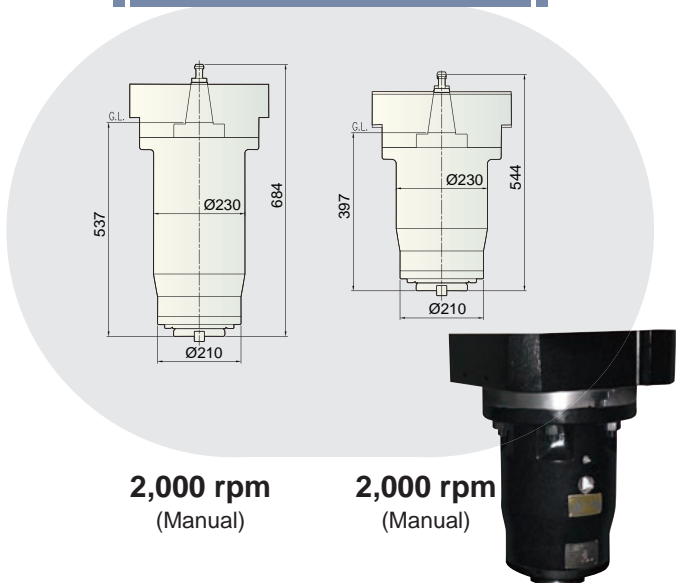
## 90° Milling Head



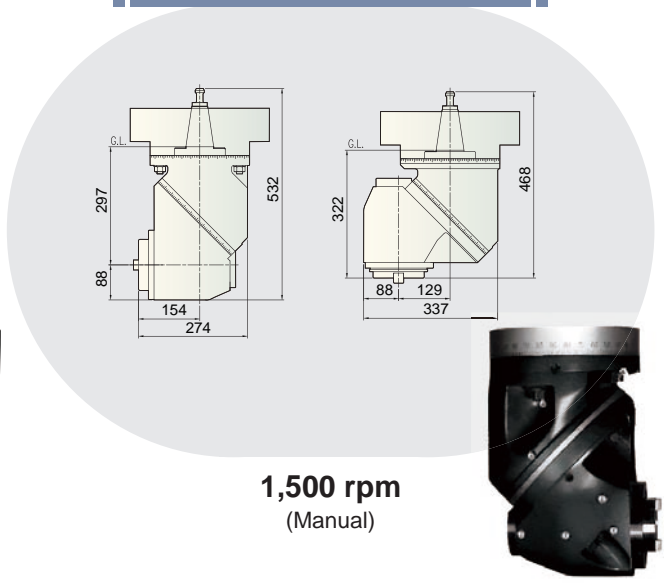
## Extended 90° Milling Head



## Extended Milling Head

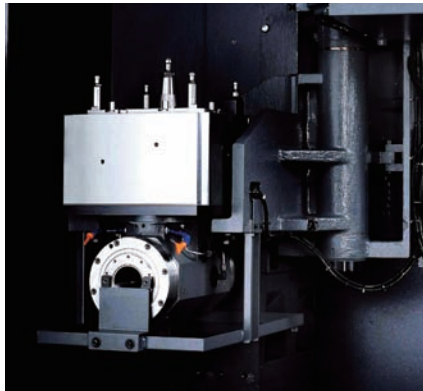


## Universal Milling Head

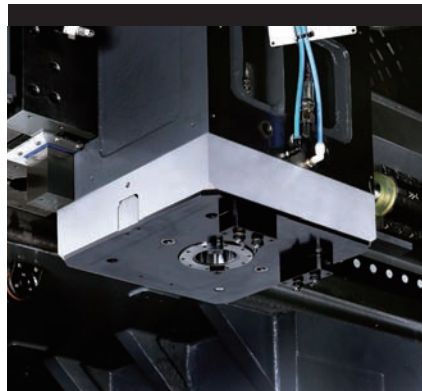


Note:

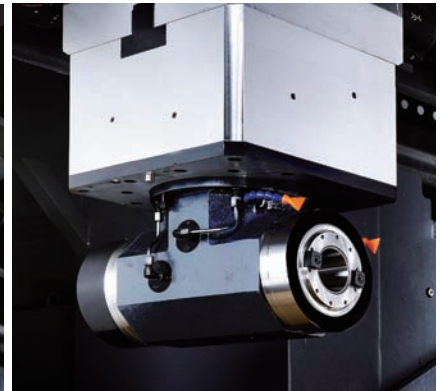
Milling heads shown above are optional exclusively for NDC 2016B, NDC 3016B, NDC 4016B, NDC 3022B, NDC 4022B with 6,000 rpm spindle (gearbox) and raised base 250mm.



■ 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, Work 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	●	●	●	●	●	●	●	●	
Raised Column 250mm 9.84"	○	○	○	—	—	—	—	—	
Raised Base 250mm 9.84"	—	—	—	○	○	○	○	○	
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)	—	—	—	—	—	●	●	●	
Extended Milling Head / 6,000 rpm (Auto) (500 mm 19.69")	—	—	—	—	—	○	○	○	
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 TNC 640	○	○	○	○	○	○	○	○	

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.



# SPECIFICATIONS

	NDC			NDC	
	2016B	3016B	4016B	3022B	4022B
<b>SPINDLE</b>					
Spindle Speed (opt.)	6,000 rpm (10,000 rpm)			6,000 rpm (10,000 rpm)	
Spindle Power / Torque (opt.)	26 kW / 67.5 kgf-m <b>35HP</b> (22 kW / 36.03 kgf-m <b>30HP</b> )			26 kW / 67.5 kgf-m <b>35HP</b> (22 kW / 36.03 kgf-m <b>30HP</b> )	
Spindle Taper	BBT50			BBT50	
<b>TRAVEL</b>					
X-axis Travel	2,200 mm 86.61"	3,200 mm 125.98"	4,200 mm 165.35"	3,200 mm 125.98"	4,200 mm 165.35"
Y-axis Travel	1,600 mm 62.99"			2,200 mm 86.61"	
Z-axis Travel (opt.)	762 mm 30" (1,016 mm 40")			762 mm 30" (1,016 mm 40")	
Distance Between Spindle Nose & Table Top (opt.)	200~962 mm 7.87"~37.87" (Raised Base 250 mm 9.84" : 450~1,212 mm 17.73"~47.72") (Z-axis Travel 1,016 mm 40" : 200~1,216 mm 7.87"~47.87")			200~962 mm 7.87"~37.87" (Raised Column 250 mm 9.84" : 450~1,212 mm 17.73"~47.72") (Z-axis Travel 1,016 mm 40" : 200~1,216 mm 7.87"~47.87")	
Distance Between Columns	1,800 mm 70.87"			2,200 mm 86.61"	
<b>TABLE</b>					
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"	3,000 x 1,800 mm 118.11" x 70.87"	4,000 x 1,800 mm 157.48" x 70.87"
No. T-slots x Size x Pitch	8 x 22 mm x 180 mm 8 x 0.87" x 7.09"			9 x 28 mm x 200 mm 9 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	12,000 kg 26,455 lb	15,000 kg 33,069 lb
<b>FEEDRATE</b>					
Rapid Feedrate (X/Y/Z)	20/20/15 m/min 787/787/591 ipm		15/20/15 m/min 591/787/591 ipm	15/20/15 m/min 591/787/591 ipm	15/20/15 m/min 591/787/591 ipm
Cutting Feedrate	1~10,000 mm/min. 0.04~394 ipm			1~10,000 mm/min. 0.04~394 ipm	
<b>ATC</b>					
Tool Magazine Capacity (opt.)	32T (40 / 60T)			32T (40 / 60T)	
Max. Tool Weight	20 kg 44 lb			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")			ø125 x 350mm ø4.92" x 13.78" (ø240 x 350mm ø9.45" x 13.78")	
Tool Changer Method	Arm Type			Arm Type	
Tool Selection Method	Random			Random	
<b>GENERAL</b>					
Pneumatic Supplier	5.5 kg/cm <sup>2</sup> 78.2psi			5.5 kg/cm <sup>2</sup> 78.2psi	
Power Consumption (Transformer)	72 kVA (80 kVA)			6,000 rpm : 86 (100) kVA 10,000 rpm : 79 (80) kVA	
Machine Weight	23,000 kg 50,706 lb	26,000 kg 57,320 lb	29,000 kg 63,933 lb	33,500 kg 73,854 lb	36,500 kg 80,468 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. The data for Power Consumption (Transformer) is standard, and different spindle motor may vary from those stated here. If you have any questions about other CNC controllers, please contact YCM sales representative.

	NDC		
	2018B-AHC	3018B-AHC	4018B-AHC
<b>SPINDLE</b>			
Spindle Speed (V / H)	6,000 rpm / 4,000 rpm		
Spindle Power / Torque	26 kW / 67.5 kgf-m 35HP		
Spindle Taper	BBT50		
<b>TRAVEL</b>			
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 (opt.)	762 mm 30" (1,016 mm 40")		
Distance Between Spindle Nose & Table Top (V / H) (opt.)	500~1,262 / 130~892 mm 19.69"~49.69" / 5.12"~35.12" (Raised Column 250 mm 9.84" : 750~1,512 / 380~1,142 mm 29.53"~59.53" / 14.96"~44.96") (Z-axis Travel 1,016 mm 40" : 500~1,516 / 130~1,146 mm 19.69"~59.69" / 5.12"~45.12")		
Distance Between Columns	1,800 mm 70.87"		
<b>TABLE</b>			
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
<b>FEEDRATE</b>			
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		
<b>ATC</b>			
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	Fix Pull Pot		
<b>GENERAL</b>			
Pneumatic Supplier	5.5 kg/cm <sup>2</sup> 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. The data for Power Consumption (Transformer) is standard, and different spindle motor may vary from those stated here. If you have any questions about other CNC controllers, please contact YCM sales representative.

## 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

