



USER FRIENDLY GLOBAL STANDARD TURNING CENTER

# PUMA DNT

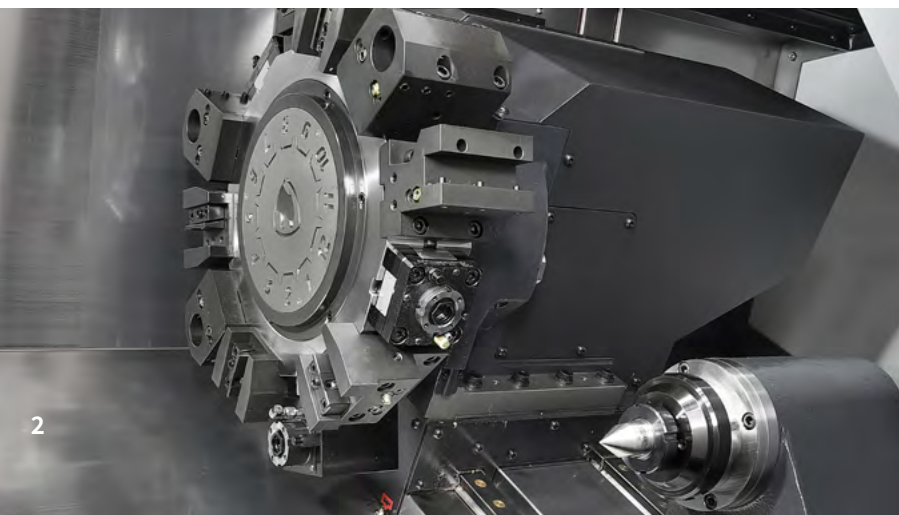
2100 • 2600



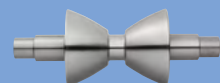
**DN SOLUTIONS**

# PUMA DNT2100 · 2600

PUMA DNT Series is an 8/10-inch chuck size turning center range that sets new global standards. The Series is equipped with the most powerful spindle in its class and an innovative tool post concept that guarantees powerful and precise machining and exceptional productivity. The design of the PUMA DNT Series focuses on convenient operation and easy maintenance.



Sample





## HIGH RIGIDITY

PUMA DNT series ensures stability and has powerful cutting capabilities and features a box guideway structure and the highest spindle power in its class

## IMPROVE THE USABILITY

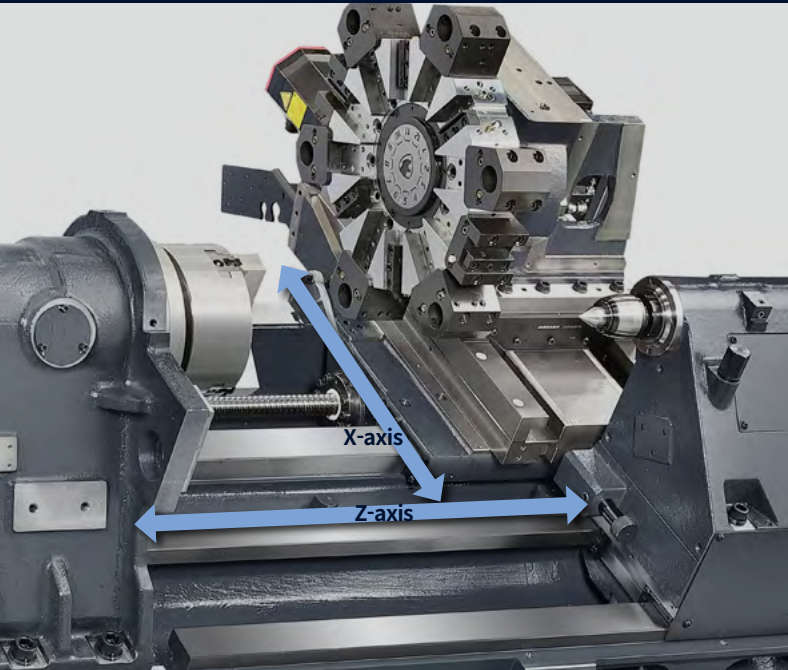
PUMA DNT series improve the user environments like adjustable operation panel, Quill detection sensor, IHMI touch and so on.

## HIGH ACCURACY

PUMA DNT series improve the machining accuracy by adopting the thermal compensation function(option) and by optimizing the spindle structure.

# BASIC STRUCTURE

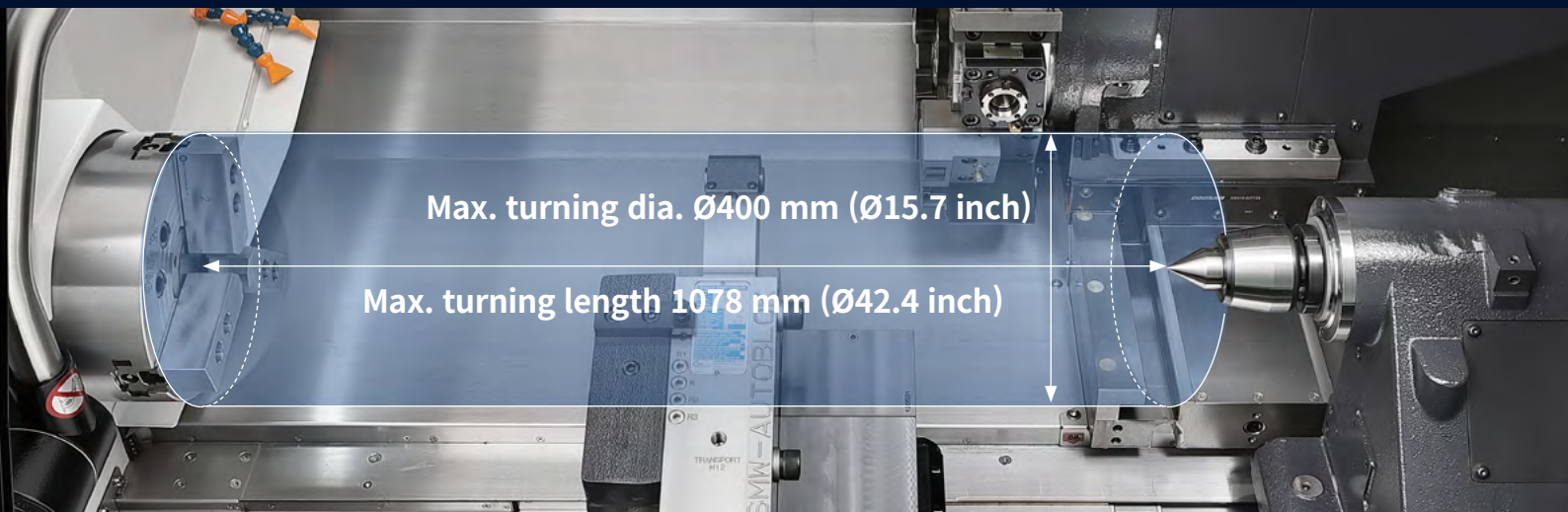
Box guideways are applied to all axes to prevent vibration, ensure dynamic rigidity, and deliver powerful and precise machining.



Models	Standard chuck size (inch)	Travel (mm(inch))		Rapid traverse rate (m/min (ipm))	
		X-axis	Z-axis	X-axis	Z-axis
PUMA DNT2100/M	8"	230 (9.1)	580 (22.8)	24 (9944.9)	30 (1181.1)
PUMA DNT2100B/MB	10"				
PUMA DNT2600/M	10"	260 (10.2)	680 (26.8)		
PUMA DNT2600L/LM	10"				

# MACHINING AREA

PUMA DNT Series machines have the largest machining areas their class and deliver maximum productivity with minimum cost.



Units : mm (inch)

Models	Bar working diameter	Max. turning diameter	Max. turning length
PUMA DNT2100	Ø67 (Ø2.6)	400 (15.7)	562 (22.1)
PUMA DNT2100M		320 (12.6)	513 (20.2)
PUMA DNT2100B		400 (15.7)	550 (21.7)
PUMA DNT2100MB		320 (12.6)	501 (19.7)
PUMA DNT2600	Ø81 (Ø3.2)	460 (18.1)	658 (25.9)
PUMA DNT2600M		380 (15.0)	610 (24.0)
PUMA DNT2600L		460 (18.1)	1078 (42.4)
PUMA DNT2600LM		380 (15.0)	1030 (40.6)



# SPINDLE

Design and use of a low inertia spindle improves acceleration /deceleration rates while at the same time increasing productivity and delivering powerful cutting performance.

## Max. spindle speed

PUMA DNT2100

**4500** r/min

## Max. spindle power

PUMA DNT2600

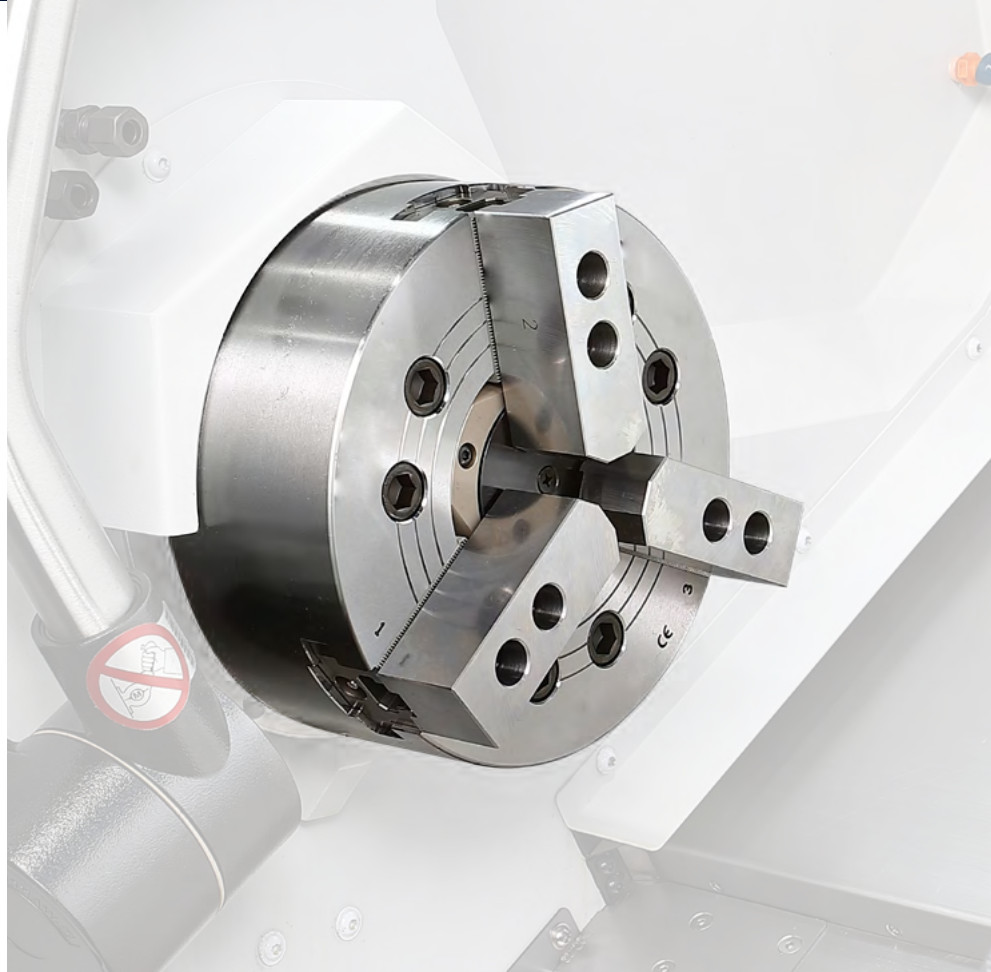
**26** kW 34.9 Hp

## Max. spindle torque

PUMA DNT2600

**735** N·m 542.4 ft-lbs

Models	Spindle speed (r/min)	Power (kW(Hp))	Torque (N·m (ft-lbs))
PUMA DNT2100/M	4500	18.5/15 (24.8/20.1)	328 (242.1)
PUMA DNT2100M (High torque) <small>OPTION</small>			378 (279.0)
PUMA DNT2100B/MB	3500	18.5/15 (24.8/20.1)	403 (297.4)
PUMA DNT2600/M	3500	26/18.5 (20.1/34.9)	735 (542.4)
PUMA DNT2600L/LM			735 (542.4)



# TAILSTOCK

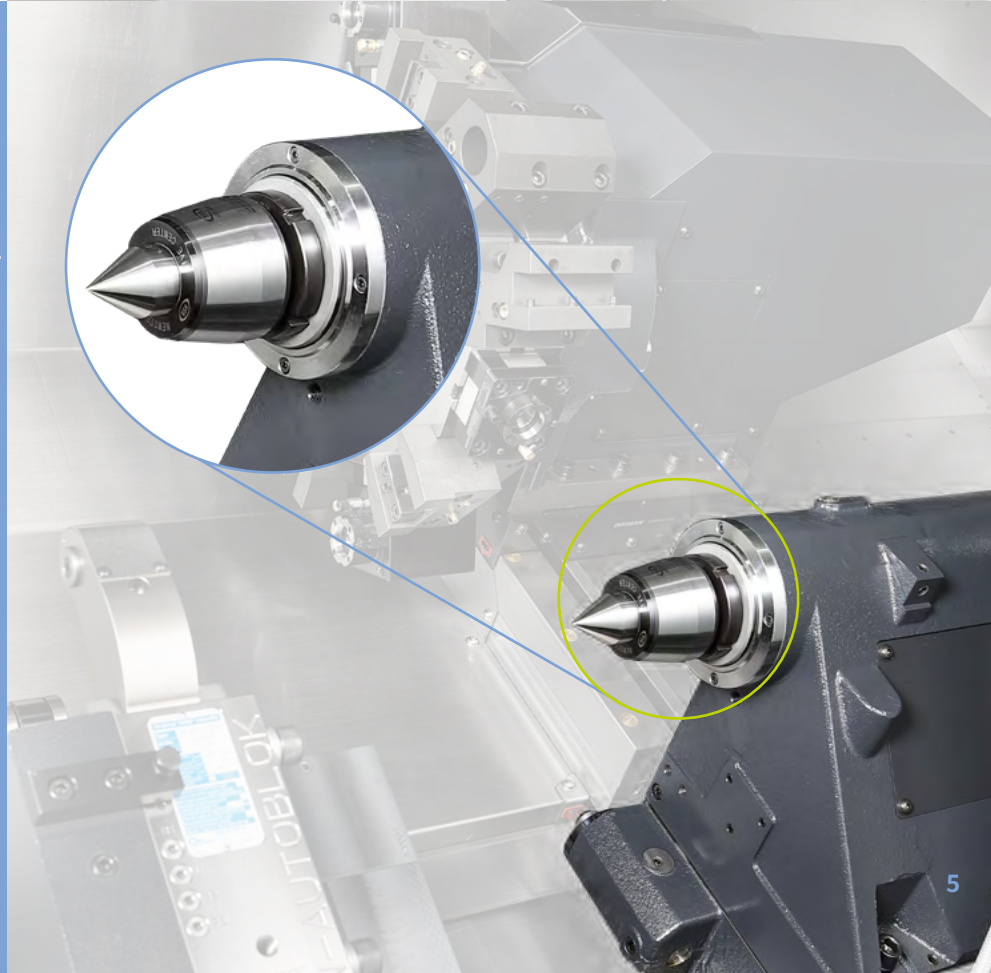
A highly-rigid tailstock is used to support the machining of long and thin workpieces.

## Manual

**Programmable/Hydraulic** OPTION

**Servo driven** OPTION

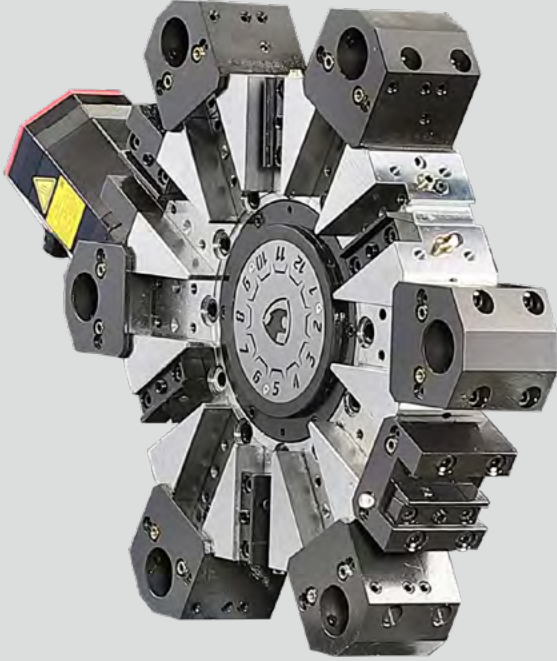
Models	Tailstock center (Live)	Tailstock travel mm (inch)
PUMA DNT2100/M	MT #4	580 (22.8)
PUMA DNT2100B/MB		
PUMA DNT2600/M	MT #5	680 (26.8)
PUMA DNT2600L/LM		1100 (43.3)



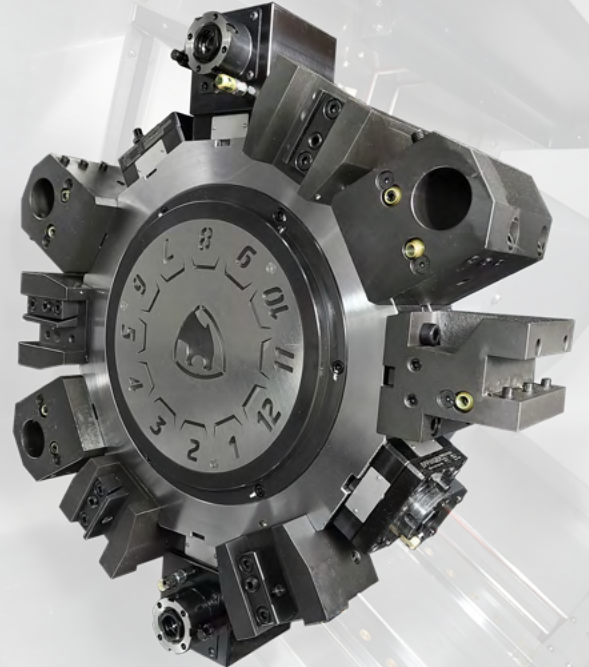
# TURRET

Turret rotation is controlled by a servo motor for prompt and correct selection of tools. The milling turret, including rotary tools, features the BMT design for higher rigidity. DN solutions ensures best-in-class milling drilling and tapping.

## 2 axis turret



## BMT55P



### Number of tool stations

PUMA DNT2100/DNT2600

**10/12/12** (24 position) st.

		PUMA DNT2100	PUMA DNT2100B	PUMA DNT2600/L	Remarks
Number of tool station	12 st.	●	○	○	-
	12 st. (24 position)	○	○	○	-
	10 st.	○	●	●	-

### BMT milling turret

## BMT55P

## BMT65P OPTION

		PUMA DNT2100M	PUMA DNT2100MB	PUMA DNT2600M/LM	Remarks
Number of tool station	12 st.	●	●	●	-
	12 st. (24 position)	○	○	○	-
BMT	BMT55P	●	●	●	12 st./12 st. (24 position) selectable
	BMT65P	○	○	○	12 st.
Rotary tool	6000 r/min/5.5kW (BMT55P)	●	●	●	12 st./12 st. (24 position) selectable
	10000 r/min/7.5kW (BMT55P)	○	○	○	12 st./12 st. (24 position) selectable
	5000 r/min/5.5kW (BMT65P)	○	○	○	12 st.

### Rotary tool motor poser

BMT55P/BMT65P

**5.5 kW** 7.4 Hp

### Rotary tool speed

BMT55P

**6000** r/min

**10000** r/min OPTION


# STANDARD | OPTIONAL SPECIFICATIONS

A range of options is available to suit individual requirements.

Description	Feature	PUMA DNT2100	PUMA DNT2100M	PUMA DNT2100B	PUMA DNT2100MB	PUMA DNT2600/L	PUMA DNT2600M/LM
Chuck	8 inch	●	●	-	-	-	-
	10 inch	○	○	●	●	●	●
	12 inch	-	-	-	-	○	○
	Non-chuck	○	○	○	○	○	○
Jaw	Soft jaw	●	●	●	●	●	●
	Hard jaw	○	○	○	○	○	○
Spindle	Standard	●	●	●	●	●	●
	High torque	○	○	-	-	-	-
Turret	10ST	○	-	●	-	●	-
	12ST	●	-	○	-	○	-
	12ST_BMT55P_6,000 r/min	-	●	-	●	-	●
	12ST_BMT55P_10,000 r/min	-	○	-	○	-	○
	12ST(24 POSITION)_BMT55P_6,000 r/min	-	○	-	○	-	○
	12ST(24 POSITION)_BMT55P_10,000 r/min	-	○	-	○	-	○
Chucking option	12ST_BMT65P_5,000 r/min	-	○	-	○	-	○
	DUAL PRESSURE CHUCKING	○	○	○	○	○	○
	CHUCK CLAMP CONFIRMATION	○	○	○	○	○	○
Steady rest	PRESSURE SWITCH FOR CHUCKING PRESSURE CHECK	○	○	○	○	○	○
	Hydraulic	○	○	○	○	○	○
	Programmable	○	○	○	○	○	○
	Manual	○	○	○	○	○	○
Tailstock	V stand V stand for shaft workpiece	○	○	○	○	○	○
	Hydraulic	●	●	●	●	●	●
	Programmable	○	○	○	○	○	○
	Servo driven	○	○	○	○	○	○
	Non-tailstock	○	○	○	○	○	○
	Live center(MT#4)	●	●	●	●	●	●
Coolant pump	Dead center(MT#3)	○	○	○	○	○	○
	1.5 bar	●	●	●	●	●	●
	Increase power (4.5/7/10/14.5/20/70 bar)	○	○	○	○	○	○
Coolant options	add coolant pump(for option) 4.5 bar	○	○	○	○	○	○
	Oil skimmer	○	○	○	○	○	○
	Coolant chiller	○	○	○	○	○	○
	Coolant pressure switch	○	○	○	○	○	○
	Coolant level switch	○	○	○	○	○	○
	Chuck coolant	○	○	○	○	○	○
Chip disposal options	Coolant gun	○	○	○	○	○	○
	Side type chip conveyer	○	○	○	○	○	○
	Rear type chip conveyer	○	○	○	○	-	-
	Chip bucket	○	○	○	○	○	○
	Chip aire blower	○	○	○	○	○	○
	Mist collector interface	●	●	●	●	●	●
Measuring & Automation	Integrated mist collector	○	○	○	○	○	○
	Tool setter (Manual)	○	○	○	○	○	○
	Tool setter (Automatic)	○	○	○	○	○	○
	Tool setter(Removable)	○	○	○	○	○	○
	Part catcher with parts box	○	○	○	○	○	○
	Part catcher with parts conveyer	○	○	○	○	○	○
	Auto door	○	○	○	○	○	○
	Bar feeder interface	○	○	○	○	○	○
Others	Tool load monitoring system	○	○	○	○	○	○
	Linear scale (X/Z)	○	○	○	○	○	○
	Signal tower	○	○	○	○	○	○
	Air gun	○	○	○	○	○	○
	Automatic Power off	○	○	○	○	○	○
	Thermal compensation(sensor type)	○	○	○	○	○	○
	Sketch turn S/W	○	○	○	○	○	○
Customized special options	Top protection cover	○	○	○	○	○	○
	Tool kit(l-lench/spanner)	○	○	○	○	○	○
	Tsc for main spindle_preparation	○	○	○	○	○	○
	Chuck pressure switch	○	○	○	○	○	○
	Automatic top door	○	○	○	○	○	○
	Guide way wiper_for dry cutting	○	○	○	○	○	○
Customized special options	Coolant shower	○	○	○	○	○	○
	Workpiece measuring system	○	○	○	○	○	○
	Quick change tooling (CAPTO)	○	○	○	○	○	○

Please contact your DN Solutions representative for detailed machine information.

● standard features ○ option △ Pre-discussion is required X Not available

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



# PERIPHERAL EQUIPMENT

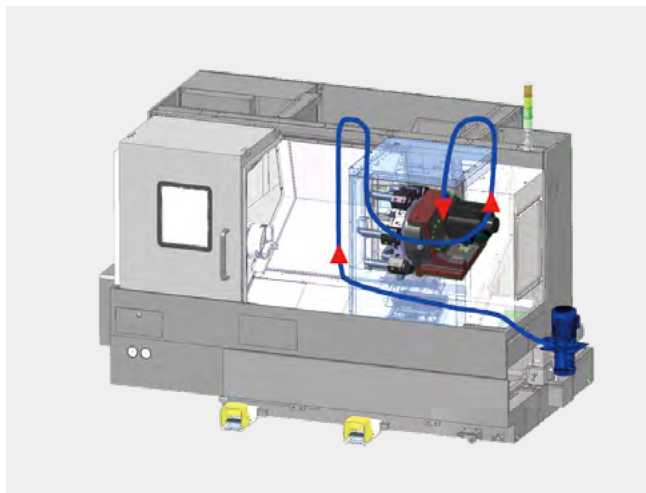
## Chip conveyor OPTION

If the user select the chip conveyor, DN Solutions provides it with an inverter that can be adjustable speed type . By selecting the correct type of conveyor, the efficiency of the machine is increased.



Chip conveyor type	Material	Description
Hinged belt	Steel	Most common type of chip conveyor. Appropriate for steel materials generating chips with a length of 30mm or more.
Magnetic scraper	Cast iron	Chip conveyor with magnet scraper : Appropriate for cast iron workpieces generating fine chips

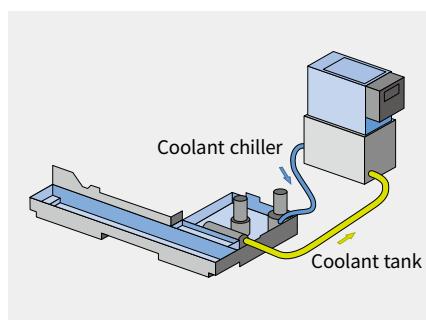
## Coolant system



Coolant pump	Output pressure (bar)		Filter	Std./Opt.
	60Hz	50Hz		
pump1	1.5	1	Screen filter	std.
pump2	4.5	3		
pump3	7	5		
pump4	10	7		
pump5	14.5	10		
pump6	20	20	Dual bag filter	opt.
pump7	70	70		

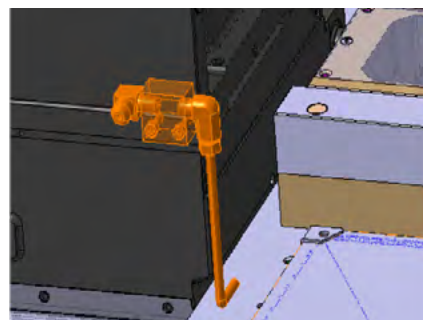
## Coolant chiller (recommended) OPTION

A coolant chiller is recommended to help prevent temperature rises and to reduce thermal deformation when using a water-insoluble coolant or high-pressure coolant system (i.e., power over 1.5kW).



## Tailstock chip flushing OPTION

Chip remover with coolant around the tailstock.



## Oil skimmer OPTION

The oil skimmer keeps coolant and lubricant isolated from each other and extends the life cycle of the coolant.

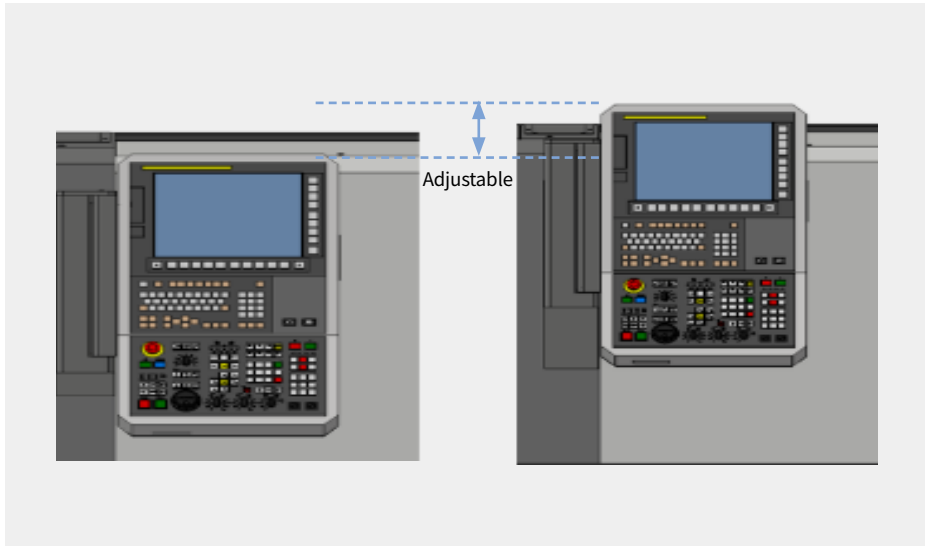




# PERIPHERAL EQUIPMENT

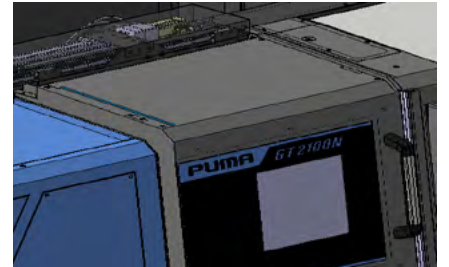
## Adjustable operation pannel OPTION

OP(Operation Pannel) can be adjusted up and down in 3 steps. So anyone can operate conveniently, even if the worker is changed often .



## Servo type auto door OPTION

It is possible to control the speed and to set the stop position that the user wants in the middle of door. So it could be help reduce the cycle time.



## Mist collector OPTION

The mist collector absorbs airborne oil vapor and fine dust particles in the system to improve the working environment.



## Tool setter OPTION

There are Manual / Removable /Electric(Auto) types. The tool setter facilitates the setting of tools and the fast and precise measurement of abraded tools



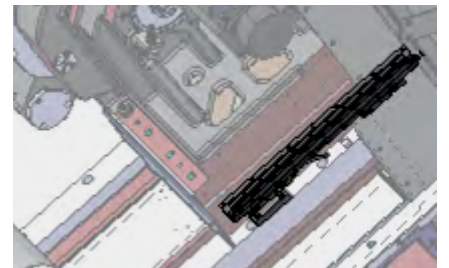
## Quick change CAPTO OPTION

The Quick Change Tool system simplifies tool change operations. It is recommended for users who need to change tools frequently or significantly reduce set-up times.



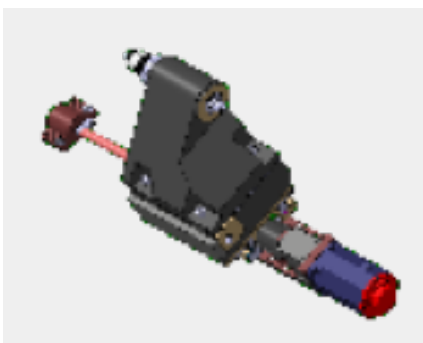
## Linear scale (X axis/Z axis) OPTION

Linear scales are available for all axes and deliver increased accuracies.



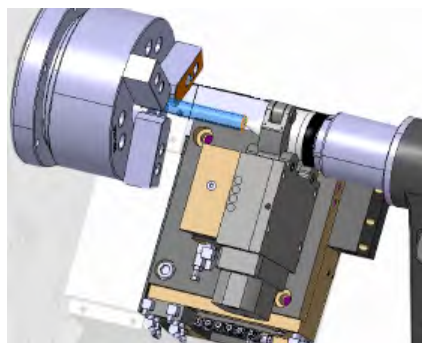
## Servo tailstock OPTION

It can be reducing the cycle time because it moves independently from any other units. And it moves minutely. The servo type tailstock can drill the workpiece.



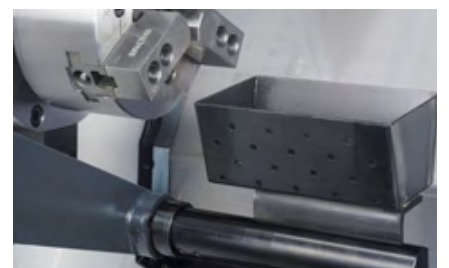
## Steadyrest OPTION

There are many types of hydraulic/ Programmable/Manual . The user can machine the short length workpiece without the removal of steadyrest.



## Part catcher OPTION

The Part Catcher automatically catches finished parts and transfers them securely to downstream processes.



# DN SOLUTIONS FANUC i PLUS

DN Solutions Fanuc i Plus maximizes customer productivity and convenience.

## 15" Screen + New OP

DN Solutions Fanuc i Plus' operation panel enhances operating convenience by incorporating common-design buttons and layout. It features a Qwerty keyboard for fast and easy data input and operation.

### DN Solutions Fanuc i Plus

- 15-inch color display
- Intuitive and user-friendly design

### USB and PCMCIA card QWERTY Keyboard

- EZ-guide i standard
- Ergonomic operator panel
- 2MB Memory
- Hot keys



### iHMI touchscreen

iHMI provides an intuitive interface that uses a touchscreen for quick and easy operation.

### Range of applications

Providing various applications related to planning, machining, improvement and utility, for customer convenience.

## SKETCH-TURN

### DN Solutions Conversational programming software for PC

- Easy to learn for beginners
- Time savings in programming
- Reduce processing cycle time



FANUC

Division	Item	Specifications	2-Axis	M
			DN Solutions Fanuc i Plus	DN Solutions Fanuc i Plus
Controlled axis	Controlled axes		2(X,Z)	3(X,Z,C)
	Simultaneously controlled axes		2 axes	3 axes
Data input/output	Fast data server		○	○
	Memory card input/output		●	●
	USB memory input/output		●	●
Interface function	Larger capacity memory_2GB		○	○
	Embedded Ethernet		●	●
	Fast Ethernet		○	○
	Enhanced Embedded Ethernet function		●	●
Operation	DNC operation	Included in RS232C interface.	●	●
	DNC operation with memory card		●	●
Program input	Workpiece coordinate system	G52 - G59	●	●
Feed function	AI contour control I	G5.1 Q_, 40 Blocks	○	○
	AI contour control II	G5.1 Q_, 200 Blocks	○	○
Operation Guidance Function	EZ Guidei (Conversational Programming Solution)		●	●
	iHMI with Machining Cycle		●	●
	EZ WORK		●	●
Setting and display	CNC screen dual display function		●	●
Network	FANUC MTConnect		✳	✳
	FANUC OPC UA		✳	✳
Others	Display unit	15" color LCD	X	X
		15" color LCD with Touch Panel	●	●
	Part program storage size & Number of registerable programs	640M(256KB)_500 programs	X	X
		5120M(2MB)_1000 programs	●	●

Network: FANUC MTConnect and FANUC OPC UA available.

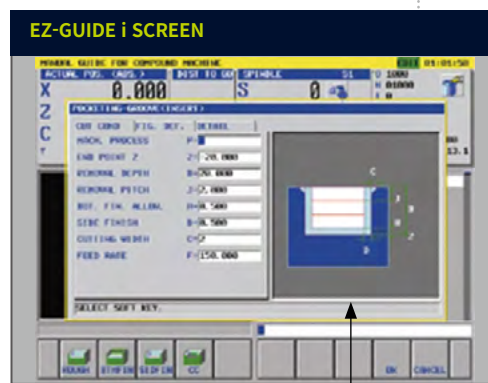
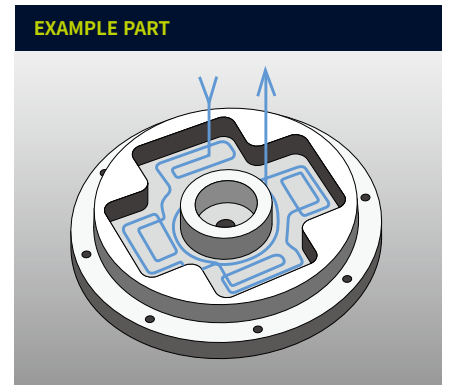
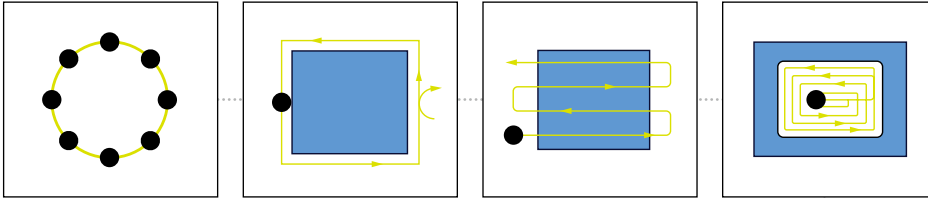
● Standard ○ Optional X N/A ✳ Available

# DN SOLUTIONS FANUC i PLUS

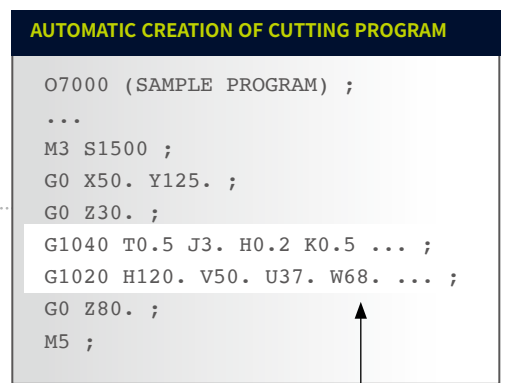
## EZ-Guide i

Using the DN Solutions EZ-Guide i, users can create a cutting program for any desired shape, including patterns, by entering just the dimensions.

EXAMPLE PROGRAMMING : CUTTING SHAPE



Enter the dimensions of the shape



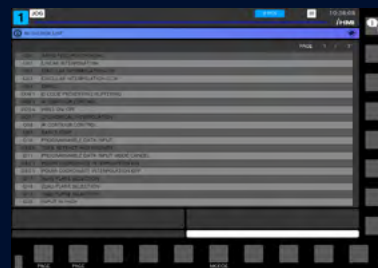
A cutting program is automatically created with the entered values.

## EZ Work



**Tailstock quill position detection function**  
The user can set the tailstock position minutely with sensor. This function is possible to recall the several positions that the user had set. It can reduce the setting time. (Manual/Programmable)

## Programming



**G code / M code**  
The user can check the explanation of G code and M code in EZ Work.



**Workpiece setting** OPTION  
By measuring the position of the workpiece, the user sets the offset manually or automatically.

## Operation / Maintenance



**Tool load monitoring**  
During cutting operation, abnormal load caused by wear or damage of the tool is detected and an alarm is triggered to prevent further damage.



**Thermal compensation** OPTION  
Sensors on structure check and calculate the displacements and compensate it beforehand.



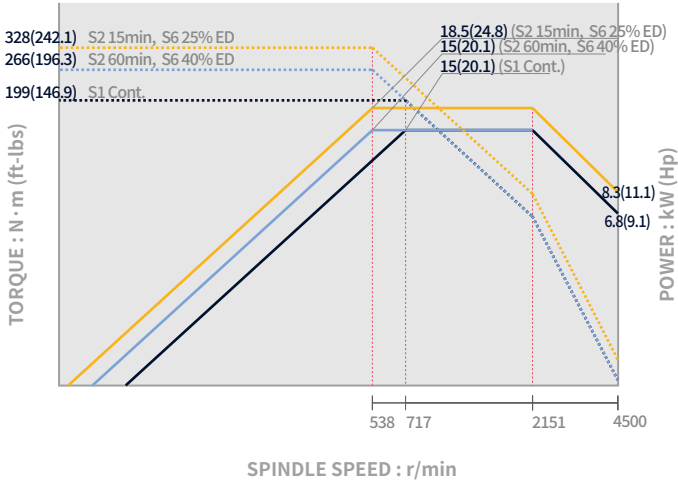
**Work management**  
The function is capable of checking operation hours of the system, and quantity of finished workpieces.



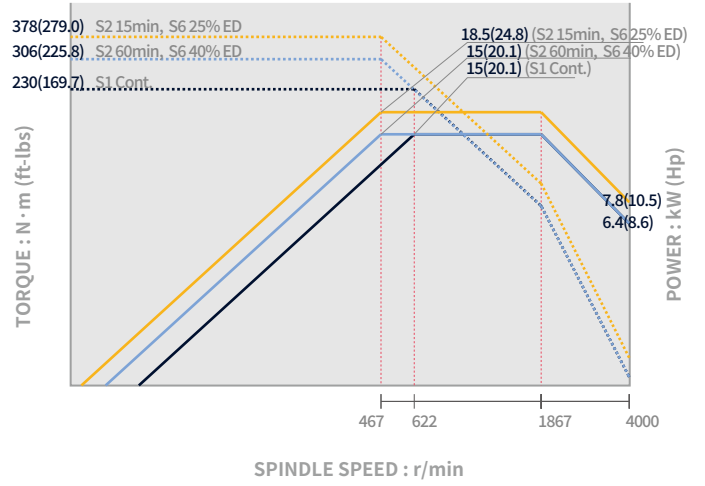
# POWER | TORQUE

## MAIN SPINDLE

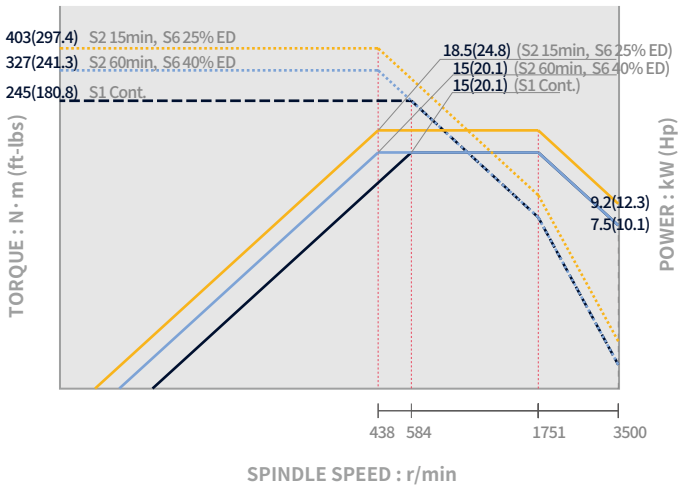
### PUMA DNT2100/M



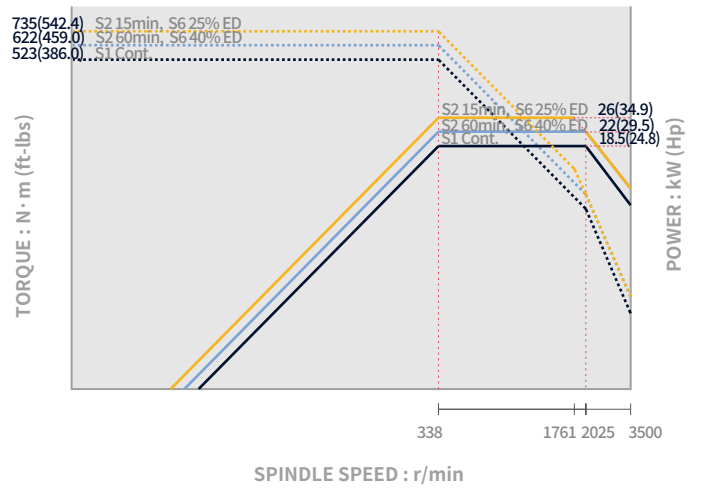
### PUMA DNT2100/M (High Torque) OPTION



### PUMA DNT2100B/MB



### PUMA DNT2600/M/L/LM



# POWER | TORQUE

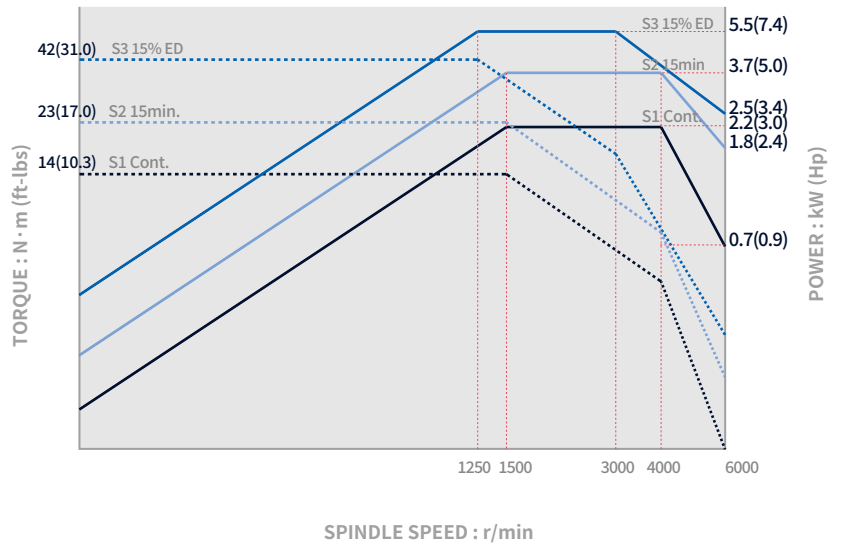
ROTARY TOOL\_PUMA DNT2100 M/2100MB/2600M/2600LM

## BMT55P / 6000 r/min

Max. spindle speed : **6000** r/min

Max. spindle power : **5.5** kW

Max. spindle torque : **42** N·m

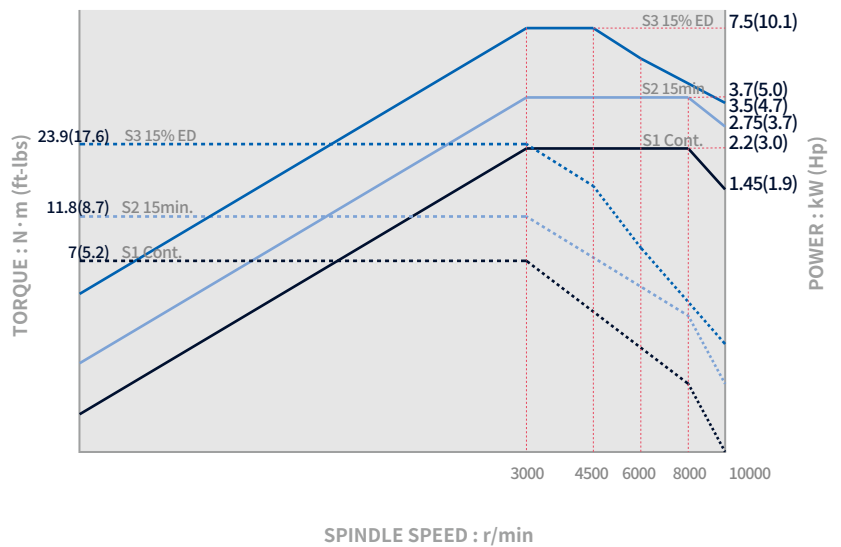


## BMT55P / 10000 r/min

Max. spindle speed : **10000** r/min

Max. spindle power : **7.5** kW

Max. spindle torque : **23.9** N·m

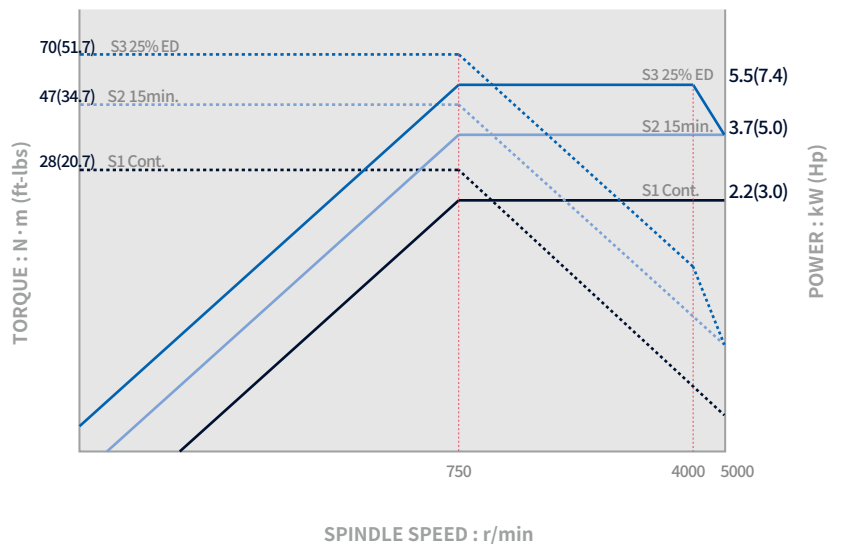


## BMT65P / 5000 r/min

Max. spindle speed : **5000** r/min

Max. spindle power : **5.5** kW

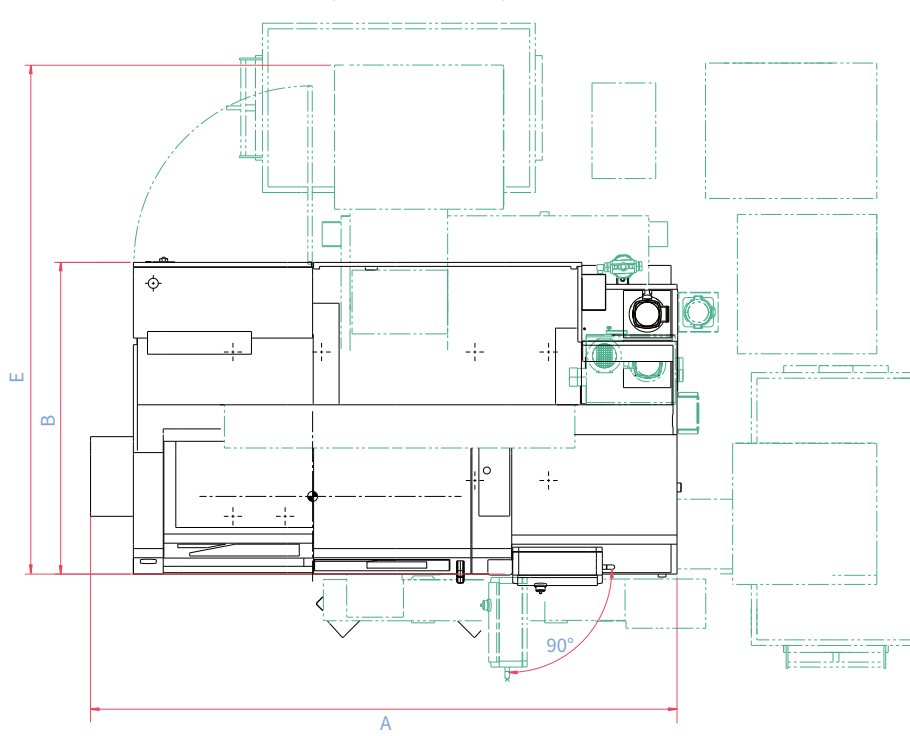
Max. spindle torque : **70** N·m



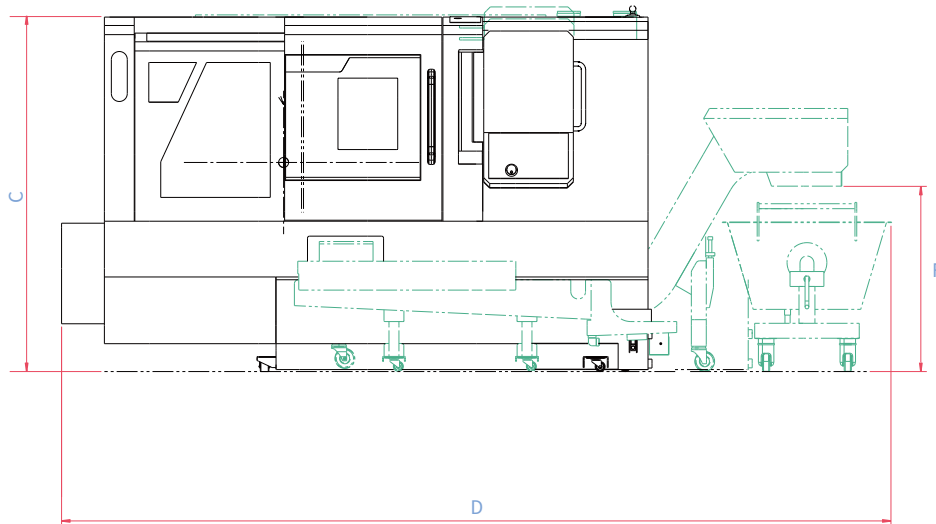
# EXTERNAL DIMENSIONS

PUMA DNT2100/2600/2600L series

TOP



FRONT



Units : mm (inch)

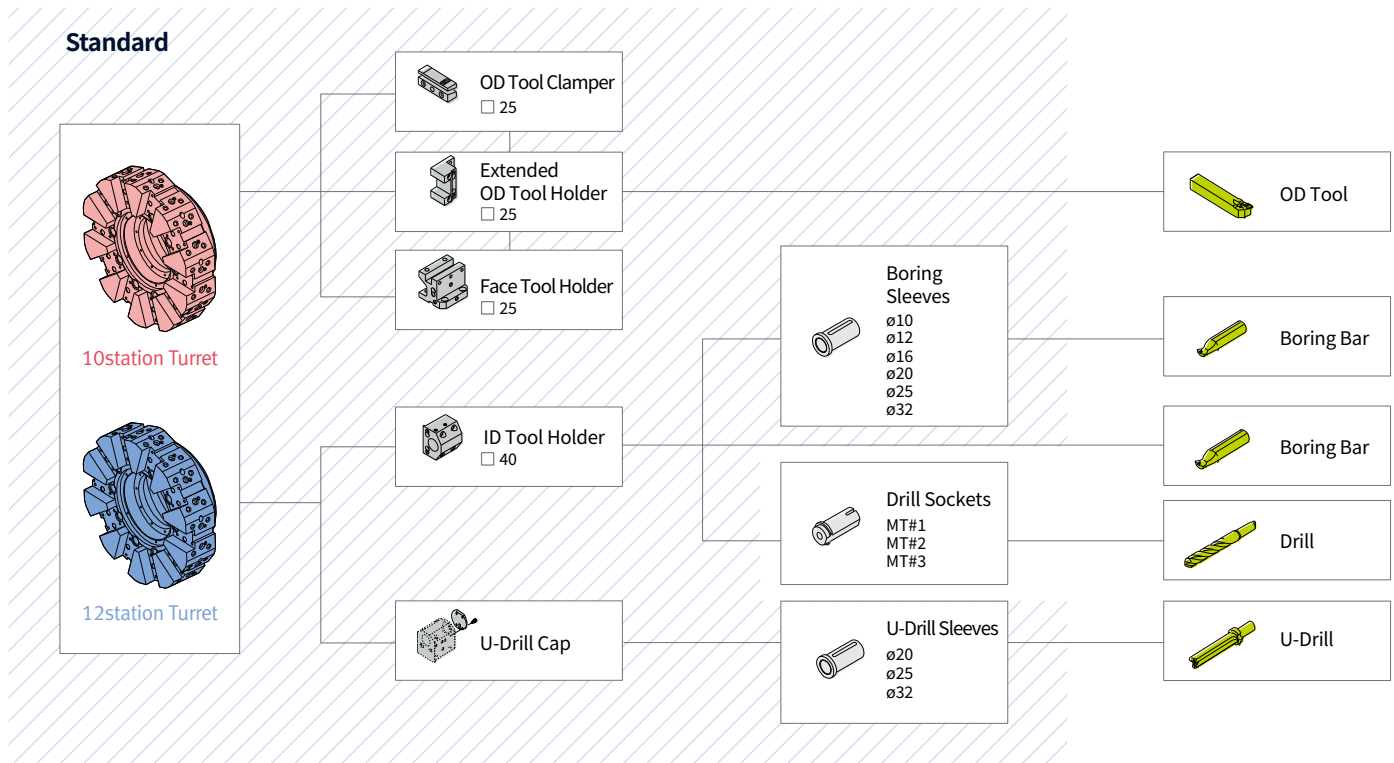
Model	A (Length)	B (Width)	C (Height)	D (Length with side type chip conveyor)	E (Width with rear type chip conveyor)	F (Height of chip outlet)**
PUMA DNT2100/B	2945 (115.9)	1664 (65.5)	1780 (70.1)	4165 (164.0)	2654 (104.5)	930 (36.6)
PUMA DNT2600	3355 (132.1)	1729 (68.1)	1780 (70.1)	4363 (171.8)	2897 (114.1)	918 (36.1)
PUMA DNT2600L	3800 (149.6)	1839 (72.4)	1780 (70.1)	4915 (193.5)	-	918 (36.1)



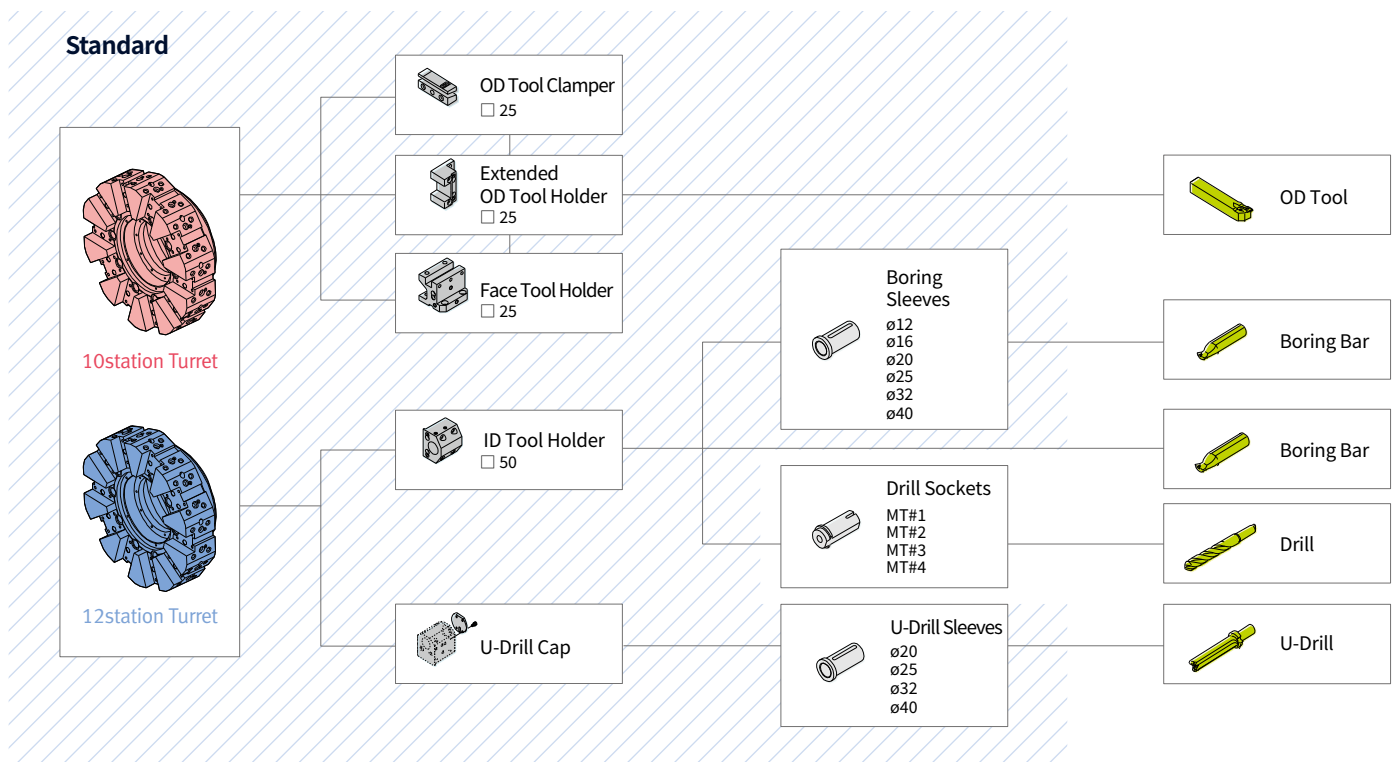
# TOOLING SYSTEM

## PUMA DNT2100/B\_2axis

Units : mm (inch)



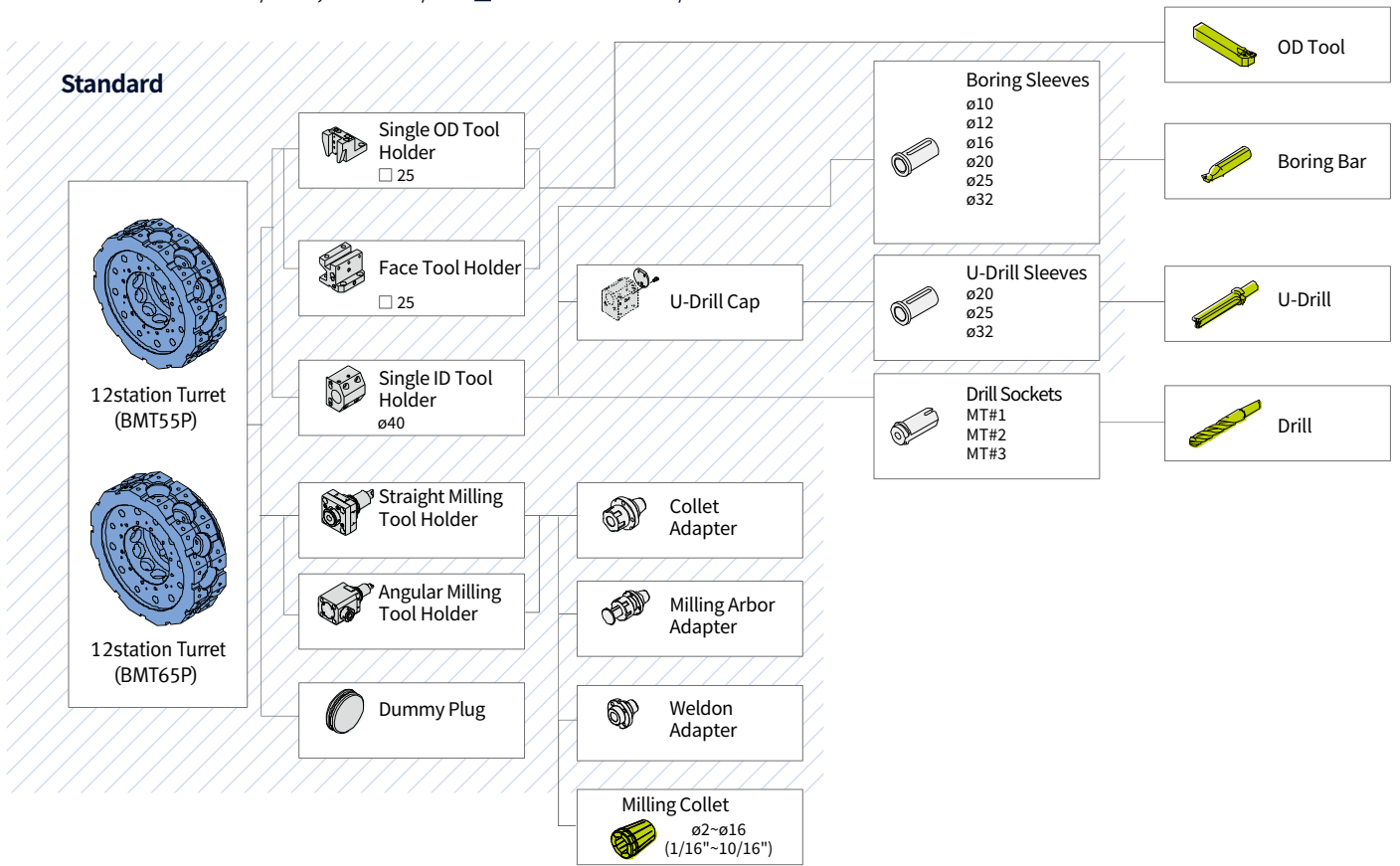
## PUMA DNT2600/L\_2axis



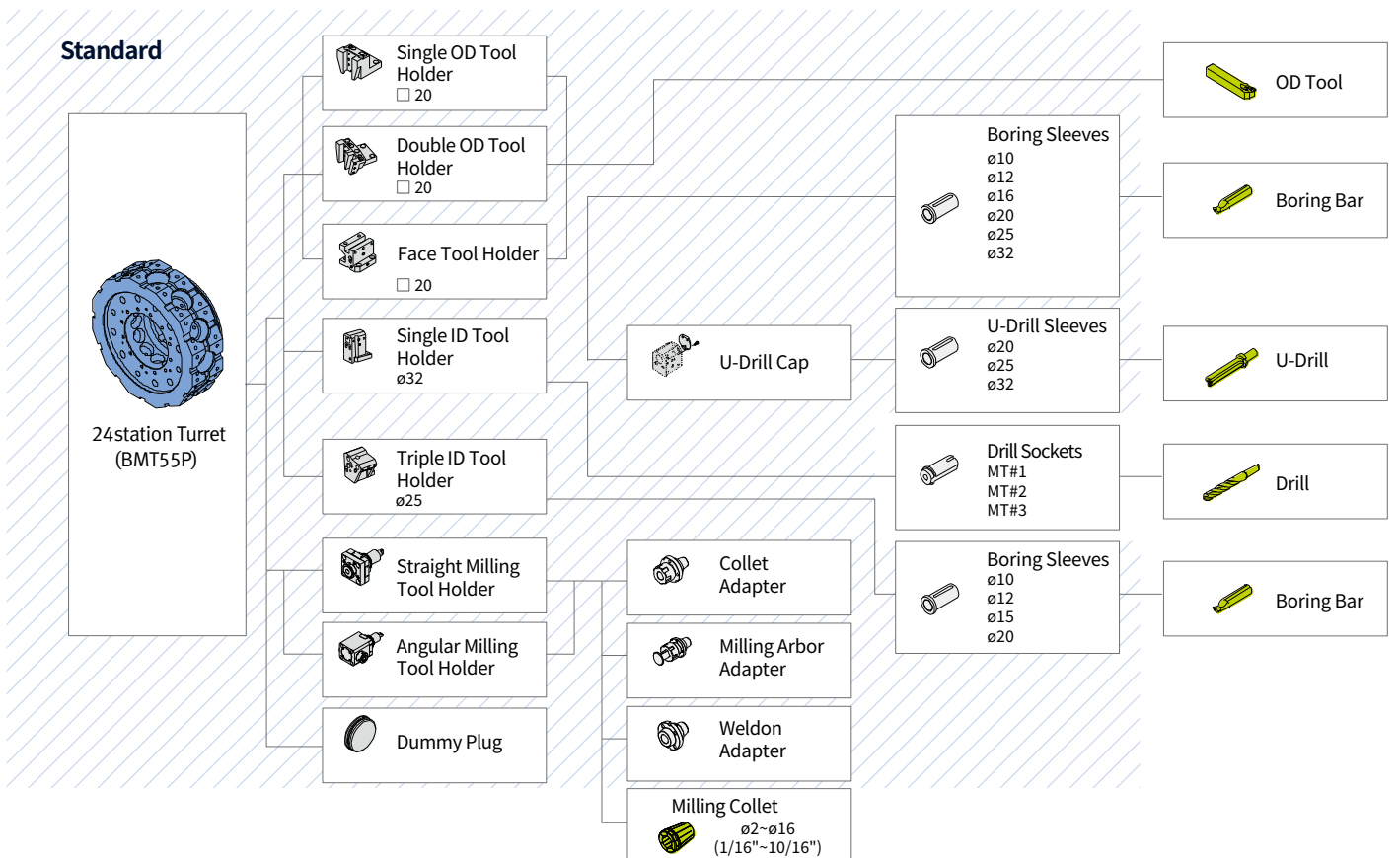
# TOOLING SYSTEM

## PUMA DNT2100M/MB, 2600M/LM\_12ST BMT55P/BMT65P

Units : mm (inch)



## PUMA DNT2100M/MB, 2600M/LM\_12ST(24 POSITION) BMT55P

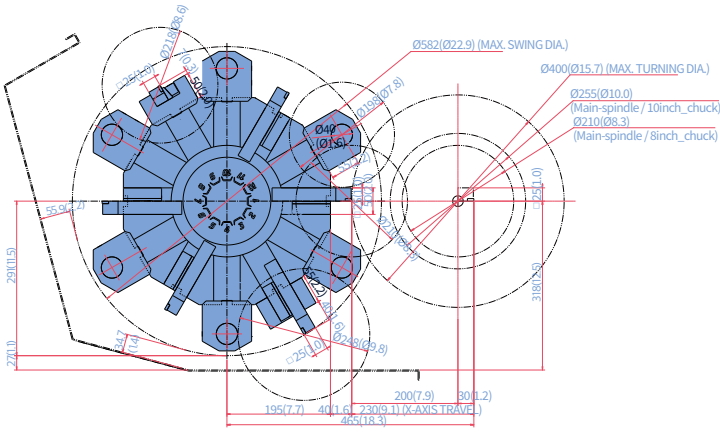


# TOOL INTERFACE

## PUMA DNT2100 / B

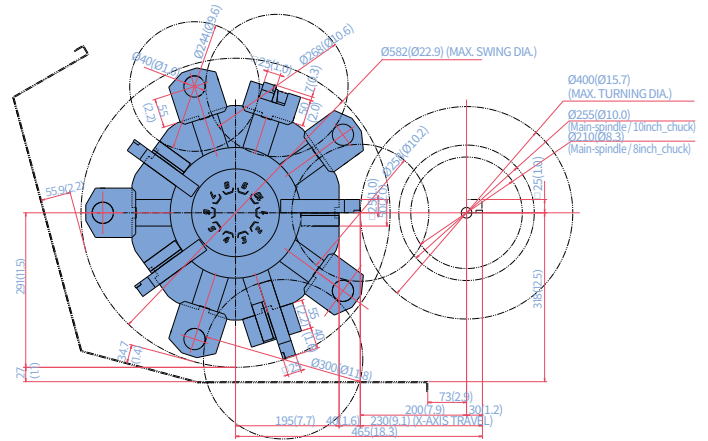
Units : mm (inch)

### 12 station



\*PUMA DNT2100 : Standard, PUMA DNT2100B : Option

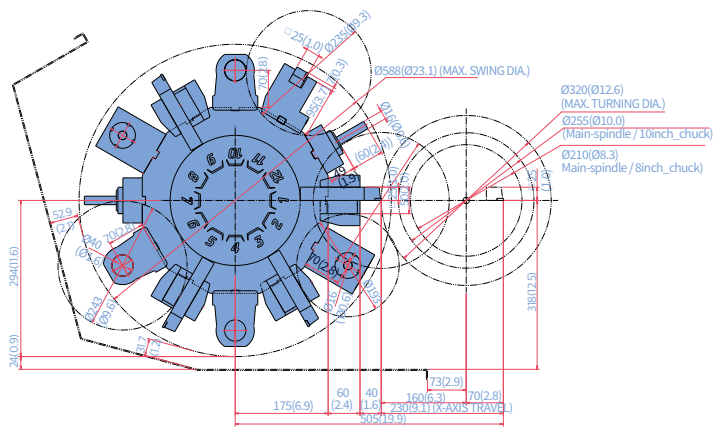
### 10 station



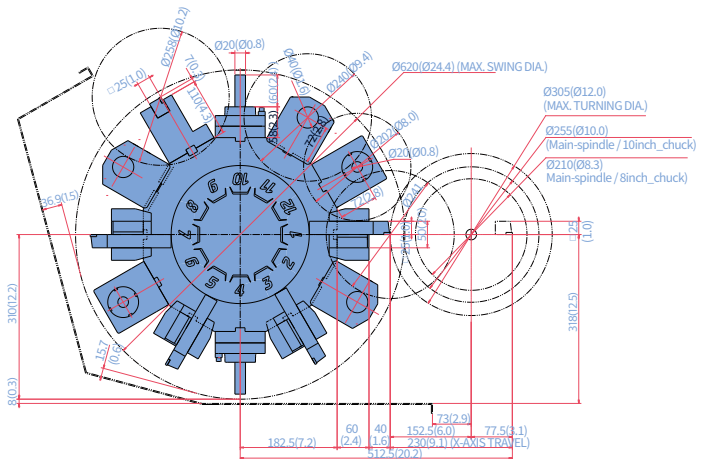
\*PUMA DNT2100 : Option, PUMA DNT2100B : Standard

## PUMA DNT2100M/MB

### 12 station\_BMT55P



### 12 station\_BMT65P OPTION



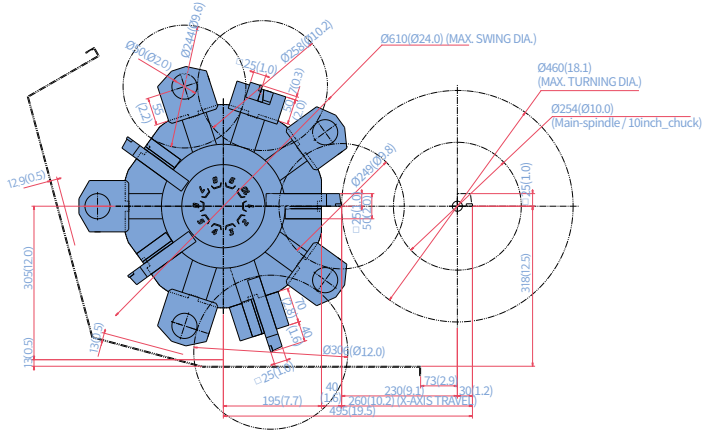


# TOOL INTERFACE

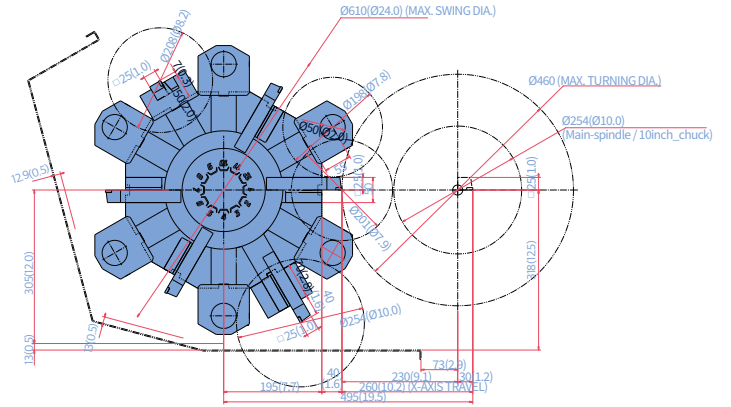
## PUMA DNT2600/L

Units : mm (inch)

### 10 station



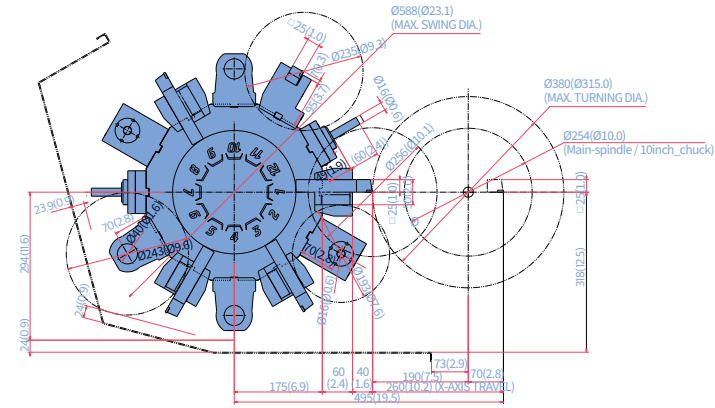
### 12 station **OPTION**



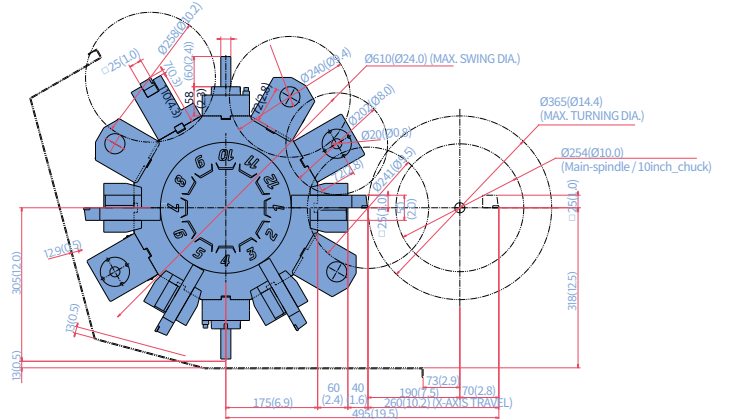
\*PUMA DNT2100 : Standard, PUMA DNT2100B : Option

## PUMA DNT2600M/LM

### 12 station\_BMT55P



### 12 station\_BMT65P **OPTION**

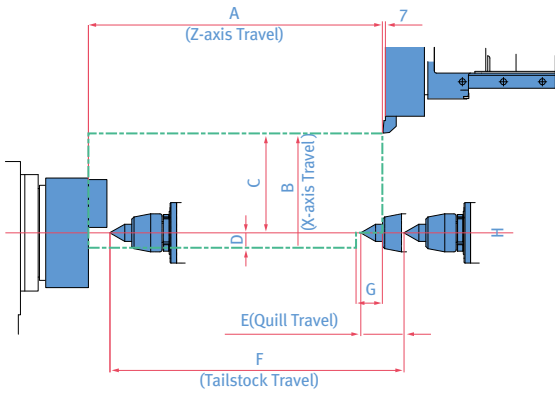


# WORKING RANGE

**PUMA DNT**2100/B · 2600/L(2-axis)

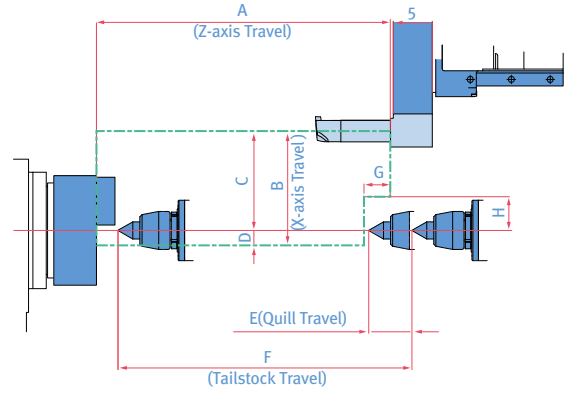
Units : mm (inch)

## OD CLAMPER



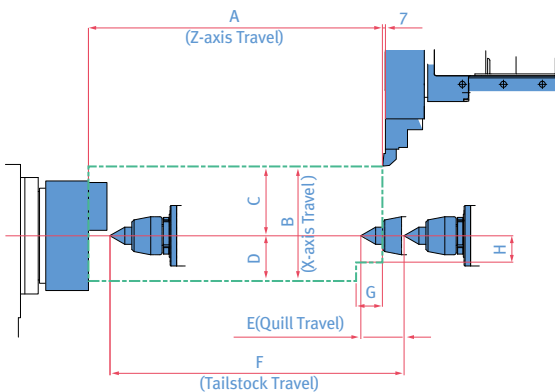
Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580 (22.8)	230 (9.1)	200 (7.9)	30 (1.2)	100 (3.9)	580 (22.8)	40 (1.6)	-10 (-0.4)
PUMA DNT2100B								
PUMA DNT2600	680 (26.8)	260 (10.2)	230 (9.1)	30 (1.2)	100 (3.9)	680 (26.8)	60 (2.4)	-15 (-0.6)
PUMA DNT2600L	1100 (43.3)					1100		

## ID HOLDER



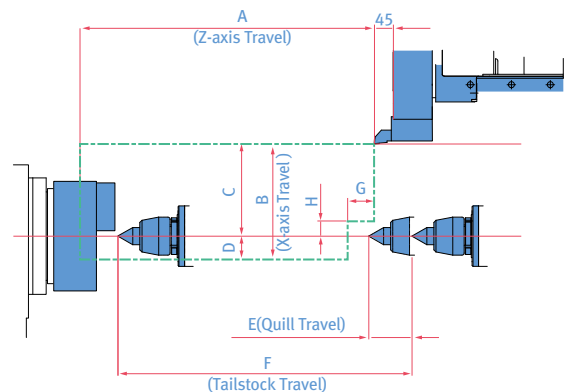
Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580 (22.8)	230 (9.1)	185 (7.3)	45 (1.8)	100 (3.9)	580 (22.8)	45 (1.8)	35 (1.4)
PUMA DNT2100B								
PUMA DNT2600	680 (26.8)	260 (10.2)	215 (8.5)	45 (1.8)	100 (3.9)	680 (26.8)	75 (3.0)	75 (3.0)
PUMA DNT2600L	1100 (43.3)					1100		

## EXTENDED OD HOLDER



Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580 (22.8)	230 (9.1)	145 (5.7)	85 (3.3)	100 (3.9)	580 (22.8)	40 (1.6)	-65 (-2.6)
PUMA DNT2100B								
PUMA DNT2600	680 (26.8)	260 (10.2)	160 (6.3)	100 (3.9)	100 (3.9)	680 (26.8)	70 (2.8)	-30 (-1.2)
PUMA DNT2600L	1100 (43.3)					1100		

## FACE TOOL HOLDER



Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580 (22.8)	230 (9.1)	183 (7.2)	47 (1.9)	100 (3.9)	580 (22.8)	25 (1.0)	-47 (-1.9)
PUMA DNT2100B								
PUMA DNT2600	680 (26.8)	260 (10.2)	213 (8.4)	47 (1.9)	100 (3.9)	680 (26.8)	70 (2.8)	20 (0.8)
PUMA DNT2600L	1100 (43.3)					1100 (43.3)		

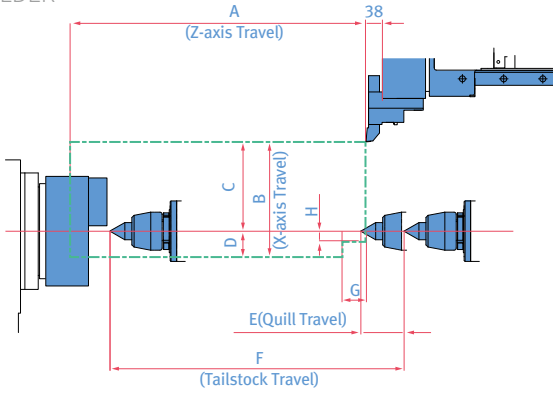
\* for H: (-) Downward direction of spindle center line / (+) Upward direction of spindle center line

# WORKING RANGE

**PUMA DNT**2100M/2100MB · 2600M/LM

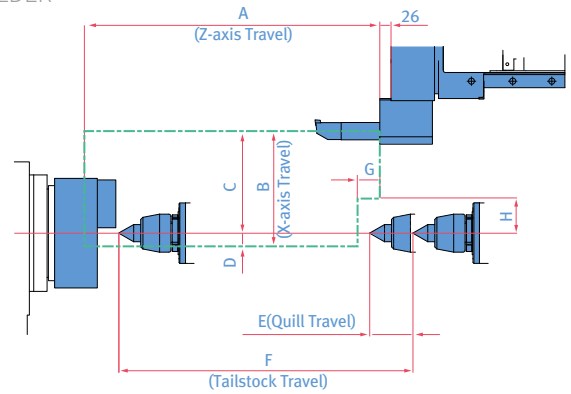
Units : mm (inch)

## OD HOLDER



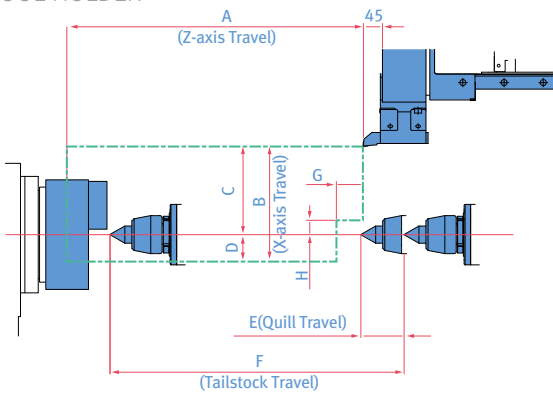
Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580	230	160	70	100	580	0	0
PUMA DNT2100B	(22.8)	(9.1)	(6.3)	(2.8)	(3.9)	(22.8)	0	0
PUMA DNT2600	680	260	190	70	100	680	75	-40
PUMA DNT2600L	(26.8)	(10.2)	(7.5)	(2.8)	(3.9)	(26.8)	(3.0)	(-1.6)
	1100					1100		
	(43.3)					(43.3)		

## ID HOLDER



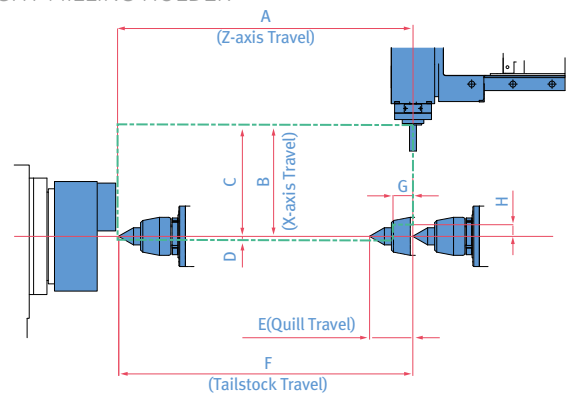
Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580	230	190	40	100	580	15	40
PUMA DNT2100B	(22.8)	(9.1)	(7.5)	(1.6)	(3.9)	(22.8)	(0.6)	(1.6)
PUMA DNT2600	680	260	220	40	100	680	55	60
PUMA DNT2600L	(26.8)	(10.2)	(8.7)	(1.6)	(3.9)	(26.8)	(2.2)	(2.4)
	1100					1100		
	(43.3)					(43.3)		

## FACE TOOL HOLDER



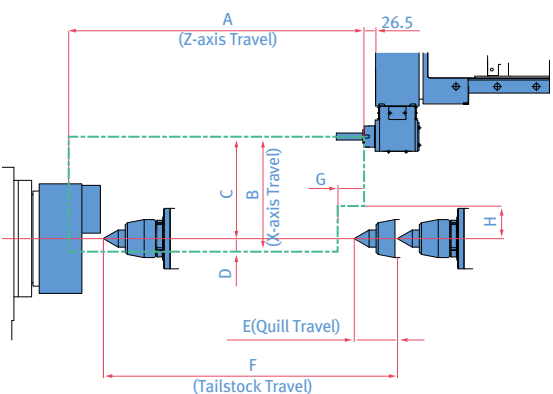
Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580	230	158	72	100	580	10	5
PUMA DNT2100B	(22.8)	(9.1)	(6.2)	(2.8)	(3.9)	(22.8)	(0.4)	(0.2)
PUMA DNT2600	680	260	188	72	100	680	50	20
PUMA DNT2600L	(26.8)	(10.2)	(7.4)	(2.8)	(3.9)	(26.8)	(2.0)	(0.8)
	1100					1100		
	(43.3)					(43.3)		

## STRAIGHT MILLING HOLDER



Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580	230	214	16	100	580	0	0
PUMA DNT2100B	(22.8)	(9.1)	(8.4)	(0.6)	(3.9)	(22.8)	0	0
PUMA DNT2600	680	244	16	47	100	680	40	15
PUMA DNT2600L	(26.8)	(9.6)	(0.6)	(1.9)	(3.9)	(26.8)	(1.6)	(0.6)
	1100					1100		
	(43.3)					(43.3)		

## ANGULAR MILLING HOLDER



Model	A	B	C	D	E	F	G	H
PUMA DNT2100	580	230	190	40	100	580	5	40
PUMA DNT2100B	(22.8)	(9.1)	(7.5)	(1.6)	(3.9)	(22.8)	(0.2)	(1.6)
PUMA DNT2600	680	260	220	40	100	680	70	60
PUMA DNT2600L	(26.8)	(10.2)	(8.7)	(1.6)	(3.9)	(26.8)	(2.8)	(2.4)
	1100					1100		
	(43.3)					(43.3)		

\* for H : (-) Downward direction of spindle center line / (+) Upward direction of spindle center line

\* This working range is based on BMT55P/12ST. For more the detailed information of 12ST(24 position)/BMT55P, 12ST/BMT65P, please contact sales person



# MACHINE SPECIFICATIONS

Description		Unit	PUMA DNT 2100	PUMA DNT 2100M	PUMA DNT 2100B	PUMA DNT 2100MB	PUMA DNT 2600 [L]	PUMA DNT 2600M [LM]
Capacity	Swing over bed	mm (inch)	650 (25.6)		650 (25.6)		650 (25.6)	
	Swing over saddle	mm (inch)	460 (18.1)		460 (18.1)		460 (18.1)	
	Recommended turning dia.	mm (inch)	210 (8.3)		255 (10.0)		255 (10.0)	
	Max. turning dia.	mm (inch)	400 (15.7)	320 (12.6) (BMT55P) 305 (12.0) (BMT65P)	400 (15.7)	320 (12.6) (BMT55P) 305 (12.0) (BMT65P)	460 (18.1)	380 (15.0) (BMT55P) 365 (14.4) (BMT65P)
	Max turning length	mm (inch)	562 (22.1)	513 (20.2) (BMT55P) 506 (188.0) (BMT65P)	550 (21.7)	501 (19.7) (BMT55P) 494 (19.4) (BMT65P)	658 (25.9) [1078 (42.4)]	610 (24.0) [1030 (188.0)] (BMT55P) 603 (188.0) [1023 (40.3)] (BMT65P)
	Chuck size	inch	8 {10}		10		10 {12}	
	Bar working dia.	mm (inch)	67 (2.6)		81 (3.2)		81 (3.2)	
Travels	Travel distance	X-axis	230 (188.0)		230 (188.0)		260 (10.2)	
		Z-axis	580 (188.0)		580 (188.0)		680 (26.8) [1100 (43.3)]	
Feedrates	Rapid Traverse Rate	X-axis	24 (944.9)		24 (944.9)		24 (944.9)	
		Z-axis	30 (1181.1)		30 (1181.1)		30 (1181.1)	
Main spindle	Max. Spindle speed	r/min	4500		3500		3500	
	Main spindle motor power	kW (Hp)	18.5 / 15 / 15 (24.8 / 20.1 / 20.1) (S6 25% / S6 40% / S1 연속)		18.5 / 15 / 15 (24.8 / 20.1 / 20.1) (S6 25% / S6 40% / S1 연속)		26 / 22 / 18.5 (34.9 / 29.5 / 24.8) (S6 25% / S6 60% / S1 연속)	
	Max. Spindle torque	N · m (lbf-ft)	328{378} (242.1{279.0})		403 (297.4)		735 (542.4)	
	Spindle nose	ASA	A2-6		A2-8		A2-8	
	Spindle bearing diameter (Front)	mm (inch)	110 (4.3)		130 (5.1)		130 (5.1)	
	Spindle through hole	mm (inch)	76 (188.0)		91 (3.6)		91 (3.6)	
	Min. spindle Indexing angle (C-axis)	deg	-	0.001		-	0.001	
Turret	No. of tool stations	ea	12		10 {12}		10 {12}* 12	
	OD tool size	mm (inch)	25 x 25 (1.0 x 1.0)		25 x 25 (1.0 x 1.0)		25 x 25 (1.0 x 1.0)	
	Max. boring bar size	mm (inch)	Ø40 (Ø1.6)		Ø40 (Ø1.6)		Ø50 (Ø2.0) Ø40 (Ø1.6)	
	Turret Indexing time (1 station swivel)	s	0.15		0.15		0.15	
	BMT55P	-	-	6000 r/min 5.5 kW (7.4 Hp)		-	6000 r/min 5.5 kW (7.4 Hp)	
	BMT55P	-	-	10000 r/min 7.5 kW (10.1 Hp)		-	10000 r/min 7.5 kW (10.1 Hp)	
	BMT65P	-	-	5000 r/min 5.5 kW (7.4 Hp)		-	5000 r/min 5.5 kW (7.4 Hp)	
Tailstock	Tailstock travel	mm (inch)	580 (22.8)		580 (22.8)		680 (26.8) [1100 (43.3)]	
	Quill diameter	mm (inch)	80 (3.1)		80 (3.1)		100 (3.9)	
	Quill travel	mm (inch)	100 (3.9)		100 (3.9)		100 (3.9)	
	Quill bore taper	MT	MT#4 {#3(Dead)}*		MT#4 {#3(Dead)}*		MT#5 {#4(Dead)}*	
Power source	Electric power supply (rated capacity)	kVA	31.14		31.14		34.53	
Machine Dimensions	Length	mm (inch)	2945 (115.9)		2945 (115.9)		3355 (132.1) [3800 (149.6)]	
	Width	mm (inch)	1664 (65.5)		1664 (65.5)		1729 (68.1) [1839 (72.4)]	
	Height	mm (inch)	1780 (70.1)		1780 (70.1)		1780 (70.1)	
	Weight	kg (lbf)	3700 (8157.0)	3800 (8377.4)	3800 (8377.4)	3900 (8597.9)	4300 [4900] (9479.7 [10802.5])	4350 [4950] (9590.0 [10912.7])
Control	NC system	DN Solutions Fanuc i Plus						

\* BMT55P's specification. (BMT65P : 12ST / 5,000r/min / 5.5kW)  
\* {}: option

The DN Solutions promise, MACHINE GREATNESS, has two important meanings. The first is simple: DN Solutions makes great machines. The second is a challenge to our end-users. With a product line that is this comprehensive, accurate and reliable, we equip our customers to machine greatness. **The big question: *Why should you choose DN Solutions over other options?***

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<b>4</b>	<b>Corporations</b>	<b>200</b>	<b>Service posts</b>
<b>155</b>	<b>Dealer networks</b>	<b>3</b>	<b>Factories</b>



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- Parts repair service



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\* For more details, please contact DN Solutions.

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