DN SOLUTIONS

10/12 INCH GLOBAL STANDARD TURNING CENTER

PUMA GT 2600·3100

PUMA GT 2600
PUMA GT 3100

PUMA GT 2600·3100

The PUMA GT Series is an 10/12-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 GT Series focuses on convenient operation and easy maintenance.

CONTENTS

PUMA GT2600XL

POWERFUL AND PRECISE CUTTING CAPABILITY

- PUMA GT Series ensures stability and has powerful cutting capabilities and features a box guideway structure and the highest spindle power in its class.

OUTSTANDING PRODUCTIVITY

- Compared to previous models, the Series has faster rapid traverse rates and optimised control functions that ensure the highest productivity.

IMPROVED USABILITY

- Usability of GT Series is maximized through a user-friendly operation panel, and simple maintenance functions.

BASIC STRUCTURE

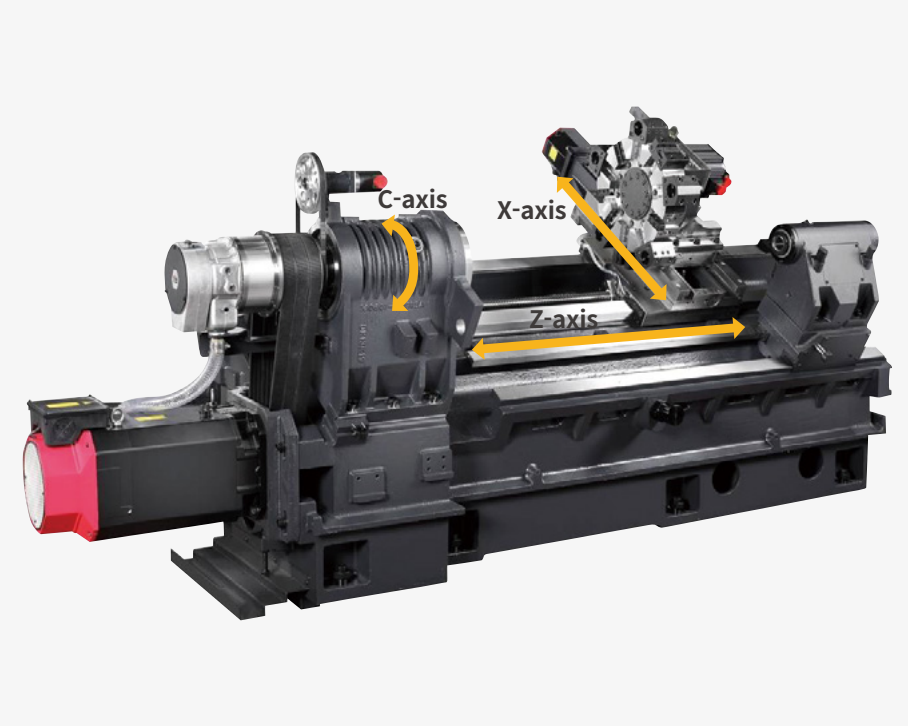
Box guideways are applied to all axes to prevent vibration, ensure dynamic rigidity, and deliver powerful and precise machining.

A diverse line-up that meets all customer requirements

The PUMA GT Series comprises 8 different machine models which have different configurations and specifications (i.e., chuck size, machine length, and operation of rotating tools).

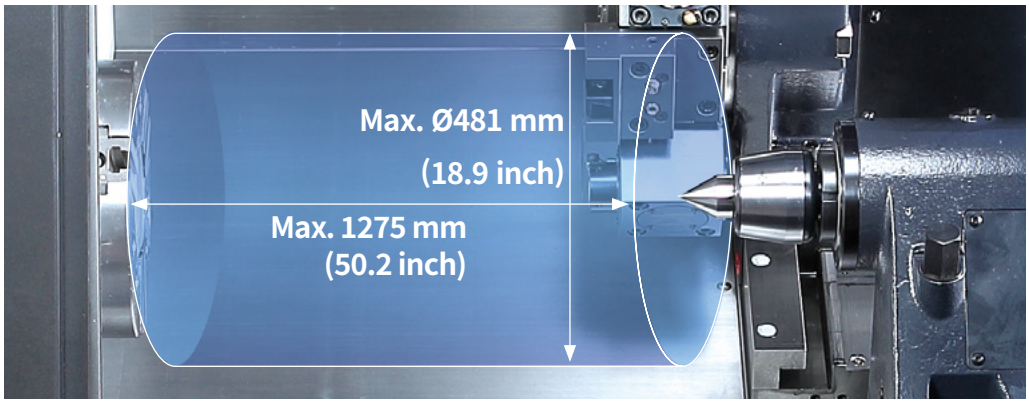
Model group	Standard chuck size (inch)
PUMA GT2600XLA	10
PUMA GT2600XLB	12
PUMA GT3100	12

Model group	Travel (mm (inch))		Rapid traverse rate (m/min (ipm))	
	X-Axis	Z-Axis	X-Axis	Z-Axis
PUMA GT2600XL	265 (10.4)	1625 (64.0)	24 (945)	30 (1181)
PUMA GT3100	260 (10.2)	830 (32.7)		
PUMA GT3100L		1350 (53.1)		



MACHINING AREA

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



Model group (unit : mm (inch))	Max. turning dia. (2axis/M)	Bar working dia.	Max. turning length (2axis/M)
PUMA GT2600XLA	460 / 410 (18.1 / 16.1)	81 (3.2)	1603 / 1555 (63.1 / 61.2)
PUMA GT2600XLB		102 (4.0)	1573 / 1525 (61.9 / 60.0)
PUMA GT3100	481 / 376 (18.9 / 14.8)	102 (4.0)	755 / 725 (29.7 / 28.5)
PUMA GT3100L			1275 / 1245 (50.2 / 49.0)

SPINDLE INFORMATION

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

3500 r/min

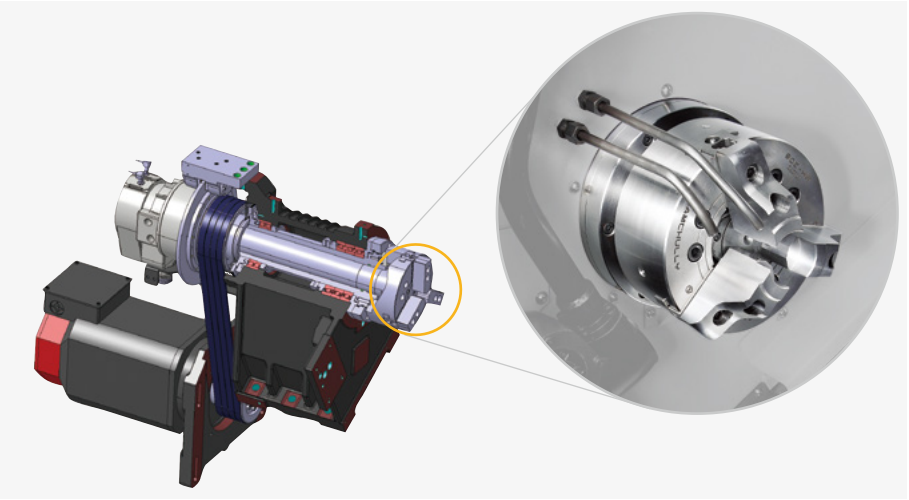
Max. spindle power

26 kW
(34.9 Hp) (S6 25%)

Max. spindle torque

734 N·m
(541.7 ft-lbs)

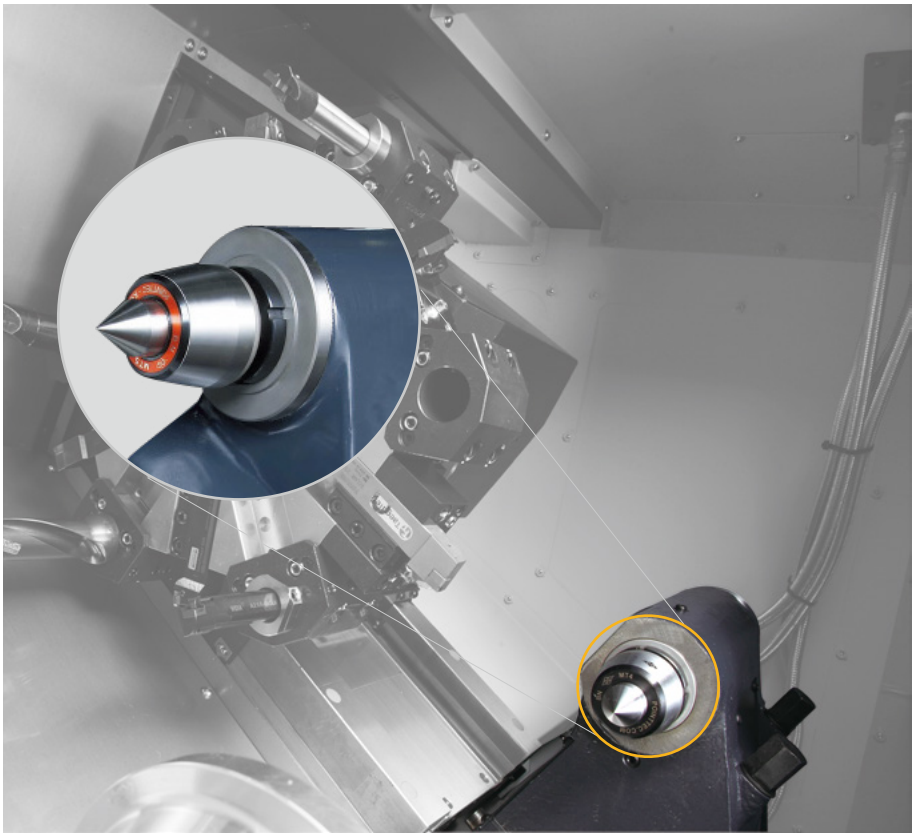
** PUMA GT2600XLA specification*



Model group	Spindle speed (r/min)	Power (kW (hp))	Toruqe (N·m (lbf ft))	Condition
PUMA GT2600XLA	3500	26 / 22 / 18.5 (34.9 / 29.5 / 24.8)	734	S6 25% / S6 60% / S1 Cont.
PUMA GT2600XLMA	3500	26 / 22 / 18.5 (34.9 / 29.5 / 24.8)	735	S6 25% / S6 60% / S1 Cont.
PUMA GT2600XLB	2500	22 / 13 (29.5 / 17.4) (Low winding)	990	S6 15% / S1 Cont.
		26 / 22 / 18.5 (34.9 / 29.5 / 24.8) (High winding)		S6 25% / S6 60% / S1 Cont.
PUMA GT2600XLMB	2500	22 / 13 (29.5 / 17.4) (Low winding)	992	S6 15% / S1 Cont.
		26 / 22 / 18.5 (34.9 / 29.5 / 24.8) (High winding)		S6 25% / S6 60% / S1 Cont.
PUMA GT3100	2800	35 / 26 / 22 (46.9 / 34.9 / 29.5)	1613 (1190.4)	S6 25% / S6 60% / S1 Cont.
PUMA GT3100M	2800	22 / 13 (29.5 / 17.4) (Low winding)	1123 (828.8)	S6 15% / S1 Cont.
		26 / 22 / 18.3 (34.9 / 29.5 / 24.8) (High winding)		S6 25% / S6 60% / S1 Cont.

Tailstock

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



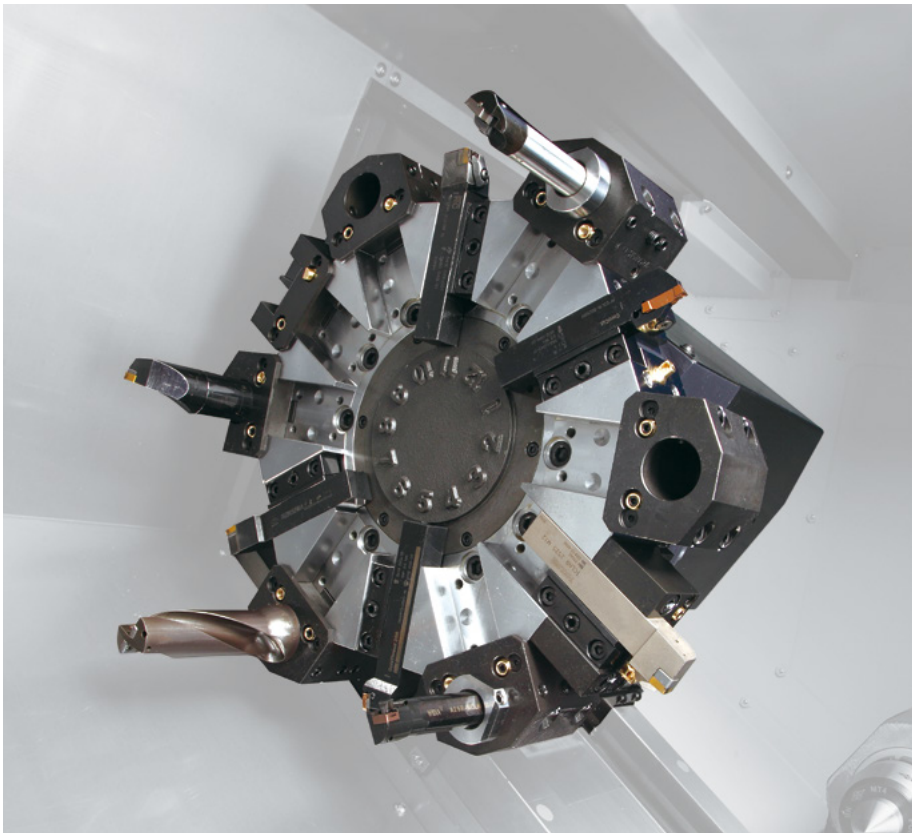
Model group (mm (inch))	Tailstock travel	Quill dia	Quill travel
PUMA GT2600XL	1625 (64.0)	100 (3.9)	100 (3.9)
PUMA GT3100	830 (32.7)		
PUMA GT3100L	1350 (53.1)		

TURRET

Turret rotation is controlled by a servo motor for prompt and correct selection of tools.

Servo indexing turret

The servo motor controls the movement of the turret guaranteeing rapid rotation and correct positioning. The milling turret, including rotary tools, features the BMT design for higher rigidity. In addition, oil and air lubrication of the rotary tools reduced thermal displacements and ensures best-in-class milling, drilling and tapping.



2 axis turret

Number of tool stations

PUMA GT2600XL, **PUMA GT**3100

10 st / **12** st OPTION

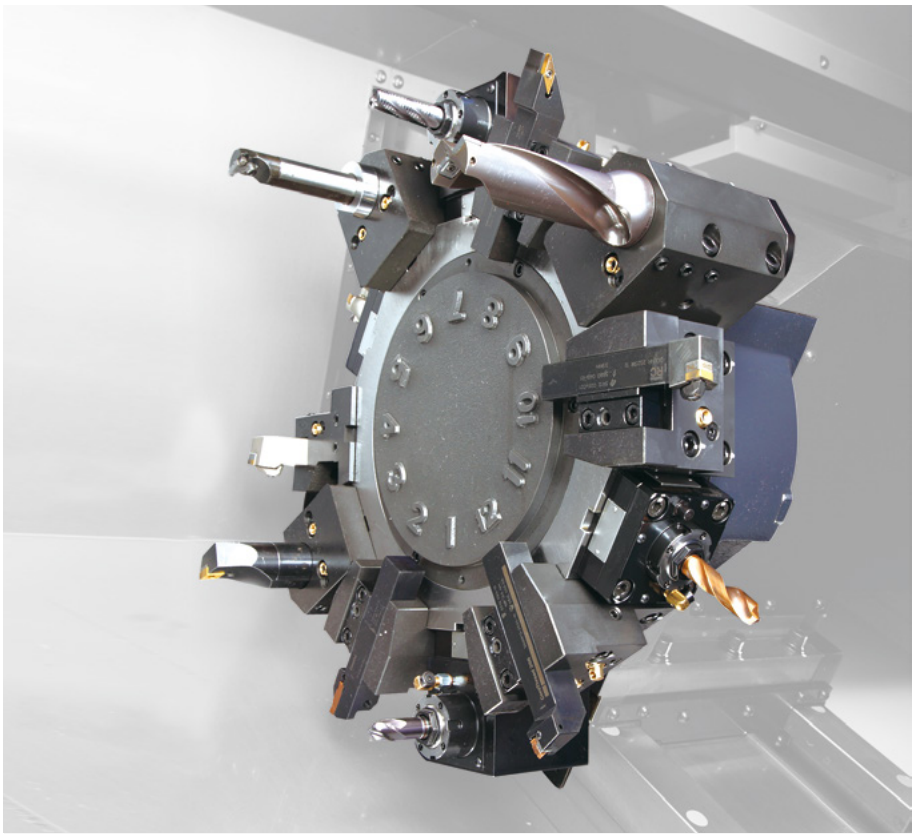
BMT milling turret

PUMA GT2600XLMA/XLMB

BMT55P

PUMA GT3100M / LM

BMT65P



Number of tool stations

PUMA GT2600XLMA/XLMB

12 st

PUMA GT3100M / LM

12 st / **24** st OPTION

Rotary tool motor power

PUMA GT2600XLMA/XLMB

5.5 kW

(7.4Hp)

PUMA GT3100M / LM

7.5 kW

(10Hp)

STANDARD | OPTIONAL SPECIFICATIONS

Description	Features		PUMA GT 2600XLA/XLM	PUMA GT 2600XLB/XLMB	PUMA GT 3100 / M	PUMA GT 3100L / LM
Chuck	10 inch		●	X	X	X
	12 inch		X	●	●	●
	15 inch		X	X	○	○
	No chuck		○	○	○	○
Jaw	Soft Jaw		●	●	●	●
	Hard jaw		○	○	○	○
Chucking Option	DUAL PRESSURE CHUCKING		○	○	○	○
	CHUCK CLAMP CONFIRMATION		●	●	●	●
Steady rest	Programmable		○	○	○	○
	Mannual		○	○	○	○
	Size	SLU-1 (Ø8 ~ Ø64)	○	○	○	○
		SLU-2 (Ø12 ~ Ø101)	○	○	○	○
		SLU-3.1 (Ø20 ~ Ø165)	○	○	○	○
		SLU-3.2 (Ø50 ~ Ø200)	○	○	○	○
		STA-1 (Ø4 ~ Ø64)	○	○	○	○
		STA-2 (Ø8 ~ Ø101)	○	○	○	○
		STA-3.1 (Ø20 ~ Ø165)	○	○	○	○
		STA-3.2 (Ø50 ~ Ø200)	○	○	○	○
		AX1E (Ø6 ~ Ø70)	○	○	○	○
		AX2E (Ø8 ~ Ø105)	○	○	○	○
		AX4E (Ø12 ~ Ø160)	○	○	○	○
		AX4I (Ø12 ~ Ø160)	○	○	○	○
		AX5I (Ø20 ~ Ø200)	○	○	○	○
		Manual (Ø25 ~ Ø200)	○	○	○	○
V stand	V stand for shaft workpiece		△	△	△	△
Tailstock	Mannual		●	●	○	○
	Programmable		○	○	●	●
	Live center		●	●	●	●
	Built-in dead center		○	○	○	○
Coolant Pump	1.5 bar		●	●	●	●
	Increase Power (4.5/7/10/14.5/70 bar)		○	○	○	○
Additional coolant pump (for option)	4.5 bar		○	○	○	○
Coolant options	Oil skimmer		○	○	○	○
	Water soluble Coolant Chiller**		△	△	△	△
	Coolant pressure switch		○	○	○	○
	Chuck coolant		○	○	○	○
	Coolant gun		○	○	○	○
Chip disposal options	Side type chip conveyor		○	○	○	○
	Rear type chip conveyor		X	X	△	X
	Chip bucket		○	○	○	○
	Air blower		○	○	○	○
	Mist collector interface		○	○	○	○
	Integrated mist collector		△	△	△	△
Measuring & automation	Tool setter (Manual)		○	○	○	○
	Tool setter (Automatic)		○	○	○	○
	Part catcher with parts box		○	○	○	○
	Part catcher with parts conveyor		○	○	○	○
	Auto door		○	○	○	○
	Bar feeder interface		○	○	○	○
Others	Tool load monitoring system		●	●	●	●
	Linear scale (Xaxis /Zaxis)		○	○	○	○
	Signal tower		○	○	○	○
	Air gun		○	○	○	○
	Automatic power off		○	○	○	○
	Quick change tooling(CAPTO)		○	○	○	○
	Sketch-turn S/W		○	○	○	○
Customized Special Option	V STAND FOR SHAFT WORKPIECE_ON TAILSTOCK		X	X	△	△
	GUIDE WAY WIPER_FOR DRY CUTTING		X	X	○	○
	TAILSTOCK DEDUCTION		X	X	○	○
	MAIN/LEFT SPINDLE AIR CURTAIN		X	X	○	○
	AUTOMATIC TOP DOOR		X	X	X	X
	COOLANT TANK DIRECTION_REAR SIDE		X	X	△	X
	MAIN/LEFT CHUCK SIZE_170 MM (6 INCH)		X	X	X	X
	CHUCK PRESSURE SWITCH		X	X	X	X
	COOLANT CHILLER		△	△	△	△
	TOP PROTECTION COVER		X	X	○	○
	SHOWER COOLANT		X	X	○	○
	DOUBLE SAFETY EDGE FOR AUTO FRONT DOOR		X	X	○	○
	COOLANT LEVEL SWITCH_FLOATING		X	X	X	X
	AIR LIMIT SENSING ON CHUCK_PREPARATION		○	○	○	○
	TSC FOR MAIN/LEFT SPINDLE_PREPARATION		X	X	X	X
	AUTO. WORK MEASUREMENT_OLP40_RENISHAW		○	○	○	○
	AUTO. WORK MEASUREMENT_RLP40_RENISHAW		○	○	○	○
	COOLANT PUMP_4.0 KW_2.8 MPA		X	X	X	X
	Coolant level switch : Sensing level - Low		○	○	○	○

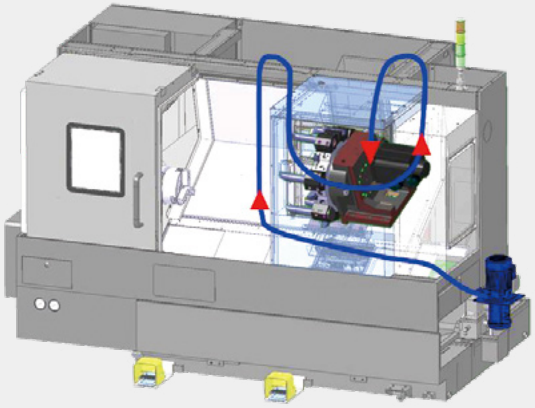
※Please contact your DN Solutions representative for detailed machine information.
** When using a semi-synthetic type or synthetic type, contact our sales representative or service center in advance.*
*** Technical consultation is mandatory for the chilling of non-water soluble coolant*

● *Standard* ○ *Optional* *X N/A*

⚠ 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

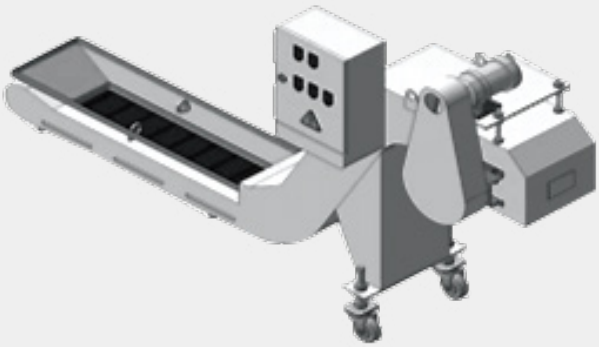
Coolant system



Coolant pump	Output pressure (bar)		Filter	Std./Opt.
	60Hz	50Hz		
pump1	1.5	1	Screen filter	std.
pump2	4.5	3		opt.
pump3	7	5		
pump4	10	7		
pump5	14.5	10		
pump6	20	10.5		
pump7	70	-	Cyclone filter	
pump8	70	-	Paper filter	

Chip conveyor OPTION

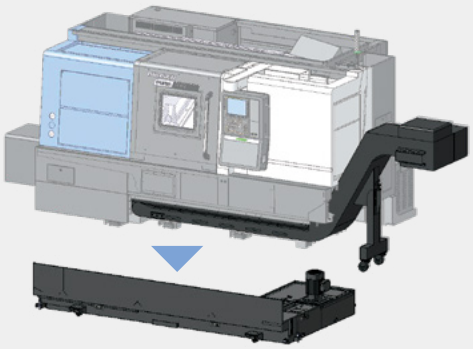
The conveyor provides a superior chip removal system and is designed with a stable structure for easy maintenance and reduced leakage. By selecting the correct type of conveyor, the efficiency of the machine is increased.



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.
Screw	Steel	Chip conveyor with the smallest footprint and is 80% the size of the hinged belt option.
Magnetic scraper	Cast iron	Chip conveyor with magnet scraper : Appropriate for cast iron workpieces generating fine chips

Easy-to-clean coolant tank

The coolant tank can be dismantled without disassembling the chip conveyor. Operating convenience is significantly enhanced.

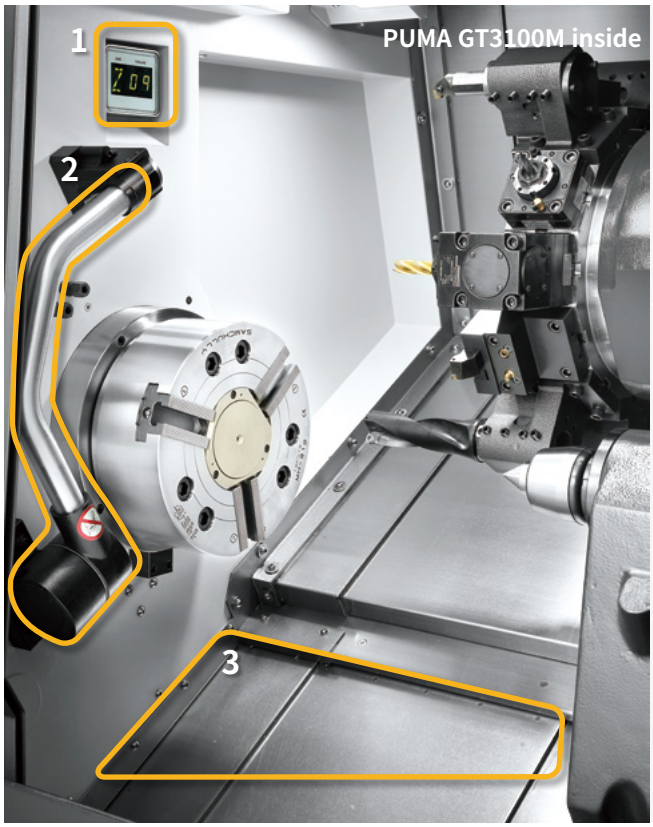


Model group	Coolant tank capacity (L (galon))
PUMA GT2600XL	358 (94.6)
PUMA GT3100 [L]	235 [275] (62.1 [72.7])

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..

PERIPHERAL EQUIPMENT



1. Axis and tool number display

(only for PUMA GT3100)

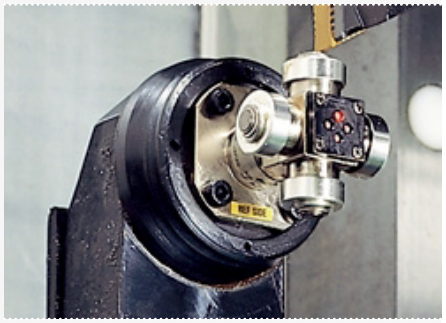
Axis and tool number display highlights the selected axis and identifies the tool number.

2. Tool setter

(Tool length measurement)

OPTION

The tool setter facilitates the setting of tools, and the fast and precise measurement of abraded tools.



3. Full sliding cover on tailstock guideway *

Inclusion of a full cover prevents the heat from chips being transferred to the bed and guideway. The tailstock guideway can be protected and chips can be removed easily.

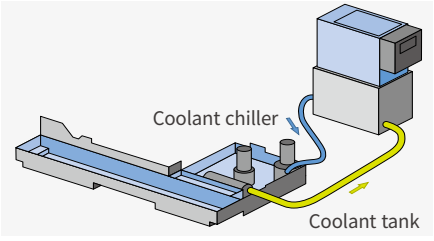
** Exception models : PUMA GT 2600XLA/XLMA/XLB/XLMB (for further information contact DN Solutions)*

Oil skimmer OPTION

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

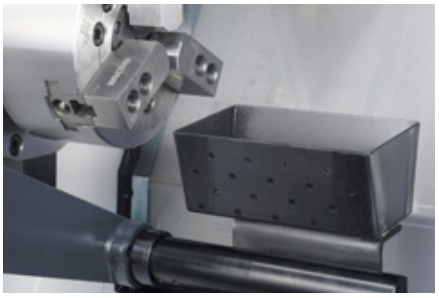
Coolant chiller OPTION

When using a water-insoluble coolant or a high-pressure coolant system (where the power is over 1.5kW), a coolant chiller is highly recommended in order to prevent temperature rises and minimize thermal deformation.



Part catcher OPTION

The part catcher automatically catches machined parts and ejects them from the machining area.

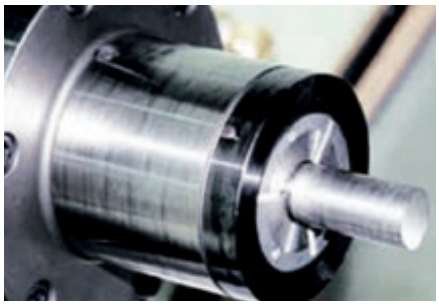


Mist collector OPTION

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

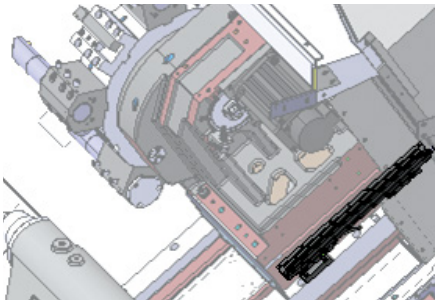
Collet chuck OPTION

The collet chuck is ideal for loading small diameter and light weight workpieces.



Linear scale (X axis/Z axis) OPTION

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



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.

FANUC 31i-B Plus

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

USB and PCMCIA card QWERTY keyboard

- EZ-Guide i standard
- Ergonimic operator panel
- 2MB Memory
- Hot keys

iHMI touchscreen OPTION

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 OPTION

DN Solutions Conversational programming software for PC

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

NUMERIC CONTROL SPECIFICATIONS

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		●	●
	Larger capacity memory_2GB	Available Option only with 15" Touch LCD (iHMI Only)	○	○
Interface function	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	Only with 15" Touch LCD standard	○	○
Setting and display	CNC screen dual display function		●	●
Network	FANUC MTConnect		✪	✪
	FANUC OPC UA		✪	✪
Others	Display unit	15" color LCD	●	●
		15" color LCD with Touch Panel	○	○
	Part program storage size & Number of registerable programs	640M(256KB)_500 programs	X	X
		5120M(2MB)_1000 programs	●	●

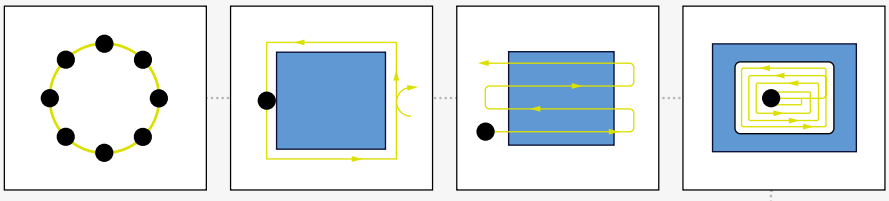
Network: FANUC MTConnect and FANUC OPC UA available.

● *Standard* ○ *Optional* *X N/A* ✪ *Available*

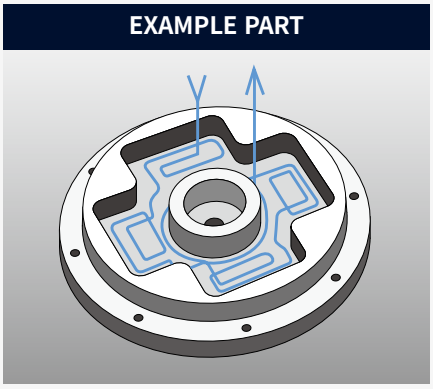
EZ-Guide i

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

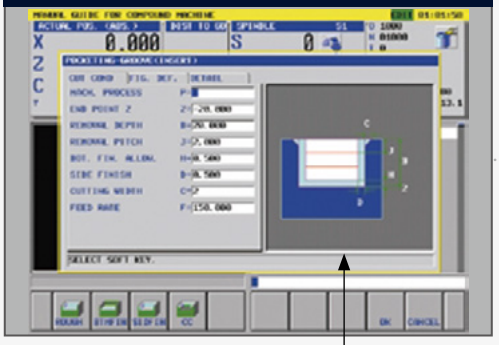
EXAMPLE PROGRAMMING : CUTTING SHAPE



EXAMPLE PART



EZ-GUIDE i SCREEN



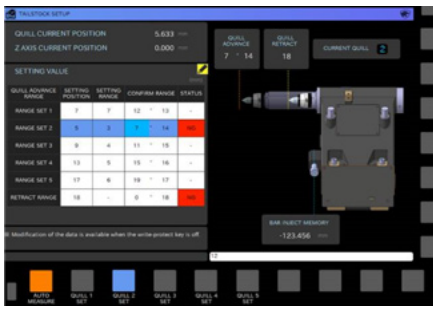
Enter the dimensions of the shape

Automatic creation of cutting program

```
O7000 (SAMPLE PROGRAM) ;
...
M3 S1500 ;
G0 X50. Y125. ;
G0 Z30. ;
G1040 T0.5 J3. H0.2 K0.5 ... ;
G1020 H120. V50. U37. W68. ... ;
G0 Z80. ;
M5 ;
```

A cutting program is automatically created with the entered values.

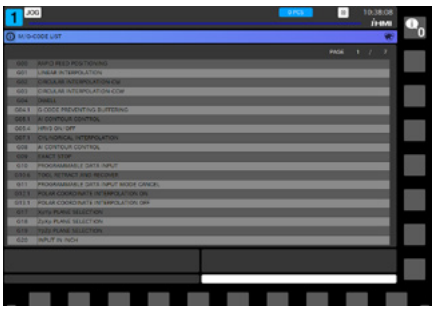
EZ Work



Tailstock quill position detection function

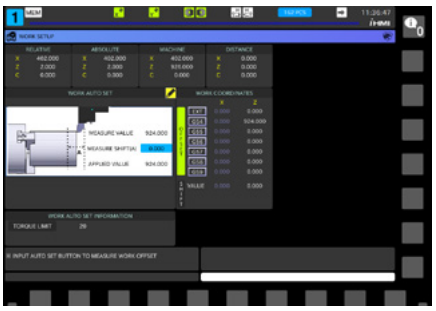
The user can set the tailstock position minutely with sensor. This fuction is able to recall the positions that the user had set. It can reduce the setting time.

Programing



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, 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 check and calculate the displacements and compensate it beforehand.

Work management

Capability of checking operation hours of the system, and quantity of finished workpieces.

CONVENIENT OPERATION

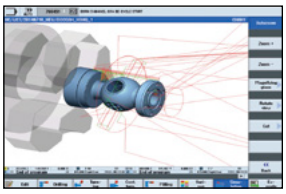
SIEMENS S828D

15.6 inch display + New OP

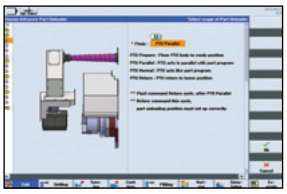
Siemens 828D' operation panel enhances operating convenience by incorporating common-design buttons and layout. It features a Qwerty keyboard for fast and easy data input and operation.

- 15.6 inch display
- USB (standard)
- QWERTY keyboard

Convenient conversational functionality



Cutting and operation support function
This function shows a cutting and tool path simulation in real-time.



Shop-turn mode
[various]
[attachments]

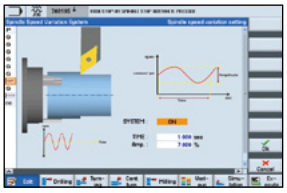
The automation elements (parts catcher, parts unloader etc.), can be easily controlled via interactive screens.

[Custom]
[Protection zones]

Operation safety function
Protection Zone Synchronized Actions checks the interference between the turret and the spindle to prevent collisions caused by operator error.

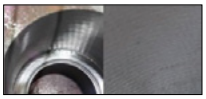
[offset]
[operating parameter]
[TC service]

Maintenance and service convenience function
Maintenance and service of major equipment and peripheral devices, including the timer and parts counter settings can be easily undertaken.

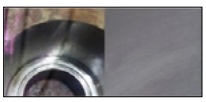


[various]
[attachment]
[DSSV]

Machining accuracy improvement
The NC controls spindle speed at an optimal level for precision threading and turning, making it possible to automatically improve surface roughness.



Before applying the function



After applying the function

NUMERIC CONTROL SPECIFICATIONS

SIEMENS

Division	Item	Specifications	2-Axis S828D	M S828D
Controlled axis	Controlled axes		X,Z,C1	X,Z,C1,C2
	Simultaneously controlled axes		4 axes	4 axes
Data input/output	Memory card input/output		X	X
	USB memory input/output		●	●
Interface function	Ethernet	(X130)	●	●
Operation	On network drive	(without EES option, Extcall)	●	●
	On USB storage medium, e.g. memory stick	(without EES option, Extcall)	●	●
Program input	Workpiece coordinate system	G54 - G59, G507 - G599	●	●
Feed function	Advanced surface		X	X
	Top surface		X	X
	Look ahead number of block		1	1
Programming & Editing function	3D simulation, finished part		●	●
	Simultaneous recording		●	●
	DXF Reader for PC integrated in SINUMERIK Operate		○	○
Operation Guidance Function	Shopturn		●	●
Setting and display	Operation via a VNC viewer		●	●
Network	MTConnect		✪	✪
	OPCUA		○	○
Others	Display unit	15.6" color display with touch screen	●	●
	Part program storage size	CNC user memory 5MB	●	●
		CNC user memory 100 MB	○	○
		CNC user memory 6GB	X	X
		CNC user memory 40GB (with PCU or IPC)	X	X
		CNC user memory without limit(Execution from extenal storage devices)(EES / Using by USB or Network)	○	○
		HMI user memory for CNC part program 6GB	X	X

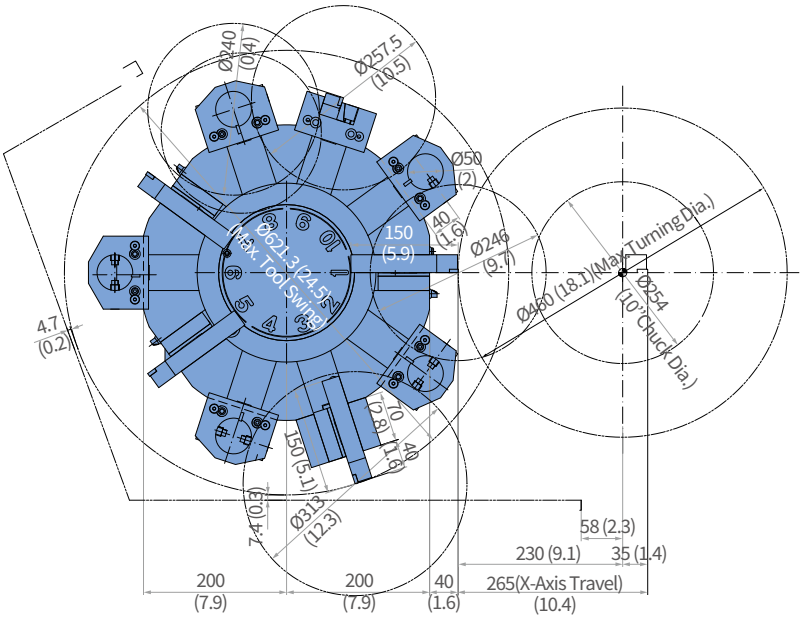
● *Standard* ○ *Optional* *X N/A* ✪ *Available*

TOOL INTERFACE

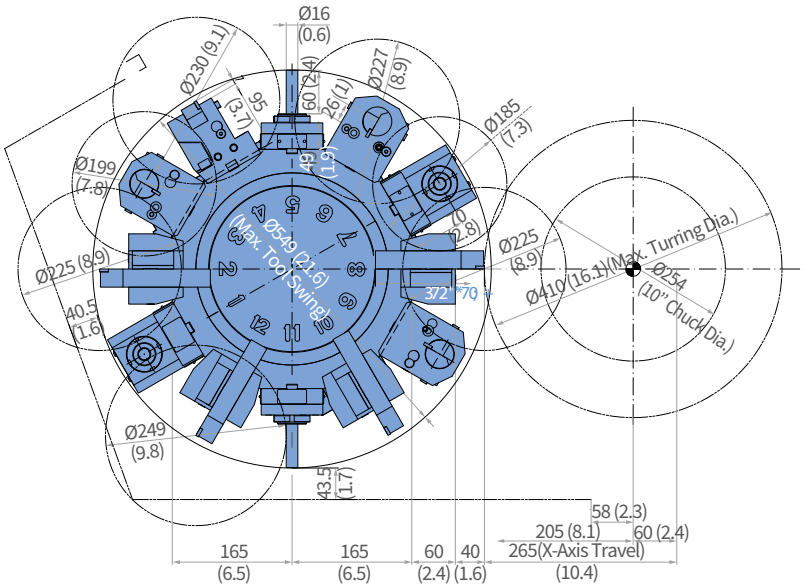
PUMA GT2600XL

Units : mm (inch)

PUMA GT2600XL (2axis, 10station)



PUMA GT2600XLM (3axis, 12station, BMT55P)

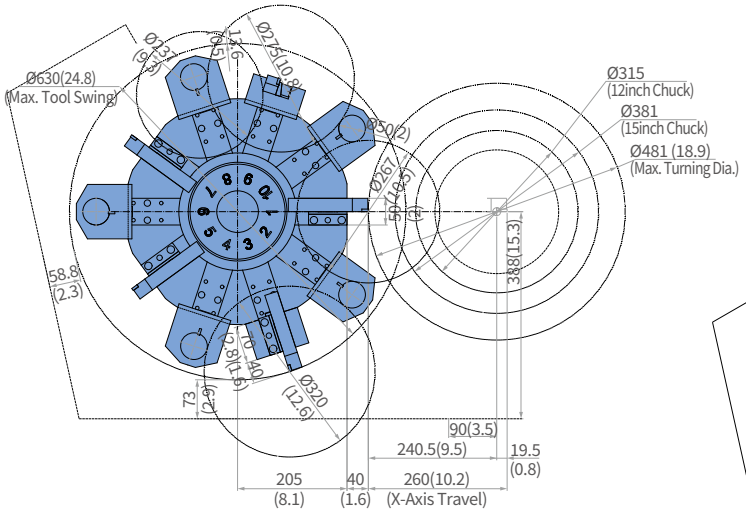


TOOL INTERFACE

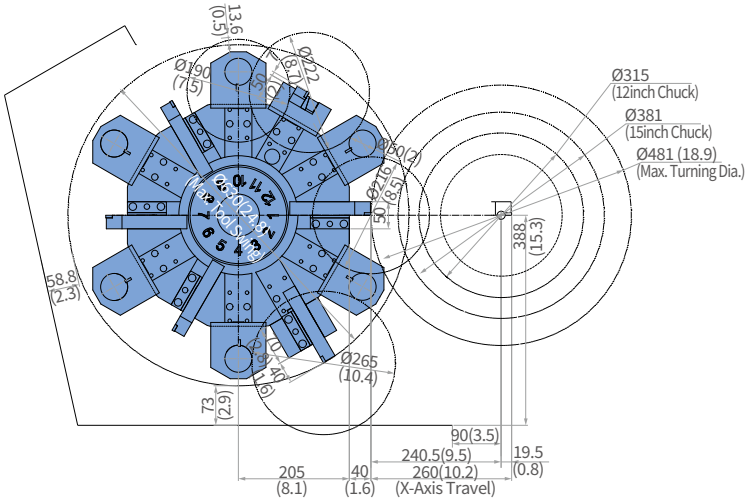
PUMA GT3100

Units : mm (inch)

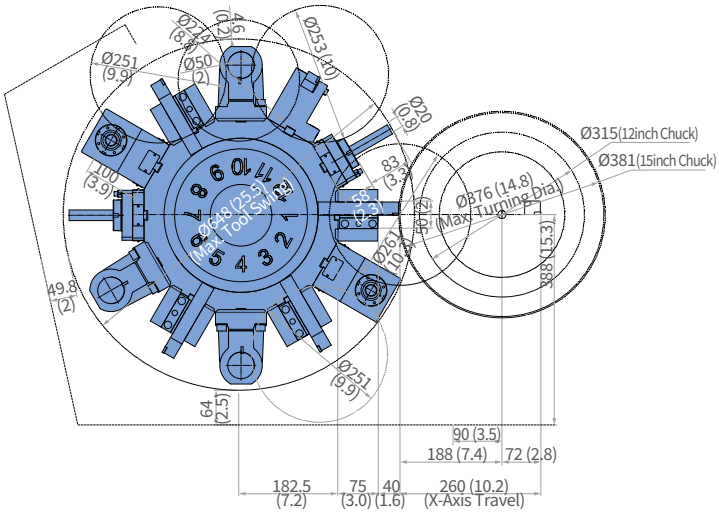
PUMA GT3100 (2axis, 10station)



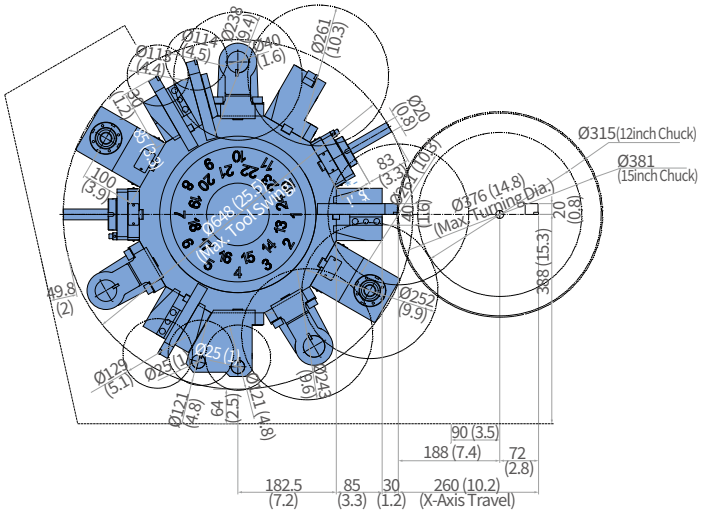
PUMA GT3100 (2axis, 12station, OPTION)



PUMA GT3100M (M, 12station, BMT65P)



PUMA GT3100M (M, 24station, BMT65P OPTION)



POWER | TORQUE

PUMA GT2600XLA / DN Solutions FANUC i

Max. spindle speed

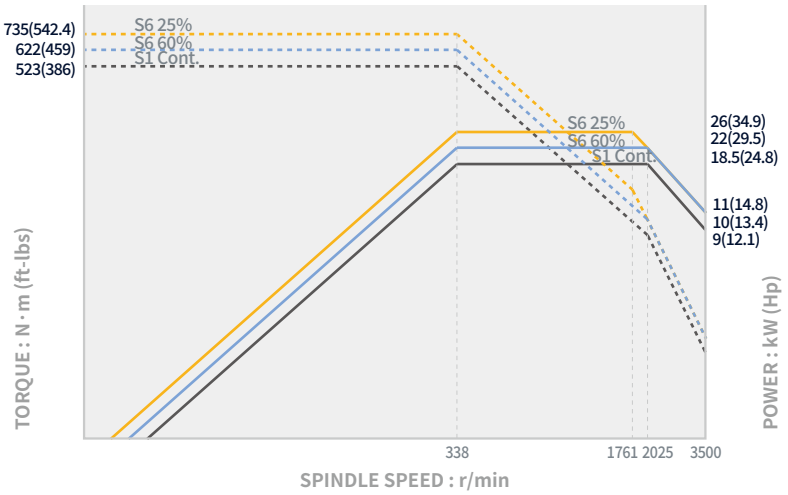
3500 r/min

Max. spindle power

26 kW
(34.9 Hp)

Max. spindle torque

735 N·m
(542.4 ft-lbs)



PUMA GT2600XLB / DN Solutions FANUC i

Max. spindle speed

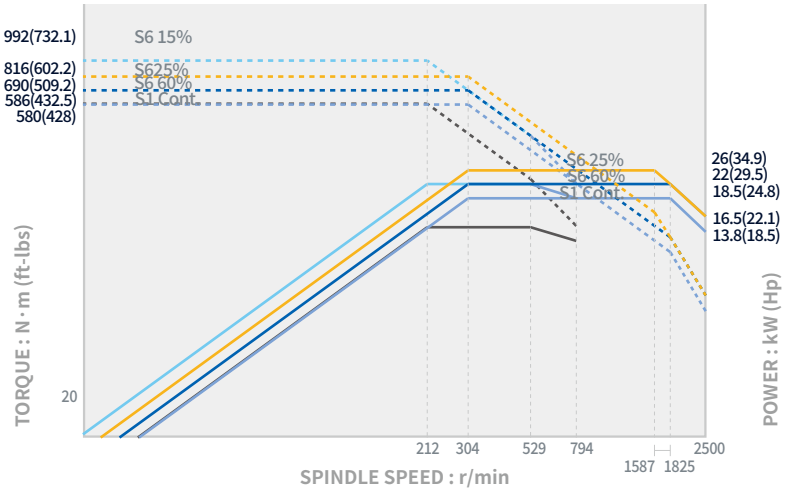
2500 r/min

Max. spindle power

26 kW
(34.9 Hp)

Max. spindle torque

992 N·m
(732.1 ft-lbs)



PUMA GT2600XL series / SIEMENS S828D

Max. spindle speed

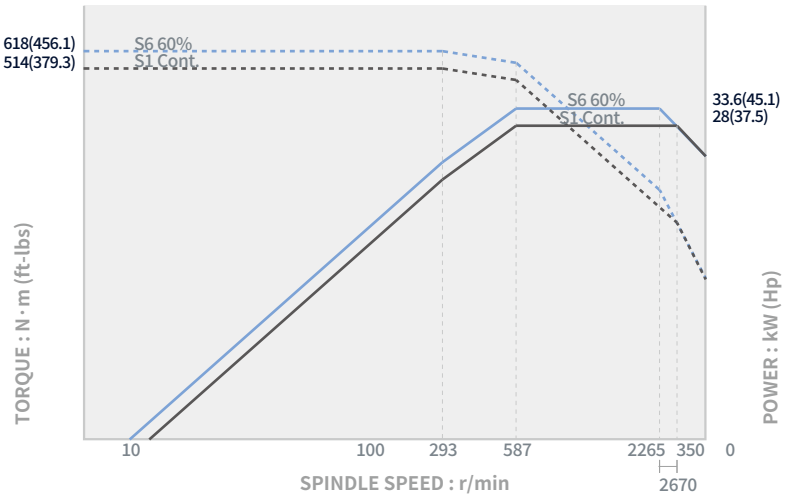
3500 r/min

Max. spindle power

33.6 kW
(45.1 Hp)

Max. spindle torque

618 N·m
(456.1 ft-lbs)



POWER | TORQUE

PUMA GT3100/3100L / DN Solutions FANUC i

Max. spindle speed

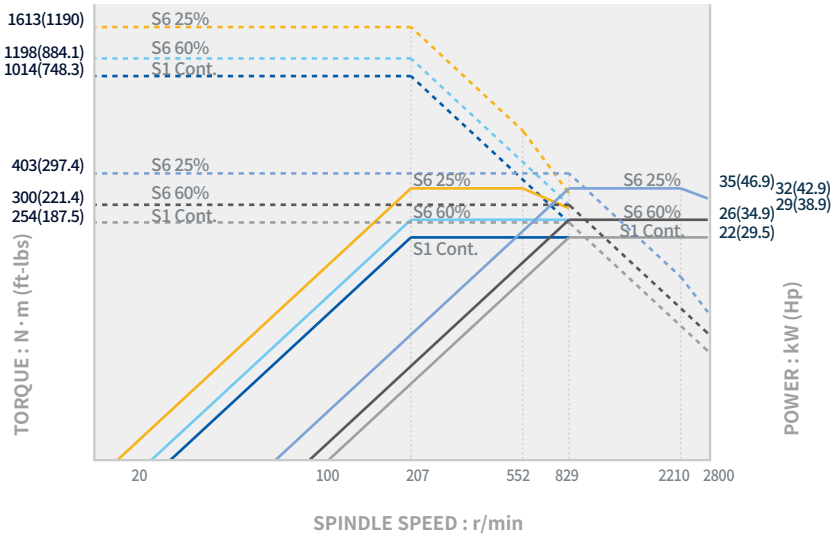
2800 r/min

Max. spindle power

35 kw
(46.9 Hp)

Max. spindle torque

1613 N·m
(1190.4 ft-lbs)



PUMA GT3100M/3100LM / DN Solutions FANUC i

Max. spindle speed

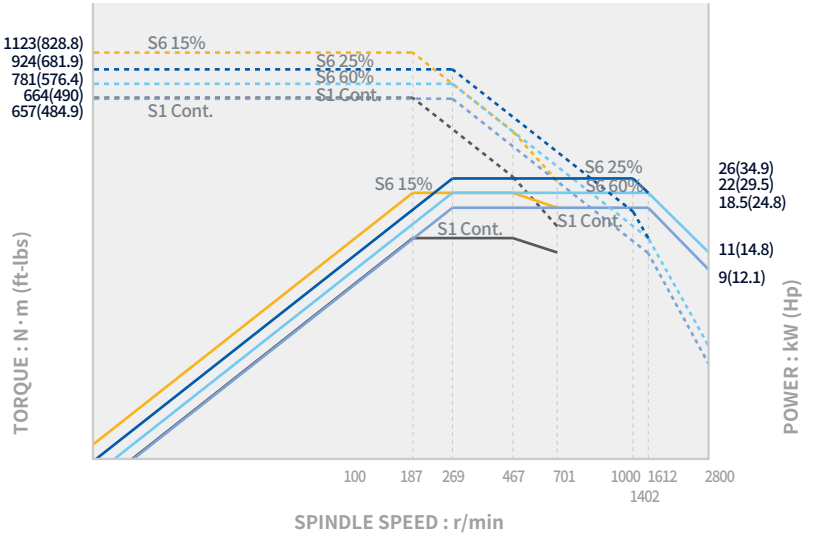
2800 r/min

Max. spindle power

26 kw
(34.9 Hp)

Max. spindle torque

1123 N·m
(828.8 ft-lbs)



PUMA GT3100/ GT3100L / SIEMENS S828D

Max. spindle speed

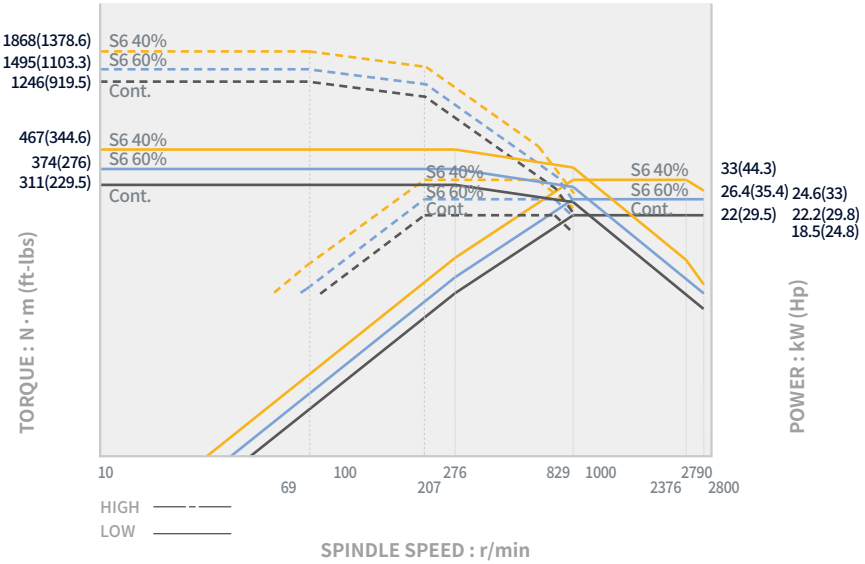
2800 mm

Max. spindle power

33 kw
(44.3 Hp)

Max. spindle torque

1868 N·m
(1378.6 ft-lbs)

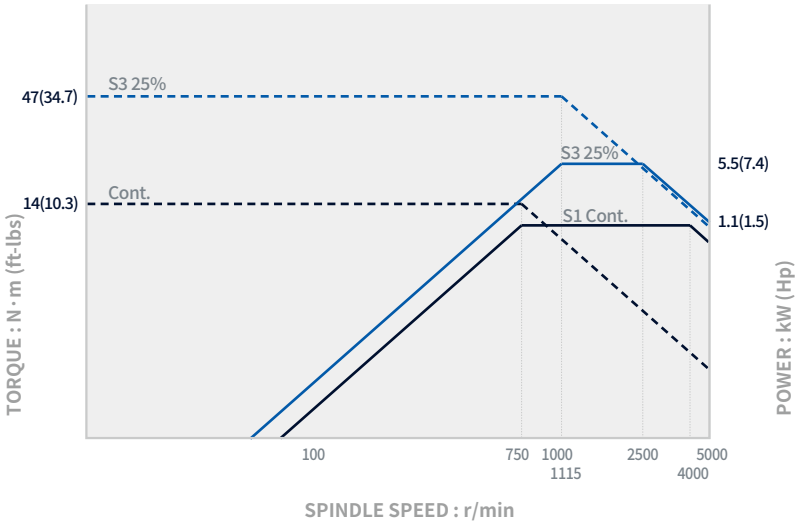


POWER | TORQUE

PUMA GT2600XLMA / GT2600XLMB

Rotary tool speed

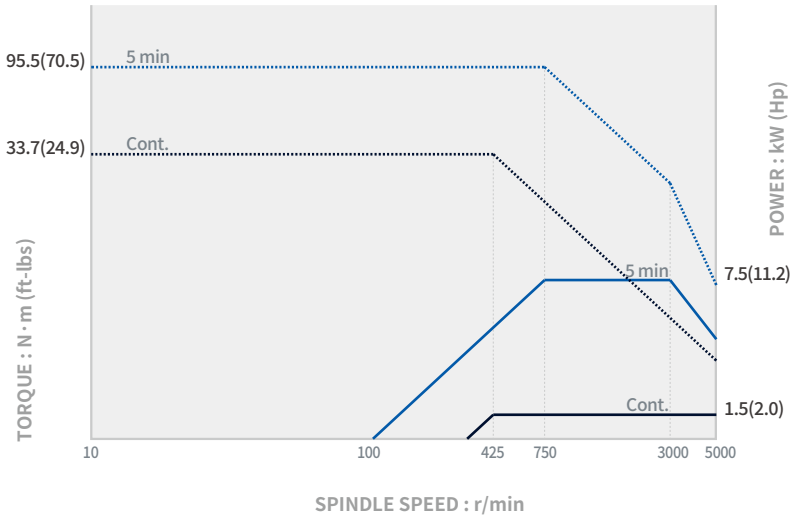
5000 r/min



PUMA GT3100M/3100LM

Rotary tool speed

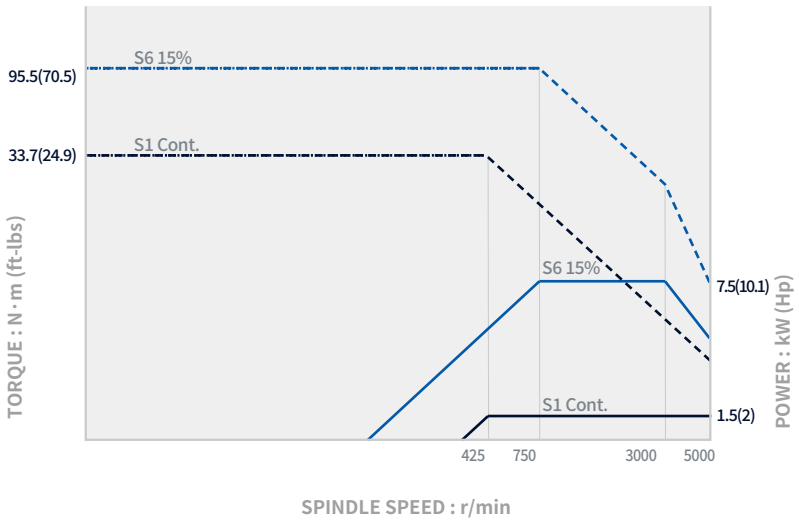
5000 r/min



PUMA GT2600XLM / SIEMENS S828D

Rotary tool speed

5000 r/min

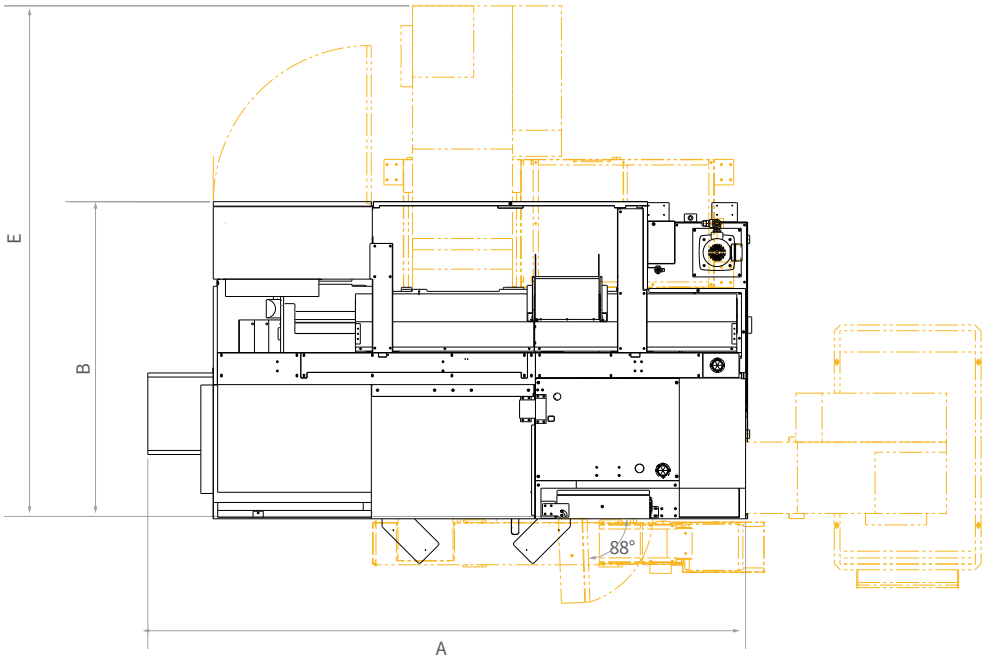


PUMA GT SERIES DIMENSIONS

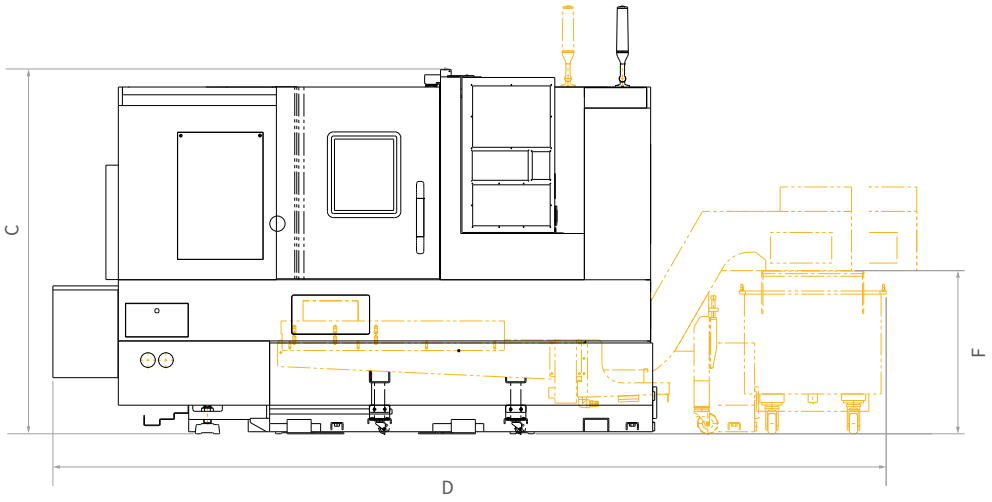
PUMA GT2600XL

Units : mm (inch)

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)**	
				Hinged belt	Screw	Hinged belt	Screw	Hinged belt	Screw
PUMA GT2600XLA	5063 (199.3)	1710 (67.3)	2030 (79.9)	5829 (229.5)	(N/A)	(N/A)	(N/A)	940 (37.0)	(N/A)
PUMA GT2600XLB	5063 (199.3)	1710 (67.3)	2030 (79.9)	5829 (229.5)	(N/A)	(N/A)	(N/A)	940 (37.0)	(N/A)

** Some peripheral equipment can be placed in other places*

✻Specification with rear type coolant tank

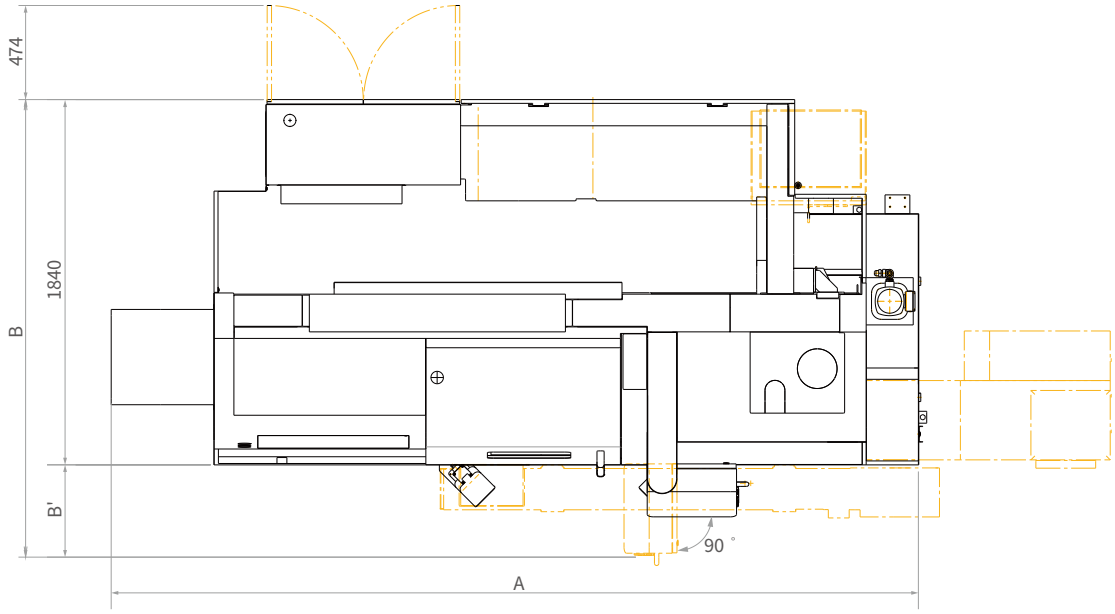
✻✻Specification with side type chip conveyor

PUMA GT SERIES DIMENSIONS

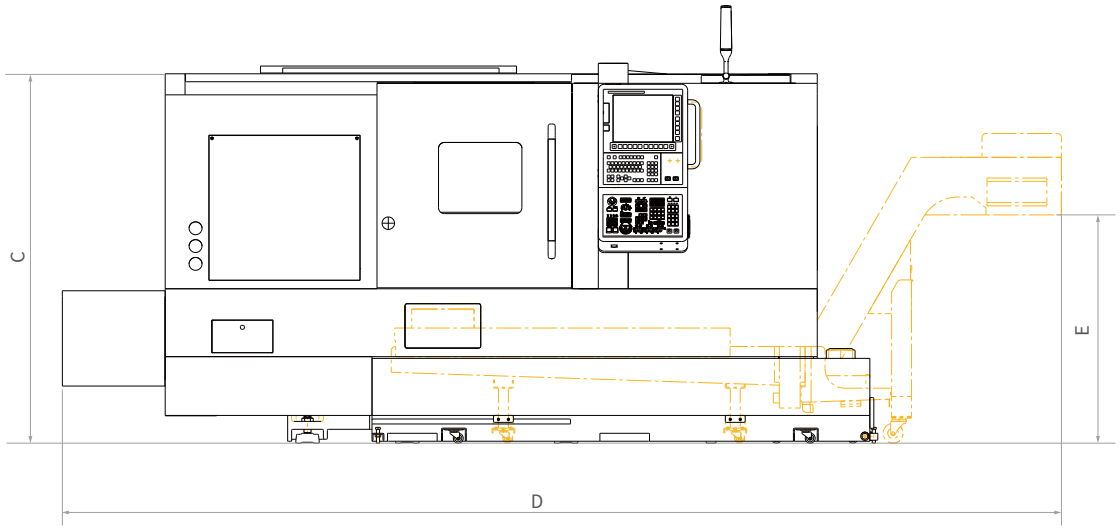
PUMA GT3100

Units : mm (inch)

TOP



FRONT



Units : mm (inch)

Model	A (Length)	B (Width)	B' (OP panel swivel range)	C (Height)	D (Length with side type chip conveyor)		E (Height of chip outlet)*		Width with rear type chip conveyor	
					Hinged belt	Screw	Hinged belt	Screw	Hinged belt	Screw
PUMA GT3100	4171 (164.2)	2112 (83.1)	455 (17.9)	1861 (73.3)	5033 (198.1)	4574 (180.1)	1150 (45.3)	677 (26.7)	Pre-discussion is required	(N/A)
PUMA GT3100M	3968 (156.2)				4830 (190.2)	4371 (172.1)				
PUMA GT3100L	4736 (186.5)	2597 (102.2)	767 (30.2)	2110 (83.1)	5772 (227.2)	(N/A)		(N/A)	(N/A)	
PUMA GT3100LM	4569 (179.9)				5604 (220.6)					

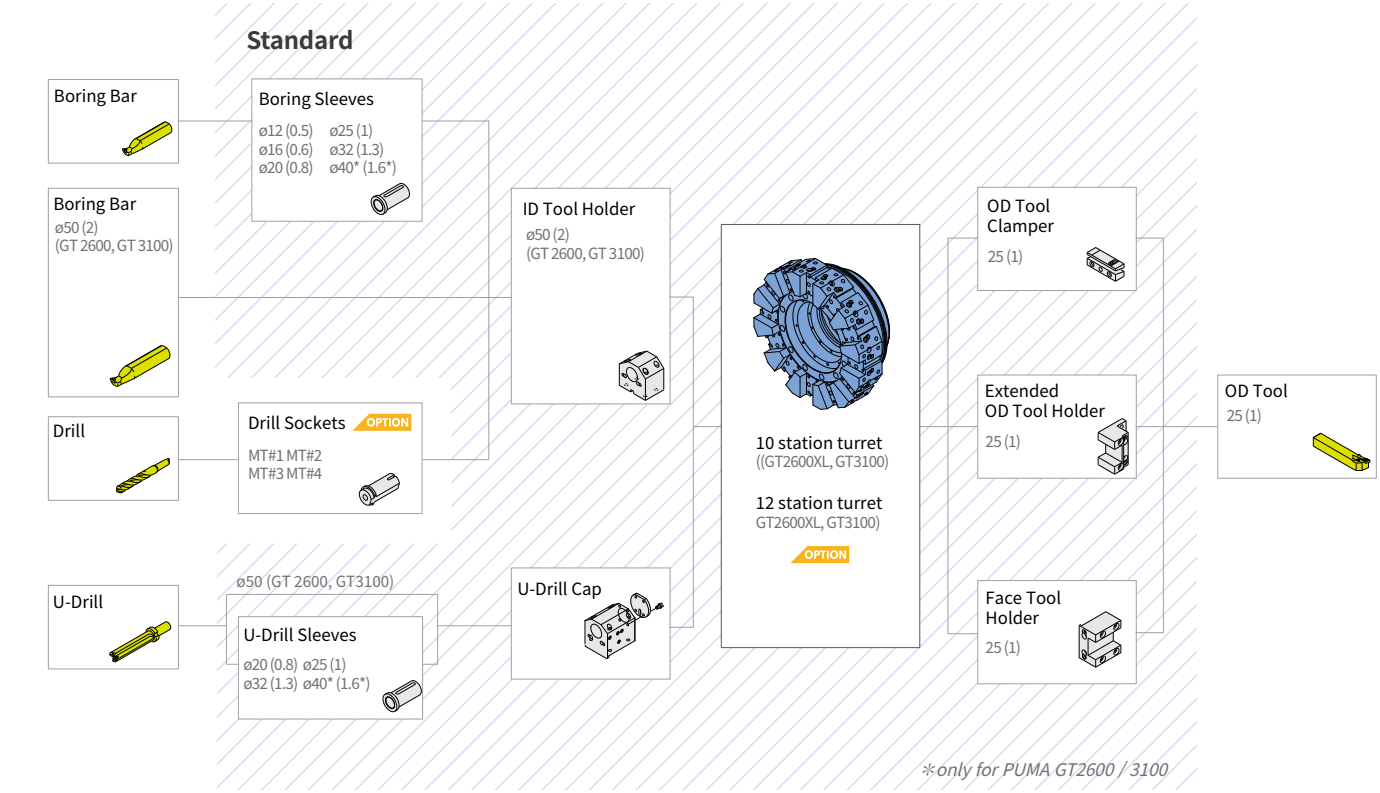
** Some peripheral equipment can be placed in other places*

**Specification with side type chip conveyor*

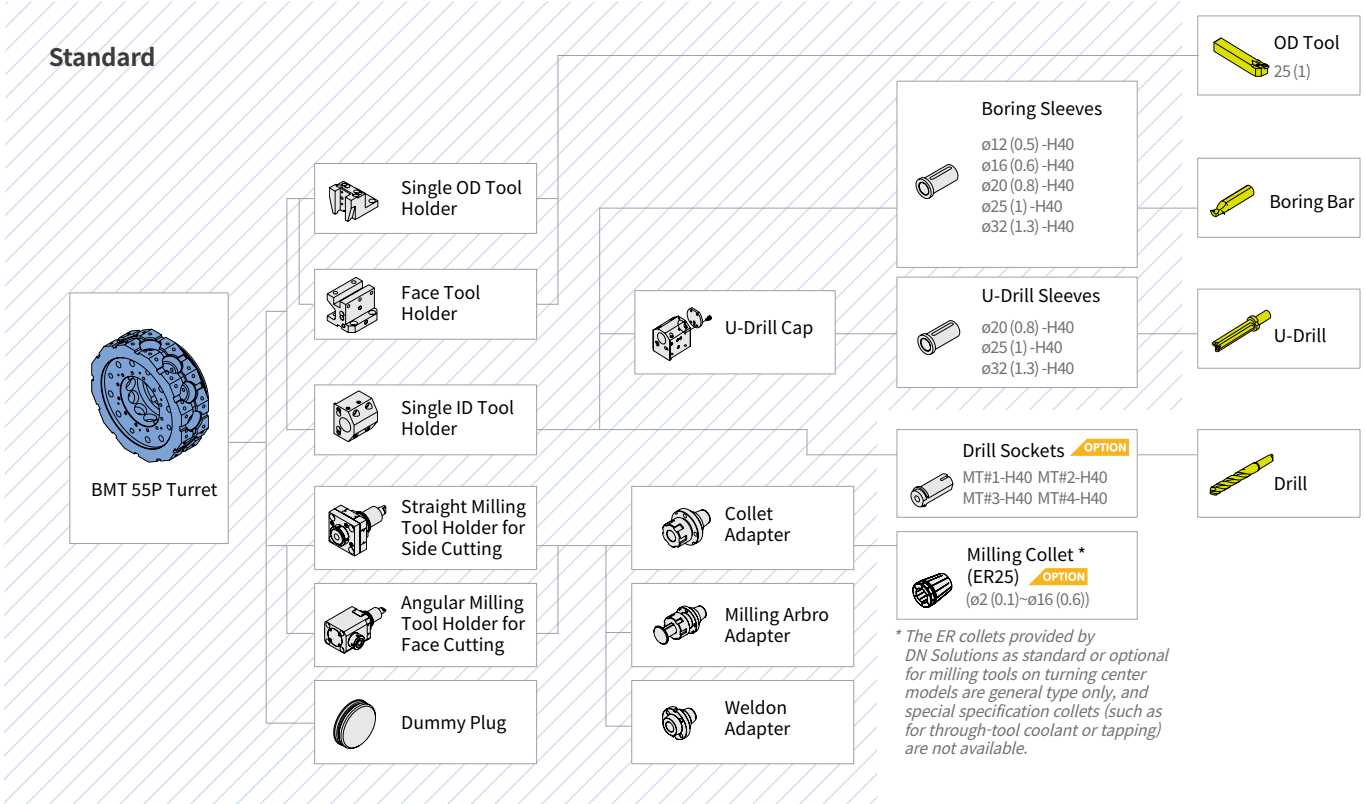
TOOLING SYSTEM

Units : mm (inch)

PUMA GT2600XL, **PUMA GT**3100 (2axis, 10/12station)



PUMA GT2600XL (3axis, 12station, BMT55P)

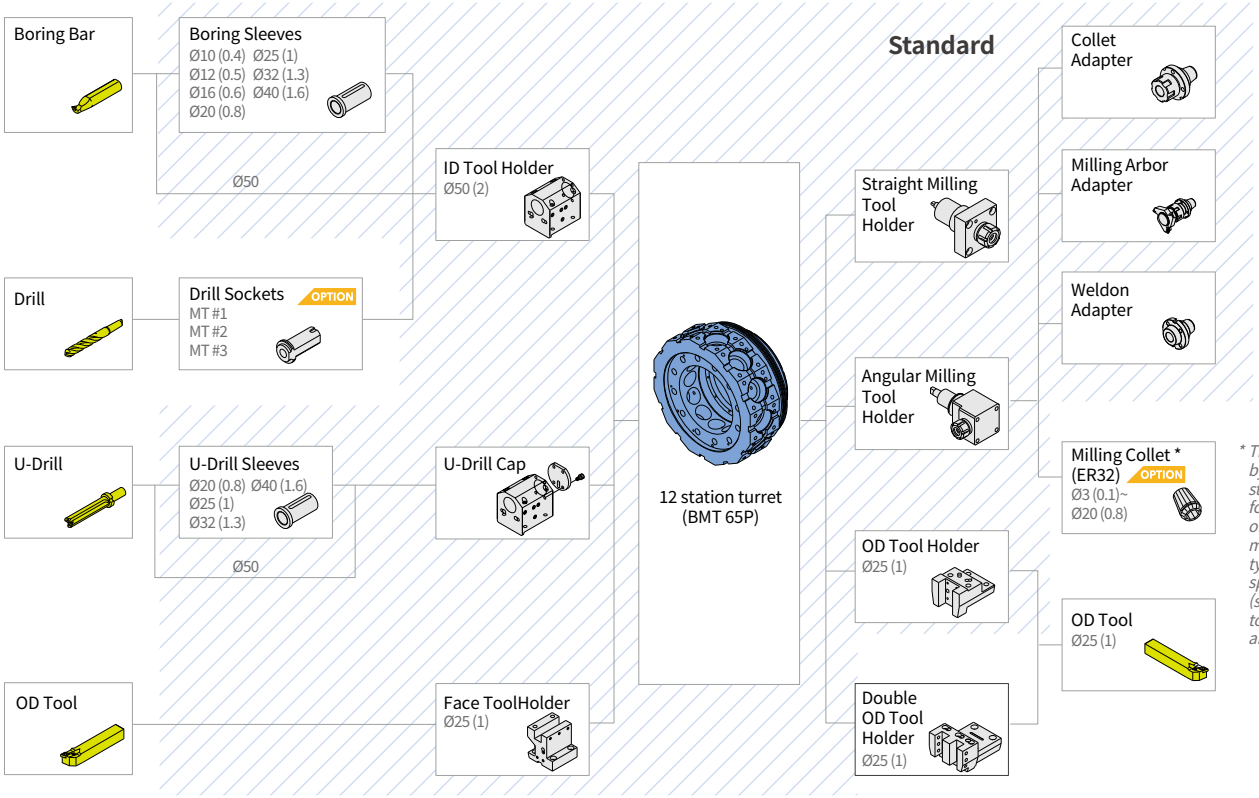


** The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.*

TOOLING SYSTEM

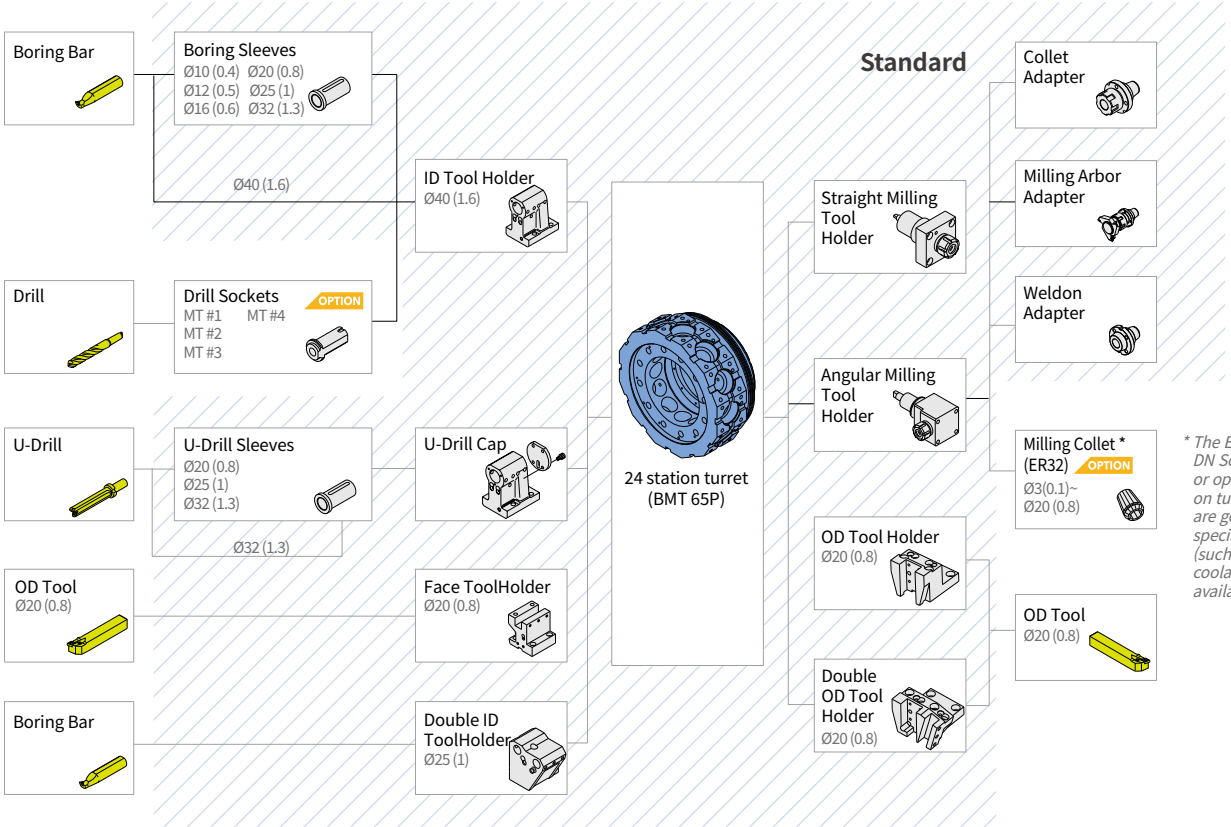
Units : mm (inch)

PUMA GT3100M / LM (12station, BMT65)



** The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.*

PUMA GT3100M/LM (24station, BMT65P) OPTION



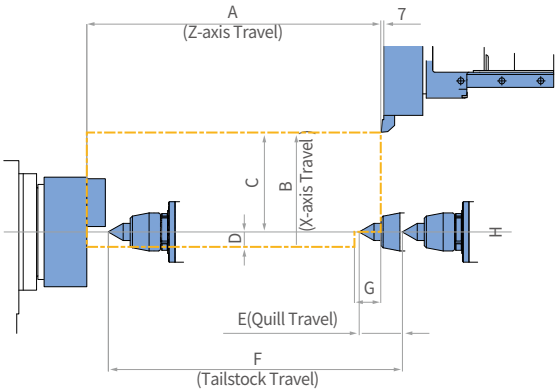
** The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.*

WORKING RANGE

PUMA GT2600XL (2axis)

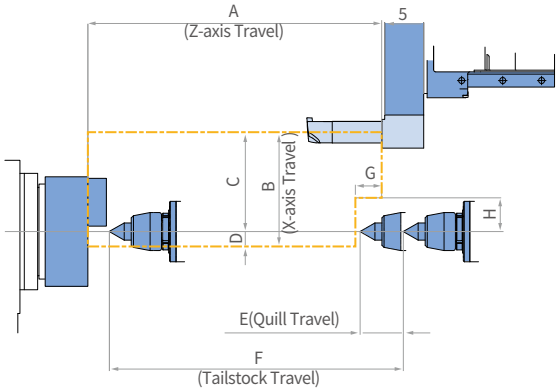
Units : mm (inch)

OD CLAMPER



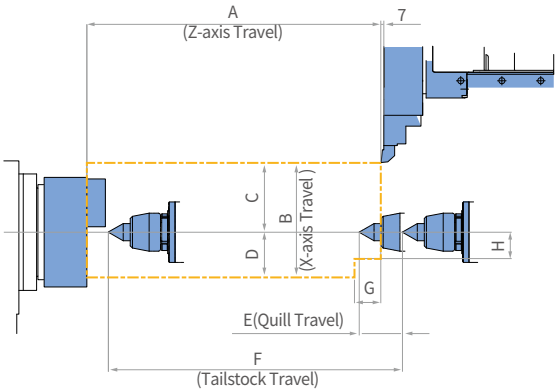
	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	230 (9.1)	35 (1.4)	100 (3.9)	1625 (64.0)	61 (2.4)	0

ID HOLDER



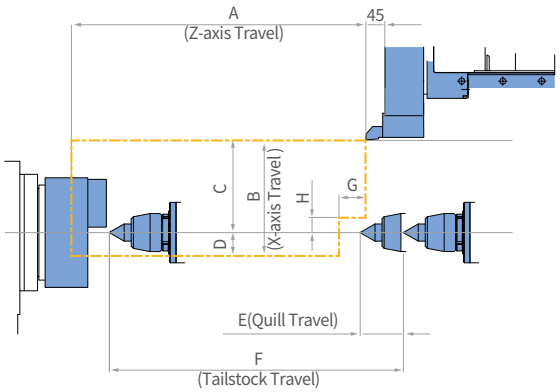
	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	230 (9.1)	35 (1.4)	100 (3.9)	1625 (64.0)	61 (2.4)	78 (3.1)

EXTENDED OD HOLDER



	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	160 (6.3)	105 (4.1)	100 (3.9)	1625 (64.0)	61 (2.4)	-62 (-2.4)

FACE TOOL HOLDER



	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	213 (8.4)	52 (2.0)	100 (3.9)	1625 (64.0)	61 (2.4)	35 (1.4)

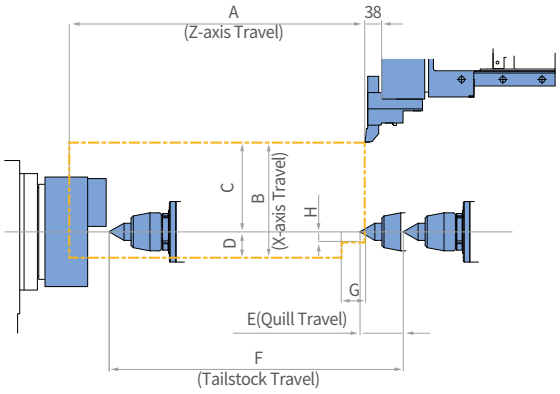
** for H : (-) Downward direction of spindle center line / (+) Upward direction of spindle center line*

WORKING RANGE

PUMA GT2600XL (3axis)

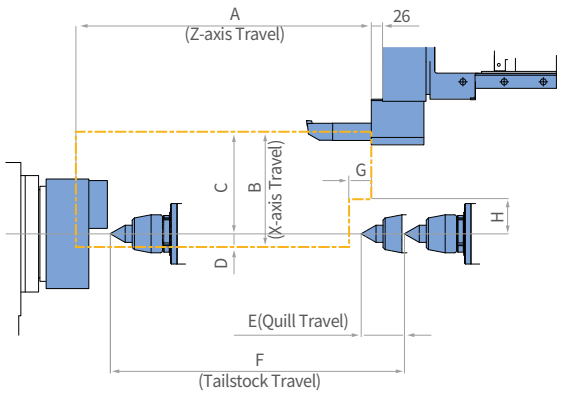
Units : mm (inch)

OD HOLDER



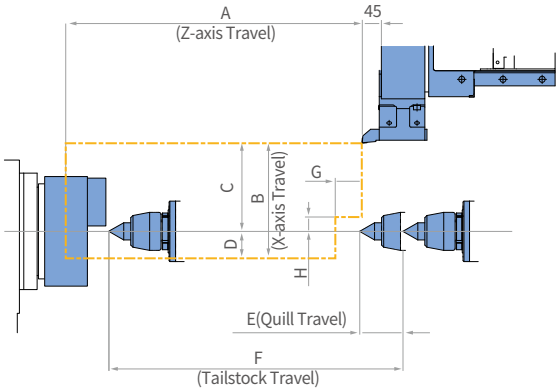
	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	205 (8.1)	60 (2.4)	100 (3.9)	1625 (64.0)	46 (1.8)	-25 (-1.0)

ID HOLDER



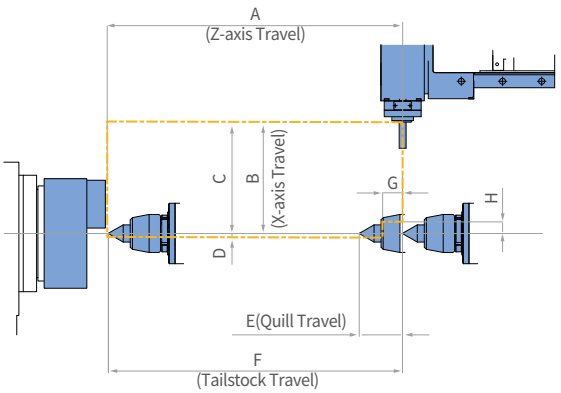
	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	235 (9.3)	30 (1.2)	100 (3.9)	1625 (64.0)	51 (2.0)	80 (3.1)

FACE TOOL HOLDER



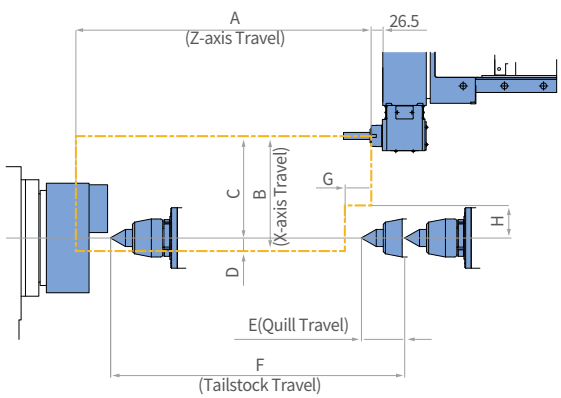
	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	203 (8.0)	62 (2.4)	100 (3.9)	1625 (64.0)	61 (2.4)	33 (1.3)

StRAIGHT MILLING HOLDER



	A	B	C	D	E	F	G	H*
PUMA GT2600XL	1625 (64.0)	265 (10.4)	256 (10.1)	9 (0.4)	100 (3.9)	1625 (64.0)	46 (1.8)	26 (1.0)

ANGULAR MILLING HOLDER



	A	B	C	D	E	F	G	H*
PUMA GT2600XLMA(B)	1625 (64.0)	265 (10.4)	235 (10.1)	30 (1.2)	100 (3.9)	1625 (64.0)	61 (2.4)	75 (3.0)

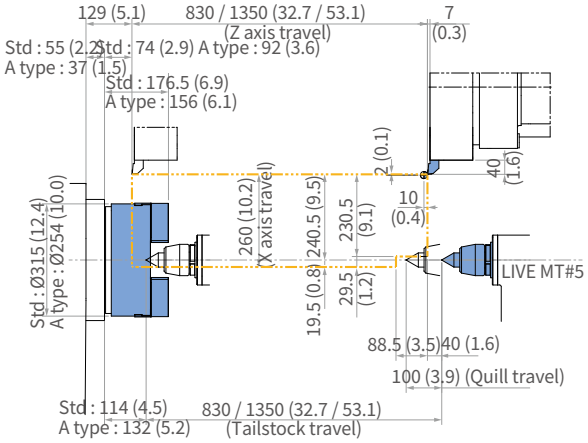
** for H : (-) Downward direction of spindle center line / (+) Upward direction of spindle center line*

WORKING RANGE

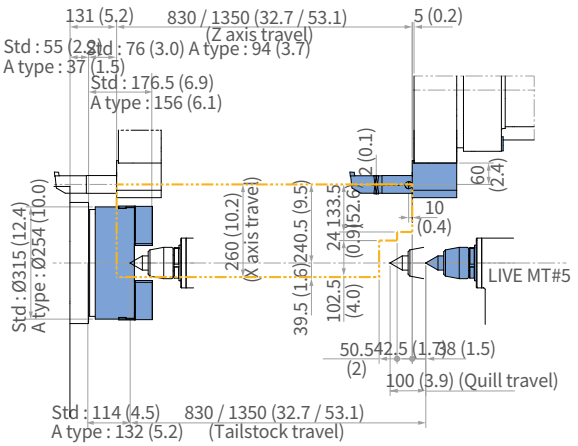
PUMA GT3100 / 3100L (2axis)

Units : mm (inch)

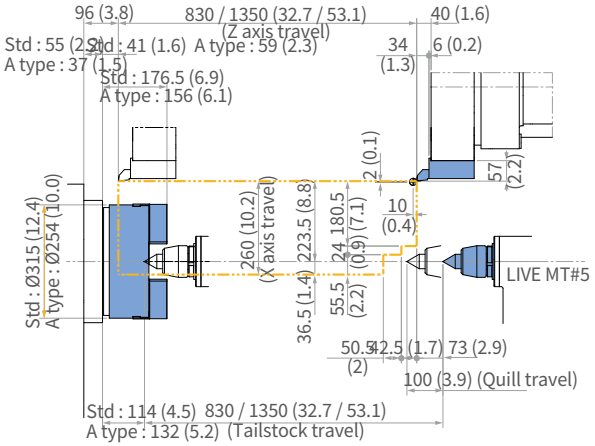
OD CLAMPER



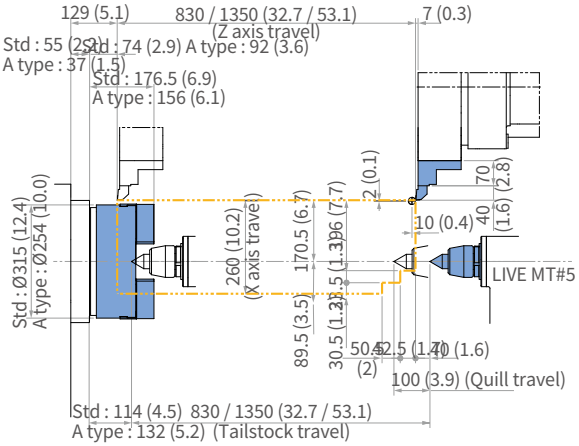
ID HOLDER



FACE TOOL HOLDER



EXTENDED OD HOLDER

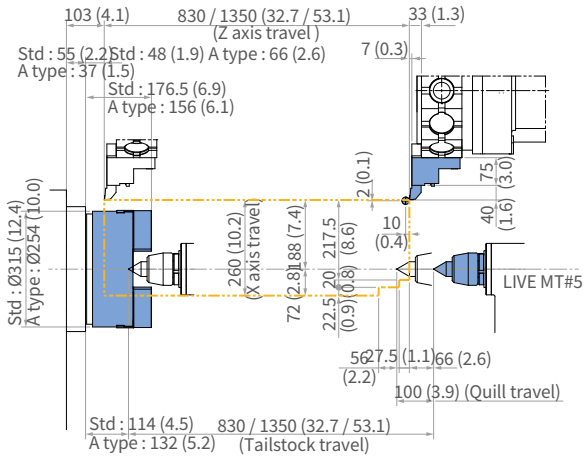


WORKING RANGE

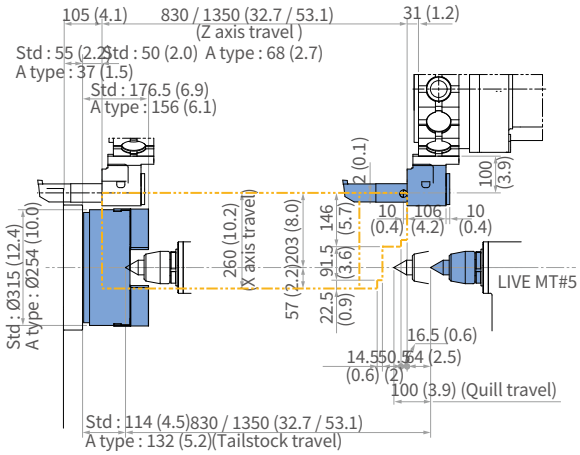
PUMA GT3100M / 3100LM (M, BMT65P)

Units : mm (inch)

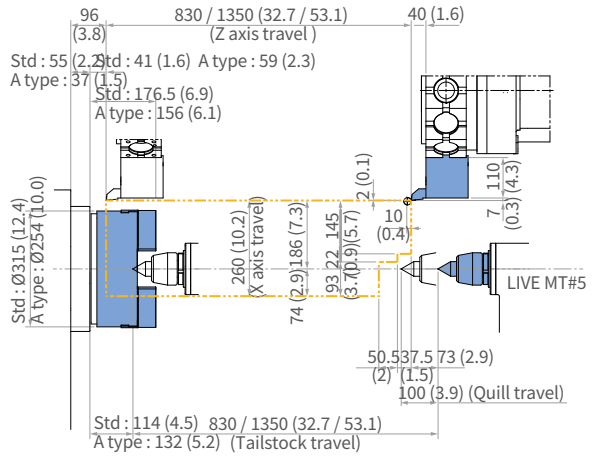
OD HOLDER



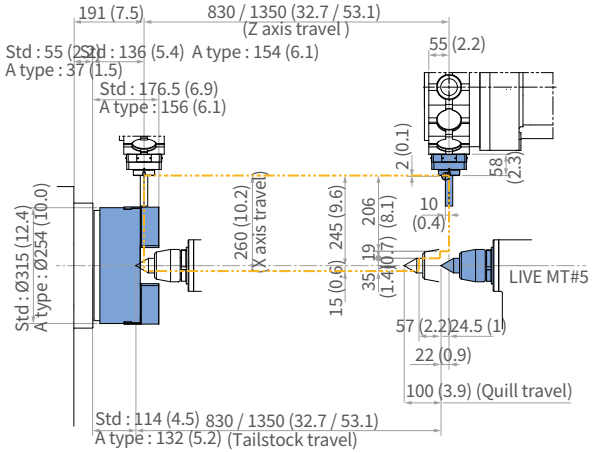
ID HOLDER



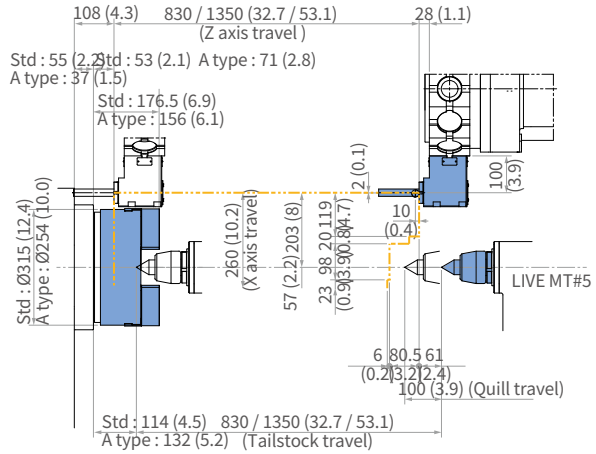
FACE TOOL HOLDER



StRAIGHT MILLING HOLDER



ANGULAR MILLING HOLDER



MACHINE SPECIFICATIONS

Description			mm (inch)	PUMA GT2600XLA[XLB]	PUMA GT2600XLMA[XLMB]	PUMA GT 3100 [L]	PUMA GT3100M [LM]
Capacity	Swing over bed		mm (inch)	630 (24.8)		720 (28.3)	
	Swing over saddle		mm (inch)	460 (18.1)		590 (23.2)	
	Recommanded turning dia.		mm (inch)	255 (10.0)		315(12.0)	
	Max. turning dia.		mm (inch)	460 (18.1)	410 (16.1)	481 (18.9)	376 (14.8)
	Max turning length		mm (inch)	1603 [1573]	1555 [1525]	755 [1275] (2.9 [50.2])	725 [1245] (28.5 [49.0])
	Chuck size		inch	10 [12]		12	
	Bar working dia.		mm (inch)	81 [102] (3.2 [4.0])		102 (4.0)	
Travels	Travel distance	X-axis	mm (inch)	265 (10.4)		260 (10.2)	
		Z-axis	mm (inch)	1625 (26.8)		830 [1350] (32.7 [53.1])	
Feedrates	Rapid Traverse Rate	X-axis	m/min (ipm)	24 (945)		24 (945)	
		Z-axis	m/min (ipm)	30 (1181)		30 (1181)	
Main spindle	Max. Spindle speed		r/min	3500 [2500]		2800	
	Main spindle motor power		kW (Hp)	26 / 22 / 18.5 (34.9 / 29.5 / 24.8) (S6 25% / S6 60% / S1 Cont.) [LOW WINDING 22 / 13 (S6 15% / S1 Cont.)] [HIGH WINDING 26 / 22 / 18.5 (S6 25% / S6 60% / S1 Cont.)]		35 / 26 / 22 (46.9 / 34.9 / 29.5) (S6 25% / S6 60% / S1 Cont.)	26 / 22 / 18.5 (34.9 / 29.5 / 24.8) (S6 25% / S6 60% / S1 Cont.)
	Max. Spindle torque		N·m (lbf-ft)	734 [990] (541.7 [730.6])		1613 (1190.4)	1123 (828.8)
	Spindle nose		ASA	A2-8 [A2-11]		A2-11	
	Spindle bearing diameter (Front)		mm (inch)	140 [160] (5.5 [6.3])		160 (6.3)	
	Spindle through hole		mm (inch)	91 [115] (3.6 [4.5])		115 (4.5)	
	Min. spindle Indexing angle (C-axis)		deg	-	0.001	-	0.001
Turret	No. of tool stations		ea	10 {12}*	12	10 {12}	12 {24 position index}*
	OD tool size		mm (inch)	25 x 25 (1 x 1)		25 x 25 (1 x 1)	
	Max. boring bar size		mm (inch)	50 (2.0)	40 (1.6)	50 (2.0)	
	Turret Indexing time (1 station swivel)		s	0.15		0.15	
	Max. Rotary tool speed		r/min	-	5000	-	5000
	Rotary tool motor power		kW (Hp)	-	5.5 (7.4)	-	7.5 (10.1)
Tailstock	Tailstock travel		mm (inch)	1625 (64.0)		830 [1350] (26.8 [45.3])	
	Quill diameter		mm (inch)	100 (3.9)		100 (3.9)	
	Quill travel		mm (inch)	100 (3.9)		100 (3.9)	
	Quill bore taper		MT	MT#5 {#4(Dead)}*		MT#5 {#4(Dead)}*	
Power source	Electric power supply (rated capacity)		kVA	34.58		36	34
Machine Dimensions	Length		mm (inch)	4855 (191.1)		4068[4633] (160.2[182.4])	3865[4465] (152.2[175.8])
	Width		mm (inch)	2198 (86.5)		2102 [2394] (82.8 [94.3])	
	Height		mm (inch)	2030 (79.9)		2110 (83.1)	
	Weight		kg (lbf)	5900 [6050] (13007.1 [13337.8])	5950 [6100] (13117.3[13448.0])	5500 [6900] (12125.2 [15211.7])	5650 [7050] (222.4 [(277.6])
Control	NC system						

*{} : option *** The specifications and information above-mentioned may be changed without prior notice. For more details, please contact DN Solutions

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- Scheduled preventive maintenance
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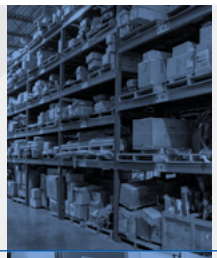

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** For more details, please contact DN Solutions.*
** Specifications and information contained within this catalogue may be changed without prior notice.*

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