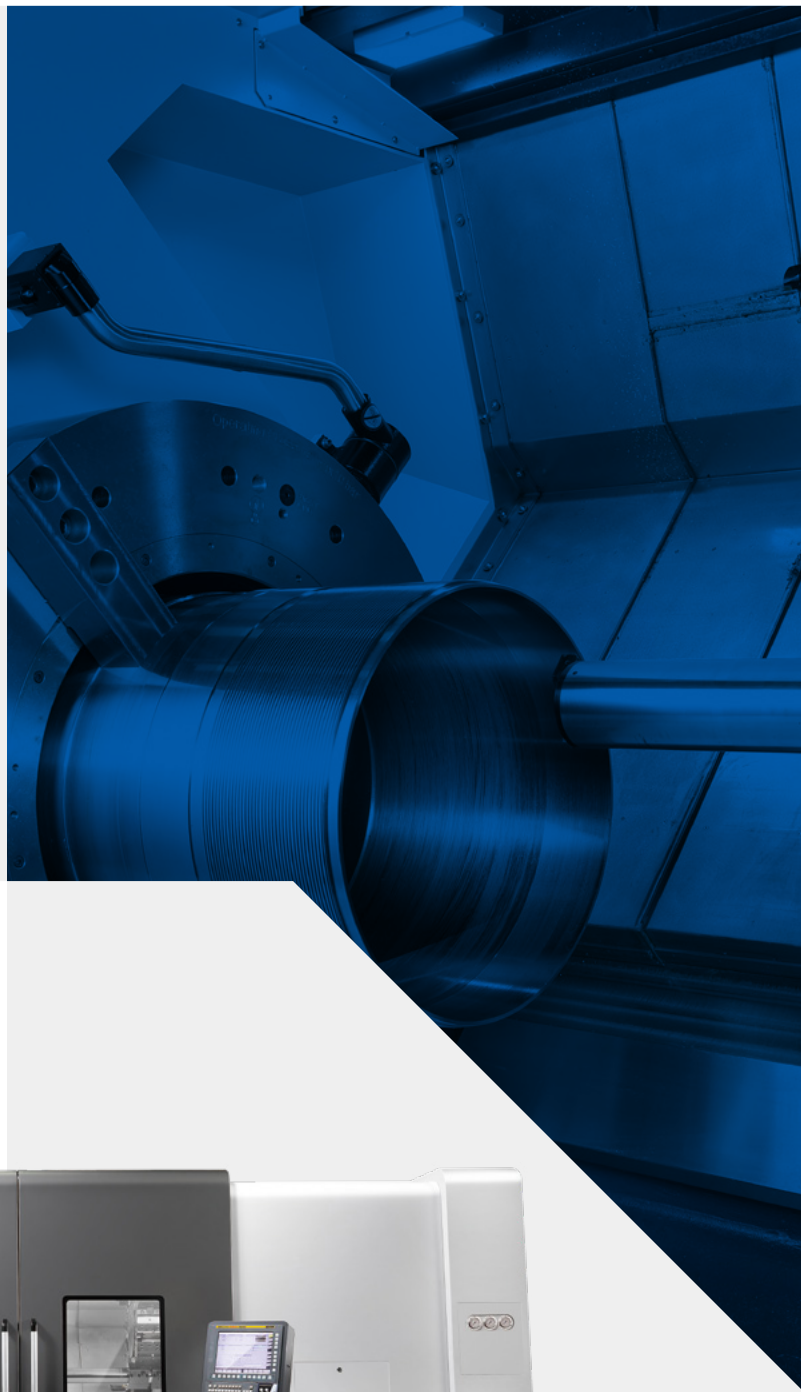


LARGE-SIZED BIG BORE HEAVY DUTY TURNING CENTER
WITH UP TO 560MM SPINDLE BORE

PUMA 1000

PUMA 1000/M



PUMA 1000

The PUMA 1000 series machines are large horizontal turning centers, optimized for the machining of pipe and flange type parts typically found in the oil & gas, power generation, aerospace and construction and shipbuilding industries.

The machines deliver powerful machining capability and feature a two-step gearbox and high torque motors together with a rigid box guideway structure. Highly rigid servo-driven turrets ensure fast and stable tool rotation and impressive stability required for heavy-duty cutting and high accuracy milling operations.

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IDEAL SPECIFICATION FOR MACHINING LARGE WORKPIECES



- The Number One choice for machining large parts and undertaking powerful cutting operations with a maximum turning diameter of $\text{Ø}1000$ mm (39.4 inch), a machining length of 2,000 mm (78.7 inch) and maximum spindle torque 12,040 N-m (8,885.5 ft lbs).

PROVIDING A RANGE OF PIPE MACHINING SOLUTIONS



- Maximum $\text{Ø}560$ mm ($\text{Ø}22.0$ inch) big bore spindle enables the machining of parts longer than the distance between centers.
- PUMA 1000 machines are capable of performing threading work.

IMPROVED PRODUCTIVITY



- Turret indexing is possible, even with a long boring bar ($\text{Ø}100 \times \text{L}1000$ mm ($\text{Ø}3.9 \times 39.4$ inch)) mounted on the recently- designed high-rigidity turret that delivers improved machining stability and productivity.

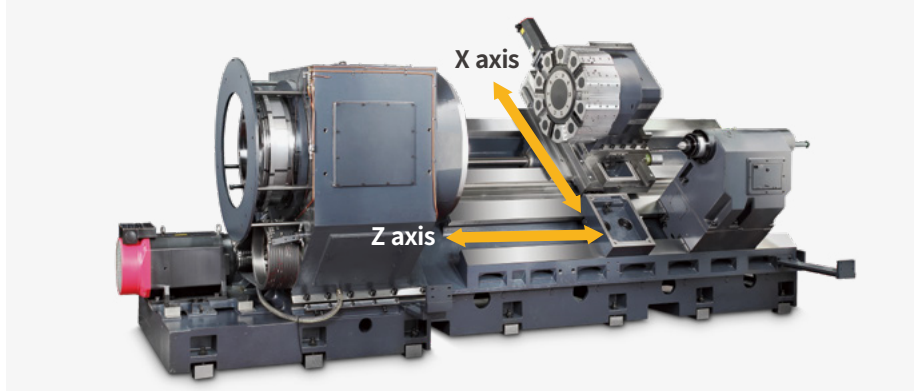


BASIC STRUCTURE

A 45° slant bed with hardened and ground box guideways is made from Meehanite cast iron. The basic structure is designed to minimize deformation from occurring during heavy duty machining.

Structural stability of slant bed and box guideway

The PUMA 1000 series has been developed with years and years of accumulated engineering know-how and experience of designing and manufacturing large capacity Puma lathes behind it. PUMA 1000's rigid structure guarantees process reliability and efficient machining.



MACHINING AREA

PUMA 1000 machines are configured for machining pipes with big bores typically found in the oil and gas industry, and in sectors requiring large machined parts.

Spacious working envelope for machining large workpieces

PUMA 1000 machines' large working envelopes, big bore spindles and large swing over table enables the machining of big steel rollers, large diameter flanges, and long shafts found in ships etc.

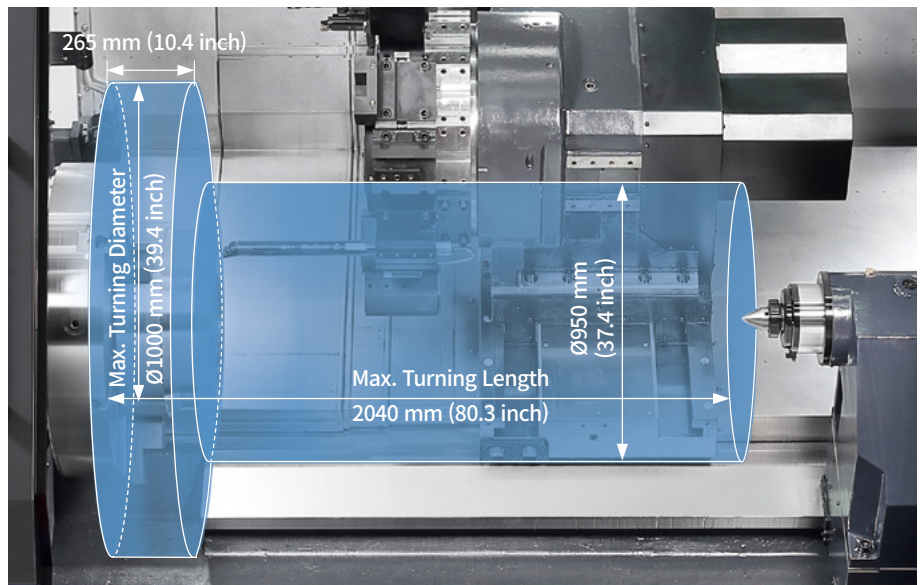
Max. turning diameter

Ø1000 mm (ø39.4 inch)

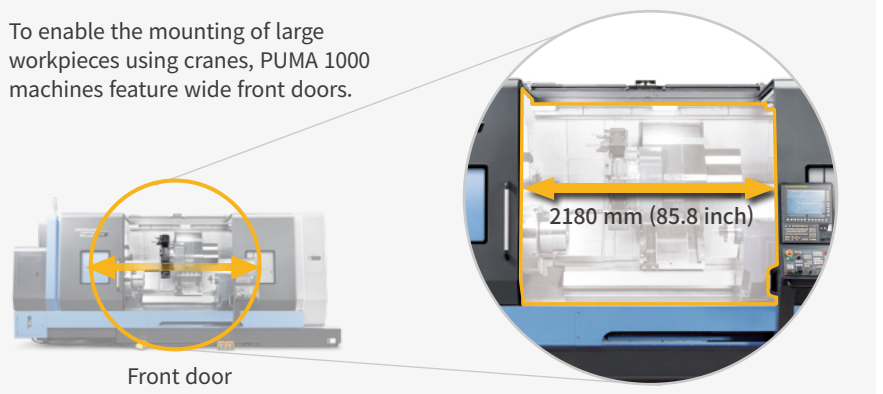
Max. turning length*

2040 mm (80.3 inch)

* Max. turning length varies and depends on the chuck selected.



To enable the mounting of large workpieces using cranes, PUMA 1000 machines feature wide front doors.



Front door

SPINDLE

Powerful motors and large spindle bores $\varnothing 560$ mm ($\varnothing 22.0$ inch) enable Puma 1000 turning centers to machine shafts and valves etc., that are longer than the distance between centers.

Extra large diameter spindle though hole (bore)

PUMA 1000 machines have big spindle-through-hole capacities - up to $\varnothing 560$ ($\varnothing 22$ ")mm - and powerful spindles - up to 75kW (100.1Hp) - with two-step gearboxes that deliver unrivalled performance.

Max. spindle through hole diameter

PUMA 1000A/MA {1000B/MB}

$\varnothing 375$ { $\varnothing 560$ } mm
($\varnothing 14.8$ { $\varnothing 22.0$ } inch)

Max.spindle power (30min/cont.)

75/60 kW (100.6/80.5 HP)

Max. spindle speed

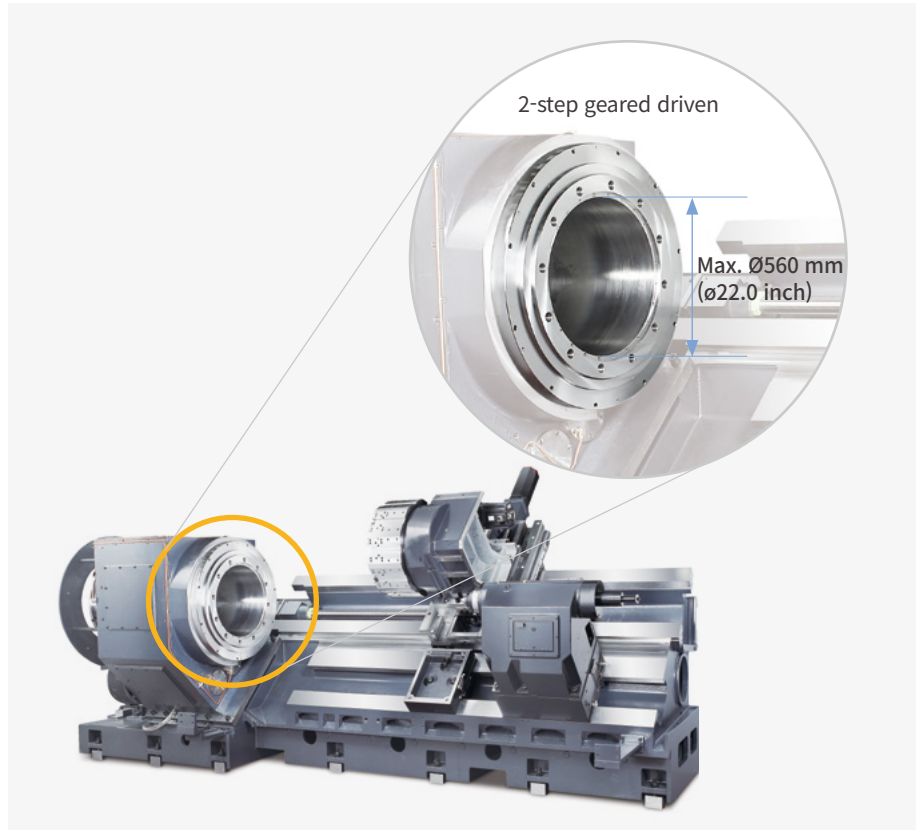
PUMA 1000A/MA {1000B/MB}

500 {300} r/min

Max. spindle torque

PUMA 1000A/MA {1000B/MB}

11011 {12040} N·m
(8126.1 {8885.5} ft·lb)



TAILSTOCK

Highly-rigid programmable tailstocks are available as standard to provide stable support for machining long workpieces.

Programmable tailstock with built-in dead center

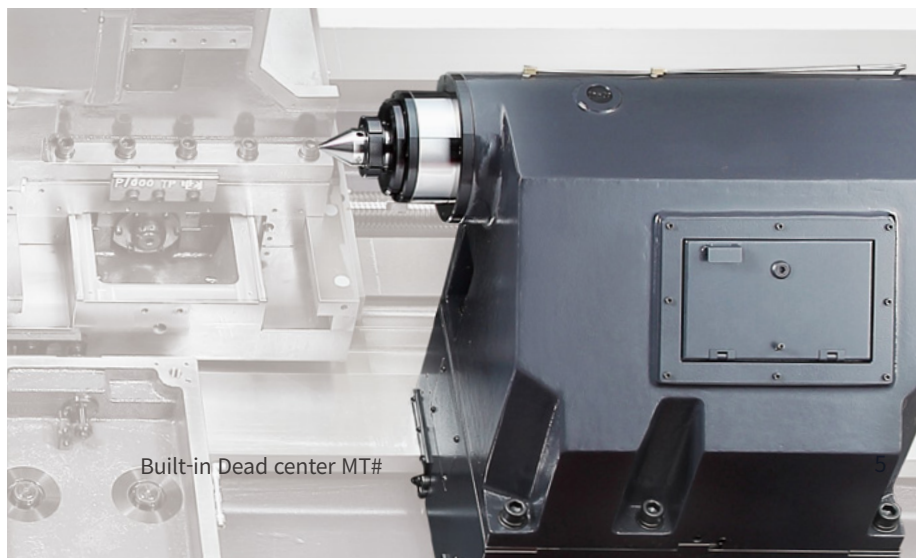
The tailstock, supported by hardened and ground boxed ways, comprises a one-piece structure with the machine base, ensuring high structural rigidity. Its built-in type dead center supports heavy workpieces while maintaining machining accuracy.

Tailstock travel

1900 mm (74.8 inch)

Quill travel / Quill spindle diameter

150/Ø180 mm
(5.9 / $\varnothing 7.1$ inch)



TURRET

Strong, large-sized and rigidly-built servo-driven turrets ensure fast and stable tool rotation, and best-in-class process reliability for heavy-duty machining and milling operations.

Servo-driven turret

The powerful servo-driven turret provides accurate location control and quick and stable tool exchange. The width of the turret has been doubled, compared to PUMA 600/700/800 machines, ensuring high process stability - especially required when machining long parts and during heavy-duty operations.

No. of tool station

PUMA 1000

10 stations (for turning only)

Max. OD tool size

32 x 32 mm
(1.25 X 1.25 inch)

Max. Boring Bar Size

Ø80 mm
(ø3.1 inch)

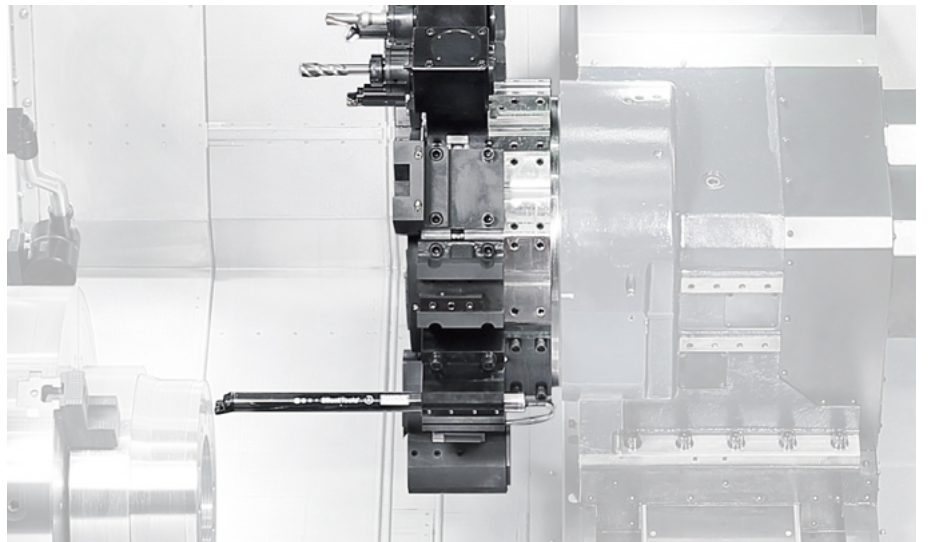
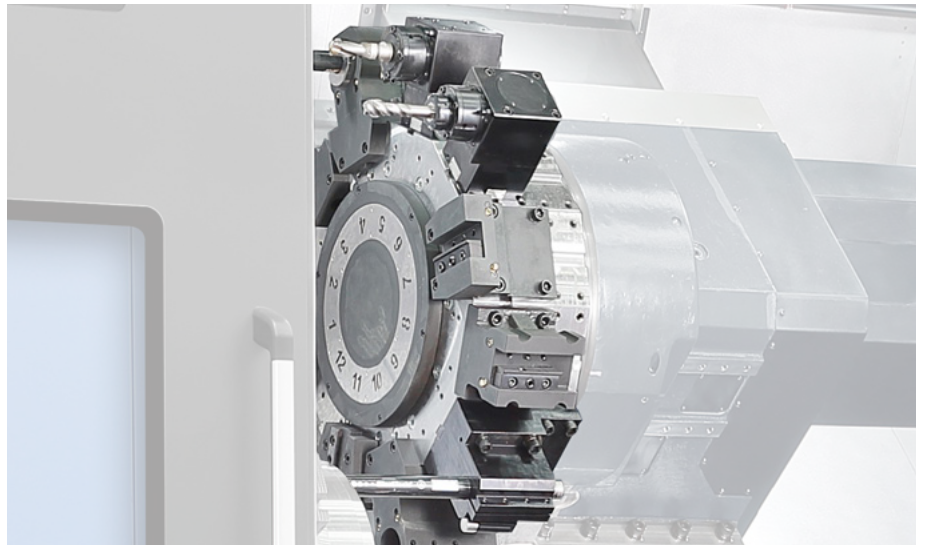
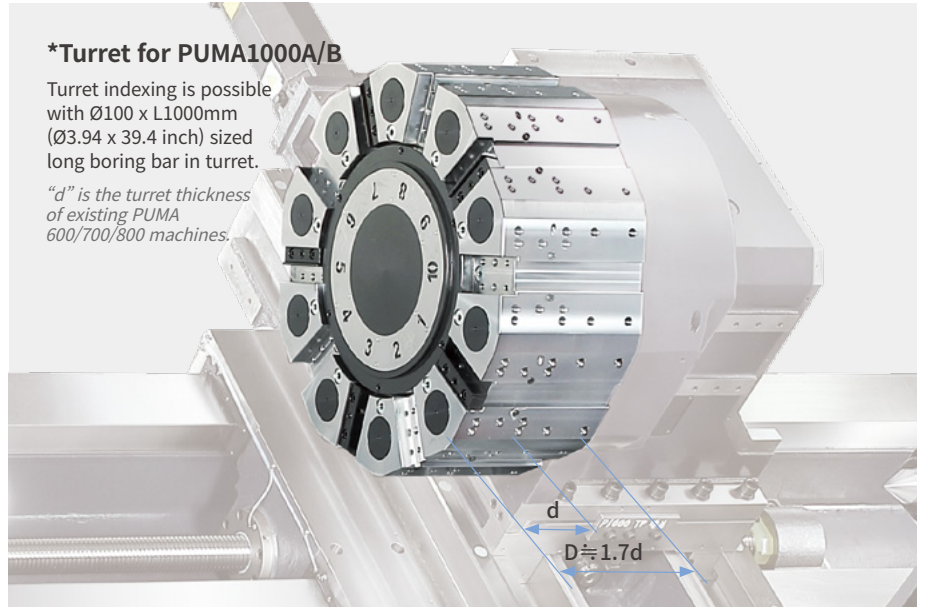
Tool holder type

PUMA 1000M

BMT85P

No. of tool station

12 stations




STANDARD | OPTIONAL SPECIFICATIONS

Diverse optional features are available for customer-specific work applications.

Description	Features			PUMA1000A	PUMA1000B
				2 axis / M	2 axis / M
Chuck (Left / Right)	None			●	●
	32 Inch			○	X
	40 Inch			X	△
Jaws (Left / Right)	Soft Jaws			○*1)	△
	Hardened & Ground Hard Jaws			○	△
Chucking Option	Single Pressure Chucking			●	X
	Dual Pressure Chucking			○	X
	Cuck Clamp Confirmation			●	X
Steady Rest*	Dimension	Pressure	ø100~ø410 (K5.1Z)	○	○
			ø135~ø460(K6Z)	○	○
			ø215~ø510(K6.1Z)	○	○
	Type (Programmabl)	Single		○	○
		Twin		○	○
Double			○	○	
Tailstock	Programmable Dead Center			●	●
Coolant Pump	4.5 bar			●	●
	7/10/14.5/28/70 bar			○	○
Coolant Options	Oil Skimmer			○	○
	Water soluble Coolant Chiller***			○	○
	Coolant Pressure Switch			○	○
	Coolant Gun			○	○
Chip Disposal	Chip Conveyor_Side Type			○	○
	Chip Bucket			○	○
	Air Blow			○	○
	Mist Collector Interface (Duct only)			○	○
	Integrated Mist Collector			○	○
Measurement & Automation	Tool Setter	Auto		○	○
	Auto Door			○	○
Optional devices	Tool Load Monitoring			●	●
	Signal Tower			○	○
	Air Gun			○	○
	Auto Power Off			○	○
	Air Unit for Air Cuck	Single		○	○
		Twin		○	○
	Quick change tooling(CAPTO)			○	○
	Sketch-turn S/W			○	○
Customized Special Option	STEADY REST	PROGRAMMABLE	RX-6.1 (Ø250 ~ Ø685)	○	○
	CHUCK	40INCH (OUT DIAMETER Ø1000)		○	○
		TWIN CHUCKING **		○	○
	Coolant level switch : Sensing level - Low			○	○
Standard Accessories	FOUNDATION BOLT FOR ANCHORING			●	●

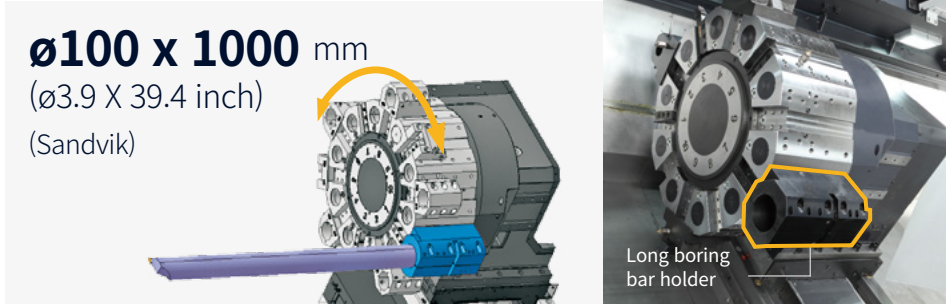
* Please contact DN Solutions to select detailed steady rest specifications ● Standard ○ Optional X N/A
 * When using a semi-synthetic type or synthetic type, contact our sales representative or service center in advance.
 1) Each chuck comes with 1set of soft jaws as standard. ** Please contact DN Solutions to select detailed Twin Chucking specification.
 *** Technical consultation is mandatory for the chilling of non-water soluble coolant

 **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

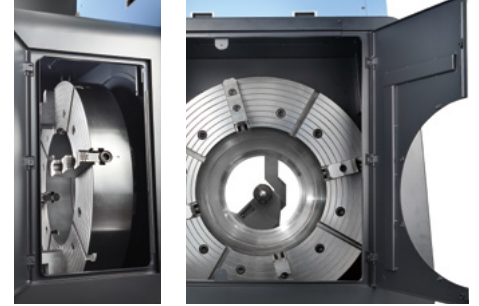
Long boring bar OPTION

The long boring bar option allows customers to machine deep holes quickly and easily to minimize cycle times. Please consult DN Solutions for details.



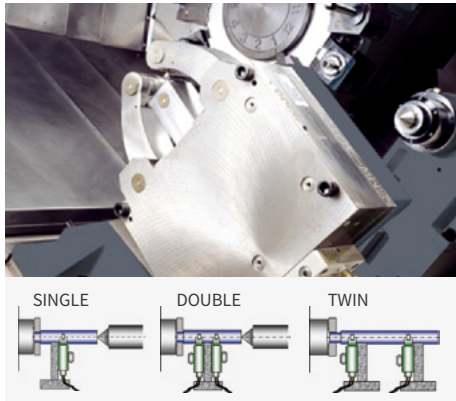
Twin chucking OPTION

For more stable pipe threading processes, the twin chucking option (manual or pneumatic) is available. Please consult with DN Solutions for details.



Steady rest OPTION

For turning extremely long parts various types of hydraulic steady rests (Single, Double or Twin) are available.



Auto tool setter OPTION

Best practice for shaft machining, the pocket of the chuck cover accommodates the overhang of the tool, minimizing interference and enhancing tool usability.

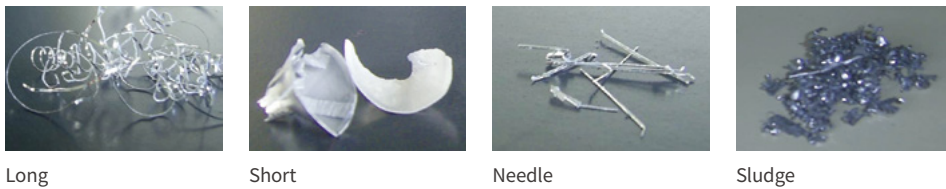


Quick change CAPTO OPTION

The quick change tool system simplifies tool change operations. Recommended for customers who need to change tools frequently or to reduce set-up times.



Chip conveyor OPTION



Hinged belt type*

Most common type of chip conveyor. Appropriate for steel materials generating chips over 30mm.

Drum filter type**

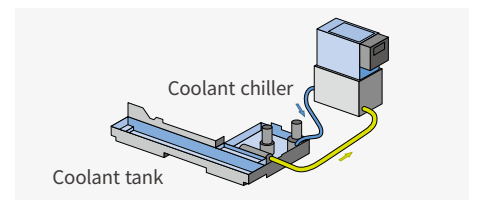
Chip conveyor with a magnet: Appropriate for machining cast iron and the generation of fine chips.

Chip conveyor type	Material	Carbon steel			Cast iron		Aluminium		
		Long	Short	Needle	Short	Sludge	Long	Short	Needle
Hinged belt type*		○	△	X	△	X	○	△	X
Scraper type	Normal	X	○	△	○	△	X	△	X
	Magnetic	X	○	○	○	○	-	-	-
Drum filter type**	Hinged type	○	△	X	△	X	○	△	X
	Scraper	X	○	△	○	△	X	○	△

● : Suitable, △ : Possible, X : Not suitable

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 a high-pressure coolant system (i.e., power over 1.5kW).



Coolant tank

DN Solutions's ergonomic roller coolant tank design allows customers to easily replace and refill coolant. Rollers on the coolant tank allows them be taken out and put back into the machine like a drawer unit.



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 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	Note *2) Available Option only with 15" Touch LCD (iHMI Only)	○ *2)	○ *2)
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	Note *1) Only with 15" Touch LCD standard	○ *1)	○ *1)
	EZ Operation package		●	●
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 5120M(2MB)_1000 programs	X ●	X ●

CONVENIENT OPERATION

Siemens S828D

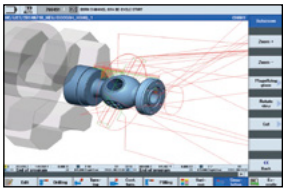


15.6 inch display + New OP

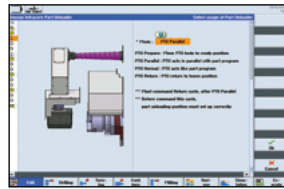
Siemens 828D' operation panel enhances operating convenience by incorporating common-design buttons and layout. It features a Qwerty keyboard for fast and easy data input and operation.

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

Convenient conversational functionality

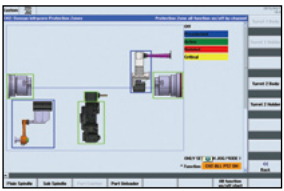


Cutting and operation support function
This function shows a cutting and tool path simulation in real-time.



Shop-turn mode
[various]
↓
[attachments]

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



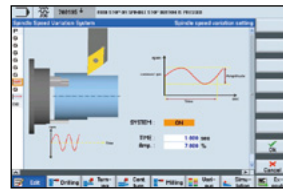
[Custom]
↓
[Protection zones]

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



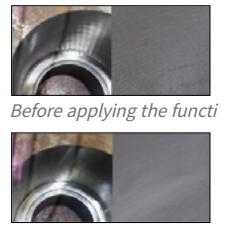
[offset]
↓
[operating parameter]
↓
[TC service]

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

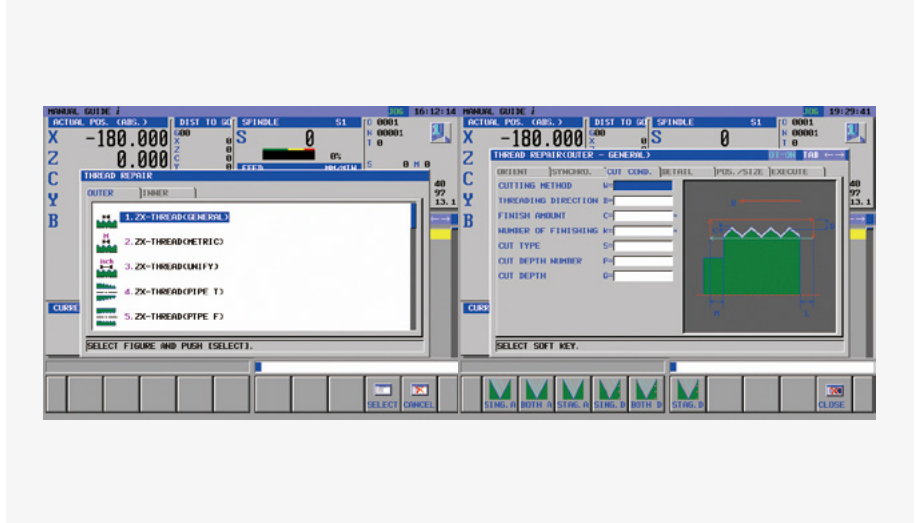
STABLE THREADING PERFORMANCE

2-axis* through to Y-axis models are capable of threading work.

* In order to re-machine threads or perform arbitrary speed threading on a 2-axis machine, additional options/accessories have to be selected.

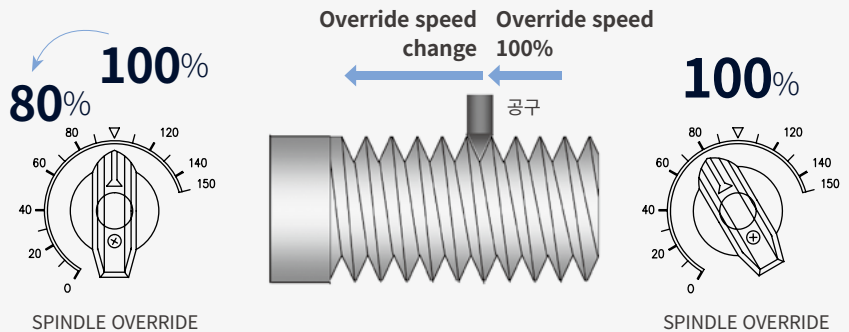
Threading repair function

This standard Fanuc NC function allows users to repair threads even when the original program is no longer available or cannot be accessed available.



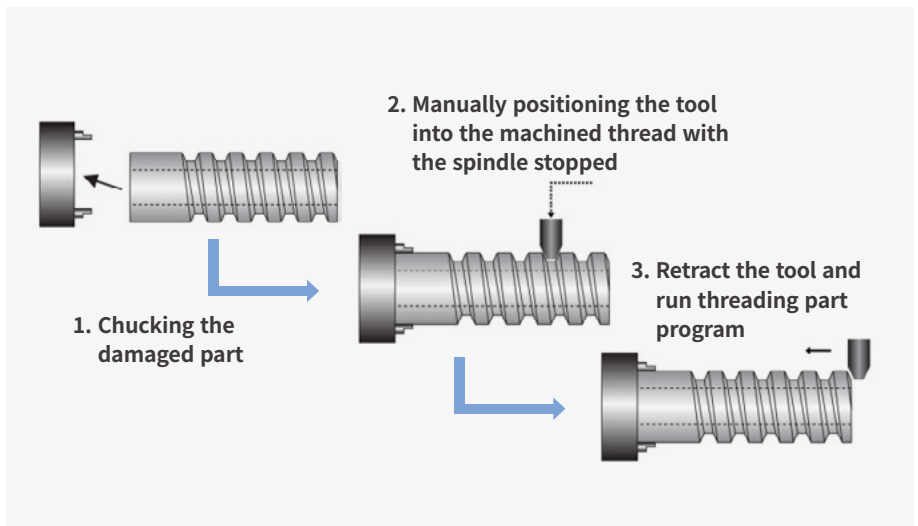
Arbitrary speed threading OPTION

This function allows users to control and override spindle speeds in order to produce/replicate the best thread quality.



Re-machining function

This function is included within the arbitrary speed threading software and enables customers to re-machine damaged threads using existing programs.



POWER | TORQUE

FANUC

PUMA 1000A/MA

Max. spindle speed

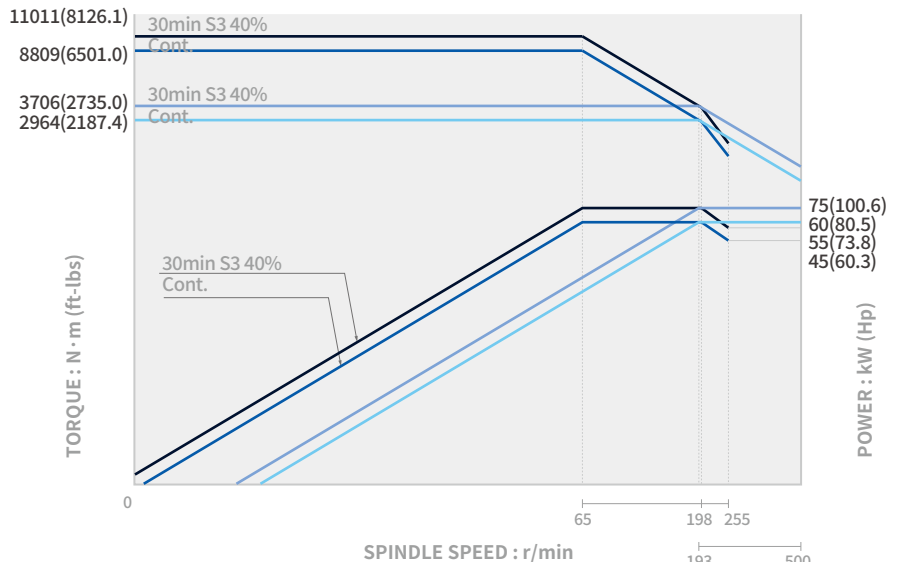
500 r/min

Max. spindle power

75/60 kW (100.6 / 80.5 HP)

Max. Spindle torque

11011 N·m (8126.1 ft-lbs)



PUMA 1000B/MB

Max. spindle speed

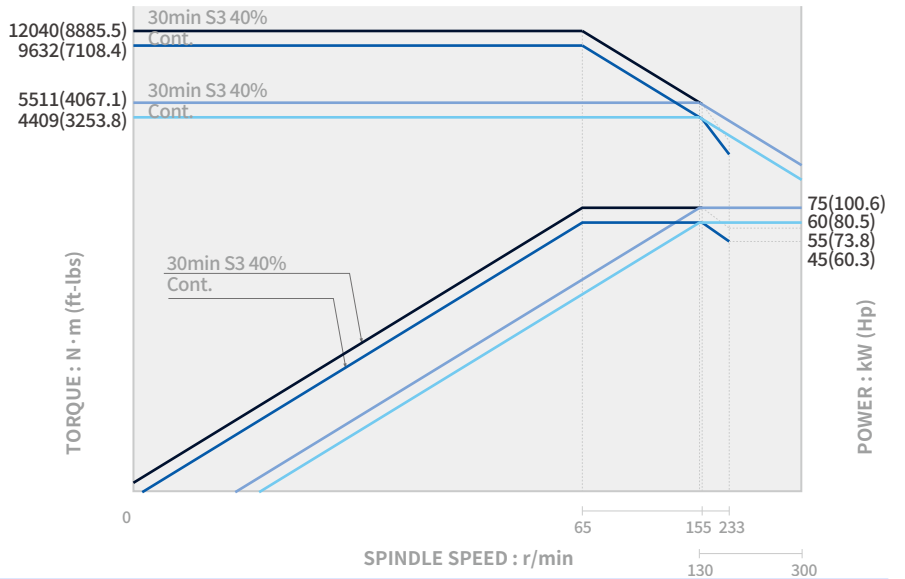
300 r/min

Max. spindle power

75/60 kW (100.6 / 80.5 HP)

Max. Spindle torque

12040 N·m (8885.5 ft-lbs)



Rotary tool

Max. spindle speed

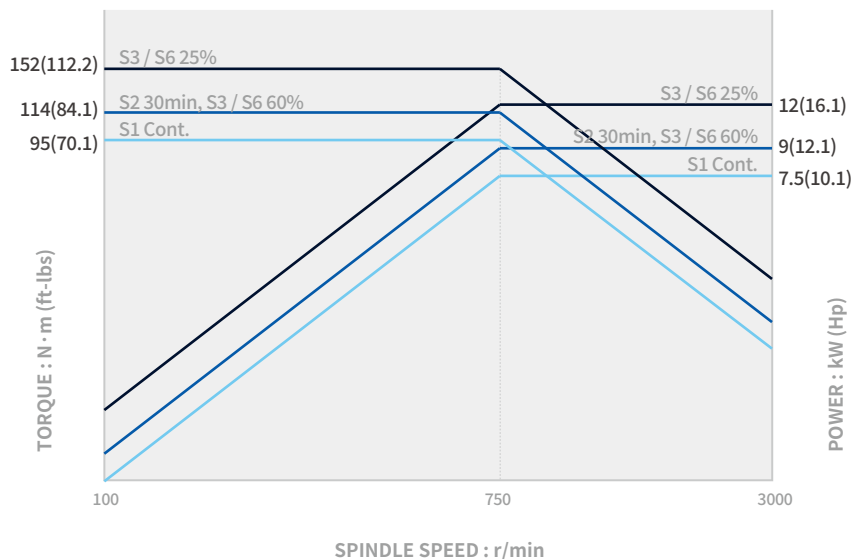
3000 r/min

Max. spindle power

12 kW (16.1 HP)

Max. Spindle torque

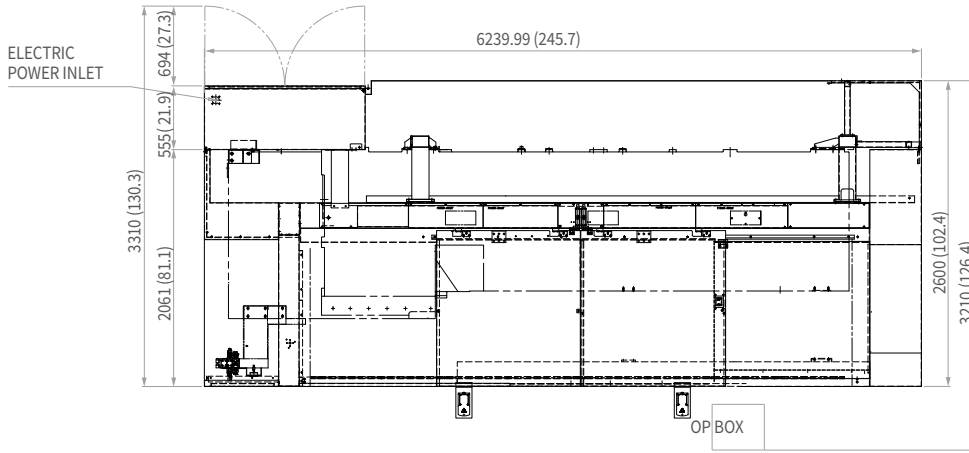
152 N·m (112.2 ft-lbs)



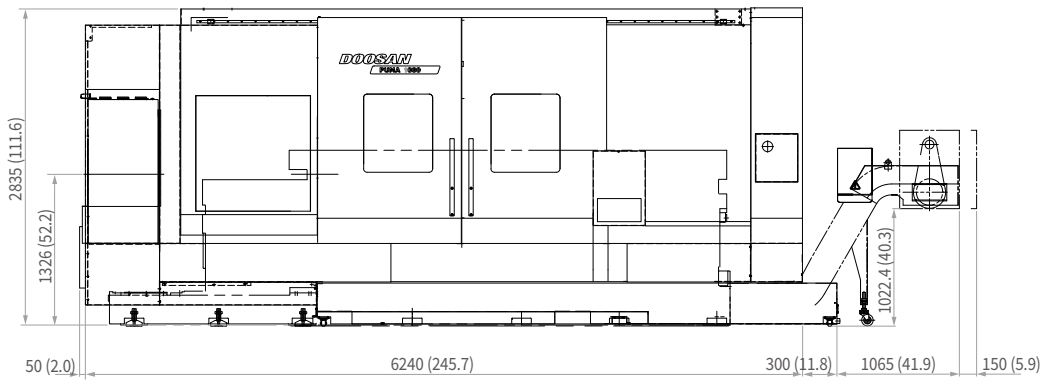
EXTERNAL DIMENSIONS

Unit : mm (inch)

TOP



FRONT



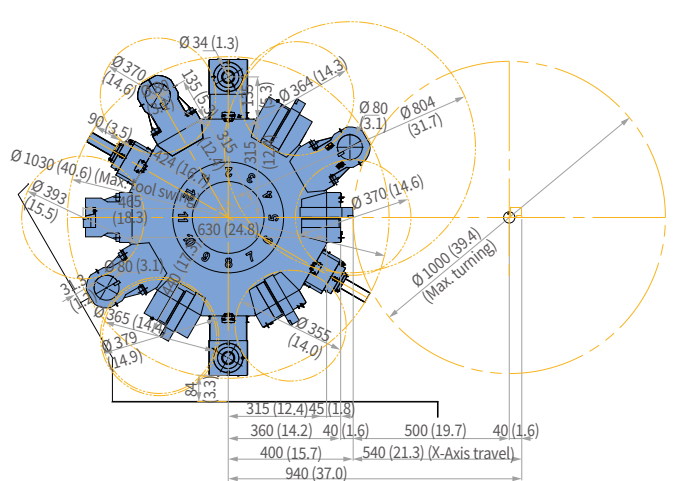
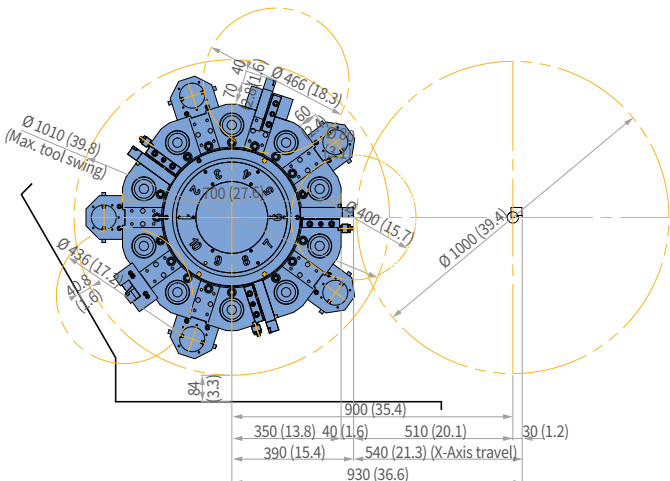
* Some peripheral equipment can be placed in other places.

TOOL INTERFACE

PUMA 1000 (2-axis)

PUMA 1000M (3-axis)

Unit : mm (inch)



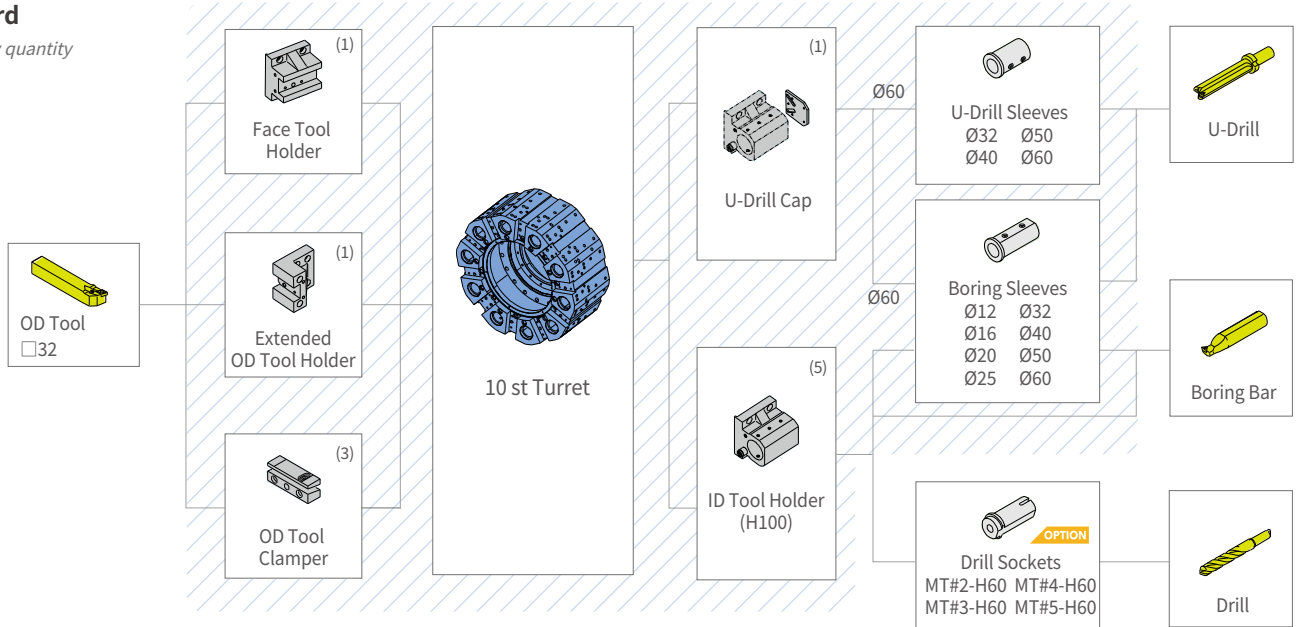
TOOLING SYSTEM

PUMA 1000

Unit : mm (inch)

Standard

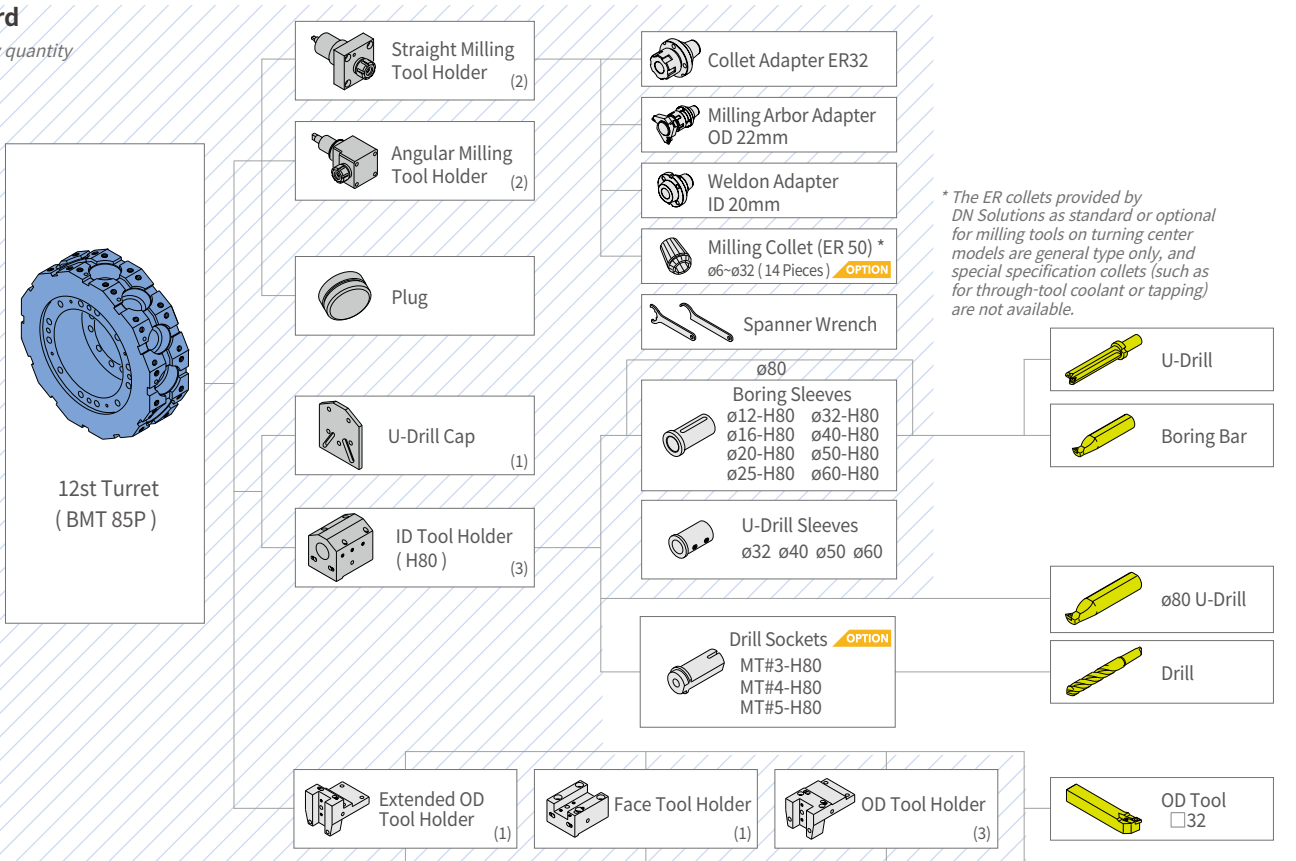
* () Supply quantity



PUMA 1000M

Standard

* () Supply quantity

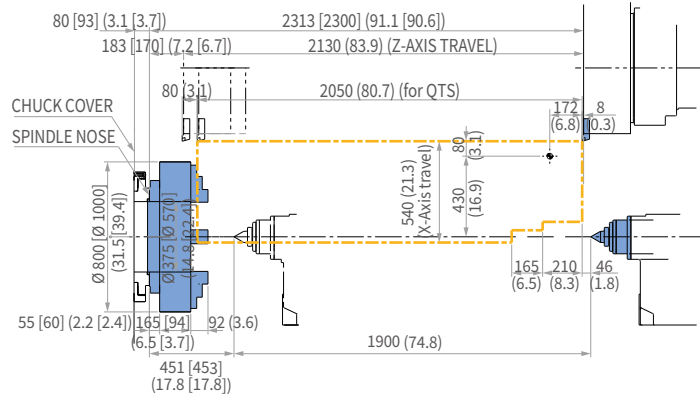


WORKING RANGE DIAGRAM

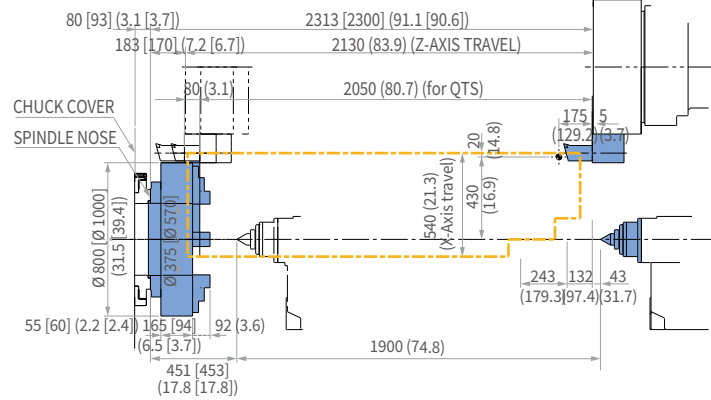
PUMA 1000A / B

Unit : mm (inch)

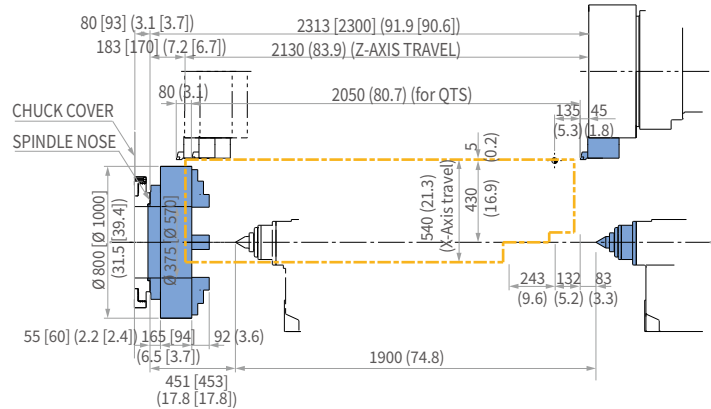
OD TOOL HOLDER



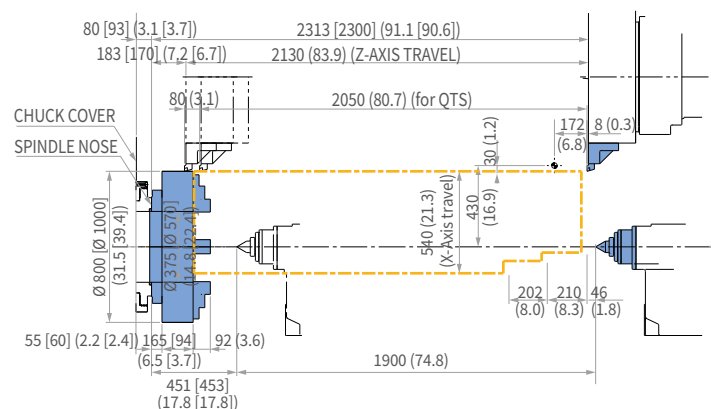
ID TOOL HOLDER



FACE TOOL HOLDER



EXTENDE OD TOOL HOLDER

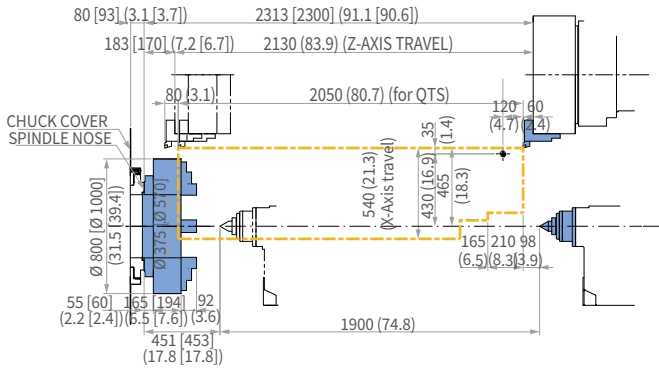


WORKING RANGE DIAGRAM

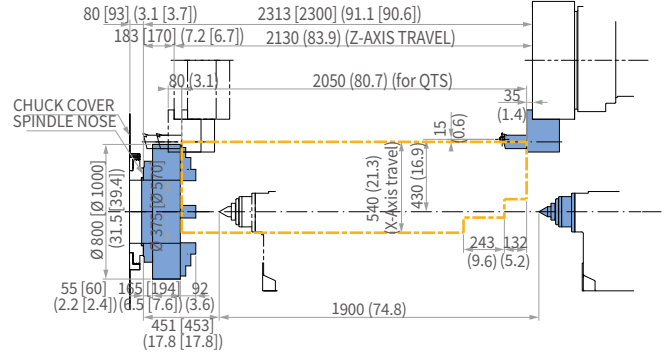
PUMA 1000MA / MB

Unit : mm (inch)

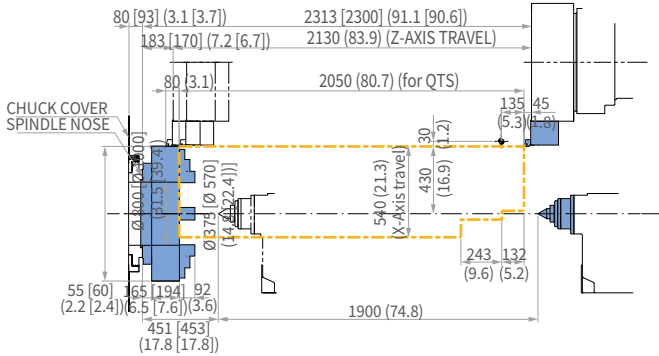
OD TOOL HOLDER



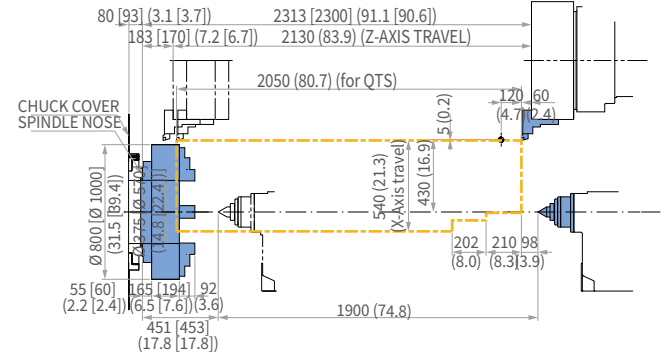
OD TOOL HOLDER



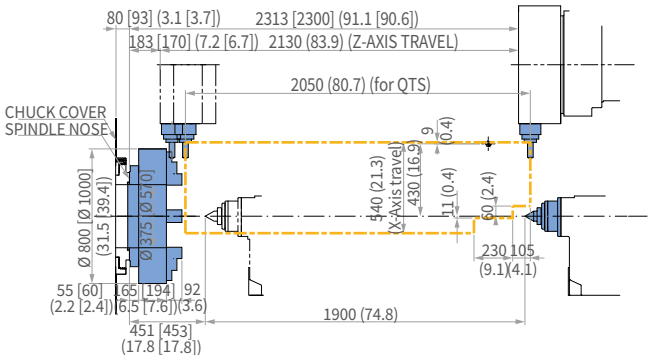
OD TOOL HOLDER



OD TOOL HOLDER



OD TOOL HOLDER



MACHINE SPECIFICATIONS

PUMA 1000 series

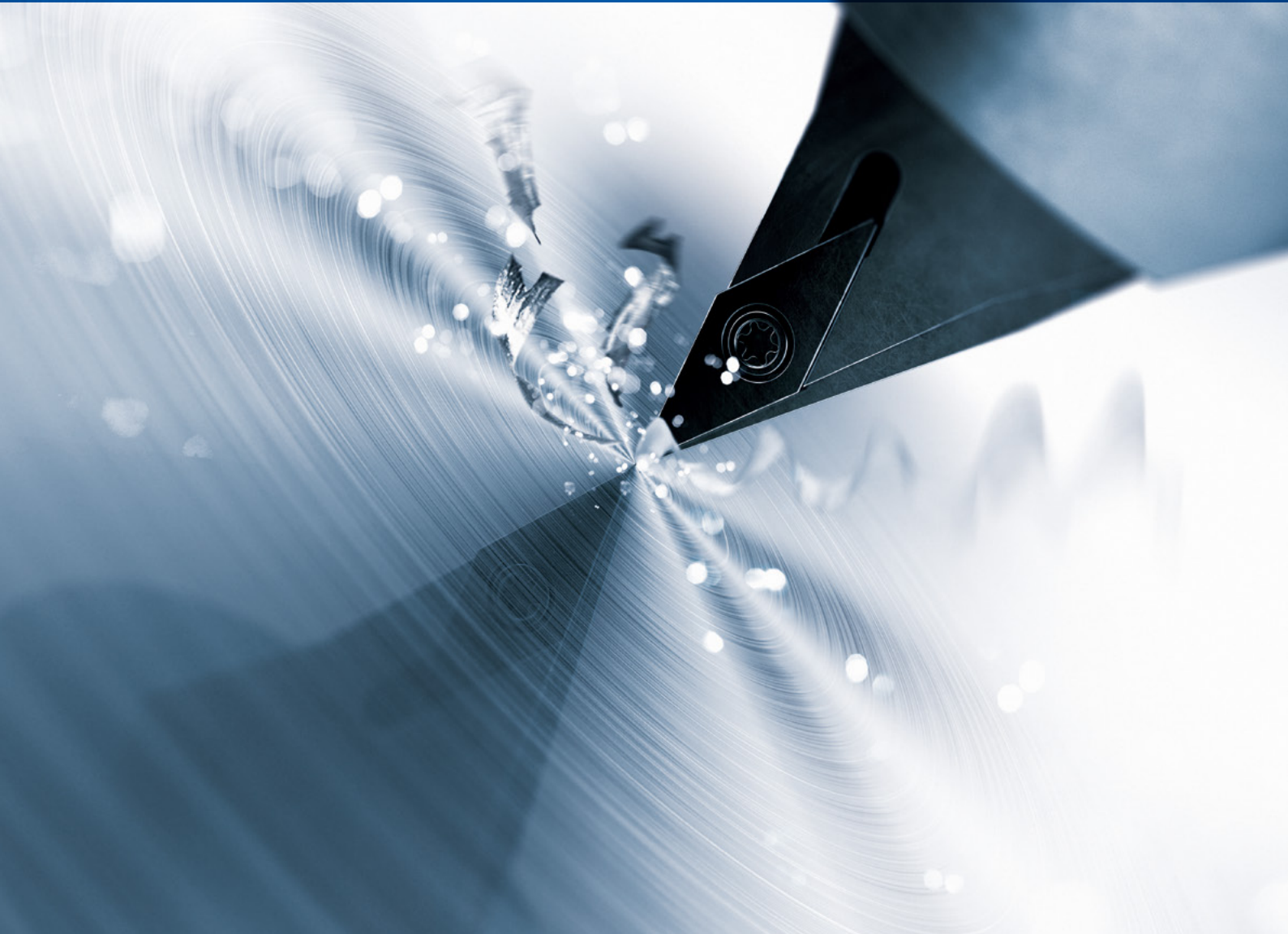
Description		Unit	PUMA 1000A [MA]	PUMA 1000B [MB]
Capacity	Swing over bed	mm (inch)	1250 (49.2)	
	Swing over saddle	mm (inch)	950 (37.4)	
	Recom. turning diameter	mm (inch)	800 (31.5)	
	Max. turning diameter	mm (inch)	Ø 1000 (39.4)	
	Max. turning length	mm (inch)	2040 (80.3)	2000 (78.7)
	Chuck size	inch	(ORDER MADE)	
Travels	Travel distance	X-axis	540 (21.3)	
		Z-axis	2130 (83.9)	
	Rapid traverse rate	X-axis	12 (472.4)	
		Z-axis	16 (629.9)	
Spindle	Max. spindle speed	r/min	500	300
	Main spindle motor power (30min./cont.)	kW (Hp)	75 (100.6) / 60 (80.5)	
	Max. spindle torque	N·m (ft·lb)	11011 (8126.1)	12040 (8885.5)
	Spindle nose	ISO	702-4 No.20	702-4 No.28
	Spindle bearing dia.(Front)	mm (inch)	440 (17.3)	700 (27.6)
	Max. Spindle through hole diameter	mm (inch)	Ø375 (14.8)	Ø560 (22.0)
Turret	No. of tool stations	ea	10 [12: BMT85P]	
	OD tool size	mm (inch)	32 x 32 (1.25 x 1.25)	
	Max. boring bar size	mm (inch)	80 (3.0)	
	Turret indexing time (1 station swivel)	s	0.31	
	Max. rotary tool speed	r/min	[3000]	
	Rotary tool motor power (30min./cont.)	kW (Hp)	[9 (12.1) / 7.5 (10.1)]	
Tailstock	Tailstock travel	mm (inch)	1900 (74.8)	
	Quill diameter	mm (inch)	180(7.1)	
	Quill bore taper	MT	MT#6(Dead)	
	Quill travel	mm (inch)	150(5.9)	
Power Source	Power consumption	kVA	97.54	
Machine Dimensions	Length	mm (inch)	6595 (259.6)	
	Width	mm (inch)	3210 (126.4)	
	Height	mm (inch)	2835 (111.6)	
	Weight	kg (lb)	21000 (46296.4)	23000 (50705.6)
Control	CNC System	DN Solutions Fanuc i Plus {F32i}		

* Bar working diameter is a nominal size(PUMA 1000A : 375mm / PUMA 1000B: 555mm) we can expect when doing the double chucking operation at both sides of the headstock and using spindle through hole.

* {} : Option

WHY DN SOLUTIONS

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?* Here's why...



UNBEATABLE MACHINES

You won't find a more comprehensive range or a better combination of value, performance and reliability anywhere else.

READILY AVAILABLE - ANYWHERE IN THE WORLD

Machining centres (including 5-axis machines), lathes, multi-tasking turning centres and mill-turn machines, and horizontal borers with best-in-class specifications are all available...ready to install.

ROBUST PRODUCT LINE

We offer an impressive range of machine models and hundreds of configurations. Whatever your machining needs and requirements, there's a DN Solutions for you.

EXPERT SERVICE

Our dedicated, experienced and knowledgeable team is totally committed to improving your productivity, growth and success.

RESPONDING TO CUSTOMERS **ANYTIME, ANYWHERE**

DN SOLUTIONS GLOBAL NETWORK

66 COUNTRIES | **140** + SALES NETWORKS | **3** FACTORIES | **6** REGIONAL HQS



CUSTOMER SUPPORT AND SERVICES

WE'RE THERE FOR YOU WHENEVER YOU NEED US.

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



FIELD SERVICES

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



PARTS SUPPLY

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



TRAINING

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



TECHNICAL SUPPORT

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



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