



*The Reliable Partner*

# PUMA 2100 / 2600 Y / SY II series



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**High Performance  
Yaxis Horizontal  
Turning Center**

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**PUMA 2100Y/SY/LY/LSY II**

**PUMA 2600Y/SY/LY/LSY II**

**PUMA 2600YB/SYB II**

**PUMA 2600LYB/LSYB II**

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ver. EN 170308 SU



## High performance Y axis complex machining

Box guideways are applied to all axes to prevent vibration and secure dynamic rigidity, so ensure powerful and precise machining. Y-axis control perform a variety of complex shape machining easily with high accuracy.

## Improved precision thanks to high rigidity design

Sensor type heat displacement compensation system

C-axis pitch error compensation

Improved rigidity of spindle bearing

High quality sliding bearing on all axis

Enhanced durability of X/Y axis carriage

Increased reliability of Live tool drive

Compare to previous model

Continuous machining accuracy

→ **40% Improved**

**Higher C-axis accuracy**

\* PUMA 2600SY II with cutting item

Groove finish cutting using the Y-axis

Multi-face cutting

Milling in an eccentric position

Y & X axes circular interpolation

\* The results may not be obtained due to differences in cutting conditions and environmental conditions during measurement



## Spindle

Achieved stable performance and high precision during heavy & high speed machining.

## Durable spindle for stable heavy cutting performance

Enhanced durable spindle by redesigned spindle bearing ensures high rigidity spindle structure.

**PUMA 2600SY/LSY II**

Bar working diameter  
(Previous model Ø76 mm)

**Ø81mm (3.2 inch)**

Spindle through hole diameter

**Ø62mm (2.4 inch)**

Model	Spindle			Sub spindle
	Max. speed r/ min	Max. power kW (Hp)	Max. torque N·m (ft·lbs)	Max. speed r/min
PUMA 2100Y/SY II series	5000	22 (29.5)	358 (264.2)	6000
PUMA 2600Y/SY II series	4000	22 (29.5)	599 (442.1)	
PUMA 2600YB/SYB II series	2800	22 (29.5)	1123 (828.8)	4500

## Turret

Turret rotation is controlled by servo motor for fast and reliable tool selection. Doosan's unique BMT turret design is used on M and Y specification models to boost heavy duty milling performance.

### Servo driven BMT turret with high tool clamping force

No. of tool stations	Position index
<b>12 st</b>	<b>12 index</b>
	<b>24 index</b> <small>option</small>

**PUMA 2100Y/SY II series : BMT 55P**  
**PUMA 2600Y/SY II series : BMT 65P**  
**PUMA 2600YB/SYB II series : BMT 65P**



\* BMT 65P

No. of tool stations	Position index
<b>16 st</b> <small>option</small>	<b>16 index</b>

**PUMA 2100Y/SY II series : BMT 55P**  
**PUMA 2600Y/SY II series : BMT 55P**  
**PUMA 2600YB/SYB II series : BMT 55P**

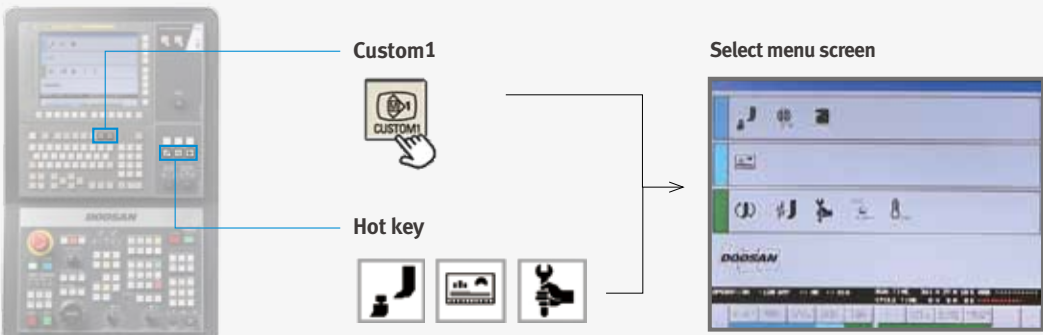


## Easy operation

Enhances ease of operation by the design based on the user's convenience.

### Easy Operation Package

Doosan Easy Operation Package (EOP) supports the user with tool, help desk, operation, functionalities to maximize operational efficiency and user convenience.



### Axis-tool number display



Axis and tool number display in machine ensures the selected axis just before turning MPG during handle mode and to make it easier to see the number of the tool at working position

### Convenient set up for peripheral equipment

Helps tool setter guide, work setting, tailstock setting, and other measurement and parameter control to reduce setting-up time and facilitates operation.



### Screen for monitoring the machine and operating conditions

The screen provides a complete view of machine operation, information on the feed system position, offset, feedrate and spindle speed, tool life and count in an easy-to-view screen.



### Management Convenience Screen

Helps to prepare tools and provides for visual information on alarms to reduce maintenance time.



## Major Specifications

### PUMA 2100 / 2600 Y / SY II series



Description		Unit	PUMA 2100Y [LY] II	PUMA 2100SY [LSY] II	PUMA 2600Y [LY] II	PUMA 2600SY [LSY] II	PUMA 2600YB [LYB] II	PUMA 2600SYB [LSYB] II
Capacity	Max. turning diameter	mm (inch)	406 (16.0)			376 (14.8)		
	Max. turning length	mm (inch)	520 [760] (20.5 [29.9])			760 [1280] (29.9 [50.4])		725 [1245] (28.5 [49.0])
	Chuck size	mm (inch)	210 (8.3)			255 (10.0)		315 (12.4)
	Bar working diameter	mm (inch)	65 (2.6)			81 (3.2)		102 (4.0)
Travels	Travel distance	X-axis mm (inch)	260 (10.2)					
		Z-axis mm (inch)	590 [830] (23.2 [32.7])			830 [1350] (32.7 [53.1])		
		Y-axis mm (inch)	105 (4.1)					
		B-axis mm (inch)	-	590 [830] (23.2 [32.7])	-	830 [1350] (32.7 [53.1])	-	830 [1350] (32.7 [53.1])
	Rapid traverse	X-axis m/min (ipm)	30 (1181.1)					
		Z-axis m/min (ipm)	30 (1181.1)					
		Y-axis m/min (ipm)	10 (393.7)					
		B-axis m/min (ipm)	-	30 (1181.1)	-	30 (1181.1)	-	30 (1181.1)
Main spindle	Max. Spindle speed	r/min	5000			4000		2800
	Motor power (30min./ Con.)	kW (Hp)	22 (S3 15%)/11 (29.5 (S3 15%)/14.8)			22/15 (29.5 / 20.1)		22/18.5 22/15 (29.5 / 24.8)
	Max. Spindle torque	N·m (ft·lb)	358 (264.2)			599 (442.1)		1123 (828.8)
	Spindle through hole	mm (inch)	76 (3.0)			91 (3.6)		115 (4.5)
Sub spindle	Max. Spindle speed	r/min	-	6000	-	6000	-	4500
	Motor power (30min./ Con.)	kW (Hp)	-	15/11 (20.1/ 14.8)	-	15/11 (20.1/14.8)	-	7.5/5.5 (10.1/7.4)
	Spindle through hole	mm (inch)	-	62 (2.4)	-	62 (2.4)	-	62 (2.4)
Turret	No. of tool stations	st	12 {24} {16}* (0.5 {0.9} {0.6})*					
	OD tool size	mm (inch)	25 {20} {25}* (1.0 {0.8} {1.0})					
	Max. boring bar size	mm (inch)	40 {32} {32}*			50 {40}* (2.0 {1.6})		
	Max. Rotary tool speed	r/min	5000					
Machine Dimensions	Length	mm (inch)	3175 [3395] (125.0 [133.7])			3505 [4335] (138.0 [170.7])		3873 [4438] (152.5 [174.7])
	Width	mm (inch)	1945 (76.6)			1945 [2005] (76.6 [78.9])		
	Height	mm (inch)	2163 (85.2)					
	Weight	kg (lb)	5550 [6050] (12235.5 [13337.8])	6000 [6500] (13227.5 [14329.8])	6100 [7400] (13448.0 [16314.0])	6550 [7850] (14440.1 [17306.0])	6200 [7500] (13668.5 [16534.4])	6650 [7950] (14660.5 [17526.5])
NC system		-	DOOSAN-FANUC i / SIEMENS 828D					

\*{ } option

\*For SIEMENS 828D specification, please contact Doosan Machine Tools.



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The specifications and information above-mentioned may be changed without prior notice.

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