



PUMA MACHINE TOOLS

AN INFORMATION SERVICE TO OUR CLIENTS

2022 | 1

PUMA
MACHINE TOOLS (PTY) LTD



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Doosan Machine Tools
has changed its name to

DN SOLUTIONS

Doosan Machine Tools changes its name to DN Solutions

“The company will be reborn as a manufacturing solutions provider.”

- Continue to prosper as one of global top three machine tool builders by identifying new growth opportunities.
- Generate synergistic effects with DN Automotive, an automotive parts manufacturer which became its parent company in January this year, to further grow.

Doosan Machine Tools (CEO: Kim Jae-Seop) announced on May 25, 2022 that it will change its name to DN Solutions and be reborn as a total manufacturing solutions leader.

DN Solutions, the new name of Doosan Machine Tools, will be used from June 2, 2022 and signifies a new start after the merger with DN Automotive which became its new parent company in January this year.

The D in DN alludes to the 45 years of history of trust built by Daewoo and Doosan, the predecessors of DN Solutions, along with DTR Automotive, the predecessor of DN Automotive. N represents Now & New, the will of the DN Group to open new paths by constantly taking on new challenges now rather than being complacent about past achievements. It also means that it will begin a new and bigger era empowered by the strong synergy between the two companies that have now become one family.

DN Solutions is committed to being reborn as a true global manufacturer under the new name by strengthening distinctive competitive advantages over current growth engines, and proactively building a presence in the areas of future growth through aggressive investment in expanding manufacturing capabilities and sustainable management for social responsibility. It will closely work together with DN Automotive, its controlling shareholder, in identifying new growth engines to become a solutions provider for the global manufacturing industry.

**MACHINE
GREATNESS™**



DN SOLUTIONS



DN Automotive, the controlling shareholder of DN Solutions, is an automotive parts manufacturer founded in 1971 that produces tires, batteries, and VMS (Vibration Management Systems). It is a top three manufacturer in the global VMS market and supplies approximately 30 global leading OEMs including GM and BMW.

“This name change was intended to signify our commitment to becoming a global manufacturer. DN Solutions and DN Automotive create a synergistic effect by working together to find new growth engines and maximize manufacturing capabilities,” said Kim Jae-Seop, CEO of DN Solutions. “We are committed to offering total manufacturing solutions to a wide-range of industries based on competitive products.”

In addition, DN Solutions participated in SIMTOS 2022, which was held at KINTEX, South Korea from May 23 to 27, 2022. Various products featuring the latest technologies were exhibited, including a 5-axis, complex, large machining center as well as a wide-range of products and solutions for IT and semiconductor industries. A ceremony was held to announce the company’s new name and share its meaning and the vision for the future.

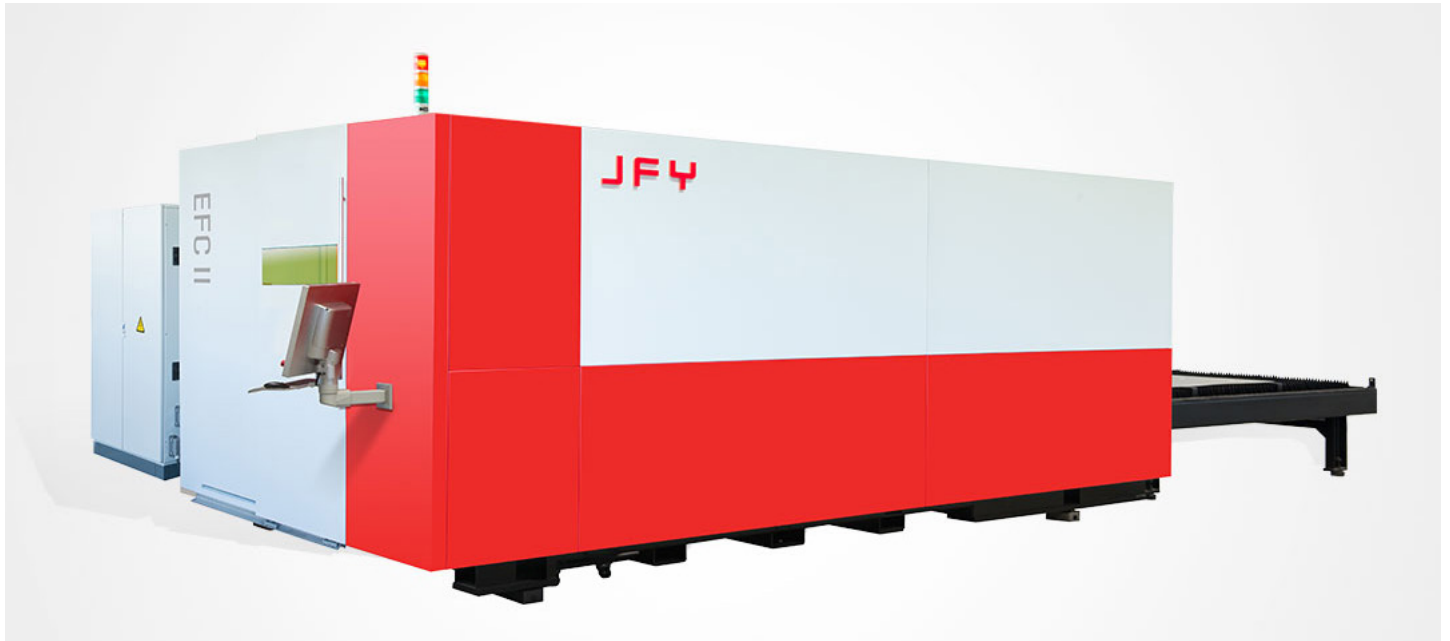


PRODUCTIVITY

RELIABILITY

QUALITY

EFC/DFC Laser Cutting Machine



Features and Performance

- Excellent cutting quality with laser output of up to 6 kilowatts. TRUMPF TruFiber Cut and TruDisk Laser with best in class cutting quality and global service support.
- High operating convenience: Auto focus cutting head and fast worktable exchange (max. 10 seconds).
- Premium offline programming software LANTEK xPert as standard configuration.
- High safety standard: Laser processing within roofed enclosure and complete set of safety features.
- Available for automation extensions: Loading and unloading as well as storage systems.

Parameter

Item	Unit	Specification			
		EFC 3015	EFC 4020	EFC 6020	EFC 6025
Cutting Size	mm	3300x1500	4000x2000	6000x2000	6000x2500
Stroke of Z Axis	mm	280			
Maximum Acceleration	g	2.1	1.7	1.7	1.4
Max.Positioning Speed	m/min	140			
Positioning Accuracy	mm	±0.03			
Cutting Accuracy	mm/m	±0.1			
Laser Power & Max.Cutting Capacity					
		Power	Mild Steel	Stainless Steel	
Cutting thickness	mm	1000W	12	6	
		2000W	16	10	
		3000W	22	15	
		4000W	22	20	
		6000W	25	25	



PRODUCTIVITY

RELIABILITY

QUALITY

TPR8 Series CNC Pressbrake



Features and Performance

- Machine body is optimized by finite element design to ensure high strength and high rigidity during operation.
- Compared with traditional CNC bending machines, the frequency of the Y-axis movement is 25% higher.
- A broad range of options and bending tools allow the processing of large and complex workpieces.
- High-performance CNC Control TJS-90 as standard configuration ensures maximum workflow efficiency and operating convenience.
- Automatic mechanical crowning compensation system as standard configuration solves the influence of ram deformation on the workpiece during bending.

Parameter

Main Specification	Unit	320T		400T		500T		600T	
		TPR8 320/310 0	TPR8 320/410 0	TPR8 400/410 0	TPR8 400/600 0	TPR8 500/500 0	TPR8 500/600 0	TPR8 600/600 0	TPR8 600/600 0
Bending Force	kN	3200	3200	4000	4000	5000	5000	6000	6000
Bending Length	mm	3100	4100	4100	6000	5000	6000	6000	6000
Column Distance	mm	2700	3700	3700	5100	4400	5100	5100	5100
Throat Depth	mm	410	410	410	400	500	500	500	500
Stroke of Ram	mm	315	315	315	315	315	315	315	315
Closed Height	mm	680	680	680	680	700	700	530	530
Speed	Approaching	mm/s	110	120	110	110	80	90	80
	Working	mm/s	9	9	8	8	7	7	8
	Return	mm/s	110	110	85	85	70	70	70
Main Motor Power	kW	22	22	30	30	37	37	37	37
Oil Tank Capacity	L	400	550	600	800	700	800	800	800
Backgauge	Precision	mm	±0.10	±0.10	±0.20	±0.20	±0.20	±0.20	±0.20
	Stroke	mm	500	500	500	500	500	500	500
	Speed	mm/s	400	400	400	250	250	250	250
	Power	kW	1	1	1	1.5	1.5	1.5	1.5
Dimension		L:3510	L:4510	L:4510	L:6450	L:5480	L:6480	L:6480	L:6480
		W:2200	W:2200	W:2200	W:2200	W:2050	W:2050	W:2500	W:2500
		H:3270	H:3270	H:3300	H:3650	H:3300	H:3300	H:3500	H:3500

Main Specification	Unit	320T		400T		500T		600T	
		TPR8 320/310 0	TPR8 320/410 0	TPR8 400/410 0	TPR8 400/600 0	TPR8 500/500 0	TPR8 500/600 0	TPR8 600/600 0	TPR8 600/600 0
Bending Force	kN	3200	3200	4000	4000	5000	5000	6000	6000
Bending Length	mm	3100	4100	4100	6000	5000	6000	6000	6000
Column Distance	mm	2700	3700	3700	5100	4400	5100	5100	5100
Throat Depth	mm	410	410	410	400	500	500	500	500
Stroke of Ram	mm	315	315	315	315	315	315	315	315
Closed Height	mm	680	680	680	680	700	700	530	530
Speed	Approaching	mm/s	110	120	110	110	80	90	80
	Working	mm/s	9	9	8	8	7	7	8
	Return	mm/s	110	110	85	85	70	70	70
Main Motor Power	kW	22	22	30	30	37	37	37	37
Oil Tank Capacity	L	400	550	600	800	700	800	800	800
Backgauge	Precision	mm	±0.10	±0.10	±0.20	±0.20	±0.20	±0.20	±0.20
	Stroke	mm	500	500	500	500	500	500	500
	Speed	mm/s	400	400	400	250	250	250	250
	Power	kW	1	1	1	1.5	1.5	1.5	1.5
Dimension		L:3510	L:4510	L:4510	L:6450	L:5480	L:6480	L:6480	L:6480
		W:2200	W:2200	W:2200	W:2200	W:2050	W:2050	W:2500	W:2500
		H:3270	H:3270	H:3300	H:3650	H:3300	H:3300	H:3500	H:3500

PRODUCTIVITY

RELIABILITY

QUALITY



DNM series

The DNM series delivers the best cutting performance in its class to optimize productivity.

Designed as a highly stable, rigid structure, the new DNM series offers travels from 450 to 670 mm in the Y axis, enabling the user to handle a wider range of workpieces.

LYNX 2100 LSY

The Lynx 2100 Series with more than 25000 sales worldwide – aims to deliver even greater customer satisfaction with its superior machining performance, reliability, and user convenience.



DVF 5000

The new Doosan DVF 5000 5 axis machining center provides world class productivity and reliability for simultaneous 5 axis machining operations.



**MACHINE
GREATNESS™**



PUMA V8300

The PUMA V8300 Series is a large size vertical turning center developed by Doosan. The largest capacity of the class further enhances productivity and profitability.



LEO 1600

New generation economy lathe for the simple job shop.

The compact high-speed turning center with a chuck size of 6 inches.

PUMA GT 2100

PUMA GT Series forms the largest machining area in its class to yield the maximum productivity with the minimum costs.



PRODUCTIVITY

RELIABILITY

QUALITY

G300

The Cosen G300 is a rigid, high production machine which incorporates a massive base, sturdy saw frame, with an extremely heavy duty gear box, a 5 HP (3.75 kW) drive motor, a user friendly programmable control.

The Smart NC-100 technology is programmable up to 100 different jobs including quantity and length of cut with Automatic Multiple Indexing & Automatic Taper Compensation.



MH-270M

Manual Swivel Head Mitering

The Cosen Manual Series Band Saw comes equipped with manual vise and adjustable hydraulic down feed.

It is an ideal tool for the small to medium machine shop, maintenance shop, metal fabricating shop, school, and limited run production work. It is a great machine for cutting solids, square, round, rectangle and tubing material. Its solid construction ensures many years of reliability and accuracy at a high level of performance.

SF Series

3-Axis 5-Face Double Column Machining Center



Features:

- Ultra-wide base of X axis with high rigidity table enhances table load capacity and ensures the best dynamic level.
- Large stepped design of Y axis makes the guide ways close to the beam and spindle which effectively increases the rigidity of cutting load.
- Z axis of 15m rapid traverse, high acceleration/deceleration performance to achieve contour accuracy of high speed mold machining.
- Spindle and thermal compensation function for temperature change can be used to keep the machines accuracy.

ASM Series

5-Axis CNC Turning and Milling



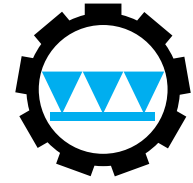
Features:

- ASM accessorizes with 5-axis universal head.
- Multi support structure to ensure high rigidity.
- Powerful spindle - 10 000 rpm, 57 kW.
- SIEMENS or HEIDENHAIN control.
- 1m diameter machining capability.

PRODUCTIVITY

RELIABILITY

QUALITY



FANUC PROGRAMMING COURSES 2022



DN SOLUTIONS

CHEVALIER
Grinding / Turning / Milling



The programming courses we offer include:

1. BASIC TURNING PROGRAMMING

Course Price: R4 000.00 Excl. VAT
Per person, per course



Each of the mentioned courses are completed over a period of 3 days.

Further courses available on request.

2. BASIC MILLING PROGRAMMING

Course Price: R4 000.00 Excl. VAT
Per person, per course



Each of the mentioned courses are completed over a period of 3 days.

Further courses available on request.

PLEASE FEEL FREE TO CONTACT US SHOULD YOU HAVE ANY QUESTIONS REGARDING THE ABOVE MENTIONED COURSES.

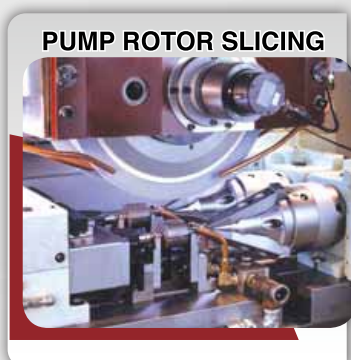
SMART-Series



SMART Control Functions

- Microsoft Win CE Platform
- 10.4" TFT Color Screen
- Simple Graphic Conversational controller with preview function
- Various built-in factory-programmed canned cycles
- Surface/Plunge/Cross-Cross/Profile grinding modes
- Powerful graphic program input function, available for grinding and dressing
- Wheel dressing can be executed during grinding cycle
- Simulate grinding path and dressing cycles by turning MPG handwheel
- Grind multi-slots with different pitch and depth
- Conversational & G-code programs can be saved in hard drive or floppy disk.
- FANUC CNC program compatible

Easy to use for all kinds of FORM / PROFILE grinding



PRODUCTIVITY

RELIABILITY

QUALITY

L12x

Sliding Headstock Type CNC



Adoption of a modular tooling system Addition of Y2 axis for even higher functionality.

A modular tooling system has been adopted for the gang and back tool posts. The wide variety of tooling layouts available, such as “adjustable angle end-face spindle”, allows for angled hole drilling enhancing flexible machining. The addition of a Y2 axis to the back spindle strengthens back machining. This improves the degree of freedom for process allocation, and increases the maximum number of tools that can be installed to 38. Additionally, adoption of a built-in motor for the back spindle drive enables a maximum speed of 12,000 min⁻¹. This reduces the acceleration/deceleration time to improve productivity. The machine is capable of handling 16 mm diameter bar with an expansion kit.

L32

Sliding Headstock Type CNC Automatic Lathe



The L32, an ‘icon’ reinvented.

With a legacy as one of the best-selling Cincom machines, the next-generation L32 is launched with 4 models in modular design.

With the current shift in manufacturing industry, the requirement is for variable-lot machining of diverse workpiece shapes and sizes. In order to meet this requirement, Citizen has introduced modular design to the new L32 thus enabling our customers to optimise their manufacturing by selecting the functions to achieve the ideal machine configuration for their needs.

The L32-VIII is a 7-axis model with excellent cost performance. A wide range of modular tooling ensures that the new L32-VIII is both versatile and flexible enough to meet your production demands into the future.



Tube Laser Cutting

- 5 servo axes
- compact design with excellent repeatability
- with international patent, capable of reducing end waste to minimum
- optimized for circular \ rectangular \ square \ elliptic \ flat oval tube



CNC Tube Bending

- international patent
- optimum performance
- power efficient
- environment friendly
- energy economic



PRODUCTIVITY

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PUMA MACHINE TOOLS

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ADVANTAGE 66

Simple, for short bars

The **ADVANTAGE 66** is a short barfeeder for fixed headstock lathes suitable for working bars with diameters between **5 and 65 mm** and with lengths from **250 to 1.500 mm**. It's a pneumatic barfeeder, optimal for managing short bars. The barfeeder is also available with **transversal shifting device**.



NEW !!

IEMCA
BUCCI
INDUSTRIES

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EDM

BRASS WIRE CuZn37

SOFT WIRE 0.25mm

PUMA - S
Brass Wire Soft 460 - 520N/mm² 5Kg wire soft

HARD WIRE 0.25mm

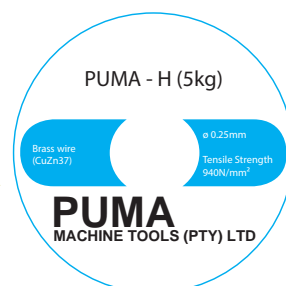
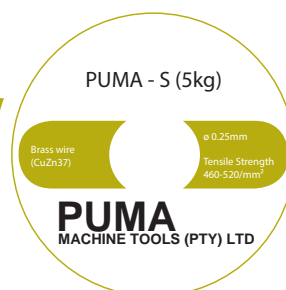
PUMA H
Brass Wire Hard 940N/mm² 5Kg wire

PUMA H - 8
Brass Wire Hard 940N/mm² 8Kg wire

PUMA H - 16
Brass Wire Hard 940N/mm² 16Kg wire

HARD WIRE 0.3mm

PUMA H - 8 - 3
Brass Wire Hard 940N/mm² 8Kg wire



PRODUCTIVITY

RELIABILITY

QUALITY

