



PUMA MACHINE TOOLS

AN INFORMATION SERVICE TO OUR CLIENTS

2023 | 2

DN SOLUTIONS



DIMF 2023

DN SOLUTIONS INTERNATIONAL MACHINE TOOL FAIR

THE 14TH DN SOLUTIONS INTERNATIONAL MACHINE TOOL FAIR (DIMF) WRAPS UP SUCCESSFULLY AFTER SHOWCASING THE FUTURE OF MACHINE TOOLS

In this year's exhibition, DN Solutions showcased a total of 65 models, including 40 new models equipped with the DN Solutions' latest technology such as 5-axis/multi-tasking machining, high-productivity automation, and smart manufacturing solutions. The main exhibition hall at Busan BEXCO was composed of six themes that reflected the current trends in the machine tool industry such as automation, digital transformation & CNC, smart factory & AI, ESG, and machining technology. DN Solutions introduced a variety of solutions that attracted attention, including machine tools equipped with DN Solutions' latest machining technology, automation solutions linked with the loading and unloading devices for a variety of applications, machine tools and collaborative robots, and robot solutions that showcase the cell-level automation of autonomous mobile robots (AMR).





**AFRICA'S
BIGGEST
MACHINE
TOOLS
EXHIBITION**

**MACHINETOOLS
AFRICA 2024**

21-24 MAY
EXPO CENTRE • NASREC
JOHANNESBURG • SOUTH AFRICA

**SHAPING
TOMORROW**
THROUGH TECHNOLOGY & INNOVATION

An event by:



#MTA2024
www.machinetoolsafrica.co.za



PRODUCTIVITY

RELIABILITY

QUALITY

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EFC II Laser Cutting Machine

High Safety Standard

Fully enclosed machine with certified components to avoid laser radiation hazards

Global service support

Professional local and remote service support to ensure fast response



High operating efficiency

Reliable CNC control and offline programming software enable maximum machine utilization and ensure high cutting quality with pre-installed cutting parameters

Automation options

Machine is available with loading and unloading systems as well as storage solutions

Optimized price performance ratio

Reliable machine with higher cost-effectiveness and professional manufacturing process

TPR8 CNC Press Brake

High stability during operation

due to robust C-Frame as well as finite element design of machine body

Flexibility

A broad range of options, tools as well as open height allow the processing of large and complex bending parts in various application scenarios



High-performance CNC control TJS-90

as standard configuration ensures maximum workflow efficiency and operating convenience

Precision

C-Frame design with magnetic scale and mechanical crowning ensure precise movement and bending quality

Premium bending performance

with automatic mechanical crowning in the form of two-way compensation

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H200 CNC Gear Hobbing Machine

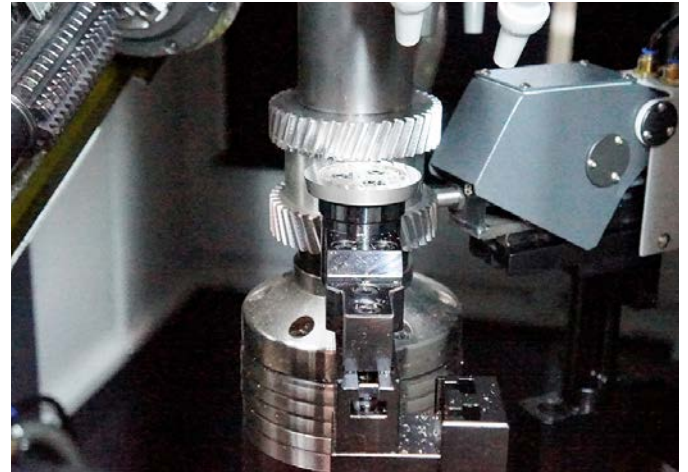
The H200 CNC Gear Hobbing Machine's high speed and high rigidity make it an ideal choice for automotive and similar gear cutting in a production setting. CNC controls enable automation and provide convenient operation by GUD (Global User Data) environment.

Built-in Torque Motor – The H200 has a built-in Torque Motor with Direct Drive System is applied to accelerate the rotation speed of the table to accomplish a high-speed and precise gear cutting process. The built-in torque motor decreases the errors and backlash.

Semi-Dry Cutting System – The application of a Semi-dry Cutting System, which processes air cutting through the installed M.Q.L. Unit without using neat cutting oil, not only improves the roughness of the processing gear but also utilizes an environmentally friendly processing technology.

Fast and Precise Hobb Setting – Disc Spring Clamping System, Hobb Arbor Support, Hobb Centering Unit

With the application of a Disc Spring and Hob Arbor Support that utilizes a Hydraulic Quill, it is possible to perform faster Hobb Setting. Moreover, it is possible to adjust the fine Hobb Setting from an external machine installed at the Hobb Centering Unit.



- 6 Axis
- SIEMENS 840DSL/ FANUC 18iMB
- Max. Workpiece Diameter Ø200
- Max Hobb Speed 1,500 RPMs
- Max Table Speed 230 RPMs
- X, Z-Axis Rapid Feed Rate 12 m/mm
- X, Z-Axis Rapid Feed Rate 12 m/mm
- Built-in torque motor for C axis and zero backlash
- Semi-Dry Cutting Supported
- High-speed Ring Loader





After a four year wait, DIMF is back in full force, showcasing new technology and new models from DN Solution, a world leader in machine tools.



Mike Lee and Brad Thomson from Puma Machine Tools made the long trip to South Korea to attend the DIMF Exhibition and attend a factory tour to see how the CNC machine that are sold in South Africa are made. After a few busy days and numerous meetings with the global sales manager they were introduced to the new models of upcoming machine tools available from DN Solutions.

Around the world, sales numbers of machine tools have increased, reiterating that DN Solutions is a top supplier of machine tools, supplying of 16 500 units globally last year!

If you are in the market for new machine tools or just want some information on a world class machine tool supplier, please don't hesitate to contact us.



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DNM series

Global Standard Vertical Machining Center

- ▶ A highly versatile vertical machining center offering the largest machining space in its class
- ▶ Standard direct Coupled Spindle for Higher Productivity
- ▶ An environmental-friendly machine designed for stable and easy operation

PUMA DNT series

Mill-Turn Centers for Enhanced Accuracy

- ▶ **HIGH RIGIDITY** – With a box guideway structure and impressive spindle power, the PUMA DNT brings stability to its impressive cutting capabilities
- ▶ An adjustable operator's panel, quill detection sensor and iHMI touch capability combine to give the PUMA DNT a top of-the-line user experience



DVF series

Compact 5-Axis Machining Center

- ▶ 12000/15000 r/min direct-coupled high-speed spindle improves reliability and productivity
- ▶ Ø400/Ø500/Ø650/Ø800 mm rotary tilting table, oil cooling, spindle smart thermal control as standard
- ▶ Compact automation system (AWC)



HIGH ACCURACY QUALITY ROTARY TABLES



- Worm shaft type
- Roller cam type
- DD motor type
- Multiple pallet changer systems available

▼ Multiple Pallet Changer Systems - CE certified



▲ Horizontal CNC Rotary Table



▲ CNC Tilting Rotary Table



▲ Horizontal Auto Pallet Changer System



▲ CNC Rotary Table



▲ CNC Tilting Rotary Table



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CHIN FONG MACHINE INDUSTRIAL CO., LTD.



Stamping Press - OCP Series

C- frame single crank mechanical press

It can be widely used in production process like drawing, bending, marking, flattening, and trimming. This machine can be operated under safety one stroke or continuous mode.

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SH - 250R

Semi-Automatic Hinge-Type Horizontal Bandsaw

efficient, economic, and versatile for your utility purpose cutting.

Cosen SH-250R is a semi-automatic hinge-type horizontal bandsaw with a surpassing 260 mm capacity. When compared with other brands in the 250 mm utility saw category, this model stands out by itself by incorporating AH-250H's saw head design, providing far better machine durability with its rigid saw frame structure. In addition, SH-250R overmatches others by offering more versatility and an outstanding price-performance ratio. Highly recommended for tool shops, die casting manufacturers and fabricators. SH-250R is easy to operate, spaceless and presents you with excellent cutting rate and high precision.



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GSF Series

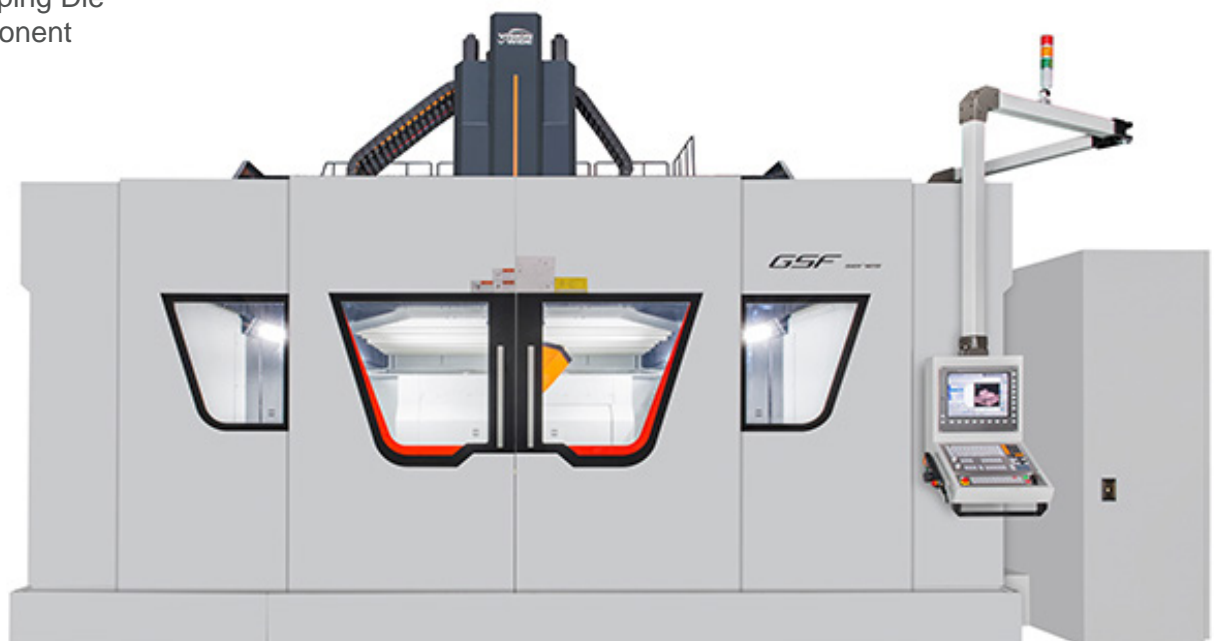
5-axis Gantry Type Machining Center

GSF Series 5-axis Gantry Type Machining Center, provided excellent 5-axis simultaneous accuracy performance for 5-axis machining in mold cutting, highly precise contour finishing, milling, drilling, and tapping. Vision Wide manufactured the 5-axis machining center to shorten tool displacement travel and cutting process effectively and extend tool life and offer the best choice for composite angle machining. GSF Series had an excellent dynamic performance on one-piece structural and equipped high accuracy 2-axis head to achieve 5-axis simultaneous accuracy performance.

- ▶ Continuous 2-axis head
- ▶ 5 axis dynamic rotation synchronization accuracy (TCPM) 0.04mm.
- ▶ Built-in Spindle Direct-Driven on B&C axis, 15,000rpm spindle speed.
- ▶ Backlashless driving on B/C axis □ Rotation Positioning accuracy $\pm 5''$.
- ▶ Low table height, closer operating zone, and wider door width are convenient designs for users.
- ▶ Chain type chip conveyor (standard) is able to remove iron chips efficiently.

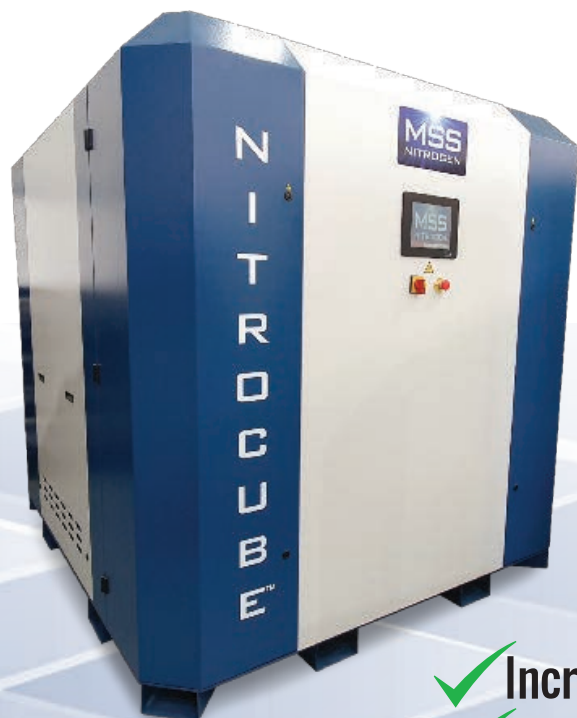
Industries Applications:

Aerospace-Aluminum Frame
Automotive- Stamping Die
Mechanical Component





NitroCube is the **MOST SIMPLE** and **ECONOMICAL SOLUTION** for on-site nitrogen generation for laser cutting applications



- ✓ Increased productivity
- ✓ Improved product quality
- ✓ Reduced costs
- ✓ Maximum profitability

NitroCube THE BENEFITS

- No machine downtime for cylinder changes or liquid top up
- Laser cut carbon steel faster, cheaper and with an “oxide free edge”
- Self financing, using money otherwise spent on ready made nitrogen
- Guaranteed low cost, high purity nitrogen
- Continuous 24/7 supply
- No running out of gas unexpectedly
- No gas waste, liquid “boil off” or gas bottles returned partially full
- No rental, delivery or environmental charges
- No restrictive gas contracts

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FSG-2A1224/3A1224

Automatic Surface Grinder

MACHINE FEATURES

These grinders have been specially developed and improved in recent years by us to continuously offer you reliable high performance precision surface grinders. And as a guarantee of that reliability we offer one full year limited warranty including parts and labor for mechanical as well as electrical components. The Double-V crossfeed guideway span has been designed applying kinematics to calibrate for minimum bending moments, thus achieving maximum support capability for table and workpiece. All essential castings are made of a high grade of cast iron that is stress relieved by annealing, therefore ensuring the greatest stability and rigidity with low stress. An interlock has been placed between the electrical cabinet door and power supply as an added safety feature. The maximum distance from table surface to spindle centerline is 450mm (18") which provides more clearance for grinding.



FSG-2A1224

Note: Machine shown with optional accessories



FSG-3A1224

Note: Machine shown with optional accessories

L32

Sliding Headstock Type CNC Automatic Lathe

Cincom's Time-tested L Series Adopts Modular Design

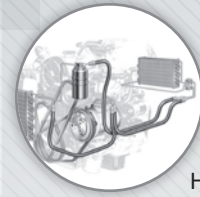
A best-selling machine with a legacy at Cincom, the L32, has seen the launch of 4 new models with a modular design. Ranging from a 7-axis machine with excellent cost performance to a high-end machine equipped with B axis and back tool post Y axis, you can select the machine according to the functions you require. A wide range of modular tooling ensures that the new L32 is both versatile and flexible to meet your production demands into the future.



LFV function is now available on all axes



tube bending · cutting · forming



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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

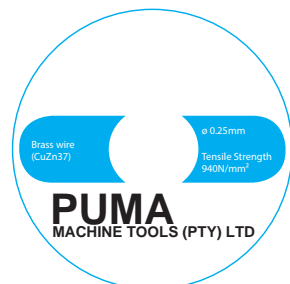
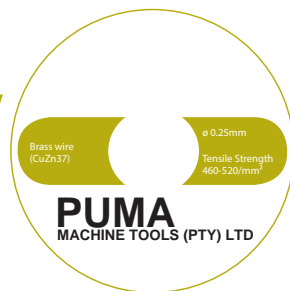
Brass Wire Soft 460 - 520N/mm² 5Kg wire soft

Brass Wire Hard 940N/mm² 5Kg wire

Brass Wire Hard 940N/mm² 8Kg wire

Brass Wire Hard 940N/mm² 16Kg wire

Brass Wire Hard 940N/mm² 8Kg wire



For further Information contact Hendrik on 011 976 8600 or email info@pumamachines.co.za

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