Z402

Large character









Industrial DOD Printer Brochure

ZANASI
make your mark

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Z402

Simple and compact

The **Z402 system is built with a solid stainless steel structure**, equipped with internal ventilation and a high IP protection rating, to provide consistent **high-quality printing in challenging environments.**



Maintenance-free

Constructive solidity designed for **maintenance-free** ensure continuous production and limit downtime.



BENEFIT

TIMELESS SOLIDITY

High performance, long durability!

Durable: ideal for production lines with high temperatures, dust and continuous mechanical stress

Controls up to 2 NZ 2.0 printheads (one 16-dot or two 7-dot heads) and **up to 2 production lines**

Operational versatility: to mark the product on the side, on the top (from top to bottom) or on the bottom (from bottom to top), at a **maximum distance of 35 mm**

3R philosophy: Robust, Reliable, Repairable

LOW TCO

Efficiency and cost savings

No downtime: goodbye to production stops

The system's durability, low maintenance requirements and operational efficiency translate into long-term savings. Routine and extraordinary operations can be carried out on-site, and no advanced skills are required

Minimal downtime and quick operator training time

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NZ 2.0 PRINTHEADS
Engineered to Resist

Two versions available: Standard (S) for general applications and **Harsh Environment (HE)** for more extreme operating conditions, such as steelworks and the construction industry.

The **NZ 2.0** printheads, with reinforced stainless steel frame and brackets, liquid protection seals (HE only), are designed for superior resistance to dust, moisture, solvents, shock and vibration.

S



HE



Perfect marking, perfect point calibration

Rotation **is free**, without accessories, for both the Standard and Harsh Environment versions.

Options: **7 dots, 16 dots**
Nozzle size: **120µm, 200µm**



BENEFIT

HIGH EFFICIENCY

✓ **Precision, speed and durability!**

Drastically reduced internal friction and wear: **doubles operating life and increases MTBF by 100%**

Minimal maintenance and reduced operating costs: their robust construction and automatic nozzle-by-nozzle cleaning and calibration system make the printheads virtually **maintenance-free, ensuring longer, uninterrupted production cycles**.

Product **repairability**

RELIABILITY

✓ **Precision, speed and durability!**

Consistent print quality even in challenging operating conditions, with legible markings on **flat, curved or sloping surfaces**

Printing flexibility: ideal for alphanumeric texts, 1D/2D barcodes, QR Code and Data Matrix and logos, with variable print heights for messages from simple to complex, even in challenging environments and at high speeds

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BENEFIT

VERSATILITY AND ADHESION

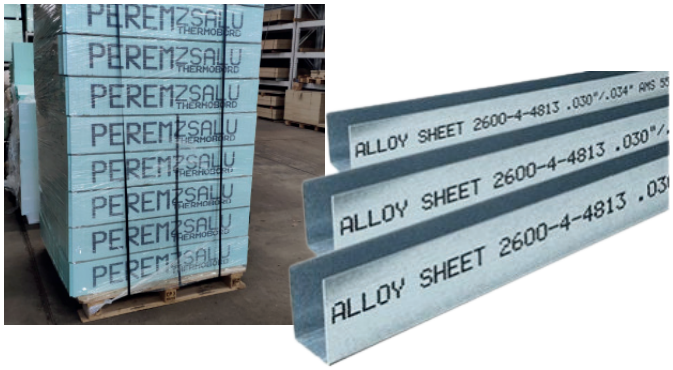
Fast and grippy!

- **Clearly visible marking**, even from a distance
- **Fast drying** and **high adhesion**
- Direct and significant **savings on consumable costs: - 45% (thanks to a reduction in nozzle size)**

Right ink for each application

The wide range of **fast-drying, high-adhesion water, alcohol and solvent-based inks** allows Z402 to print texts, barcodes and logos on a wide variety of surfaces.

Particularly suitable to mark paper and plastic bags, cardboard packaging, wooden profiles, laminates and sheets, panels, pipes, construction and extruded materials.



SIMPLE AND INTUITIVE

Immediate: Ease of use!

- **Staff can get up to speed in far less time**, thanks to simplified and efficient training processes
- **Facilitates data entry** and the selection of printing processes
- **Orkestra evolves with the production context**, to maintain the software **ALWAYS NEW**

Revolutionary Orkestra management software

The interaction with Z402 is simple and intuitive thanks to Orkestra, the **revolutionary management software** with customisable user interface for each operator.

The modern **7" colour touch screen** display allows access to the graphic editor to create messages, images and shapes, facilitates data entry and the selection of printing processes.

orkestra®

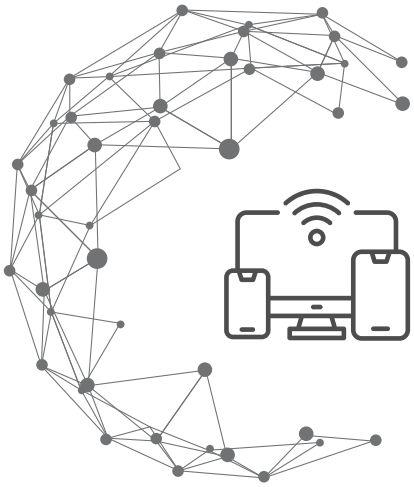
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BENEFIT

Remote management

The printer is **managed, controlled and monitored** directly **from the console using Orkestra**, or **remotely using Orkestra Remote interface software** for PCs and laptops.



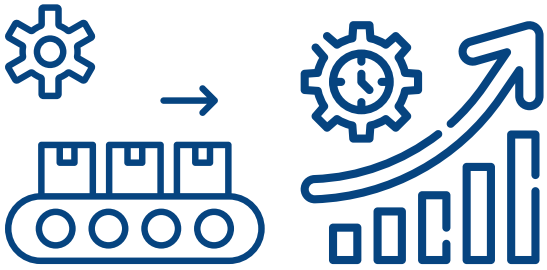
SMART CONNECTIVITY

Control at hand!

- **Operational flexibility:** local or remote management according to production needs
- **Speed up personnel training**
- **Efficiency and control:** real-time message monitoring and editing
- **Online support:** video tutorial

OEM

The **sealed structure, designed to withstand dust, water and extreme temperatures, the high connectivity** and the **features of Orkestra** make it easy to insert the system in the most varied production contexts, making it ideal for **OEM integrations.**



EASY INTEGRATION

Insert it in every production lines!

- **Easy to insert** in varied production contexts
- **Durable and high-performing in all conditions**
- **3R philosophy:** Robust, reliable, repairable

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Sample













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Technical specifications

PRINTING SPECIFICATIONS

- Up to two printing lines
- Print height from 4.2 mm to 67.5 mm (0,16” - 2,65”)
- Coding throw distance up to 35 mm (1,37”)
- Line speed capability: up to 180 m/min (591 ft/min)
- Printing rate: up to 266 ct/sec
- Available fonts: 5x4, 5x5, 6x4, 7x4, 7x5, 8x6, 9x5, 9x7, 10x8, 12x10, 15x10, 16x10
- Management of one 16 dot printhead or up to two 7 dot printheads
- Automatic date, time, off sets and expiry date multifunctions
- Incrementing/decreasing alphanumeric product counters up to 9 digits
- Metric repeat print - message function
- Customizable message repeat with single print start
- Field orientation: 0°, 90°, 180°, 270°
- Tower print function (text rotation of 90°)
- Fixed and variable text field types (automatic or external)

BARCODES

- 2/5 Industrial, UPC-A, CODE 39, CODE 128, EAN 13, GS1-128,
- 2D: DataMatrix, GS1 DataMatrix

CONSUMABLES

- Fast dry inks and excellent adhesion to satisfy any application and surface, all RoHS compliant: water-based, ketone-based (MEK) and alcohol-based (methanol-free) inks
- Ink for Food Packaging

CABINET

- Stainless steel structure AISI 304
- Temperature: from 5°C to 40°C (41° F - 104° F)
- Humidity: 10-90% (non-condensing)
- Power supply: single-phase, 85 - 264 Vac, 50 - 60 Hz, 150W
- 7” TFT full color anti-reflection high-contrast LED touch-screen display
- Messages and logos storage: up to 4 GB with expandable Micro SD memory
- User interface and configurable virtual keyboards with support for international languages and character sets (e.g., European languages, Japanese, Arabic, Chinese, Cyrillic)

EXTERNAL CONNECTIONS

- Serial conntection RS232
- Ethernet interface for LAN 10/100 Mbit/s connection
- scanner connection
- USB port version 2.0
- Parallel interface BCD, 6 bit
- Sensor management for product detection
- Encoder management for irregular movements
- External alarm outputs for low ink level

PRINTHEAD

- NZ 2.0 heads: Standard (S) and Harsh Environment (HE)
- Nozzle size: 120µ - 200µ for all models. High-precision synthetic ruby nozzles
- High-efficiency solenoid technology
- Nominal print heights: 7-point heads: maximum 27 mm (1,06"), minimum 4.2 mm (0,16")
- Nominal print heights: 16-point heads: maximum 67.5 mm (2.65"), minimum 10.5mm (0.41")
- Head distance: 3 m (10 ft) or 10 m (33 ft)
- Black anodised aluminium supporting frame, closing cover and rear panel in AISI 304 stainless steel, functional block in Derlin
- Free rotation without accessory
- Single-point purging and calibration

Technical drawings

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The images in this brochure are for illustrative purposes only and may not fully reflect the actual characteristics of the product.

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