

Z402



Large character



Industrial DOD Printer Brochure



large character

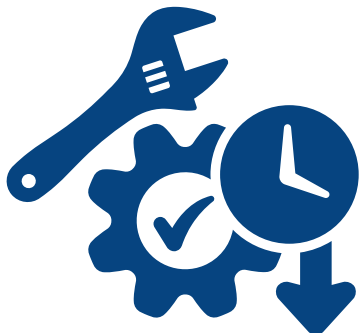
Simple and compact

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.



Z402

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**, with a character height between 11 mm (0,43") and 68 mm (2,68")

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



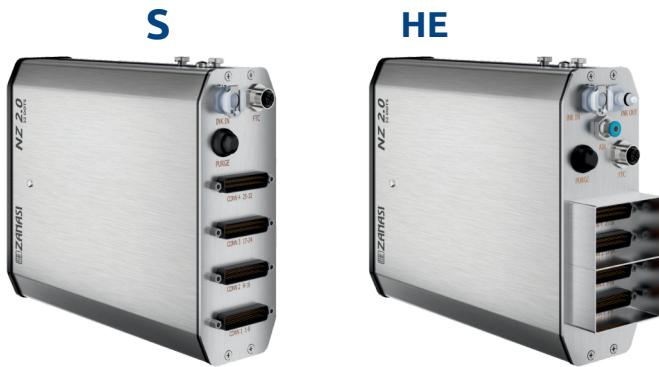
large character

Z402

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.



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

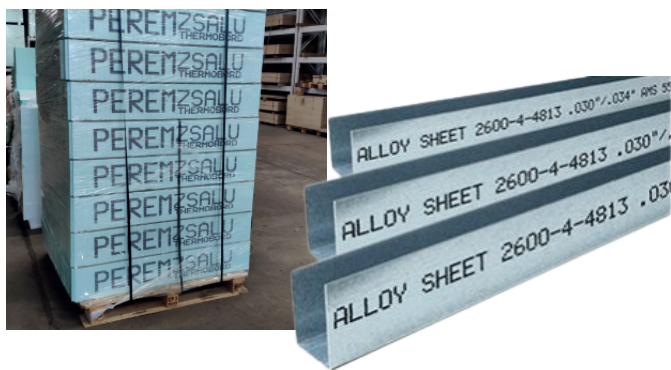


large character

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.



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.



Z402

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)**

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

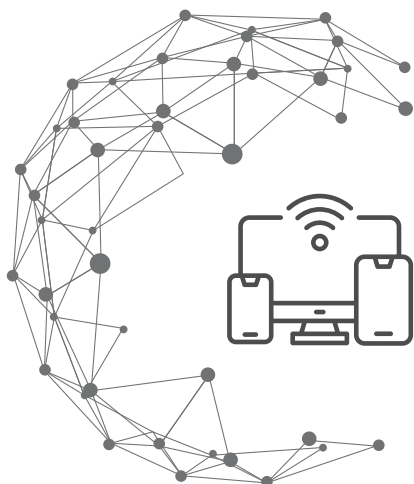
Orkestra evolves with the production context, to maintain the software **ALWAYS NEW**



large character

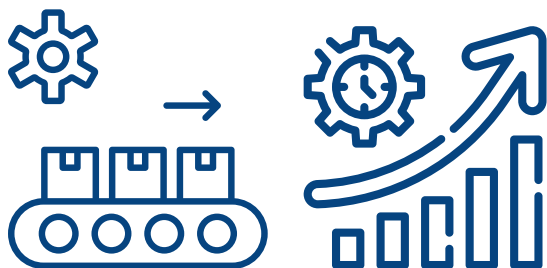
Remote management

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



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**.



Z402

BENEFIT

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

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



large character

Z402

Sample





large character

Z402

Technical specifications

PRINTING SPECIFICATIONS

Up to two printing lines

Print height from 11 mm to 68 mm (0,43" - 2,68")

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 connection 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 11 mm (0.43')

Nominal print heights: 16-point heads: maximum 68 mm (2.68'), minimum 27 mm (1.06')

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





ZANASI SRL Via Marche n.10
41049 Sassuolo (MO) - Italy
Tel. +39 0536 99.97.11

Rel.03/2026

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

zanasicoding.com