



# INDUSTRIAL MARKING & LABELLING 2023

Hand printers, stationary labelling systems and inkjet inks  
for industry, trade and distribution.

[www.nasajet.com](http://www.nasajet.com)

# Introduction

INDUSTRIAL LABELLING TODAY  
NO LONGER CONCERNS ONLY  
LARGE PRODUCERS

In the manufacturing industry, in trade, but also in crafts, there is always something to label. Foils, pallets, packaging, aluminium cans or the product itself need production information, batch numbers, dates, delivery addresses and much more. Today, pre-printed adhesive labels or simply printed and affixed papers are often the preferred choice. In addition to the material input, this also requires a considerable amount of personnel and time. On the other hand, advanced methods are not yet economically viable for many small and medium-sized enterprises.

Modern labelling devices,  
which in many cases can  
help solve problems of this  
kind and optimise existing  
processes, are based on  
inkjet technology.

The advantages of inkjet technology lie in its practicality, because it is safe, reliable and available practically everywhere. Typical "problems" familiar from the home (clogged nozzles, dried ink) hardly play a role on an industrial scale. Throughput and quantity are usually so large here that these problems do not come into play.



## Technology What is TIJ? (Thermal Inkjet)

### Thermal Inkjet marking

Thermal Inkjet from Hewlett Packard is now a quasi-standard in industrial marking using ink. The technology supports both water-based and solvent-based inks.

The core of the technology is separate printing and control hardware. The print head is integrated into the cartridges themselves and can be addressed by control units via electrical contacts. The cartridge also serves either as a classic ink reservoir (usually 42ml) or as an "adapter" for connecting external ink supplies (bulk systems).

It was TIJ technology that enabled the miniaturisation of printing devices that we see on the market today. Mobile hand printers often weighing less than 1 kg would not be possible without TIJ.

#### Advantages of TIJ

High resolution printing (600dpi)

Suitable for almost all substrates

Allows any print format (text, graphic,...)

Flexible stationary and mobile use

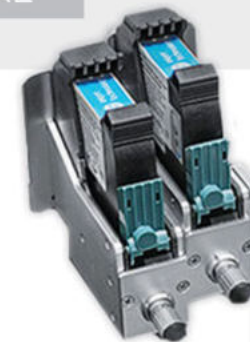
Any printing height through combination

Quick cartridge change

PROVEN

ECONOMIC

PROFESSIONAL





# Thermal Inkjet in industry, trade, craft & commerce

The many advantages of TIJ technology, combined with low costs, make it interesting for almost all areas of economic activity. Besides the obvious uses in production and shipping, TIJ labelling can also serve many other purposes. The combination with digitalisation techniques (QR code, data matrix code,...) can also open up completely new possibilities in the warehouse, for example, with regard to locating or picking goods. In the trades or on the building site similar methods can be used to increase efficiency and effectiveness by quickly and unambiguously and assemblies can be marked quickly and unambiguously.

Last but not least, simple and economical labelling possibilities also mean improvements in logistics (goods tracking) as well as in marketing and the control of rights and licences (invisible marking). and licences (invisible marking with UV inks). The application possibilities of TIJ are thus truly almost unlimited. Many practical problems, which often create cumbersome and expensive "workarounds", can be solved can be addressed in a modern and economically intelligent way.

Suitable ink products or even special inks exist for almost all conceivable substrates. special inks that take into account certain substrate properties, such as durability, UV resistance or protection against moisture and dirt.



Countless  
applications

Paper & Cardboard  
Wood  
Rubber  
Stone  
Concrete  
Ceramics, Tiles  
Glass

PE & PP  
Styrofoam  
Silicone  
Acrylic  
Laminate  
PUR foam

Aluminium  
Steel  
Iron  
Copper  
Alloys

organic  
mineral

Plastics

Metals

...and many more.





## NasaJet® handheld printers

NasaJet®'s flexible and cost-effective TIJ hand printers are best used where small to medium margins need to be labelled in a straightforward manner.

The modern and powerful inkjet industrial hand printers from NasaJet® help you to mark almost any object and surface quickly and easily. Especially packaging, but also pallets, plastic and even wood and metal can be printed conveniently and time-saving with the NasaJet® hand printers. NasaJet® hand printers are also suitable for marking labels or printing on paper documents and forms. Standardised HP inkjet cartridges (HP 45, 45si, 45ai) ensure manageable printing costs and constant availability of replacement ink.

You can create your print templates quickly and conveniently via the integrated 4.3" touchscreens (approx. 11 cm diagonal). You can easily save or upload data via the integrated USB interface.

NasaJet® handheld printer allows you to create almost any print content. Text, sequential numbering  
The practical hand printer quickly and economically prints text, consecutive numbers, dates, QR and barcodes, as well as graphics and logos on the desired object.



### Quick and easy

The hand printers are ready for use after a very short time. Once created, print templates can be used again and again. Replacing the ink cartridges requires only a few hand movements and with the powerful 2,600mAh battery you are ready for use for a long time.



### Highest Quality

With 300dpi resolution, barcodes, QR codes, data matrix codes and monochrome graphics can also be printed pin sharp on the carrier object.

Other advantages include very low noise levels and the avoidance of fine dust pollution during printing.

## Our models for mobile printing.



### NasaJet® NJ-100

**Print height:** 2mm - 12mm

**Resolution:** 300dpi

**Ink:** Water/Solvent

**Weight:** 1,12Kg (incl. battery)

**Temperature:** 0-45°C

**€562,87**

(incl. VAT, excl. shipping)



### NasaJet® NJ-200

**Print height:** 2 mm - 25.4 mm

**Resolution:** 300dpi

**Ink:** Water/Solvent

**Weight:** 1,12Kg (incl. battery)

**Temperature:** 0-38°C

**€1039,94**

(incl. VAT, excl. shipping)



### NasaJet® NJ-500

**Print height:** 2 mm - 50 mm

**Resolution:** 300dpi

**Ink:** Water/Solvent

**Weight:** 2Kg (incl. battery)

**Temperature:** 0-38°C

**€1962,19**

(incl. VAT, excl. shipping)

(Errors and omissions excepted)

<https://www.nasajet.com/>

## NasaJet® labelling systems

For existing production lines with a high degree of automation, stationary marking systems are generally better suited than hand printers. Here too, NasaJet® 2 offers professional systems at an interesting price.

## Our models for stationary printing.



Labelling systems are used in industry to label products, packaging, outer packaging or transport containers with legally or organisationally required information such as serial numbers, production dates or expiry dates. In most cases, this step is the end of the production process and takes place before shipping and distribution. Labelling, marking or identification of products or shipping packaging are characterised above all by dynamic data. Continuous serial numbers, dynamically calculated best-before dates or even variable QR codes serve to transport more information in order to make other work processes simpler and more effective.

With the NasaJet® NJ-1000 and 2000, in addition to our hand-held printers, we also offer 2 stationary labelling systems which can be integrated into existing assembly line production with little effort. The systems consist of a computer unit (control unit) and TIJ (Thermal Inkjet) based print head(s). The computer unit allows easy and convenient generation and management of the print data directly at the point of use via a touch screen and controls the output at the print head according to the set production speeds (up to 60m per minute).



### Quick and easy

The labelling systems can be used independently or integrated with other, already existing systems. Via standardised interfaces, existing sensors (light sensor, scales,...) can thus also be used as clock generators.



### Highest quality

With 300dpi resolution, barcodes, QR codes, data matrix codes and monochrome graphics can also be printed pin sharp on the carrier object.

Other advantages include very low noise levels and the avoidance of fine dust pollution during printing.



### NasaJet® NJ-1000

**Print height:** 2mm - 12mm

**Resolution:** 300dpi

**Ink:** Water/Solvent

**Power supply:** 240V input

**Temperature:** 0-45°C

**€1837,84**

(incl. VAT, excl. shipping)



### NasaJet® NJ-2000

**Print height:** 2 mm - 25.4 mm

**Resolution:** 300dpi

**Ink:** Water/Solvent

**Power supply:** 240V input

**Temperature:** 0-38

**€2471,57**

(incl. VAT, excl. shipping)

(Errors and omissions excepted)



### Mylan® GROUP BULK SYSTEMS

For large ink requirements we recommend the bulk systems from the manufacturer Mylan. They allow the connection external ink supplies to TIJ-based systems

<https://www.nasajet.com/>





## Thermal Inkjet inks



The Vietnamese manufacturer Mylan Group, which is still relatively unknown in Europe, has built up an excellent reputation in Asia and America as a producer of modern packaging materials and industrial printing technology. packaging materials, but also industrial printing technology. Mylan ink stands for particularly high quality at a fair price.



### Research

Mylan researches and develops its products itself. "Formulating a greener World" aptly expresses this attitude.

### Quality

Mylan inks are geared to the tough specifications of daily industrial use. Consistent quality at all times and solutions tailored to the needs of production and distribution are the goal.

### Responsibility

Mylan actively faces up to its responsibility for climate, society and the environment. Mylan products are safe & clean.



Our range of high-quality Mylan ink products is complemented by selected special inks and special designs, for example 1 inch TIJ cartridges for particularly large print outputs.

### Always well advised

Our TIJ ink range covers countless applications. Suitable special inks or inks with selected properties for special requirements exist for almost every substrate.

### Economic marking

If you print a lot, you also have to pay attention to the costs. Our ink range is geared towards needs-based solutions. The best quality at a fair price and discounts for large purchase quantities.



## Product range

The inks are of course perfect for use in our own handheld printers and labellers, but can also be used in all third-party products that support the TIJ standard. The following selection presents some of our products by way of example.



### HydraJET® 2020K

The water-based ink is optimised for industrial applications such as packaging, shipping or ticket labelling. It offers special protection against fading and increased water resistance.



### SoluJET® 2770K

The solvent-based, black ink meets all requirements for professional packaging labelling. PET, PVC, PA, BOPP and films can be labelled with high precision.



### SoluJET® 2550B

This invisible, blue UV ink only becomes visible under ultraviolet light ("black light"). It is therefore perfect for product tracking or anti-counterfeiting applications.



### SoluJET® 2750W

UV light-curing inks do not bond with the respective substrate. They are particularly suitable for use outdoors and are especially UV-stable and scratch resistant.



### 3770K

Professional black TIJ ink with a 1 inch (25.4mm) print head for large area marking. Suitable for handheld printers and stationary systems.



### HydraJET® 2020K BULK

The Mylan Bulk systems combine TIJ-cartridges with a connection for external ink supplies. This allows for low expenditure even with high ink demand.

Errors and omissions excepted.

<https://shop.geolt.net/en-gb/>



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