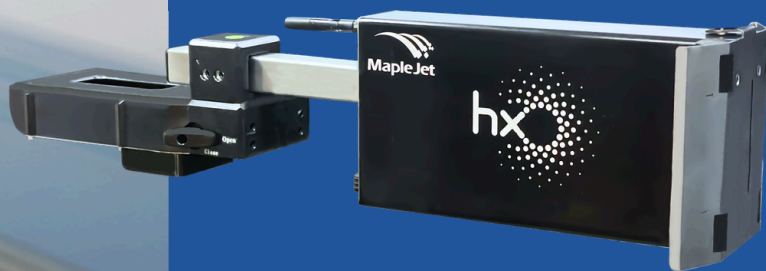


# Hx Megalo

## Large Character Printer



Ideal for printing large codes, barcodes, logos and product information onto carton, plywood, and industrial materials

Up to 70mm



P: 21/07/2025  
E: 20/07/2026

### Coding & Marking Solutions

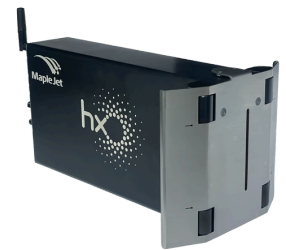
Manufacturer and supplier of industrial inkjet printers, consumables, and after-sales support.

# Hx Megalo Product Line

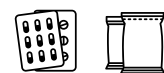


The Hx Megalo Piezo Inkjet Series features a single printhead with up to 70 mm print height, making it ideal for large-character printing and highly visible branding on both porous and non-porous materials. Built on advanced piezoelectric technology, it enables precise droplet control and supports a bulk ink delivery system that minimizes operator intervention for continuous, high-volume production.

Available in three variants—Hx Megalo Oil-Based, Hx Megalo UV, and Hx Megalo Solvent (for pipe marking)—the series offers versatile ink solutions. The eco-friendly oil-based ink is OK bio-based certified, while the solvent and UV options deliver fade-resistant and heat-resistant performance for demanding industrial environments. Integrated with Hx Manager software and accessible via smart devices, the system provides browser-based message creation, real-time monitoring, and centralized control for a streamlined production workflow.



PRINTER MODEL	Hx Megalo Oil-based	Hx Megalo Solvent (White)	Hx Megalo UV
<b>PRINTING:</b>	Large character printing with high resolution	Large character, high-opacity white printing for dark surfaces	Large character printing with UV-curable ink
<b>COMPATIBLE SURFACES:</b>	Absorbent surfaces – corrugated cardboard, uncoated paper	Industrial pipes, HDPE/PVC extrusions, galvanized pipes, metal conduits, & other dark substrates	Plastic pouches, laminated films, coated packaging materials, flexible packaging
<b>KEY FEATURES:</b>	<ul style="list-style-type: none"> <li>High-durability large character printing</li> <li>Eco-friendly bio-based oil ink (OK bio-based certified)</li> <li>Quick and easy installation (Plug-and-Play)</li> </ul>	<ul style="list-style-type: none"> <li>High-opacity solvent white ink for strong contrast</li> <li>Excellent adhesion on plastic and metal surfaces</li> <li>Ideal for continuous extrusion lines</li> </ul>	<ul style="list-style-type: none"> <li>Instant curing UV ink</li> <li>High resistance to fading, chemicals, and heat</li> <li>Durable marking for demanding environments</li> </ul>
<b>BEST APPLICATIONS:</b>	Secondary and complementary packaging lines, FMCG brands, packaging companies, capping and sealing machines	Pipe marking, extrusion coding, conduit identification, and industrial product labeling	Plastic pouch printing, flexible packaging coding, branded retail packaging
<b>RECOMMENDED INDUSTRIES:</b>	Medical, food, FMCG, and secondary packaging industries	Pipe and extrusion manufacturers, construction materials, infrastructure, and heavy industrial production	Food & beverage, nutrition, pharmaceuticals, and premium packaged goods



P: 21/07/2025  
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# Hx Megalo

## Key Features

### Large-format, high-visibility printing:

Up to 70 mm print height for bold branding and clear industrial marking.

### Advanced piezo technology:

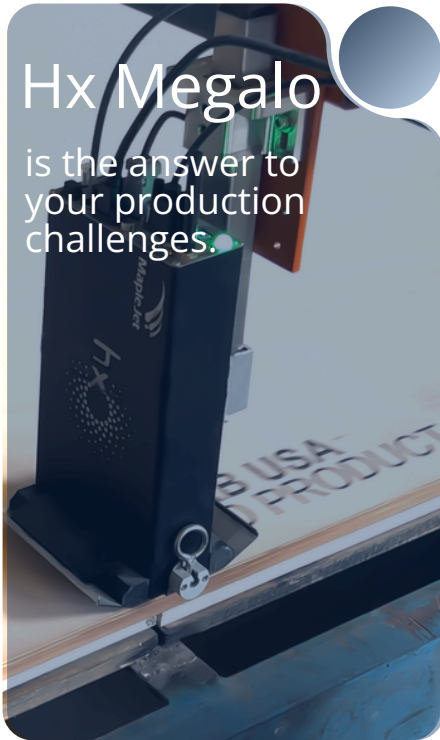
Precise droplet control ensures sharp, consistent non-contact printing.

### Versatile specialty ink support:

Compatible with oil-based (OK bio-based certified), UV-curable, and high-opacity solvent white inks.

### Engineered for industrial performance:

Reliable adhesion and durability on cartons, flexible packaging, plastics, metals, pipes, and extrusions.



Hx Megalo is the answer to your production challenges.

#### Quality Control Manager

##### Challenges

- High cost of rework due to printing errors
- Poor print quality on glossy or smooth surfaces
- Product waste caused by printing errors
- Need for constant operator presence for QC checks

##### Solutions

- Real-time inspection of printed messages
- Print system monitoring
- Fault Mode detection and reduction of printing errors
- Line-stop alerts
- Conversion of QC into a digital inspection process

##### Benefits

- High-quality, durable printing
- Improved product appearance
- Reduced printing errors
- Lower dependency on manual labor

#### Production Manager

##### Challenges

- High maintenance and consumable costs
- Lack of visibility into printer stoppages
- No accurate production tracking
- Difficulty monitoring ink usage and printer performance
- Unplanned downtime during production
- Lack of centralized reporting

##### Solutions

- Predictive maintenance and early fault detection
- Printer Health Check system
- Production and printing reports (Daily Reports)
- Ink consumption monitoring
- Remote printer management and diagnostics
- Real-time production and print status monitoring
- PLC connectivity and automation integration
- Centralized management through HX Console

##### Benefits

- Reduced consumable and maintenance costs
- Increased production efficiency by reducing downtime
- Accurate production tracking
- Improved consistency and reliability

#### Operator/Line Supervisor

##### Challenges

- Manual cartridge replacement and setup
- Incorrect printer adjustments due to operator error
- High training requirements
- Delays in resolving print issues
- Safety concerns when handling MEK inks

##### Solutions

- Tool-free cartridge replacement
- Automatic print settings
- Error alerts with clear guidance
- Access-level control (User Levels)
- Reduced MEK exposure through sealed ink systems

##### Benefits

- Easier operator usage
- Higher line uptime
- Faster response to print errors
- Safer working environment

#### Factory/Operations Manager

##### Challenges

- High Total Cost of Ownership (TCO)
- Production losses due to downtime
- Lack of accurate performance data
- Complex printer management
- High upfront and operating costs

##### Solutions

- Optimized purchasing and consumable usage
- Reduced production stoppages during cartridge replacement
- Hx Console for centralized control and monitoring
- ERP and PLC integration
- Automated production data transfer

##### Benefits

- Lower Total Cost of Ownership (TCO)
- Improved factory performance visibility

#### Warehouse, Logistics & Procurement Manager

##### Challenges

- Delays in spare parts availability
- High inventory cost for MEK inks and spare parts

##### Solutions

- Local production and supply of spare parts
- Reduced need for MEK inventory and storage space

##### Benefits

- Lower direct and hidden costs
- Elimination of hazardous material handling risks

## Why Hx Megalo is a Smart Choice?

- **High-Impact Large Character Printing**

Delivers bold, highly visible codes up to 70 mm print height—ideal for branding, product identification, and industrial marking.

- **Application-Specific Ink Flexibility**

Supports oil-based, UV-curable, and high-opacity solvent white inks to match carton packaging, flexible films, and pipe/extrusion requirements.

- **Precision Piezo Technology**

Advanced droplet control ensures sharp, consistent, non-contact printing across diverse substrates.

- **Built for Demanding Production Environments**

Engineered for reliability and durability on high-speed packaging and extrusion lines, even on dark, coated, or uneven surfaces.



- **Software Upgrade Ready**

Keeps the printer up-to-date with regulatory coding requirements (e.g., health ministry standards)

- **Fast and Accurate**

Ideal for production lines with variable speeds

- **High-Quality Non-Contact Printing**

Prints on all materials with a print height of up to 70mm or 2.7 inches

- **Eco-Friendly**

No VOC emissions and no unpleasant odors

- **Suitable for All Environments**

Operates reliably even in dusty or humid industrial conditions

- **Long Service Life**

Designed for years of continuous use

## Industrial-Scale Performance, Simplified

# Hx Megalo

Hx Megalo is built to deliver reliable, high-visibility marking in demanding industrial environments—without adding complexity to your production line. Its robust design ensures consistent operation across varying **speeds, surfaces, and conditions**.

Designed with operators in mind, Megalo combines ease of use, minimal maintenance, and flexible integration, making it a practical solution for modern production facilities.

### Highlights

- Consistent performance across variable production speeds and conditions
- Easy integration into existing production lines
- Low-maintenance design for reduced downtime
- Clean operation with no unpleasant odors or VOC emissions
- Built for long-term, continuous industrial use
- Remote monitoring and control for improved operational efficiency

● Applications of the Hx Megalo Inkjet Printer

# Where is this printer ideal for?



## Secondary Packaging & Carton Coding

Perfect for printing large, high-visibility information on corrugated cartons, outer cases, and shipping boxes.



## Multi-shift and 24/7 manufacturing environments.

Supports round-the-clock operation with bulk ink supply and consistent output.



## Flexible Packaging & Plastic Pouches

Ideal for complete nutrition, food, and retail packaging requiring durable, high-contrast printing on laminated films and plastic pouches.



**Centralized plants standardizing coding across multiple lines.** Well-suited for facilities seeking uniform print quality and centralized control.

# Hx Megalo

● Where is this printer most commonly used?



1

## Secondary & Outer Case Packaging

Used for large, high-visibility printing on:

- Corrugated cartons and shipping boxes
- Master cartons for FMCG and food products
- Logistics and distribution packaging
- Industrial outer cases requiring bold identification



2

## Flexible Packaging & Plastic Pouches (UV)

Ideal for durable printing on:

- Complete nutrition and food pouches
- Laminated snack and retail packaging
- Plastic films and coated flexible materials
- Premium branded packaging requiring fade resistance



3

## Pipe & Extrusion Industry (Solvent White)

Designed for high-contrast marking on:

- HDPE and PVC pipes
- Galvanized pipes and metal conduits
- Continuous extrusion products
- Construction and infrastructure materials

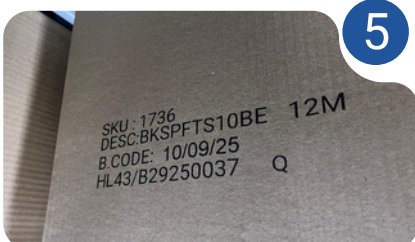


4

## Industrial Product Identification

Suitable for marking on:

- Plastic components and molded parts
- Metal products and coated materials
- Construction supplies and hardware
- Large industrial goods requiring bold codes



5

## FMCG & Manufacturing Lines (Oil-Based)

Used for printing:

- Batch codes and production details on cartons
- Case-level branding and product identification
- Secondary packaging in food and medical industries
- High-speed packaging lines requiring large character visibility

## The Choice is Yours! Use MapleJet's HMI or Connect to Your Internal Systems

To monitor, manage, and update print data, you can choose between two integration options:

### 1. Using MapleJet's Dedicated Software

With the web-based platforms Hx Console and Hx Manager, you can control devices in real time, view reports, and apply necessary adjustments – all through a browser, with no software installation required.

These platforms are equipped with smart Business Intelligence (BI) and Business Analytics (BA) tools, allowing you to track what has happened and make data-driven decisions to optimize your production workflow.

### 2. API Integration with Your Internal Systems

If you prefer your print data to be sent directly into your existing ERP, CRM, or manufacturing software, you can use MapleJet's dedicated API.

This enables you to view and analyze printer data alongside other business information – all in a single dashboard, without switching between systems.

Introducing

## Hx Manager

Hx Manager is a dedicated platform for monitoring and controlling your printing process. Designed specifically for a single inkjet printer, it provides full access to device controls, status tracking, and performance insights. The software can be accessed from any smart device – including mobile phones, tablets, or computers – as long as it is connected to the same Wi-Fi network. Hx Manager includes five main sections:

- **Monitoring** • **Message Editor** • **Health Check** • **Settings** • **External Data Management**

## HX Manager Features



### Message Design Modes

1. Advanced Message Editor
2. Auto Pilot

### Message Design

Design and edit static and variable data messages including: date, time, batch number, shift code, barcode,

### Message Control

QR code, logo, text, external database fields, counters, authenticity barcode, and more  
Create, monitor, and manage print messages through a browser

### Remote Upgrade

Printers on the line can be upgraded remotely without removing them from production, allowing instant updates.

### Economy Mode

Ink consumption reduced by up to 50% increasing print quantity

### Daily Report

Hourly and daily production monitoring

### Health Check

Real-time printer status check to prevent production downtime

### Send to Many

Design a message once and send it to multiple printers simultaneously

### Auto Notify

Sends automatic alerts for events like print completion, online data updates, low ink level, etc. via selected channels such as USB, RS232, or Wi-Fi (HTTP) – keeping your team informed in real time.

### Roller Date

Set date format according to shift schedule and global time

### Custom Date

Customize date formatting (RTL, LTR, and other formats)

### Auto Print

Automatically prints messages based on data scanned by barcode reader – no manual configuration needed

### Print Job

Configure messages based on production counts (e.g. print 10 sachets with price, print 2 with free)

### Web Print

Send the same or different messages to multiple printers from a single message design page in AME.

### BCD Interface

Receives categorized PLC messages and prints accordingly (e.g., in ceramics packaging, the PLC defines the grade, then tells printer what to print).

### Font Recovery

Font backup in two sections and auto-switch to alternate font in case of issues

### Languages

Thai, Spanish, Portuguese, Japanese, German, Chinese, Persian, and English (more language upon request)

### Static IP Address

Supported

# Hx Console

**Hx Console** is a platform designed for executives and senior managers, enabling the monitoring, control, analysis, and adjustment of a network of printers simultaneously and centrally. It also provides advanced features such as creating and sending unified messages to multiple printers, sending customized messages, and exchanging XML-based requests and responses with the devices.

### Business Intelligence

Business and Operational Analytics

- Provides detailed print reports categorized by hour and day.
- Monitors the number of active printers and their performance.
- Tracks sent messages and updates them when necessary.
- Monitors remaining print counts, device health status, and potential issues.

### Remote Control

Printer Management and Connectivity

- Manage and control printers via Wi-Fi connection.
- No physical presence required near the device.
- Connect to ERP or CRM production software networks.
- Supports API-based integration.

### Multi-Printer Support

Centralized Control and Management

- Enables managing and controlling multiple printers simultaneously from a single central panel.

### Supported Languages

- English

**No Application Installation Required.**  
Monitor everything online.



### • Full control of all printers

Even if you have purchased multiple printers from MapleJet, you can manage them without the need for installation, complex training, or major changes. Connect them all to one unified system and monitor their status and operation. This platform is designed for uniform use across all devices and can help greatly in this regard.

### • Human resource management

Reducing the need for manual intervention by operators on the production line and training new staff.

### • Saving time and cost



## ● Controller Specifications

Section	Description
Message Design	Advanced Message Editor (AME)
Message Capacity	Unlimited (Windows/tablet)
Start/Stop Time	Instant
Password Security	Yes
Alert	Internal buzzer; OLED display, 64×128
Number of Printhead	1
Product Certification	CE

## ● Printing Features

Section	Description
Resolution	180 dpi
Maximum Print Speed	120 m/min at 50 DPI
Logo Printing Option	Yes
Barcode Printing	Various barcode types
Number of Print Lines	up to 36 (2mm each line)
Character Height Range	Up to 70 mm (2.7 inch)
Fonts	All Windows fonts
Date Formats	Multiple formats for date, message, etc.
Counters	User-defined counters
Message Components	Text, date, time, logo, counter, line, barcode, external data, serial number, letters, and numbers

## ● Connections and Communications

Section	Description
Connection Power	Easy connection without additional setup; Wi-Fi (direct or via access point), RS-232 isolated (optional), USB
Supply	Cable 15V adapter
Adapter	Optional connection for two or three-color beacon
External Light (Beacon)	Optional connection available
External Sensor	Optional connection
Stand & Holder	Available

## ● Cartridge Specifications

Section	Description
Technology	Piezo Technology
Compatibility	Compatible with porous and non-porous surfaces
Color	Black, Blue, Red (oil-based); Black (UV), White (Solvent)
Ink Dimensions	163mm x 103.5 mm x 39mm
Ink Identification	Automatic

## ● Physical Specifications

Section	Description
Controller Material	Coloured Anodized Aluminum & Stainless Steel
Controller Weight	2210g
Dimensions	L 270mm W 60mm H 137mm
Environmental Conditions	Temperature: up to 50 °C; Humidity: up to 80% (special enclosure for humid environments)

## ● Cable and Adapter Specifications

Section	Description
Input AC	80 ~ 264VAC
Output DCV	48 VDC
Rated Current	2.5 A
Rated Power	Max 120W

## ● Advanced Features

Section	Description
<b>Auto Notification</b>	Sends automatic alerts for events such as low ink level, print completion, or online data reception through channels like USB, RS232, Wi-Fi, or HTTP – notifying your team in real time.
<b>Auto Pilot</b>	Allows external controller monitoring of the printer. Each printer can receive commands from another fixed system (like PLC).
<b>Daily Production Report</b>	Provides daily print reports for monitoring total production status.
<b>Economy Mode</b>	Reduces ink consumption by up to 50% increasing print quantity.
<b>External Data</b>	Enables easy integration with external devices such as PLC or scales for variable data printing.
<b>Ink Estimation Calculation</b>	Estimates the number of prints based on message and parameter data.
<b>Printer Health Check</b>	Detects and prevents errors or unexpected stoppages.
<b>Print Scheduling</b>	Schedules print jobs based on company shifts and work plans.
<b>Signal Lock Connection</b>	Enables quick connection to the main system to send instant signals such as "Error," "Busy," "Printing," or "Ready."

## ● Ink Consumables

Ink Name	Ink Type	Volume/Colour	Suitable Surface	Application
Poreon	Oil-based	190ml / Black, Red, Blue	Porous	Paper bags, Corrugated boxes, Cardboard
Supreme UV	UV-based	190/ Black	Non Porous	Flexible package, plastic, and other non porous
Rapid White	Solvent based	190/ Black	Non Porous	HDPE and PVC pipes Galvanized pipes and metal conduits

## ● Ink Consumables



Poreon Black 190ml  
(Oil based)



Poreon Red 190ml  
(Oil based)



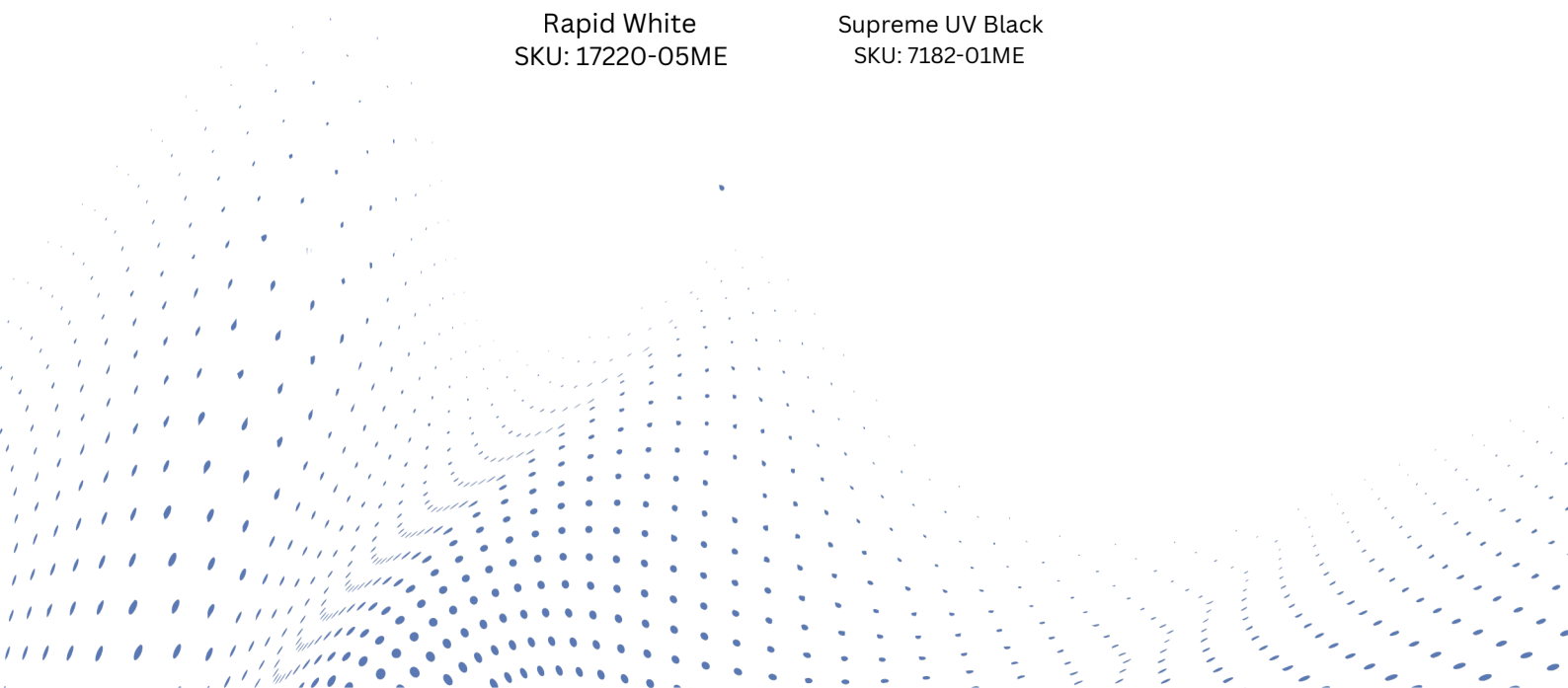
Poreon Blue 190ml  
(Oil based)



Rapid White  
SKU: 17220-05ME



Supreme UV Black  
SKU: 7182-01ME



# Accessories



Power Supply with Cable  
SKU: 20350



Product Sensor  
SKU: 34056-02-01



Sensor Mounting  
SKU: 36094-01



Shaft Encoder (2500ppr)  
SKU: 34004-05ME



Shaft Encoder (5000 ppr)  
SKU: 34004-05ME



Encoder Mounting  
SKU: 34018-02



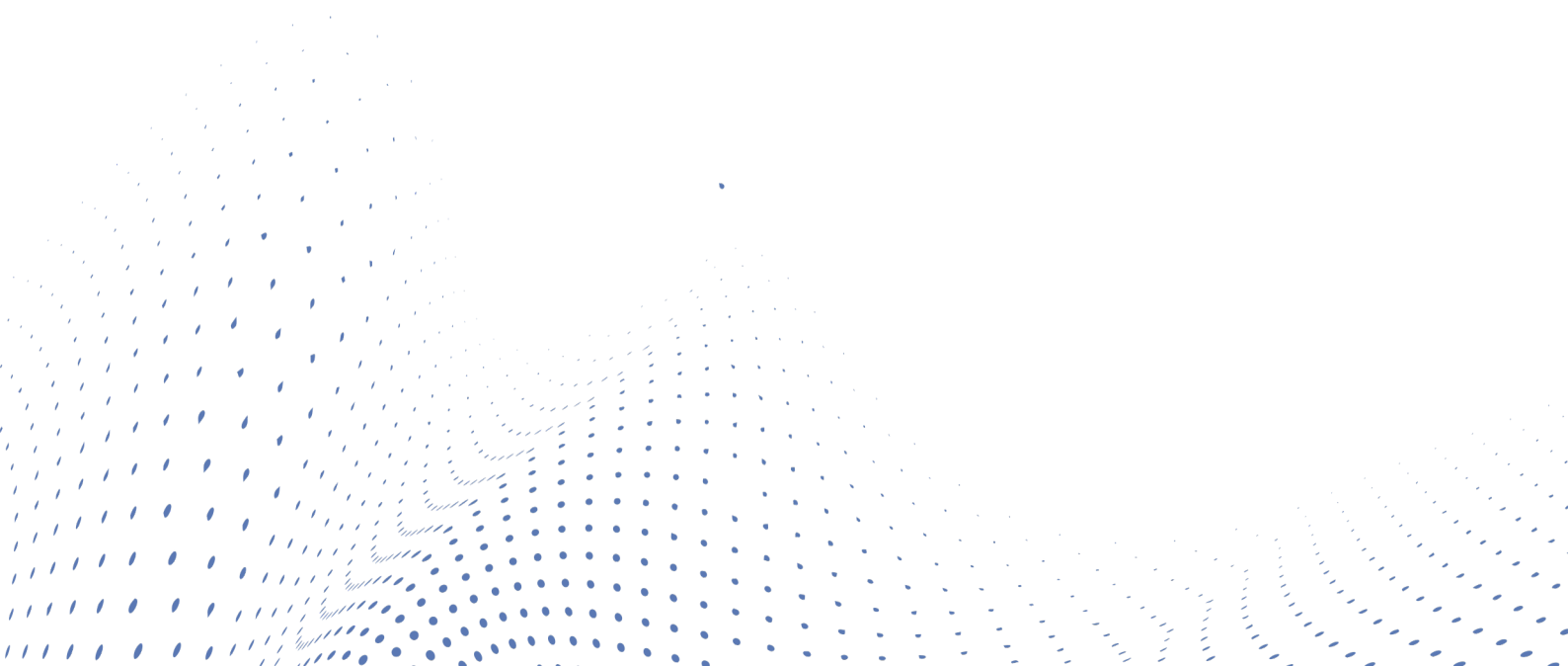
Hx Add On



Tri-coloured Beacon  
SKU: 36115-01



Spherical Head Sensor Mount  
SKU: 37328Beta



# Accessories



15" HMI  
SKU: 30364



Hx Megalo L Bracket  
SKU: 37313-03-02



UV curing LED (12 w/cm<sup>2</sup>, 80 x 120 mm curing area)



Hx Megalo Gravity Ink System  
SKU: 37317-03-03



Vacuum System for HX  
SKU: 37027-01-03ME



Universal Moving System Megalo 30x30 Profile  
SKU: 37311-03-03



Stainless Steel Tripod Stand  
SKU: 37236-01-05

OUR DISTRIBUTION NETWORK



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