



All-in-one investing solutions for plastics industry

achieve your dream

A man with short brown hair and a beard, wearing a yellow safety vest over a dark shirt, is holding a tablet and looking at it. He is standing in a factory or industrial setting with various equipment and machinery visible in the background. The image is slightly blurred, emphasizing the man and his actions.

AXIOMATEK®

is the company dedicated to increasing productivity  
establish value relationships and provide turnkey solutions  
with the best technology, machinery, and automation equipment (capital goods)  
of the highest quality for private companies and the plastics processing industry  
in Mexico and the United States, providing a commercial experience  
integral, impeccable and with a 100% focus on the success of the production  
processes of each client and its people.

# Values and Goals

- We strive to provide value to our customers thru understanding their business model so we can select, adjust and provide the best technological solutions that fit their production processes.
- Our daily activities are based on
  - VERACITY
  - HONESTY
  - LOYALTY
  - RESPONSIBILITY
  - VALUE
  - WIN – WIN RELATIONSHIPS



**Our solutions focus on 3 large areas:**

**AUTOMATION**

Robots, machinery and technologies, resin handling, plastic injection,  
insert parts, peripheral equipment

**Additive Manufacturing & CAD**

Product design, conceptualization, 3D printing

**RECYCLING**

Production lines in high volumes of plastic



Our definition of a profesional experience  
legendary, impeccable, proactive and compassionate

Equation of value

**Productive Processes+ Professional Experience = Customer Success**

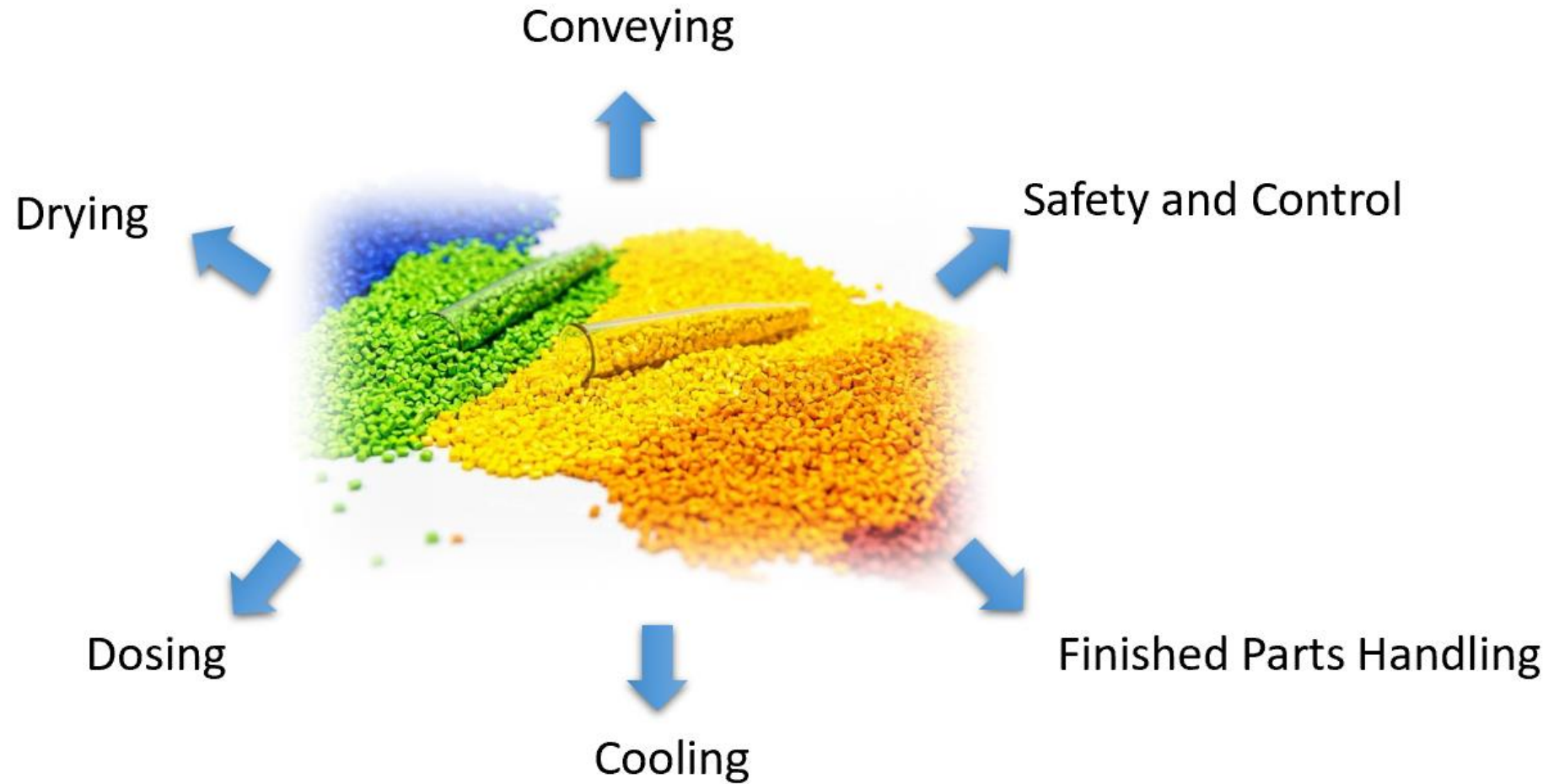
Efficiency

Achieve your dream

*Our customer success department ensures that the expectations from our customers are exceeded. They provide technical support, installation, training in maintenance, operations, spare parts and warranties*

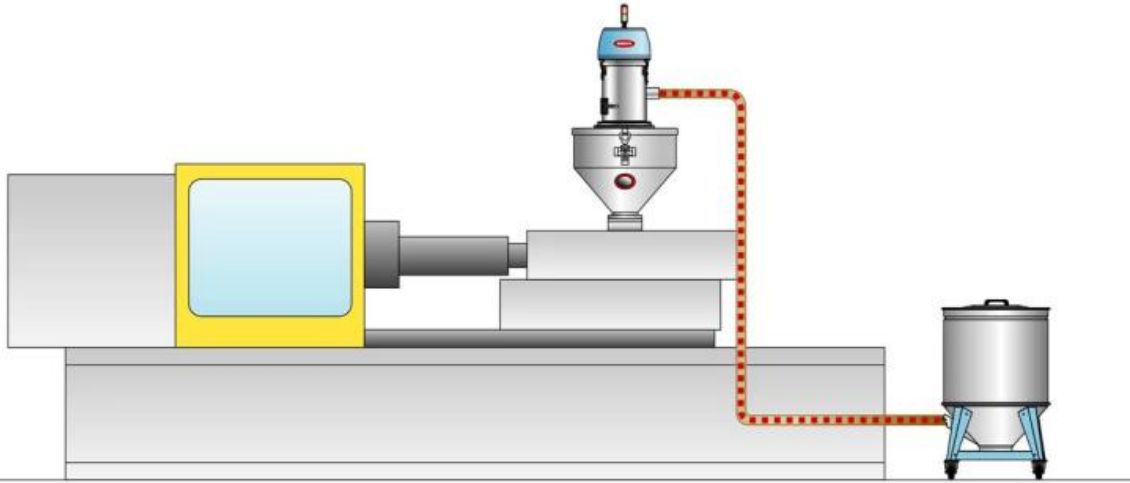
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# Automation



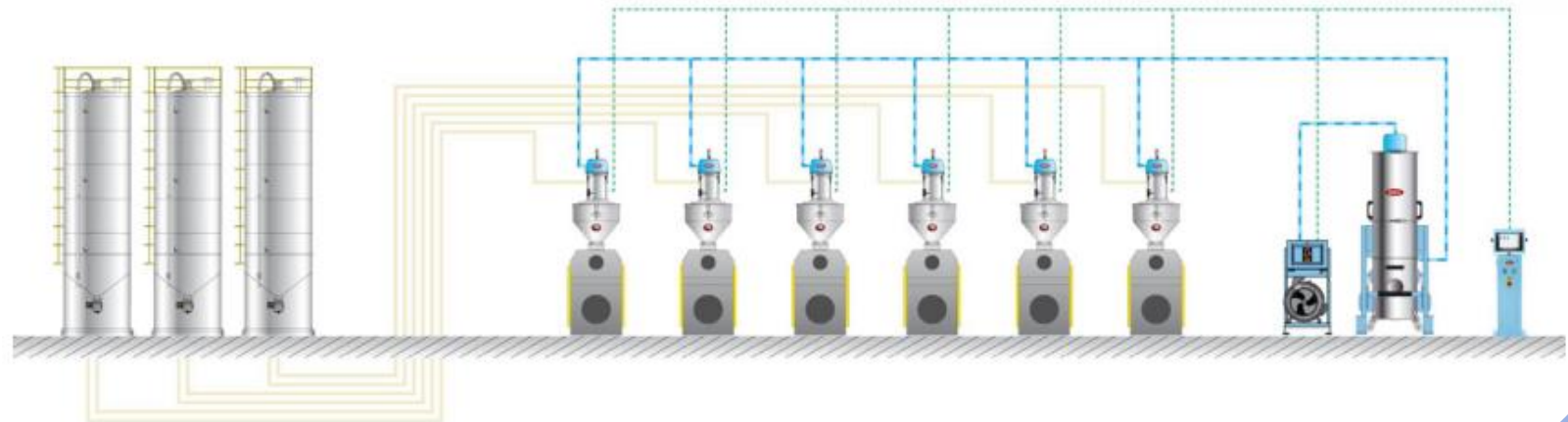
# Conveying

Molds Safety for insert molding and demanding applications.



Beside the Press Automatic loading for maximum Versatility – Custom Molders (LV – HM)

Centralized Vacuum and Material Handling for Maximum Efficiency – OEMs (LM – HV)





# Drying



Automotive



Profiles, pipes



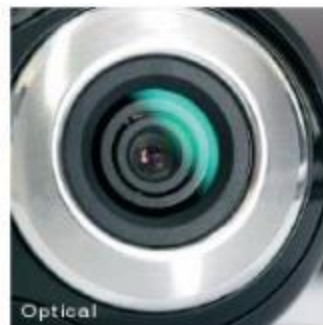
Medical



White goods



Electronics



Optical



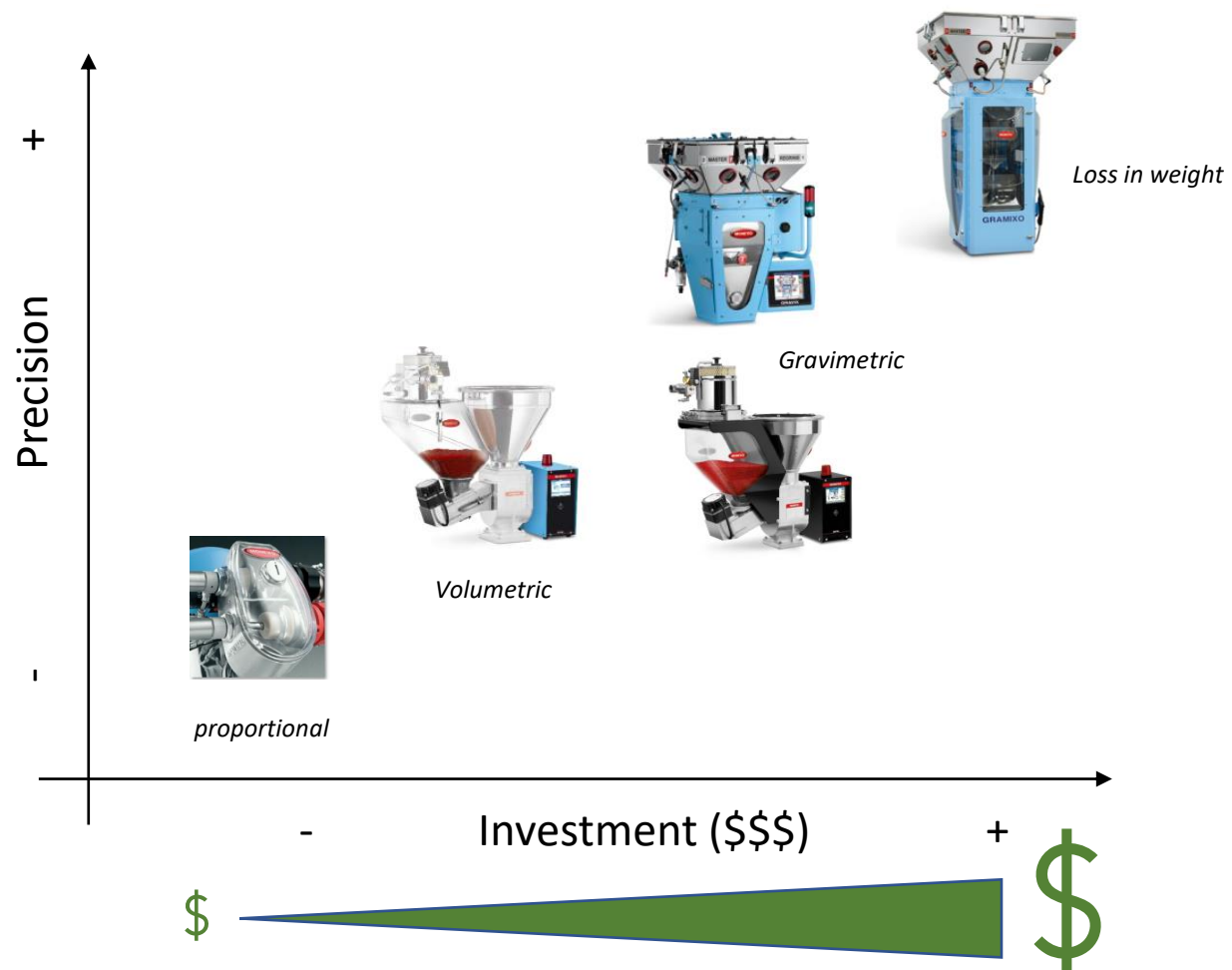
Beside the Press Drying  
for maximum Versatility



Centralized Drying for  
maximum efficiency

# Dosing and Blending

Perfect solution to adapt to customer needs, depending on the budget, accuracy, traceability, throughput and precision



# Cooling



Mini Chillers for  
BTP applications  
( 6 – 30 kW)



Portable Chillers for  
BTP applications  
(40 – 200 kW)

Central & Modular Chillers for  
centralized applications  
(150 – 210 kW)





# Finished Part Handling & Insert Molding

## Sprue-Picker

Closed Loop Systems  
Fast Cycle Time (Cold  
Runner Molds)



## 6 axis Robot

Complex Automation &  
Insert Molding  
Precise Cycle Times

## 3 axis Robot

Simple Pick n Place  
Medium – Long Cycle  
Times



## 5 axis Robot

Complex Pick n Place  
Fast & Precise Cycle Times



# Temperature Control



Avoid Downtime with a poor control of the temperature of your hot runner molds.

- Plastic Leak Detection
- Mold Connection Poka-yoke
- Interface with Injection Molding Machine for Alarms





# Molds Safety for insert molding and demanding applications



# Molds Clamping & SMED



Mechanic Quick Mold Clamping – 1 to 4  
Mold Changes per week.



Magnetic Mold Clamping – Advanced SMED  
(at least 1-2 mold changes / day / IMM)

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# Additive Manufacturing & CAD

# BENEFITS OF Additive Manufacturing

## PROTOTYPING

**Benefits:** Shorten TTM, reduce cost and increase innovation with agile prototyping and fast feedback cycles

- Compressed design cycles
- Reduce development time
- Reduce prototyping and R&D costs
- In-house, print designs overnight
- Reduce cost of errors
- Enable seamless iterative design process
- Eliminate design flaws

## PRODUCTION

**Benefits:** Produce better, lighter, cost-effective products, accelerating time-to-market, re-shoring supply chains, and enabling iterative design

- Flexible tool-less production
- Reduce number of components per part
- Reduce size and weight of products
- Improve product performance
- Faster production at scale
- Mass customization

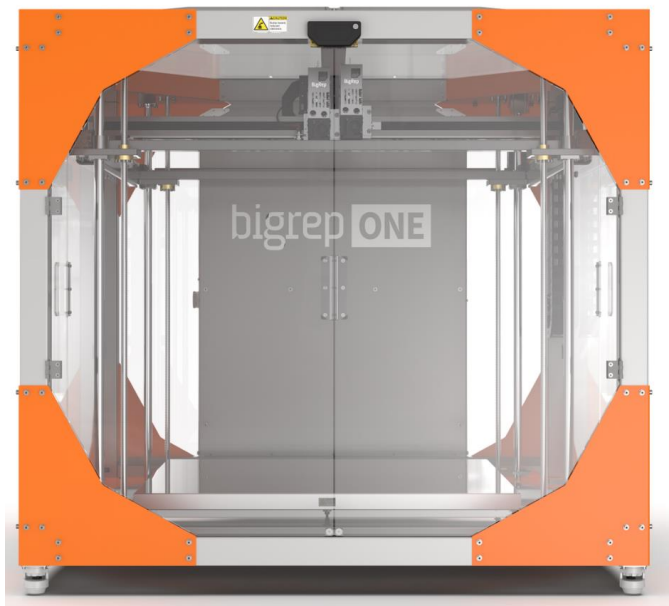
## DIGITAL INVENTORY

**Benefits:** Enables on-demand manufacturing and streamlined inventory, reducing working capital requirements and carbon footprints

- Reduce part complexity
- Uses software to optimize structural integrity
- On-site per demand production of spare parts
- Eliminate stock and free up working capital
- Reduce environmental waste



# bigrep ONE



- Build Volume: **x 1005 y 1005 z 1005 mm**
- Layer heights resolution: **0.3 mm, 0.6 mm, 1.0 mm**
- Print Bed Temperature: **Max. 176 °F (80 °C)**
- Nozzle Diameters: **0.6 mm, 1.0 mm, 2 mm**
- Power: **208 V – 240 V, 16 A, 50 / 60 Hz**

# bigrep STUDIO<sup>G2</sup>



- Build Volume: **x 1000 y 500 z 500 mm**
- Layer heights resolution: **0.1 – 0.4 mm**
- Print Bed Temperature: **Max. 100 °C (212 °F)**
- Nozzle Diameters: **0.6 mm**

# bigrep PRO



- Build Volume: **x 1005 y 1005 z 1005 mm**
- Layer heights resolution: **0.3 mm, 0.6 mm,**
- Print Bed Temperature: **Max. 212 °F (100 °C)**
- Nozzle Diameters: **0.6 mm, 1.0 mm**

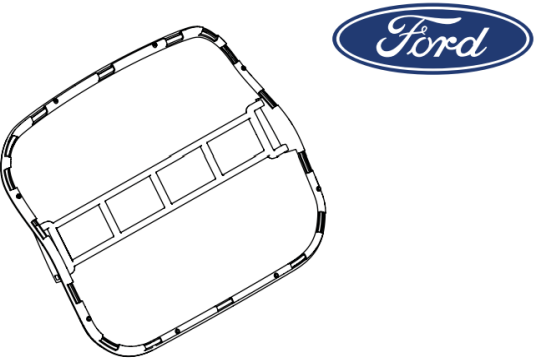


# Ford fabricates inhouse their tooling to optimize their production processes

Fabricating their own personalized tooling their ROI was in just 6 months.

## Sensor Fixture

Designed by: **Ford Motor Company**  
Dimensions: **890 x 1010 x 110 mm**  
Nozzle: **1 mm**  
Layer Height: **0.6 mm**  
Part Weight: **4.1 Kg**  
Filament: **Black ProHT**  
Printing time: **51 hours**



PLA

For mockups of original components

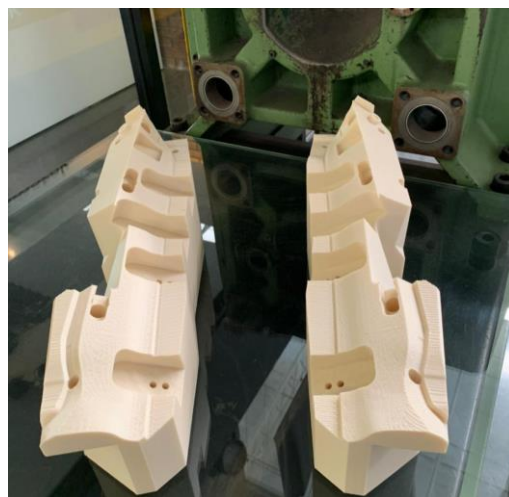
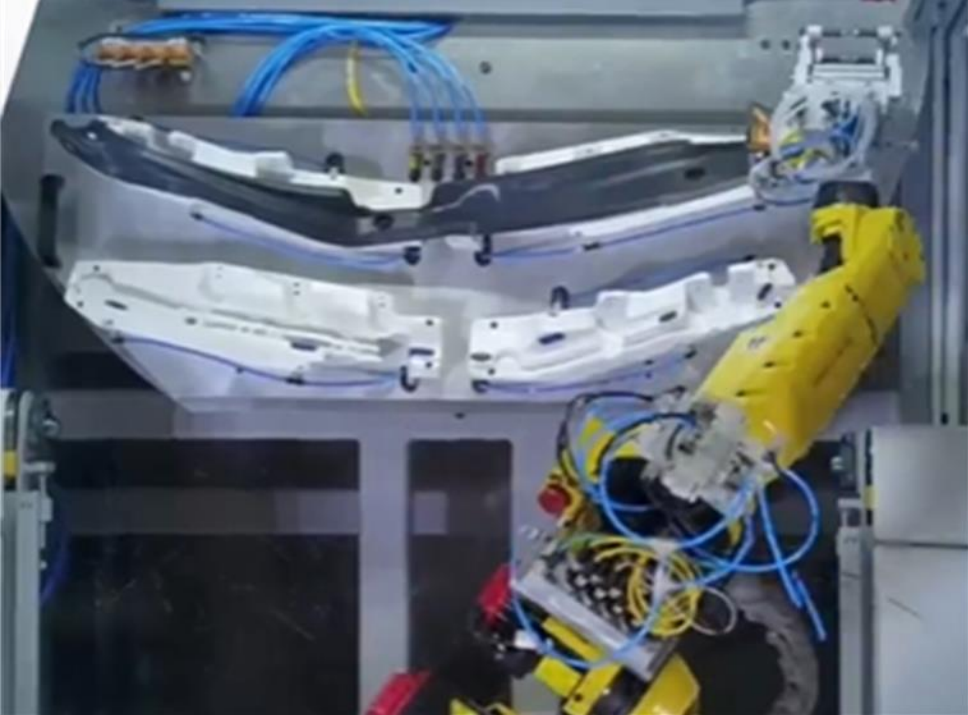
PA6/66

For strong jigs and fixtures

TPU

For protection parts







# NXE 400

Build Volume (xyz)	275 x 155 x 400mm (10.8 x 6.1 x 15.7 inch)
Pixel Pitch	76.5 µm (0.0030 in)
Build Materials	UV Curable Plastics: xGPP-Blue, xGPP-Transparent, xGPP-Grey, xABS-HT-Orange, 3843-ABS-Black, xCE-Black, xMED, xCAST
Max Resolution	4K (3840 x 2160)
Wavelength	405 nm
Material Packaging	5kg jerry can
<b>Dimensions (WxDxH)</b>	
3D Printer crated	990 x 990 x 1905mm (39 x 39 x 75 inch)
3D Printer uncrated	710 x 710 x 1675 mm (28 x 28 x 66 inch)
<b>Weight</b>	
3D Printer crated	250 kg (550lb)
3D Printer uncrated	160kg (350lb)



***“Nexa3D Breakthrough tech delivers up to 20X productivity gains and 85% lower TCO.”***

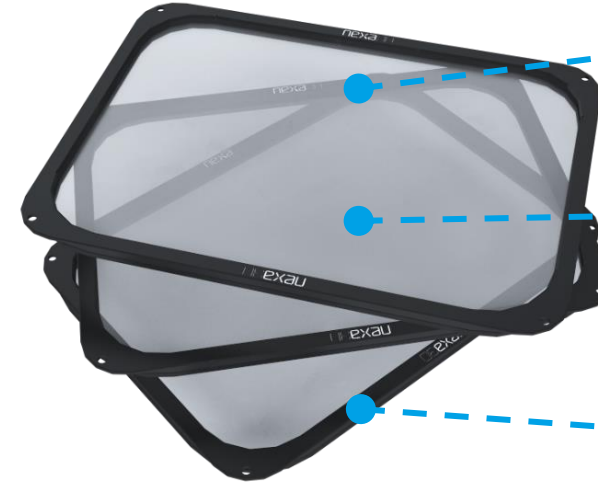
# EXTENSIBLE Patented Stack = 20X PRODUCTIVITY



Imaging  
Mask

Light  
Guide

Light  
Power  
Array



Inert

Durable

Flexible

- Disruptive, modular and scalable Light Engine technology
- Edge-to-edge uniformity and accuracy
- High power and light transmission-enhanced material properties
- Real time monitoring, optimizing and diagnostics

- Everlast membrane is a proprietary hybrid substrate that provides weeks of continued use at lightning speeds
- Tailored for easy automation integration and repeatable performance at scale and delivers imaging uniformity

# XiP Professional Printer

## Printer Specifications

Technology	<ul style="list-style-type: none"> <li>• Lubricant Sublayer Photo-curing (LSPc); Everlast-2 membrane</li> </ul>
Build Volume	<ul style="list-style-type: none"> <li>• X: 190 mm (7.5"), Y: 120 mm (4.7"), Z: 210 mm (8.6")</li> <li>• 4.8 liters print volume</li> </ul>
Light Engine	<ul style="list-style-type: none"> <li>• 405 nm LED array w/ collimating lens</li> <li>• Modular 9.3" Monochrome 4K LCD Mask</li> </ul>
Resolution	<ul style="list-style-type: none"> <li>• 0.050 mm (.002") / 0.100 mm (.004") / 0.200 mm (.008")</li> <li>• Pixel Size: 52µm</li> </ul>
Resin System	<ul style="list-style-type: none"> <li>• Automatic Gravity Feed Cartridge w/ Vat Level Sensing</li> <li>• Smart NFC bottle and resin vat/membrane</li> <li>• Auto electromagnet vat clamping; quick release build plate</li> <li>• Stackable vat storage</li> <li>• Built-in spill containment</li> </ul>
Hardware	<ul style="list-style-type: none"> <li>• Billet aluminum enclosure</li> <li>• 420mm (16.5") W x 350mm (14") D x 530mm (21") H</li> <li>• 5.5" Color HD OLED Touchscreen Display</li> <li>• Z-Stage               <ul style="list-style-type: none"> <li>• Rigid parallel linear rails</li> <li>• Recirculating ballscrew</li> </ul> </li> <li>• Ethernet / USB / Wi-Fi connectivity</li> </ul>
Software	<ul style="list-style-type: none"> <li>• NexaX 2.3 Basic or NexaX 2.3 Pro for XiP</li> <li>• <b>Supported File types:</b> .stl, .obj, .3mf</li> <li>• <b>Operating Systems:</b> Windows 10/11, MacOS (coming soon)</li> </ul>
Operating Environment	<ul style="list-style-type: none"> <li>• <b>Electrical Input:</b> 100-240VAC, 50/60Hz</li> <li>• <b>Ambient Temperature:</b> 20-25 degrees C</li> <li>• <b>Humidity:</b> Below 70%</li> </ul>

> Intelligent NexaX Software enables intuitive workflow and access to open materials platform

> With XiP, you really can have it all - speed, productivity, quality, ease-of-use, and affordability

> All-in-one automated post processing system for washing and curing parts





# CAD to Part in 48 Hours: Ultrafast 3D Printed Tooling Slashes Costs & Lead Times for Bottle Development at PepsiCo

**"Through the use of these capabilities, we expect our development cycle improve by 30 percent."**

- A complete mold set can be made in 12 hours.
- 8 hours of 3D printing time and 4 hours of curing.
- These hybrid made molds successfully be used for more than 10,000 bottles before failure.
- 96% reduction of cost compared to traditional metal tooling.
- Slash prototype tooling costs from \$10,000 to \$350 per mold set

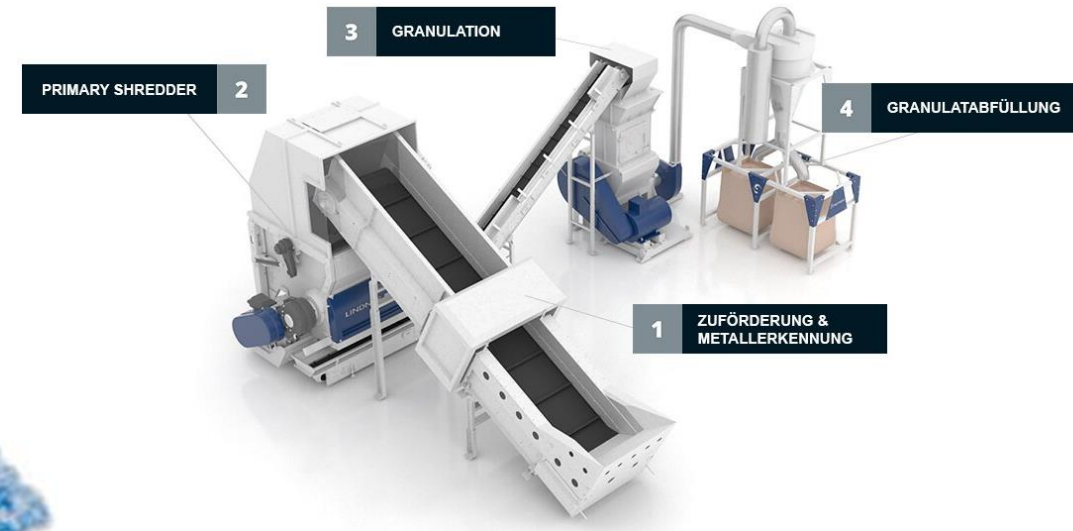


# Recycling

# Size Reduction and Recycling



Beside the press granulating  
(Closed Loop System)



Post-Industrial Recycling  
(Closed Loop Systems)

Post-Consumer Recycling  
(Closed Loop Systems)





# Offices & technical center location

- 3500 square meters of workstations, showroom and tech center space.
- Located in Monterrey, Nuevo Leon.
- Third largest city in Mexico, establishing it as the commercial, industrial, educational, and transportation hub of northern Mexico.
- 1 hour drive to the US/MEX border.
- 1 hour flight (10-hour drive) to Mexico City.



# Facilities

- Show room with all the demo units ready for open houses, virtual demonstrations, and fabrication of benchmarks.
- Power Requirements (460/240/137 V).
- Chilled water.
- Compressed air.
- Material handling equipment.
- Capability to run equipment tests.



# Training

- Our tech center is equipped with a large meeting room where beginner to advance level training sessions are taught.
- Once our costumers have the theoretical knowledge the practical sessions are taught at our demo units by our trained customer success team.

# Spare Parts Department

- More than 600,000 USD of critical spare parts in stock ready to send to our customers.



