

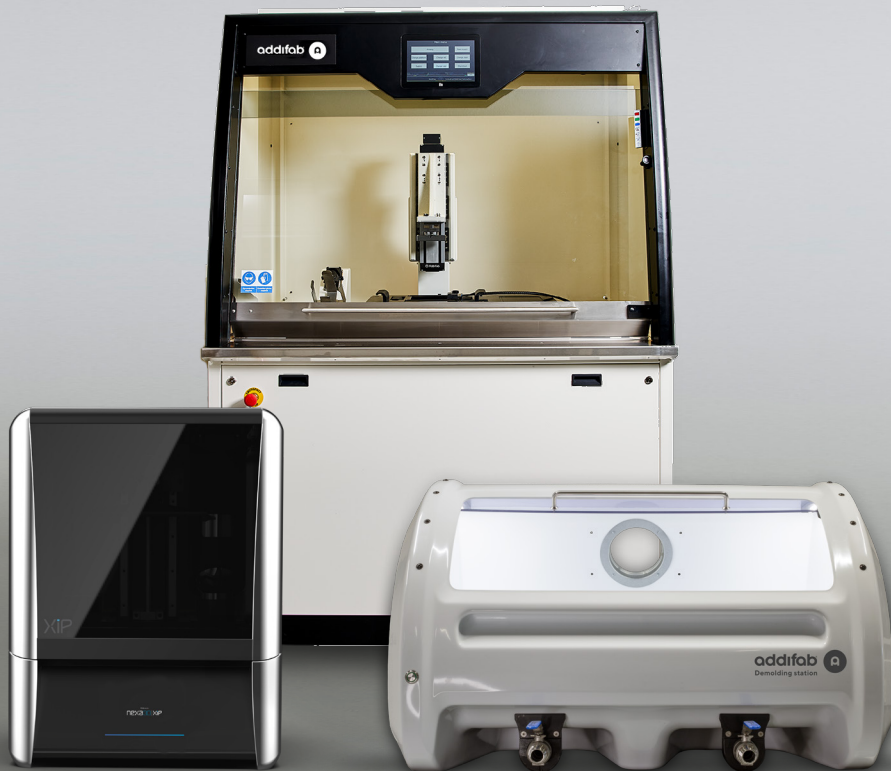


mold the unseen

# Introducing: The Freeform Injection Molding Micro Package

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# Our Micro Package

Unseen details  
with 3D printed molds



**Print.**



**Inject.**



Unseen freedom  
in material choices

Unseen products  
from the soluble mold



**Dissolve.**



## What is Freeform Injection Molding?

3D-printed injection mold tooling is transforming product development, and Addifab is transforming 3D-printed tooling with soluble molds.

Freeform Injection Molding starts with the 3D-printing of injection mold tooling inserts. These inserts serve the same function as the cores and cavities in conventional metal molds, only more sustainably. And you can fill them with your regular feedstocks using your standard injection molding machines; from the softest rubbers to the hardest metals, for unseen flexibility.

## The Micro Package:

The Micro package is Freeform Injection Molding for low-volume manufacturers who work with small to micro parts. It is a powerful tool chain that brings the entire range of injection moldable materials into the additive manufacturing domain. Are you looking for cheaper, faster, and more sustainable tooling? Are you required to use a specific set of materials? Are you ambitious about bringing new value to your customers? Is a low-cost desktop set-up what you need? Then the Micro Freeform Injection Molding package is the choice for you!

You get unseen design freedom with unseen material selection – all on the same platform. You get the XiP 3D Printer and accessories from renowned supplier Nexa3D. You get your high precision printer, mold design software, tooling resins, and desktop demolding station from Addifab. And you get to drive down your costs on low-volume injection molding.

With the Micro package you enable product development of 3D printed injection mold tooling at 85% of the cost, 88% of the time, and with 75% CO<sub>2</sub> emissions reductions, compared to a regular steel tool.

Stop prototyping, start producing – with the Micro package from Addifab.

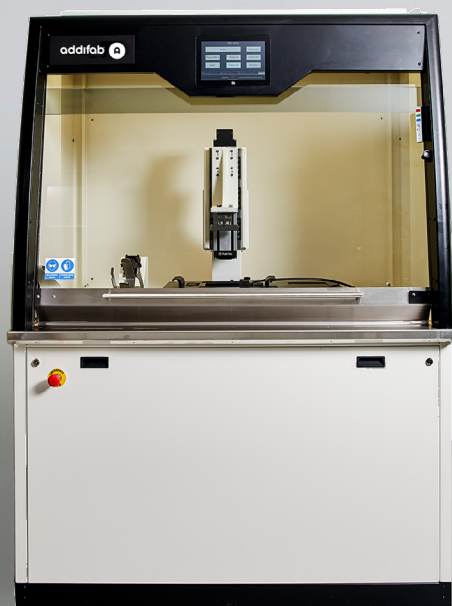


## Specs:

XiP is powered by Nexa3D's proprietary Lubricant Sublayer Photo-curing (LSPc) Technology, which allows users to print at speeds of up to 18cm per hour, breaking the speed barrier in the 3D printing industry today. A replaceable, modular 4K LCD screen and advanced UV Light Engine combine to provide equal and strong exposure ensuring your parts are uniform and consistent, and have the best possible surface finish every print.

<b>Build Volume</b>	190 x 120 x 210 mm (7.5 x 4.7 x 8.3 Inch)
<b>Max Resolution</b>	4K Monochrome 9.3" LCD
<b>Pixel Pitch</b>	52 $\mu$ m
<b>Layer Thickness</b>	50 $\mu$ m/100 $\mu$ m/200 $\mu$ m
<b>Material/Resin</b>	Addifab special 1

# The Toolmaker



## Specs:

The Addifab 3D-Printer performs the first step in the Freeform Injection Molding process. It is a high end Digital Light Processing (DLP) system that allows the printing of components, with a x/y resolution of 50µm (10µm optional) and 20-200µm z-layers (10µm optional). The machine is built for repetitive printing of injection mold inserts and can deliver objects with a precision of 50µm or better.

<b>Build Volume</b>	19.2 x 10.8 x 200 mm (0.75 x 0.42 x 7.8 Inches)
<b>Max Resolution</b>	4K (3840 x 2160 pixels)
<b>Pixel Pitch</b>	10µm or (50µm optional)
<b>Layer Thickness</b>	10µm/50µm/200µm
<b>Material/Resin</b>	Addifab special 1
<b>Dimensions</b>	0.9 x 1.5 x 2.4 Meters (35.4 x 59 x 94 Inches)

# Desktop Demolding Station



## Specs:

The Demolding station, is your last step before a final product. After injection molding, the printed cavities must be removed, either mechanically or by dissolving. Addifab provides a ventilated cabinet for the demolding procedure to ensure that operators can work in a safe and controlled environment. From concept to commercialization at the speed of 3D printing, and with the versatility and scalability of injection molding.

**Dimensions:** 35.4 x 23.6 x 20.8 In (0.9 x 0.6 x 0.5 m)

**Max Vats:** 2

**Vat Dimensions:** 8.7 x 6.4 x 3.8 In (221 x 163 x 97 mm)

# Auxiliary Equipment



## XiP Wash + Cure

The XiP Wash + Cure is suitable for washing and post-curing the printed objects of XiP 3D printers. The Wash + Cure is an all-in-one automated post processing system for washing and curing. Magnetic stirrers provide consistent cleans and a rotating base platform provides an evenly cured finish.

## The Complete Going Micro Package:

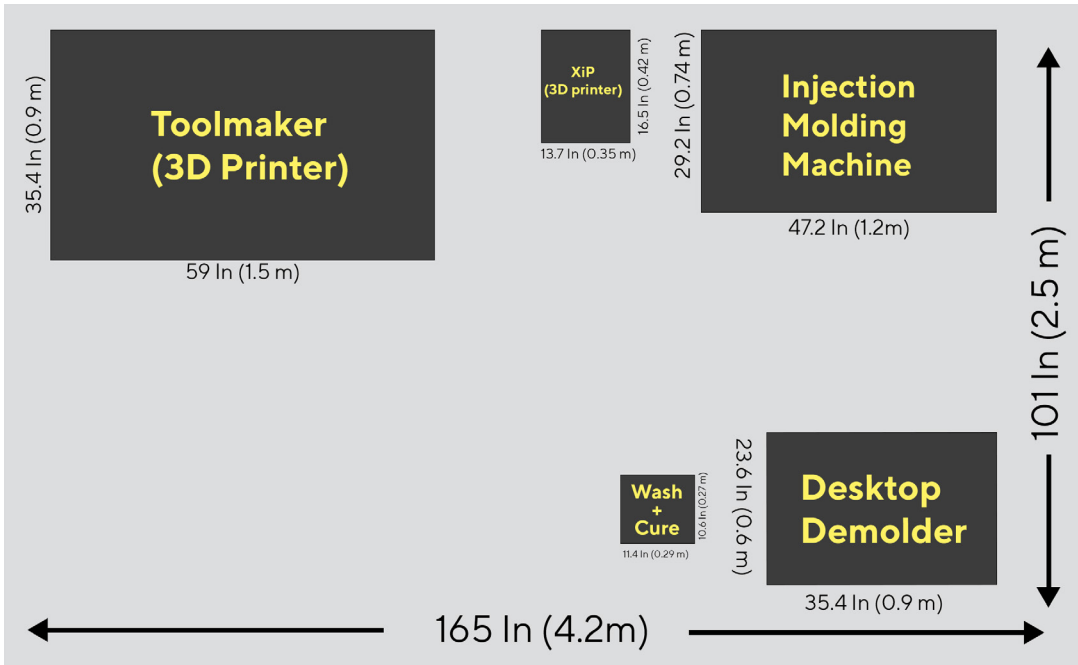
### Provided by Nexa3D:

XiP Printer  
 Resin Vat for XiP, x 2  
 Everlast 2 Membrane 3 pack  
 XiP Wash + Cure station  
 xClean parts washing solution, 5 L  
 XiP Evercare plan

### Provided by Addifab:

Addifab 10µm Printer  
 Addifab Dekstop Demolding Station  
 Addifab solvent package  
 Addifab GP Resin 1 kg, x 5  
 Addifab mold generator, 1-year license

# Micro package floor plan (Example)







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# Get in touch:

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