

Precision plastic fabrication on your desktop.

Explore our machines, firmware, accessories, and extensive selection of materials that collectively unlock a world of applications.



The Mayku Multiplier System

The Multiplier system consists of three parts:



1. The Multiplier

A high-performance desktop machine, powered by heat and pressure.



2. Custom mode

Firmware that enables the Multiplier to learn, save, and edit profiles for any thermoformable sheet material.



3. Reducing plate

An accessory that enables easy access to hundreds of different material suppliers.

1. The Multiplier

The Multiplier is a desktop pressure former that can achieve sub-one-micron resolution in sheet thicknesses of up to 5mm. Combined with high-resolution 3D printing, it can achieve injection mold-like quality parts right from the desktop in a matter of minutes.

Benefits:

- Combine the Multiplier with high-resolution 3D printing to create injection mold quality parts.
- Achieve sub-one micron replication of 3D prints.
- Work with a wide range of factory-grade materials.
- Use materials between 0.5mm and 5mm thick.
- Replicate parts in a matter of minutes.
- Super simple to set up and operate.



Key specifications:

60 psi

Pressure

225°C

Heating power

<1µm

Resolution

380mm

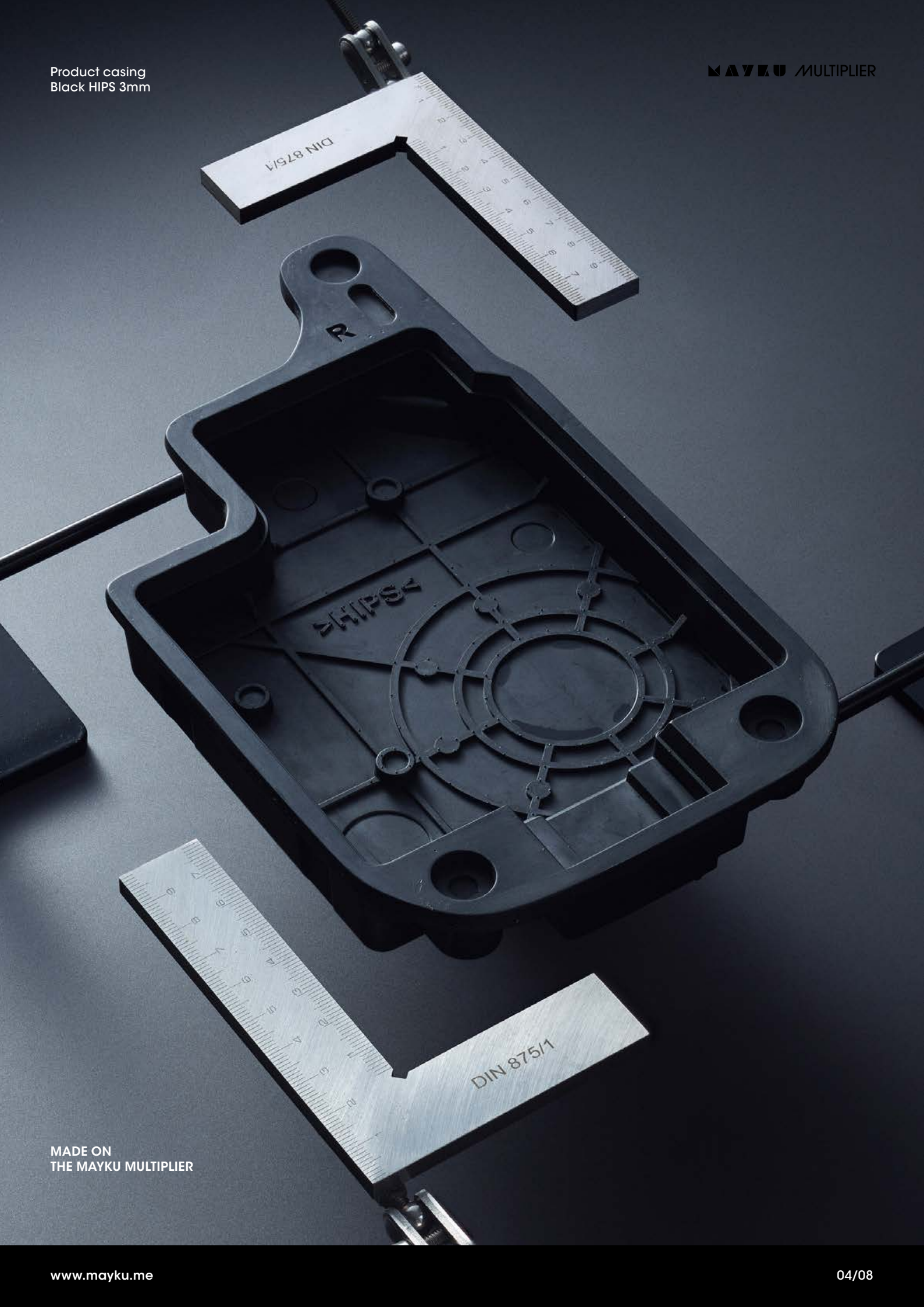
Safe forming area

160mm

Draw height

Product casing
Black HIPS 3mm

MAYKU MULTIPLIER



MADE ON
THE MAYKU MULTIPLIER



Prototyping and small batch microfluidics

Accelerate microfluidics prototyping and batch production without tooling, using mass production materials like PP.



Industry-grade food molds

Rapidly create food-safe, industrial-grade molds using production materials, significantly reducing costs and lead times.



Product casings and protective covers

Efficiently produce protective casings in factory-grade materials, slashing costs and lead times usually found with injection molding.

REAL WORLD EXAMPLES:



Prototyping consumer product casings with ABS

Benefit: Mitigate production delays by prototyping using final production materials and final production process.



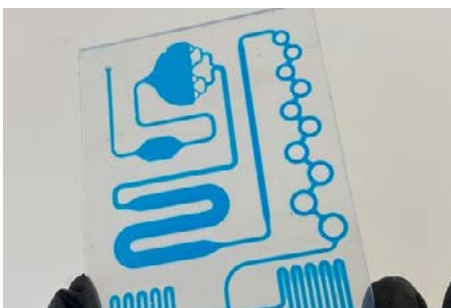
Transparent light lens with PMMA

Benefit: Small batch of Transparent, UV resistant with high impact strength with no tooling investment.



Industrial food molds with food-safe PETG

Benefit: Rapid production of food-safe molds with reduced lead times and costs.



Small batch microfluidics chips with EVA

Benefit: Reduce tooling investment risk, validate final production materials.



Prototyping of consumer goods packaging with PETG

Benefit: Rapid iteration and tolerance checking of prototypes in final materials, decreasing time to market.



Protective coverings for production line machine with ABS 4mm

Benefit: Rapid production of food-safe molds with reduced lead times and costs.

2.

Custom mode NEW

Learn any new material in minutes

The Multipliers' new Custom Mode enables the machine to learn, save, and edit any new material profile in a matter of minutes. Simply place any new material in the machine and run the custom mode. The machine will learn and remember the exact profile for that material and save it for future use.

The result? Consistent, reliable forms in any thermoformable sheet material of your choice.



Key benefits:

- Teach the machine a new sheet profile in a matter of minutes
- Create, save, and edit hundreds of material profiles, all on the machine
- Choose any thermoformable sheet material from any supplier

Choose from a wide range of industrial-grade thermoformable sheet materials from Mayku or from your own suppliers, cut into 428mm circles up to 5mm thick.



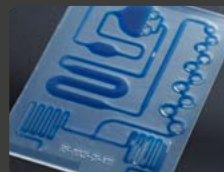
ABS 4mm



PMMA 3mm



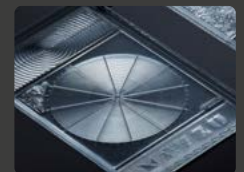
PP 3mm



EVA 1.5mm



HIPS 3mm



PETG 1.5mm

3.

Reducing plate **NEW****Reduce waste, open up a world of new materials**

Seamlessly integrating with the Mayku Multiplier, the new Reducing Plate condenses the forming area of the Multiplier down to A4 or US letter format, opening up access to hundreds of global sheet suppliers that provide straight-cut sheets.

The Reducing Plate also reduces waste when forming smaller parts, ensuring that you use just the right amount of material for your application.

**Thick, thin, and everything in between**

The Multiplier, as standard, can form materials up to 5mm thick. With the reducing plate installed, the Multiplier can go beyond 5mm to create rock-solid, highly detailed parts in a vast array of different materials.

On the opposite end of the scale, the reducing plate enables the use of incredibly thin materials down to 100 microns for super-fine film application.

The combination of the reducing plate and custom mode turns the Multiplier into a desktop production powerhouse, opening up a wide range of applications.



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