

# CNC PART CATCHER

**PRECISION MACHINES** — Hugard Inc. uses a fleet of CNC lathes to make micro precision turned parts.

**PROCESS AUTOMATION** — They use a custom gripping fixture to catch and remove parts as they finish.

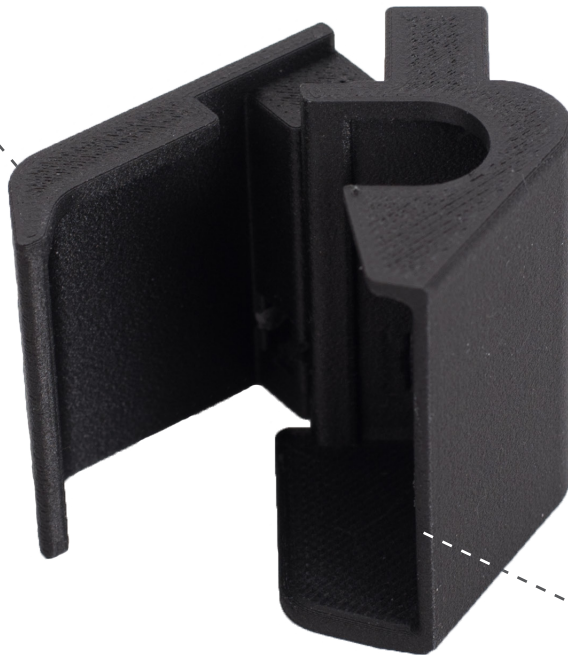
**ROBUST PART** — Onyx and Carbon Fiber provide the strength and cutting fluid resistance to survive.

**MASSIVE SAVINGS** — Hugard Inc. prints grippers **16x cheaper** and **25x faster** with Markforged technology.

## The 3D Printed Part

### HIGH STRENGTH GRIP

Continuous Carbon Fiber reinforcement material allows the catchment system to securely hold the part as it's being parted off.



### BUILT FOR ADDITIVE

The thin walls and intricate features of these parts make it nearly impossible to machine. High strength 3D printing is the best fabrication option.

## Ease in Automation

Hugard Inc. uses a custom claw as a parts collector to catch precision turned parts as they're parted off by a CNC lathe. Because the parts are both extremely complex and subject to a constant stream of corrosive cutting fluid, they're unsuitable for CNC milling and conventional ABS 3D printing. Markforged's ability to create uniquely robust, geometrically complex parts allowed Hugard to achieve massive savings.

	CNC MACHINED	MARKFORGED	SAVINGS
Fabrication Time	144 hrs	6 hrs	96%
Fabrication Cost	\$400	\$25.06	94%

