



stratospar

INDUSTRIAL 3D PRINTING

Engineering plastics, printed to production spec.

FIXTURES

EOAT

STRUCTURAL PARTS

INSPECTION TOOLING

SHORT RUNS

PRODUCT CATALOGUE

2026

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[WHY PRINTED PLASTIC]

Lighter, faster, and no tooling to pay for.

For jigs, fixtures, tooling and low-volume parts, a printed engineering plastic often does exactly the job a machined aluminium part was doing — at a fraction of the weight, the lead time and the cost.

01

Lighter

Engineering plastics sit around 1.0–1.3 g/cm³ against 2.7 for aluminium and 7.9 for steel — roughly 60% lighter than aluminium and 85% lighter than steel. On a robot arm or any moving tooling, that is less inertia, faster cycles and smaller actuators.

02

Faster to iterate

Rev A to Rev D inside a week. No CAM programming, no workholding to figure out, no queue behind somebody else's job. Print overnight, try it on the line in the morning, change what didn't work.

03

No tooling cost

No moulds, no dies, no soft jaws, no fixture needed to make the fixture. Internal channels, organic ribs and topology-optimised geometry cost the same as a plain block — so one part costs what one part should.

WHERE METAL STILL WINS Sustained high loads, temperatures past the material limit, sliding wear faces, and volumes large enough for moulding or machining to amortise. We'll tell you when that's the case.

WHERE IT GETS USED

01	Prototypes	Proof of fit, form and function before you commit to tooling or metal.	p. 08
02	Structural	Load-bearing brackets, mounts and ducting, sized against the actual load case.	p. 05
03	Inspection	Go/no-go gauges, CMM fixtures and checking aids built around one specific part.	p. 06
04	Automation & EOAT	Grippers, jaws and end effectors — light enough to run fast, cheap enough to revise.	p. 04
05	Small production runs	Tens to hundreds of finished parts, with no mould to pay for first.	p. 08

[MATERIALS]

Specified for the environment, not for the price.

Every part in this catalogue is printed in one of these. The choice is driven by where the part has to live — heat, load, sunlight, humidity, chemicals — and we'll walk through it with you before anything goes on the machine.

	MATERIAL	WHY YOU'D CHOOSE IT	TYPICAL PARTS
TOUGH	ABS	Tough and impact-resistant. Easy to machine and bond after printing.	General fixtures, housings, prototypes that get handled hard.
	ABS-CF	Carbon fibre filled — stiffer, with far less warp on large flat geometry.	Large jigs, checking fixtures, flat plates that have to stay flat.
OUTDOOR	ASA	UV and weather stable. Won't yellow or go brittle outdoors.	Outdoor enclosures, exposed mounts, anything sitting in sunlight.
	ASA-CF	Weather resistance plus carbon stiffness and dimensional stability.	Outdoor brackets and structural parts with a long service life.
STRUCTURAL	PA6-CF	High strength and heat resistance. The structural workhorse.	EOAT arms, load-bearing brackets, parts near heat sources.
	PA12-CF	Lower moisture uptake than PA6 — holds dimensions in humid conditions.	Inspection fixtures, gauges, precision-critical tooling.
FLEXIBLE	TPU	Flexible and abrasion resistant. Grips without marking the part.	Gripper pads, gaskets, dampers, protective sleeving.
CONCEPT	PLA	Cheap, fast and sharp on fine detail. No real heat or load resistance — use it to prove fit and form before committing.	Prototypes, everyday shop aids, architectural models.

NOT SURE WHICH? Send us the part and its working conditions — temperature, load, chemical contact, indoors or out — and we'll spec the material with you before quoting.

01

Automation & Robot EOAT



BA-R033 / REV A

Robot EOAT: 2-Jaw Gripper

MATERIAL	Carbon Fibre Reinforced ABS
WEIGHT	75 g
DIMENSIONS	140 × 70 × 30 mm
FUNCTION	Robot end of arm tooling
LOAD	Repetitive load
ENVIRONMENT	Indoor
TEMPERATURE	≤ 50 °C
CHEMICAL EXPOSURE	None specified

BA-R037 / REV A

Robot EOAT: 3-Jaw Centric Gripper

MATERIAL	Carbon Fibre Reinforced ABS
WEIGHT	67 g
DIMENSIONS	70 × 240 × 70 mm
FUNCTION	Robot end of arm tooling
LOAD	Repetitive load
ENVIRONMENT	Indoor
TEMPERATURE	≤ 50 °C
CHEMICAL EXPOSURE	None specified





BA-PT-A013 / REV A

Y-Junction Air Duct Reducer

MATERIAL	ABS
WEIGHT	188 g
DIMENSIONS	149.8 × 75.4 × 166 mm
FUNCTION	Airflow merging & reduction
LOAD	Load-bearing
ENVIRONMENT	Indoor
TEMPERATURE	≤ 70 °C
CHEMICAL EXPOSURE	Diluted acids and bases

BA-S021 / REV B

Outdoor Bracket, Topology Optimised

MATERIAL	ASA
WEIGHT	140 g
DIMENSIONS	156.22 × 156.22 × 100 mm
FUNCTION	Bracket for electronic component
LOAD	100 N in -Z (FOS 9.2)
ENVIRONMENT	Outdoor
TEMPERATURE	≤ 55 °C
CHEMICAL EXPOSURE	Atmospheric salinity





BA-PT-A006 / REV D

Custom Assembly Part

MATERIAL	ABS
WEIGHT	192 g
DIMENSIONS	200 × 175 × 50 mm
FUNCTION	Custom part in assembly
LOAD	Compressive load in -Z
ENVIRONMENT	Indoor
TEMPERATURE	≤ 40 °C
CHEMICAL EXPOSURE	None specified

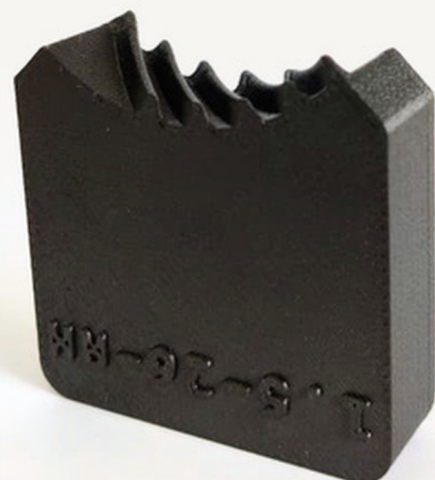
03

Fixtures & Inspection Tools

BA-I009 / REV B

Quick Gear Inspection Tool

MATERIAL	Carbon Fibre Reinforced ABS
WEIGHT	15 g
DIMENSIONS	52 × 52 × 15 mm
FUNCTION	Helical gear inspection, 1.5 module, 26 teeth RH
LOAD	None
ENVIRONMENT	Indoor
TEMPERATURE	≤ 40 °C
CHEMICAL EXPOSURE	None specified





BA-PT-F003 / REV B

Laser Marking Fixture

MATERIAL	ABS
WEIGHT	60 g
DIMENSIONS	189.5 × 65 × 52 mm
FUNCTION	Custom fixture for laser marking
LOAD	None
ENVIRONMENT	Indoor
TEMPERATURE	≤ 80 °C
CHEMICAL EXPOSURE	None specified

BA-F029 / REV A

CMM Fixture for KF-C042-2

MATERIAL	Carbon Fibre Reinforced ABS
WEIGHT	42 g
DIMENSIONS	190 × 77.32 × 18 mm
FUNCTION	Custom CMM fixture
LOAD	Part load
ENVIRONMENT	Indoor
TEMPERATURE	≤ 30 °C
CHEMICAL EXPOSURE	None specified



Prototype & Batch Production



BA-P02 / REV A

2-Part Container

MATERIAL	PLA
WEIGHT	30 g
DIMENSIONS	50 × 50 × 42 mm
QUANTITY	80 off
LOAD	No load
ENVIRONMENT	Indoor
TEMPERATURE	≤ 50 °C
CHEMICAL EXPOSURE	Not specified

BA-A02 / REV A

Utility Bracket

MATERIAL	ASA
WEIGHT	5 g
DIMENSIONS	90 × 20 × 18 mm
QUANTITY	500 off
FUNCTION	Assembly part
LOAD	20 N
ENVIRONMENT	Outdoor
EXPOSURE	UV and sun





Send us a STEP file.

Tell us the quantity and where the part has to work — temperature, load, indoors or out, anything it touches. We'll come back with a material, a lead time and a price.

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WEB

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WORKS

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