BUILD BEYOND POSSIBLE

Company Overview

2025

WHAT WE DO

Additive manufacturing with no limits in scale for advanced industrial parts

HOW WE DO IT

3 International Offices
Europe, North America, and Middle East

100+ Employees

Present in over
55 Countries

+300 Clients
with several major accounts

12 Patents

AS/EN 9100 – ISO 9001 – ISO 14001
Aerospace Quality certified - Quality Management System - Environmental Management System

WHO WE DO IT WITH

We want to lead the future of manufacturing toward a new paradigm of flexibility, efficiency, and sustainability.

TURNKEY TECHNOLOGICAL ECOSYSTEM

Full integration between hardware, software, automation, and **process** thanks to proprietary development ensures clients can refer to a single provider for all needs. From tech to engineering, from training and services to ramping up production, Caracol is the one-stop-shop for all your LFAM needs.

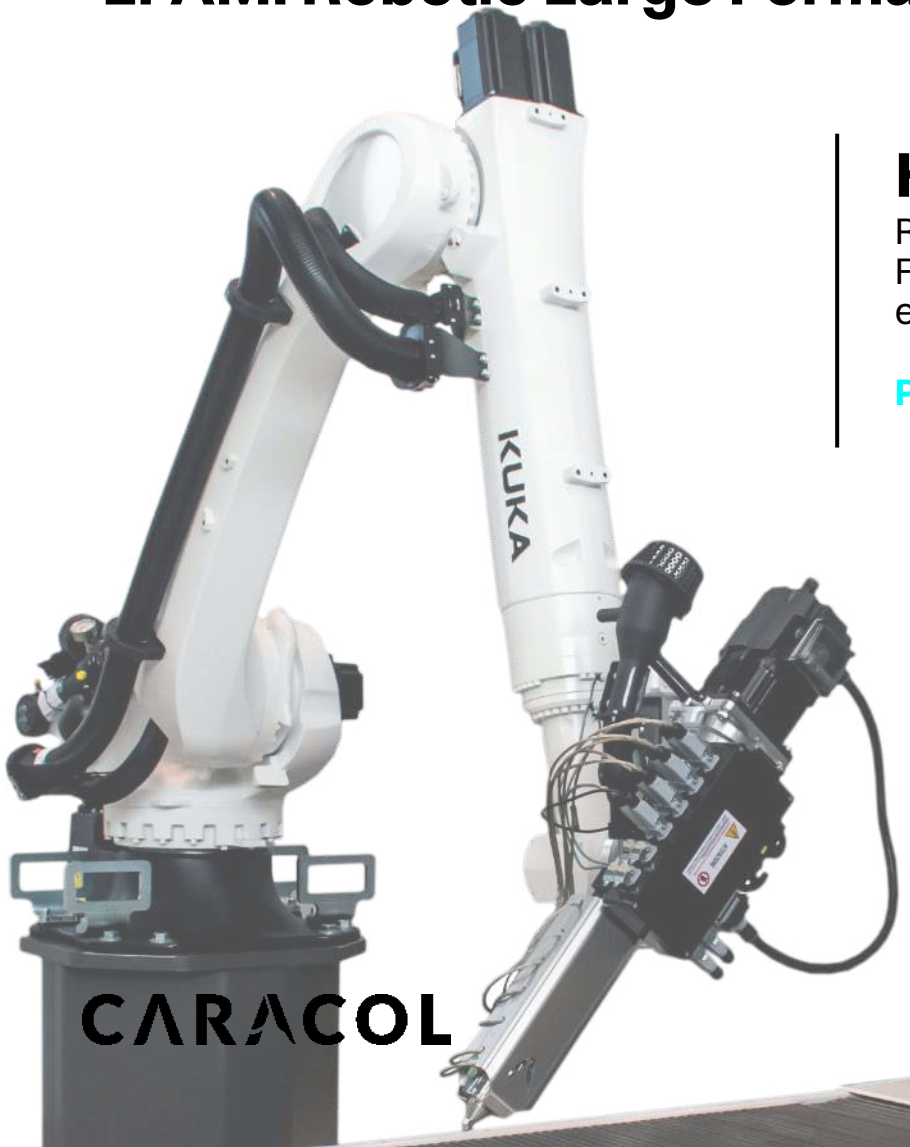
APPLICATION-FIRST

Over 40,000 hours of production with our LFAM platforms, over **500+ unique applications** across sectors allowed our team to perfect our platform. We understand the needs faced by our clients and build solutions to fit their demanding manufacturing requirements.

MADE FOR PRODUCTION

Industrial systems perfected with users in mind, our systems were developed to enable access to LFAM benefits and guarantee clients' **production quality**, **reliability**, **continuity**, and **repeatability** on advanced parts.

LFAM: Robotic Large Format AM, from polymers to metals



HERON AM ™

Robotic Fused Granulate Fabrication (rFGF) – pellet extrusion based 3D printing

POLYMERS/COMPOSITES

VIPRA AM ™

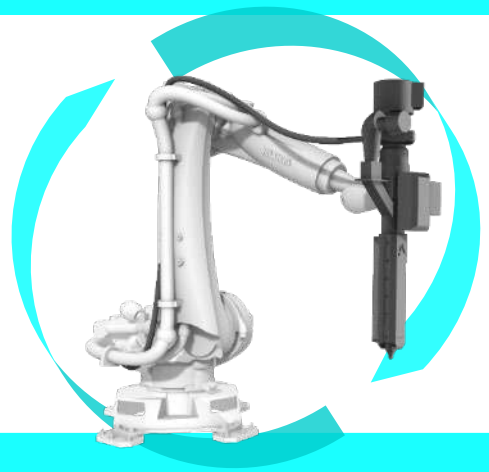
Wire Arc Additive Manufacturing (WAAM) - arc welding based 3D printing

METALS

CARACOL

A solution that integrates and controls the full process

HARDWARE
(Heron AM / Vipra AM)



EIDOS SOFTWARE SUITE

SOFTWARE PLATFORM FOR INTEGRATED SERVICES

Builder
Slicer / Parameters & Path Planning

IoT
monitoring & control

MATERIALS

CO-DEVELOPED QUALIFIED MATERIALS TO NON-QUALIFIED

Range of Qualified Materials unlocked

Joined R&D on new materials

SERVICE & APPLICATIONS

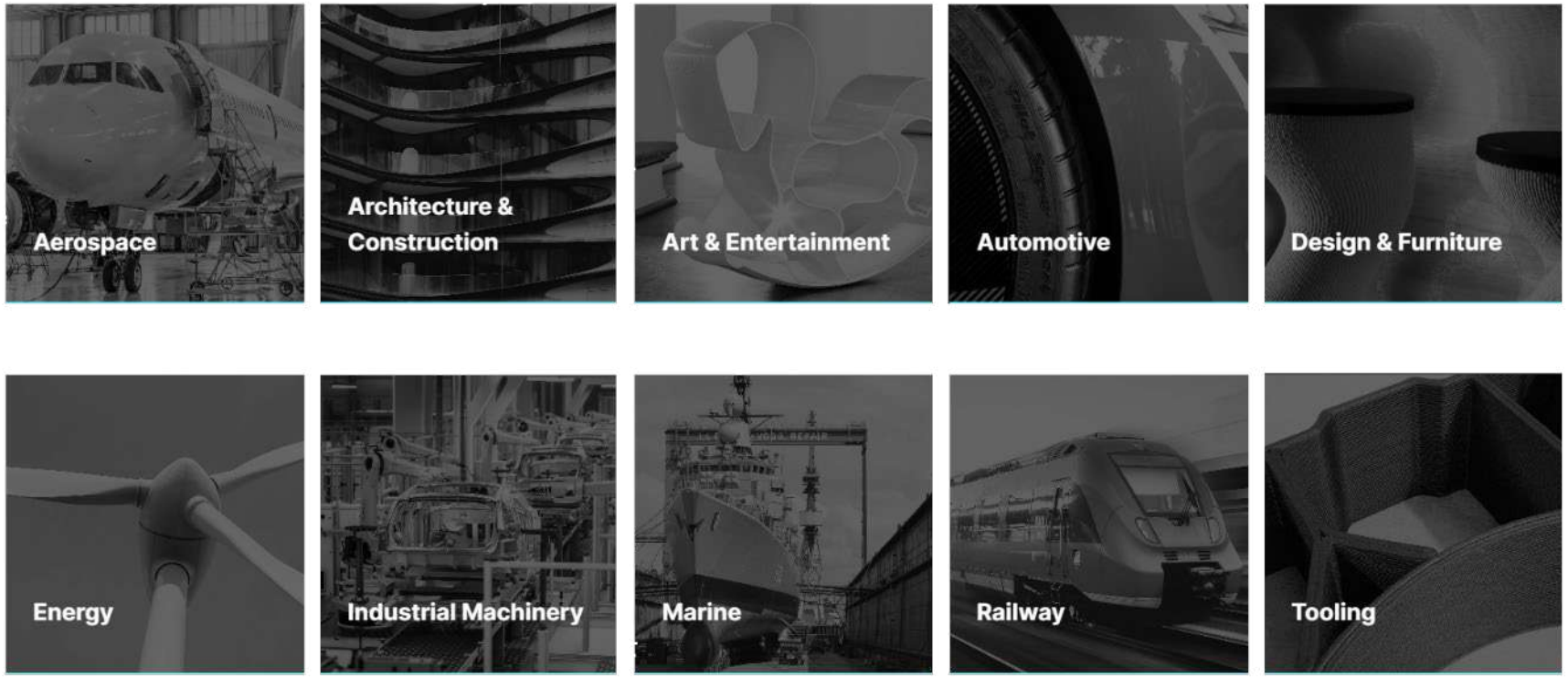
GUARANTEEING PRODUCTIVITY & CONTINUITY

Hardware & Software

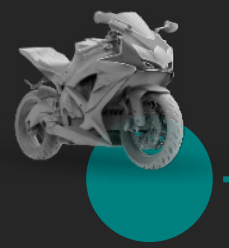
Application Engineering

CARACOL

Working across sectors on applications to develop the best qualified technological solution to respond to their manufacturing need

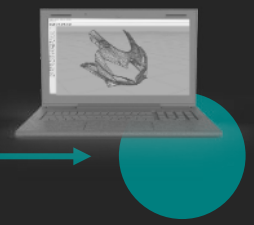


Accompanying clients through the production process



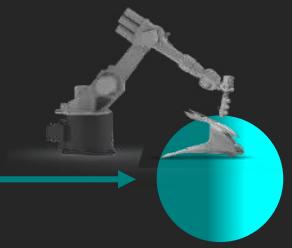
PRELIMINARY STUDY

customized study to assess client's needs



ENGINEERING

optimize design, material and technology



PROTOTYPING & PRE-SERIES

first units for necessary testing

CARACOL & PARTNER SITES

ON-DEMAND MANUFACTURING

PRODUCTION AT CLIENT SITE

HERON AM™ & VIPRA AM™

manufacture locally, supported by Caracol's tech expertise and services

PROOF OF CONCEPT

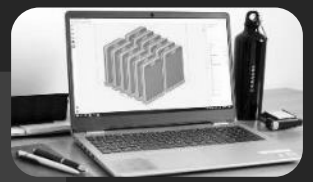
INDUSTRIALIZATION

CARACOL

A full set of design-to-production services to cover all needs offered by Caracol and the Manufacturing Partners Network

DESIGN & CONCEPT DEVELOPMENT

advanced software and sector expert engineers to support development of parts & products from scratch



ENGINEERING FOR LFAM

developing and optimizing parts design for LFAM printing, analyzing parts performance before production

PROTOTYPING & PRE-SERIES

manufacture

TOOL PRODUCTION

customized study to assess client's needs

FINISHED PARTS PRODUCTION

customized study to assess client's needs

TRAINING & WORKSHOPS

customized study to assess client's needs

Working according to the highest standards – our certified process guarantees quality and repeatability

Certified System
Aerospace
EN 9100
SAI GLOBAL

Certified System
SAI GLOBAL
ISO 9001
Quality

RAW MATERIALS
Verify the technical specifications required

HARDWARE & SOFTWARE
Identify and characterize the most suitable HW and SW

PROCESS PARAMETERS
Investigate ideal parameters and lock optimized selection

IQ
Installation Qualification

PRODUCTION
Manufacture test specimens for required certifications

OQ
Operation Qualification

QUALITY INSPECTION
Perform all needed tests to verify conformity

PQ
Production Qualification

REPEATABILITY
Repeat engineered process to check performance

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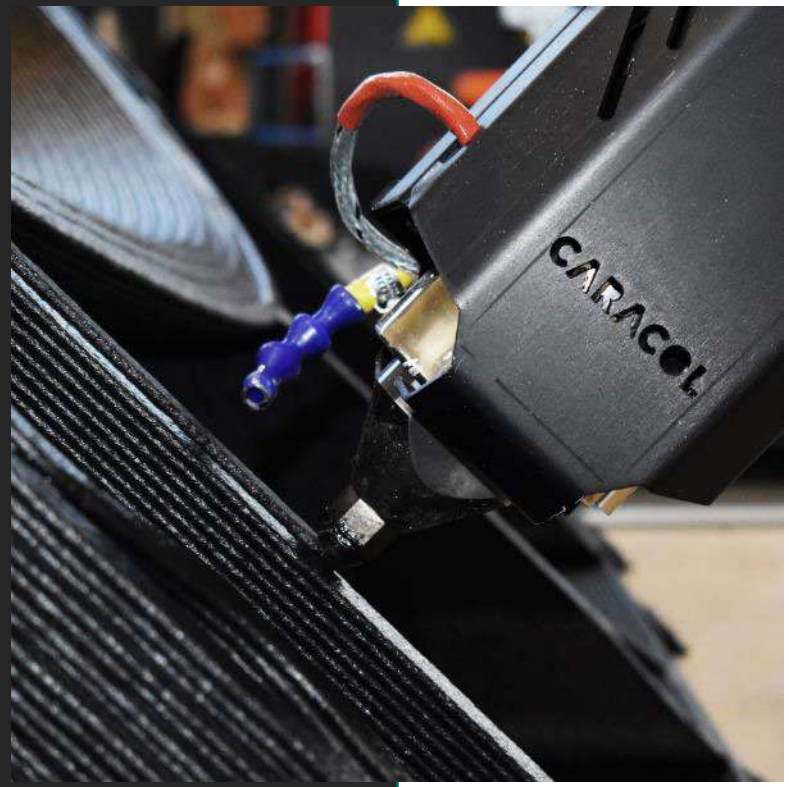
POLYMERS & COMPOSITES

Solutions we've developed to manufacture
large scale parts with polymeric and composite pellets



CARACOL

POLYMERS & COMPOSITES

Heron AM

> **LFAM integrated hardware & software modular platform developed to industrially produce 3D printed large scale parts with composite materials**

No Scale Limits	Low Raw material costs	Maximize Efficiency & Sustainability
Low Operating Costs	Extreme Flexibility	Complex Geometries with 6+ axes
Drastically Cut Waste	Cut Lead Time	

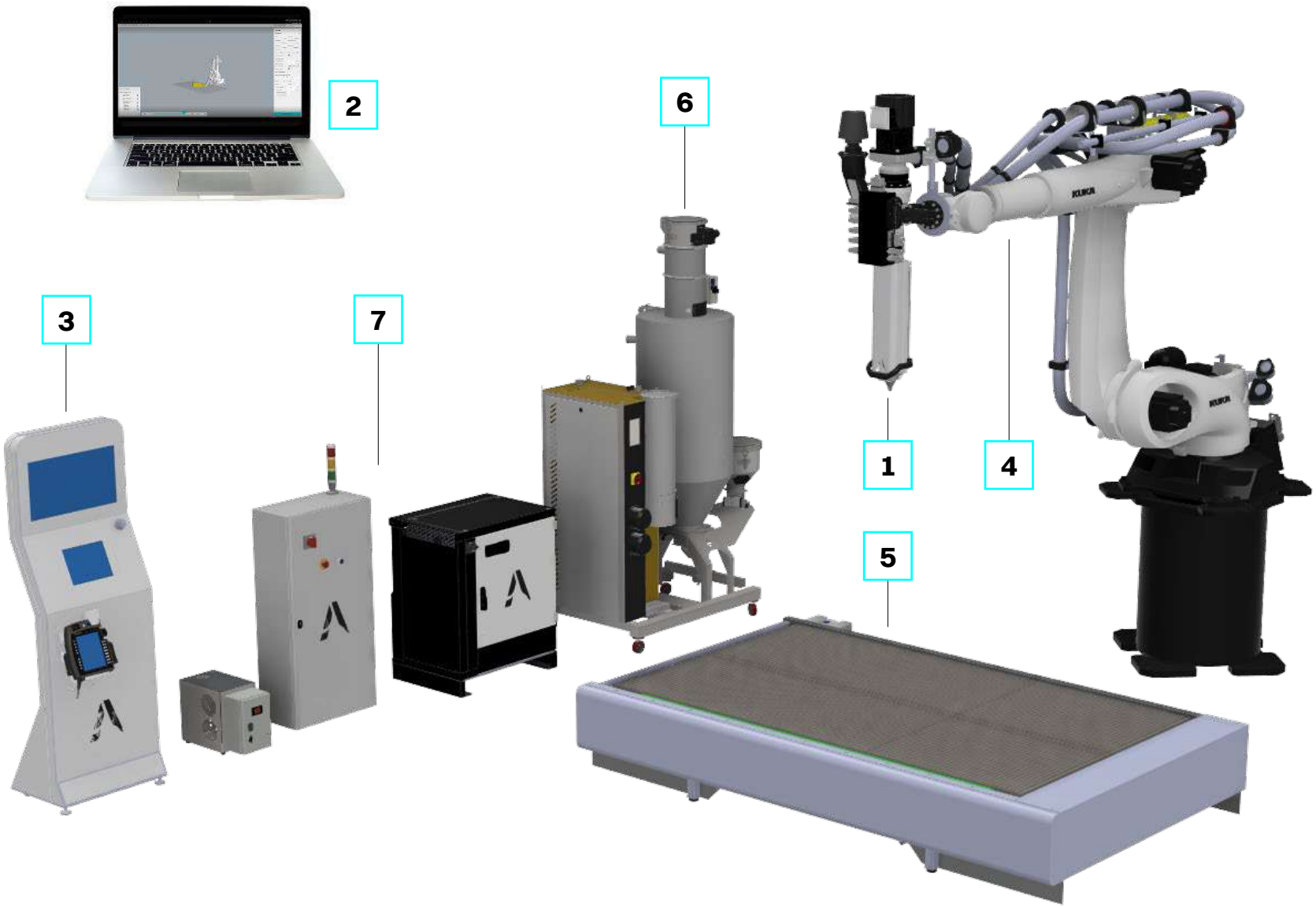
CARACOL

TECHNOLOGY

Heron AM is a turnkey solution with a set of core elements...

Key elements

1. Extruder
2. Eidos manufacturing software suite
3. Control system
4. Robotic arm
5. Printing bed
6. Drying & feeding system
7. Control Cabinets



CARACOL

... that can be modularly configured to fit to your needs

BASE CONFIGURATION			
SOFTWARE	Eidos manufacturing software suite		
EXTRUDER	HA	HV	HF
ROBOT REACH	Max 3.1 m (10.6 ft)	Max for smallest unit 3.1 to largest 4m (10.6 to 13.1 ft), extendable with rail Max 3.1 m (10.6 ft)	
PRINTING BED	ALU	STEEL | AUTOMATIC	STEEL | AUTOMATIC
DRYING & FEEDING	5 kg/h	12 kg/h	30 kg/h – extendable
ANCILLARY FEATURES			
AXES EXTENSION (7th-axis rail or booster frame)	N/A	On-demand	On-demand
CNC INTEGRATION	N/A	On-demand	On-demand

High Accuracy - HA

Small-sized, lightweight, and compact – developed to provide agility: quality finishing, detailing, and precision. Ideal for finished parts, such as for design, furniture, and creative industries.

DIMENSIONS (mm)	650x300x150
WEIGHT (kg – lbs)	16 – 35.3
NOZZLE (min-max, mm)	1 – 5
TEMPERATURE (°C - °F)	350 – 662

High Versatility - HV

Flexibly adapts to diverse industrial needs – it was developed to cover a broad range of applications: from finished parts, such as boat super structures, small to mid-sized tools, jigs, and fixtures, to design and architectural structures.

DIMENSIONS (mm)	1150x550x300
WEIGHT (kg – lbs)	45 – 99
NOZZLE (min-max, mm)	2 – 8
TEMPERATURE (°C - °F)	450 – 842

High Flow - HF

Robust, high throughput extruder – developed for fast material processing, an extensive range of materials, print quality, and efficiency. Ideal for large tools and molds, boat hulls, and applications in architecture and construction.

DIMENSIONS (mm)	1500x550x350
WEIGHT (kg – lbs)	75 – 165
NOZZLE (min-max, mm)	5 – 18
TEMPERATURE (°C - °F)	450 – 842

CARACOL

MATERIALS

... and process a wide range of polymers and composites

PETG

Recycled
30% GF

Excellent chemical resistance, fire retardant, UV resistant on some grades. Goes up to 70°C (158°F). Ideal for PVC-like, outdoor and indoor parts, design and furniture, good for architecture and railways when fiber-reinforced.

ABS

20% GF
20% CF
20% rCF

Cost-effective resin for industrial parts. Good chemical compatibility with glues, coating and paints. Good mechanical and thermal properties to 80° (176°F). Great for proto, low temp tools, functional parts with low mechanical pressure.

PP

Recycled 30% GF

Resistant to solvents and chemicals, lightweight, good mechanical and impact resistance. Up to 80° C (176°F). Qualified for functional parts. A good cost-effective solution, thanks to its chemical inertia and large availability in recycled form.

ASA

20% GF

Versatile, good mechanical and thermal properties, UV resistant. Suitable for engineering and for outdoors design parts. Smooth finish in its natural version, best properties with glass fiber - make it ideal for finished parts e.g., marine.

PC

20% CF

Great chemical, mechanical and thermal properties. Can withstand mid-temp autoclave processes, to 120°C (266°F) and 3-6 bars pressure. Ideal for functional and engineering parts, such as autoclave, cure and lamination tools.

PEI

20% CF

Outstanding heat-resistance, stable physical and mechanical properties, high strength, flame retardant, stiffness up to 200°C (392°F), and great chemical resistance to fluids such as hydrocarbons and alcohols.

PLA

Recycled
% Natural Fibers

A bio-based material, easy to process, and can be easily customized in color. It is used for indoor furniture, art and design-related elements and can be easily grinded down and recycled for a second use.

TPE

Natural

High-strength and flexibility elastomer is ideal for optimized pliable structures. Up to 70 Shore A and 80°C (176°F), and it is used to print large-scale rubber-like parts for furniture, seating, and design-related components.

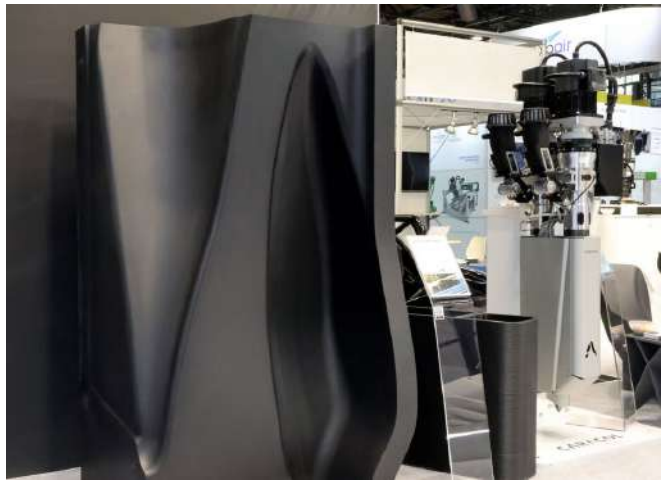
CARACOL

Duqueine Automotive

In high-performance racing, precision and efficiency are crucial. Robotic additive manufacturing (AM) is revolutionizing large-scale production and development of custom tooling for racing cars.

Caracol proposes an innovative solution through 3D printing, offering lightweight Direct Molds with complex geometries made in one piece from advanced thermoplastic materials. Heron AM technology enables highly flexible design.

PROCESS / SET UP	
SYSTEM	HERON 400, HF Extruder,
MATERIAL	PC + 20% CF
POST-PROCESSING	CNC
PRINT TIME (hr)	16
WEIGHT (kg)	300
REQUIREMENTS	
SIZE	1000 x 2300 x 2400 mm
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	50%
WASTE REDUCTION	50%
WEIGHT REDUCTION	20%



Cure Tool: Drone Nose

Aerospace tool for pre-preg autoclave lamination of a drone nose – machined and used for lamination of final carbon fiber part.

connova
new ways in composites

AIRTECH
ADVANCED MATERIALS GROUP

formbar
high precision at high speed

CARACOL

PROCESS / SET UP	
SYSTEM	HERON 400, HF Extruder, 12mm Nozzle
MATERIAL	DAHLTRAM C-250 CF
POST-PROCESSING	Machining + Resin
PRINT TIME (hr)	15 (x 2 sections)
WEIGHT (kg)	130 (x 2 sections)
REQUIREMENTS	
SIZE	1100 x 1100 x 900 mm
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	50%
WEIGHT REDUCTION	40%
WASTE REDUCTION	50%
COST SAVING	30%
PROCESS OPTIMIZATION	Optimized testing phase for design and validation of part functionality

V2 Group Monolithic Catamaran

Caracol collaborated with V2 Group to develop the first functional 6-meter-long monolithic catamaran for open waters.

This boat was produced in a single print, leveraging the Heron AM robotic platform.

PROCESS / SET UP	
SYSTEM	HERON 400, HF extruder, 8 mm nozzle
MATERIAL	rPP 30% GF
POST-PROCESSING	Sanding + resin
PRINT TIME (hr)	160
WEIGHT (kg)	1200
REQUIREMENTS	
SIZE	5000 x 2300 x 1500 mm
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	20%
WASTE REDUCTION	30%
PROCESS OPTIMIZATION	This continuous additive manufacturing process minimized assembly needs and enhanced structural integrity.

CARACOL

Superstructure Finished Parts: Ventilation Air Grills

Lateral ventilation air grill manufactured for the Ferretti Group, a global leader in the design, construction, and sale of luxury motor yachts and leisure boats.

The part was built in a single piece, avoiding molds and assembly. Finished with gel coating and painting to be mounted on the Pershing GTX116.

PROCESS / SET UP	
SYSTEM	HERON 300, HA extruder, 3mm nozzle
MATERIAL	ASA + 20% GF
POST-PROCESSING	Sanding + gel coat + painting
PRINT TIME (hr)	72
WEIGHT (kg)	40
REQUIREMENTS	
SIZE	4200 x 400 x 400 mm
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	50%
WEIGHT REDUCTION	15%
WASTE REDUCTION	60%
COST SAVING	70%

CARACOL

Van Venrooy Utility Vehicles

The project focused on optimizing the design of volumes and surfaces to ensure the best fit for assembly and the required parts' accuracy.

The first series of 3D printed components included exterior, end-use parts such as rear bumpers, camper hatches, fenders, and taillight covers.

Van Venrooy
UTILITY VEHICLES

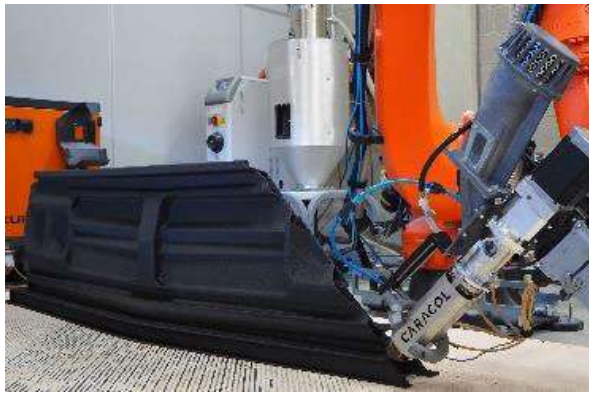
PROCESS / SET UP	
SYSTEM	HERON 300, HA extruder
MATERIAL	ABS + 20% Carbon Fiber
POST-PROCESSING	Sanding + Painting
PRINT TIME (hr)	Ready in 5 days
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	Up to 85%
WASTE REDUCTION	Up to 60%
COST SAVING	Up to 30%

CARACOL

Aesthetic Mock-up: custom Front Grille

Mock-up (1:1) manufactured custom for car design, used for part fit check for 1968 Chevrolet C10 custom build by Gas Monkey Garage.

PROCESS / SET UP	
SYSTEM	HERON 300, HA Extruder, 3mm Nozzle
MATERIAL	ABS 20% CF
POST-PROCESSING	Sanding
PRINT TIME (hr)	10
WEIGHT (kg)	30
REQUIREMENTS	
SIZE	1900 x 300 x 550 mm
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	70%
WASTE REDUCTION	50% (on single piece, avoid waste of expensive material used only for finished part)
COST SAVING	60%
PROCESS OPTIMIZATION	With this method, the company optimized design iterations, creating the final aluminum part only once, saving lead time and costs



CASE STUDY | DESIGN & FURNITURE

GOSPER LAMP

Pixom transforms digital concepts into physical reality, crafting extraordinary lighting objects designed by humans and manufactured with Heron AM robotic arms.

Translating abstract script into a design piece requires a combination of technical and creative considerations, balancing concept, function, production, and materiality.

The use of recycled PET-G reinforces the brand's commitment to sustainability, while the intricate geometries enabled by advanced robotic manufacturing technology allow for unique and customizable aesthetics.

CARACOL

CASE STUDY | DESIGN & FURNITURE

Custom Desgined Furniture

Elli, Italian innovative startup, was founded by the CEO Alessio Elli and the COO Alessio Frigeri in 2021

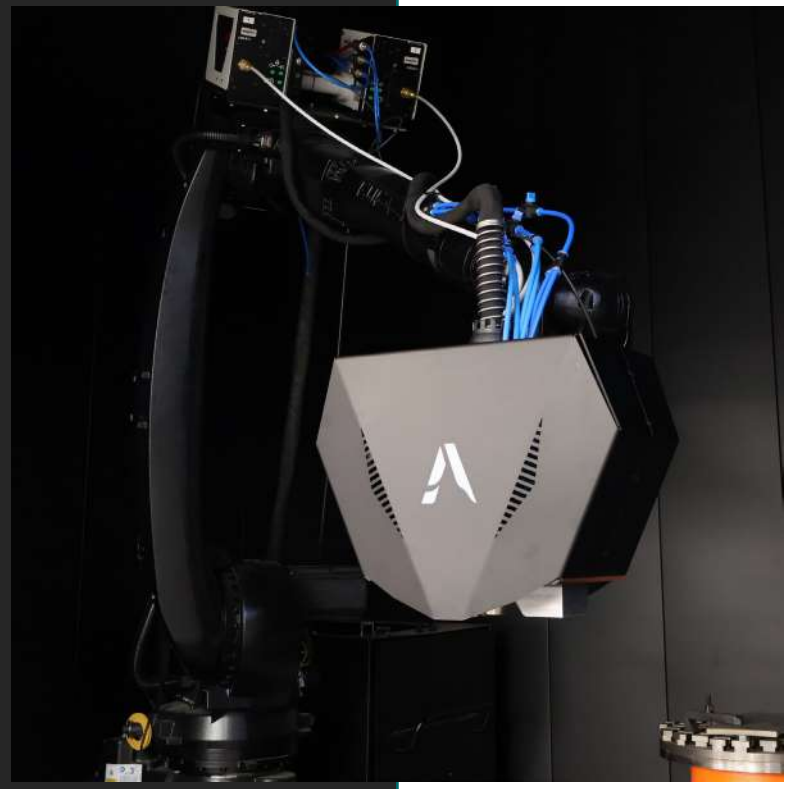
“We make furniture that meet the principles of eco-design: use of recycled and recyclable materials at the end of their life; design for circularity which wants multifunctional, adaptable, reusable, repairable products; planning of second hand, Extra-Life and Made&Remade practices”.

The fruitful collaboration with Caracol, brings innovation within the manufacturing of this design series.

CARACOL

METAL ALLOYS

Solutions we've developed to manufacture large scale parts with metal wire



CARACOL

Vipra AM

Leveraging a robotic platform to produce 3D printed large scale parts with metal alloys through arc welding.

No Scale Limits	Low Raw Material Costs	Maximize Efficiency & Sustainability
Low Operating Costs	Extreme Flexibility	Complex Geometries with 6+ axes
Drastically Cut Waste	Cut Lead Time	

CARACOL

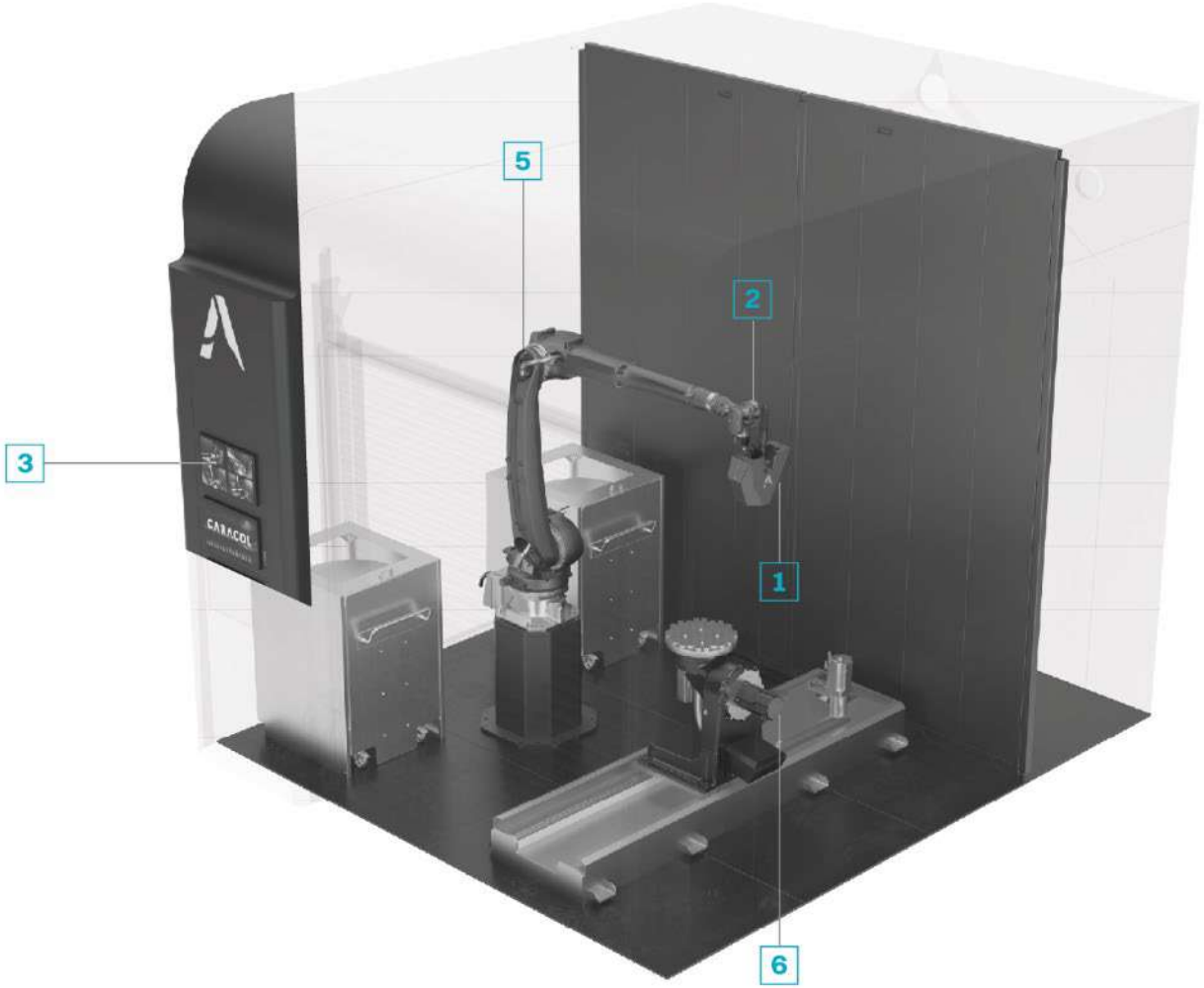
TECHNOLOGY

Vipra AM is a turnkey solution with a set of core elements...

Key elements

1. Deposition head
2. Sensors
3. Eidos Manufacturing software suite
4. Fume Extractor
5. Robotic arm
6. External manipulator
7. Welding power source & Control cabinet

CARACOL



... that can be modularly configured to fit to your needs

BASE CONFIGURATION

SOFTWARE	Eidos manufacturing software suite	
SYSTEM	Vipra XQ (Extreme Quality)	Vipra XP (Extreme Productivity)
POWER SOURCE	PAD (Plasm Arc Deposition)	CMT (Cold Metal Transfer)
BUILD VOLUME [m | ft]	2.5 x 2.0 x 2.0 | 8.2 x 6.6 x 6.6	2.5 x 2.0 x 2.0 | 8.2 x 6.6 x 6.6
WIRE DIAMETER SIZE [mm | in]	0.8 - 1.6 | 0.03 - 0.06	
WIRE FEED SPEED [m/min | ipm]	1.0 - 10.0 | 39-390	1.0 - 15.0 | 39 - 590
LAYER HEIGHT [mm | in]	0.8 - 2.0 | 0.03 - 0.08	1.0 - 2.0 | 0.04 - 0.08

Extreme Quality - XQ

The XQ model leverages PAD (Plasma Arc Deposition) technology, to produce extremely high-quality components with exceptional finishing and precision.

It leverages a cutting-edge process in Wire Arc Additive Manufacturing (WAAM), which uses a plasma arc to achieve precise, high-quality, high-speed metal deposition.

This technology generates a concentrated plasma jet to melt the feedstock wire, which is then precisely deposited layer by layer onto a substrate, ensuring superior build quality and speed.

Extreme Productivity - XP

The XP model uses CMT (Cold Metal Transfer) technology, to maximize productivity and process efficiency, and minimize operating costs.

This transformative process in Wire Arc Additive Manufacturing (WAAM) integrates advanced welding techniques with good process control for the efficient, layer-by-layer production of metal structures.

CMT operates with a low-heat input, intermittently feeding the wire into the molten pool through a synchronized short-circuiting arc, ensuring both accuracy and efficiency.

MATERIALS

... and process a wide range of high-performance alloys

SS 316L

Stainless Steel – It is ideal for demanding marine, oil & gas, and chemical applications. Known for excellent corrosion resistance to rust, saltwater, and harsh chemicals, along with high durability and strong formability and weldability, it delivers reliable performance in tough environments.

17-4 PH

Stainless Steel – It offers high strength, hardness, and corrosion resistance, making it ideal for demanding applications in aerospace, chemical, nuclear, and general engineering. With excellent mechanical properties, resistance to chloride cracking, and heat treatability, it ensures reliable performance for high-performance parts.

410 NiMo

Stainless Steel Alloy - This nickel-molybdenum martensitic stainless-steel alloy delivers high strength, toughness, and corrosion resistance. Ideal for oil & gas, automotive, and industrial machinery, it withstands stress, resists wear, and offers easy machinability for precise finishes.

ER70S

Steel - Good mechanical properties and lightweight. Ideal to replace glass fiber and aluminum applications. It has been qualified for the production of marine structural parts and aerospace molds and tools. It can go up to 80°c as a working temperature.

Invar 36

Iron-Nickel Alloy - This iron-nickel alloy offers a very low thermal expansion, ensuring dimensional stability across temperature variations. It's widely used in aerospace tooling, precision molds, and cryogenic tanks. With minimal expansion, high stability, and excellent toughness, it excels in temperature-sensitive applications.

Ti-6Al-4V

Titanium Alloy - This lightweight, high-strength alloy boasts excellent corrosion resistance, ideal for aerospace (brackets, landing gear) and automotive (engine parts, exhaust systems). With a superior strength-to-weight ratio, seawater and fluid resistance, and fatigue durability, it excels in demanding applications.

Al2319

Aluminum Alloy - This high-strength material excels in demanding environments, offering excellent mechanical properties and corrosion resistance after heat treatment. Ideal for aerospace (fuselage, fuel tanks), automotive (suspension, chassis), and energy (storage tanks), it withstands stress, wear, and cavitation in elevated temperatures.

Inconel 625

Nickel-based Superalloy - This nickel-based superalloy delivers exceptional strength, fatigue, and corrosion resistance across extreme temperatures (cryogenic to 900°C). It's ideal for aerospace (turbines, ducts), marine (propellers, valves), chemical (reactors, exchangers), and power (turbine blades, shields). With thermal stability up to 982°C and versatility, it excels in high-stress, high-temperature environments.

CuAl8Ni6

Copper Alloy - This copper-aluminum-nickel alloy provides exceptional corrosion, wear, and cavitation resistance, making it ideal for marine and industrial use. Common applications include marine propellers, oil & gas valve seats, industrial bearings, and power sector blades. Perfect for demanding, high-stress environments.

CARACOL

Fuel Tank

Pressurized tanks for space with Vipra AM, which will be mounted on a carrier satellite to transport and release CubeSats into orbit.

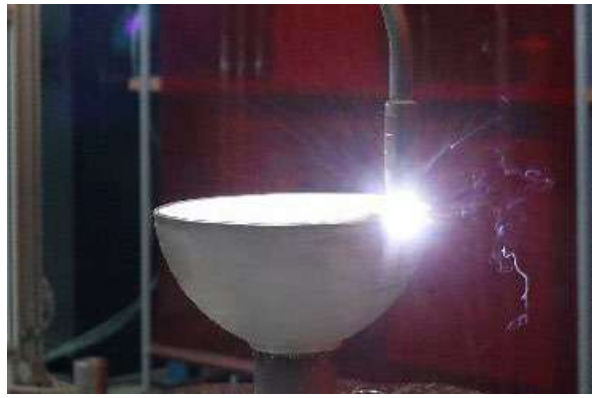
PUNTOZERO
Design for Additive Manufacturing

D-ORBIT

Regione Lombardia

CARACOL

PROCESS / SET UP	
SYSTEM	Vipra Xp
MATERIAL	Al2319
POST-PROCESSING	CNC Machining
PRINT TIME [hr]	3.5
WEIGHT [kg]	11
REQUIREMENTS	
SIZE	280 x 250 x 250 mm
SURFACE ROUGHNESS [µm]	1.0
DIMENSIONAL TOLERANCES [mm]	0.5
SAVINGS VS. TRADITIONAL PROCESS	
LEAD TIME	50%
WEIGHT REDUCTION	80%
COST SAVING	70%



Autoclave Cure Tools

Vipra AM manufactured a high-precision autoclave cure tool, specifically a stringer mold which is used in the production of stiffened composite panels for aircraft fuselage sections.

The part was produced in Invar 36, a material widely recognized in the aerospace industry for its near-zero thermal expansion and dimensional stability in high-temperature environments.

PROCESS / SET UP	
SYSTEM	Vipra XP
MATERIAL	Invar 36
POST-PROCESSING	CNC Machining
DEPOSITION RATE [kg/h]	5
WEIGHT [kg]	70
DIMENSIONS [mm]	550 x 350 x 120
PRINT TIME [hr]	14

- **Lead time:** WAAM enables the rapid production of large, complex tools.
- **Part durability:** using materials such Invar 36 ensures that the molds remain dimensionally stable during the high-temperature autoclave process, preventing warping and maintaining the precise tolerances of the composite materials.
- **Low coefficient of thermal expansion (CTE):** Invar 36 maintains dimensional stability at temperature up to 280 °c.
- **Mechanical properties:** the alloy's strength and resistance to fatigue make it well-suited for repeated cycles of heating and cooling, as experienced in autoclave curing.

CARACOL

Propeller

This part was made with CuAl8Ni6 (Copper-Aluminium-Nickel Alloy), a material well-known for its outstanding corrosion resistance, strength, and durability in seawater environments.

This alloy is highly favored for marine propellers due to its excellent resistance to corrosion, cavitation, and biofouling, making it ideal for applications that operate in aggressive saltwater conditions.

PROCESS / SET UP	
SYSTEM	Vipra XP
MATERIAL	CuAl8Ni6
POST-PROCESSING	Shot peened
DEPOSITION RATE [kg/h]	4.6
WEIGHT [kg]	45
DIMENSIONS [mm]	700 x 700 x 350
PRINT TIME [hr]	10.5

- **Custom geometries:** WAAM allows to produce customized propellers with intricate geometries.
- **Material waste reduction:** compared to traditional casting and machining methods.
- **Corrosion resistance:** CuAl8Ni6 is highly resistant to corrosion, especially in marine environments (saltwater and brackish waters) ensuring long service life.
- **Short lead times:** rapid production of parts on-demand.
- **High strength and toughness:** the alloy's mechanical properties allow it to withstand the stresses encountered in high-speed marine propeller operations.
- **Resistance to cavitation:** CuAl8Ni6 performs exceptionally well under cavitation and erosion, reducing material degradation and ensuring optimal performance.

CARACOL

Multi-material neck flange

We produced multi-material neck flanges using Vipra AM, leveraging the system's flexibility to manufacture with two materials: Inconel 625 for its strength and corrosion resistance and ER70S Steel for its versatility and durability.

This approach delivers a high-performance solution designed to withstand the extreme pressures, temperatures, and corrosive environments found in the Oil&Gas industry.

PROCESS / SET UP	
SYSTEM	Vipra XP
MATERIAL	Inconel625 + ER70S Steel
POST-PROCESSING	CNC Machining
DEPOSITION RATE [kg/h]	5
WEIGHT [kg]	14
DIMENSIONS [mm]	270 x 270 x 110
PRINT TIME [hr]	3

- **Multi-material production:** easy combination of two materials to optimize part performance, functionalities and costs.
- **Optimized part:** Inconel 625 was used in high-stress, high-corrosion regions, and ER70S for less critical areas, to maintain a material-efficient design while guaranteeing part performance.
- **Inconel 625:** ideal for components exposed to severe environments, it provides exceptional fatigue and stress-corrosion cracking resistance.
- **ER70S:** it offers good mechanical properties and, when used in combination with Inconel 625, it adds cost-efficiency without compromising on performance.

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Conveyor screw

Vipra AM is a great solution to produce conveyor screws or spiral drills, for industrial machinery applications.

316L Stainless Steel was used as the material is widely regarded for its excellent corrosion resistance, durability, and strength, making it the ideal choice for demanding industrial environments where heavy loads and abrasive materials are present.

PROCESS / SET UP	
SYSTEM	Vipra XP
MATERIAL	SS316L
POST-PROCESSING	Shot peened
DEPOSITION RATE [kg/h]	4.9
WEIGHT [kg]	85
DIMENSIONS [mm]	1000 x 350 x 350
PRINT TIME [hr]	17.5

- **Customization:** custom conveyor screws can be designed and printed to ensure the precision and strength needed for optimal performance.
- **Shorter lead times and reduced material waste**
- **Corrosion resistance:** 316L Stainless Steel is highly resistant to corrosion, particularly in environments where exposure to acids, chemicals, and saltwater is frequent, ensuring a long service life in harsh industrial conditions.
- **Strength and durability:** the alloy's mechanical properties, including high tensile strength, make it capable of handling the rigorous demands of conveyor systems, which often involve abrasive materials and heavy loads.
- **Ease of fabrication:** 316L Stainless Steel is easily deposited allowing to produce complex spiral geometries required in conveyor screws.

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THANK YOU!

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