HIGH SPEED ENGINEERING

PRECISION CNC MACHINING

Capability Statement & Services Brochure

Document Reference No. HSESCOPE3.0 Version No. 2.0 Revision Date: 15/10/2026

HIGH SPEED ENGINEERING
PRECISION CNC MACHINING

CAPABILITY STATEMENT



ABOUT US

DRIVEN BY PRECISION, BUILT FOR PERFORMANCE.

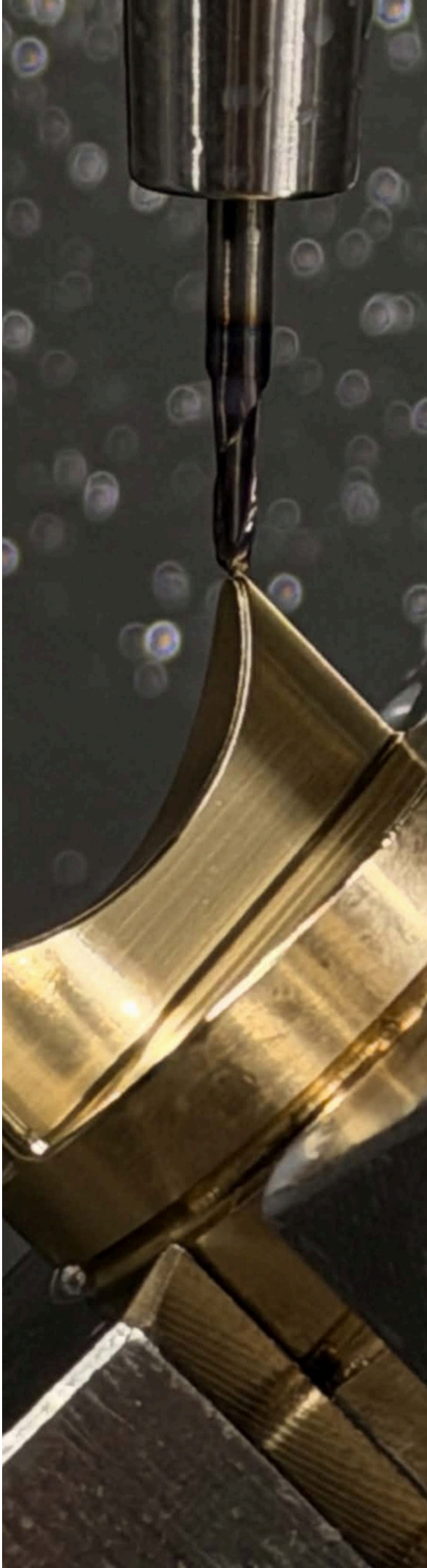
Since 2002, High Speed Engineering has delivered precision engineered components and specialist manufacturing solutions for demanding applications across Australia and Internationally.

From our 1,100sqm facility in Malaga, Western Australia, our experienced design team and long-serving CNC Machining Specialists combine practical expertise with advanced manufacturing technology. With design, machining, fabrication, finishing and inspection capability under one roof, we support projects from early concept and prototyping through to bespoke component manufacturing and repeat production.

Our breadth of in-house capabilities gives our customers greater continuity, flexibility, and control during the design and manufacturing process, whether the requirement is straightforward production work or a complex engineering challenge.

WHY CHOOSE US?

- Established in 2002.
- High capability, capacity & flexibility.
- Long-serving CNC machining specialists.
- Modern, purpose-built facility in Malaga.



OUR APPROACH

TECHNOLOGY MEETS EXPERIENCE.

High Speed Engineering combines advanced manufacturing technology with experienced Designers and Specialist Machinists to solve complex manufacturing challenges with precision, efficiency and practicality.

We collaborate with our customers to understand the design intent, materials, tolerances, quantity, timeframe and end use before determining the right manufacturing pathway. From one-off components and urgent repairs to prototypes and production runs, our focus remains the same: the right process, the right technology and the right result.



ADVANCED EQUIPMENT

See the HSE website for the full listing of our machines.

HAAS UMC-500SS with Pallet Pool
Simultaneous 5-axis universal vertical machining centre for increased precision on small, complex parts.

HAAS Super-Speed 5-Axis VMC
500 mm integrated trunnion rotary table & Renishaw probing for complex geometries in a single setup.

Doosan DVF 500
5-axis machining capacity for demanding, high-precision components.

Doosan Lynx2100LSYB
Horizontal CNC turning centre with a Y-axis, sub-spindle, and live tooling for complex machining.

Borui CNC Gear Hobber
4-axis gear cutting up to 550 mm diameter, including spur, helical and custom profiles.

Excetek V650G Plus
5 and 6-axis EDM wire cutting, with submerged capacity up to 500 mm.

BaoKun Laser Cutter
1400x1400mm capacity up to 25mm thickness.

Robotic MIG Welding
ABB IRB, 7-axis, 350A for consistent & repetitive welding.

CMM & Faro Arm
In-house metrology and inspection capability with accuracy to 0.002 mm / 2 microns.

DESIGN & ENGINEERING

TURNING CONCEPTS INTO REALITY.

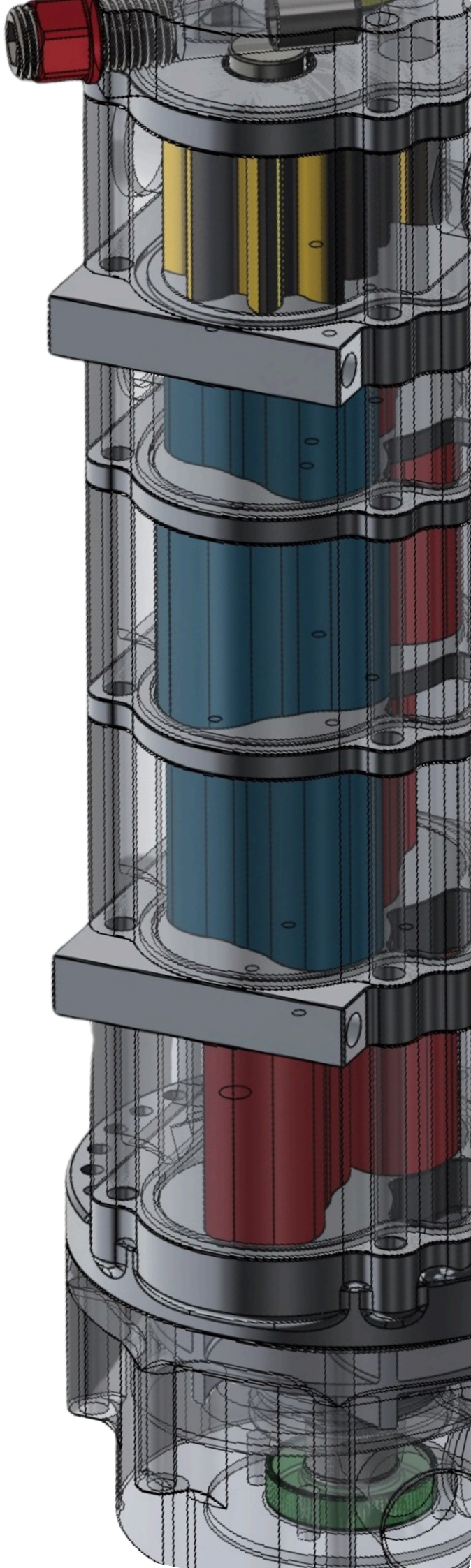
High Speed Engineering turns ideas, existing components and engineering challenges into practical, manufacturable solutions.

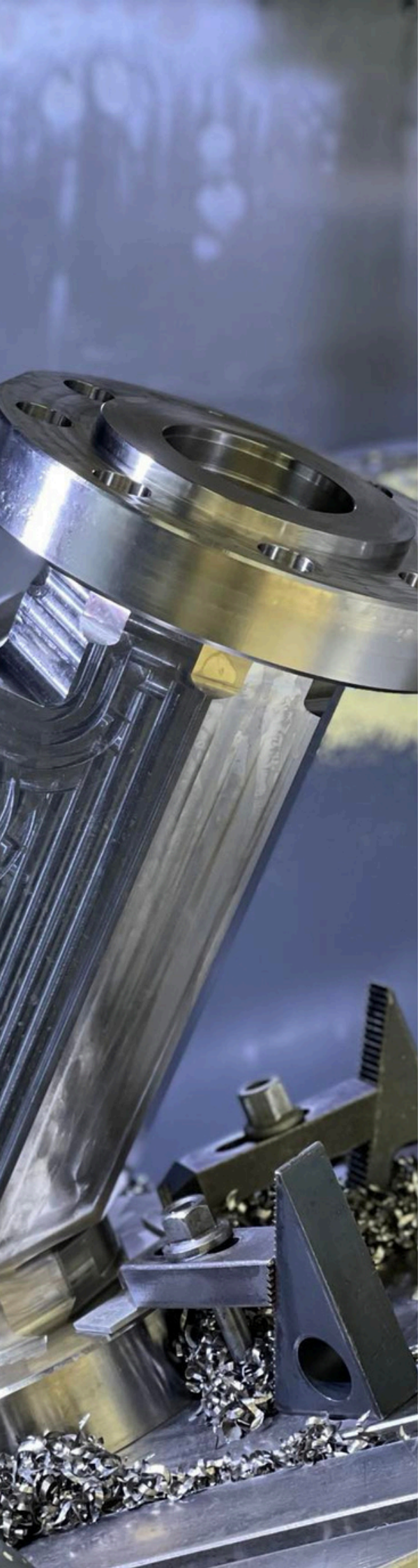
Our Design team combines CAD, 3D laser scanning, prototyping, and/or reverse engineering with direct access and input to our Manufacturing team. This connection between design and production helps identify opportunities, constraints and potential issues early, improving manufacturability before work commences.

Whether developing something new, improving an existing product or recreating an obsolete component, we can take a project from a physical part or concept through to a production-ready design.

Design & Engineering Capability

- Concept Design
- Research & Development
- 3D CAD Design
- 2D Drafting
- SolidWorks
- 3D Laser Scanning
- Prototyping
- Reverse Engineering
- Design for Manufacture
- Product Improvement
- Product Consultation
- Metrology & Dimensional Inspection





MANUFACTURING & MACHINING

ADVANCED CAPABILITY FOR COMPLEX WORK.

Our broad machining capability gives High Speed Engineering the flexibility to select the right process for the component rather than forcing the component to suit the process.

Multi-axis CNC milling and turning, EDM wire cutting, CNC gear hobbing and additive manufacturing allow our team to produce complex geometries, precise tolerances and specialist componentry from prototypes to bespoke requirements and repeat production.

We work with materials ranging from aluminium, steels, and engineering plastics to specialist alloys, including brass, titanium, Inconel, Hastelloy, Duplex, Super Duplex, Monel, and Nitronic.

Manufacturing & Machining Capability

- CNC Milling (3, 4 & 5 Axis)
- CNC Turning (2, 3 & 4 Axis)
- CNC Gear Hobbing
- EDM Wire Cutting (5 & 6 Axis)
- 3D Printing / Additive Manufacturing
- Laser Cutting
- Exotic Metal Machining
- Prototype & Bespoke Manufacturing
- Low and Repeat-Volume Production

WHY CHOOSE US?

- Technology and efficiency focused
- Capability for complex components
- Specialist and exotic material machining
- Broad in-house manufacturing capability
- Responsive, flexible project delivery

FABRICATION & FINISHING

COMPLETE YOUR COMPONENT UNDER ONE ROOF.

High Speed Engineering's capability extends beyond machining into fabrication, specialist finishing and precision inspection.

From conventional and robotic welding through to EDM spark erosion, grinding, deburring, polishing and laser etching, our team can achieve both functional and surface requirements to an exceptional quality.

In-house metrology, including CMM inspection, provides the final layer of Quality Assurance, verifying critical dimensions and tolerances before components leave our facility.

Fabrication & Finishing Capability

- MIG & TIG Welding
- Robotic MIG Welding
- Light Fabrication
- EDM Spark Eroding
- Surface Grinding
- External Cylindrical Grinding
- Automatic Deburring
- Isotropic Polishing
- Engraving
- Laser Etching
- Assembly
- Tooling
- CMM Inspection
- Faro Arm Inspection



INDUSTRIES WE SERVE

PRECISE ENGINEERING SOLUTIONS FOR DEMANDING INDUSTRIES.

High Speed Engineering works across industries where accuracy, reliability and fit-for-purpose engineering matters.

Our combination of design, manufacturing, machining and specialist finishing allows us to support everything from high-specification, low volume and confidential projects through to replacement components, bespoke products and ongoing production requirements.

Mining & Resources

- Gears, shafts, axles & sprockets
- Valve & wear components
- Drilling rig parts & consumables
- Replacement parts for legacy equipment
- Custom engineered components

Subsea

- High-specification machined components
- Corrosion-resistant materials
- Bespoke components
- Replacement and repair parts
- Specialist machining for complex geometries

Oil & Gas

- Precision machined components
- Specialist valve parts
- Corrosion-resistant materials
- Bespoke engineered components
- Component repair & replacement

Engineering

- One-off machined components
- Bespoke fabrication
- Reverse engineering
- Prototype development
- Small & repeat production runs

Performance Automotive

- Brake setups
- Oil pumps & oil pump gears
- High-durability axles
- Engine & gearbox adaptors
- Replacement parts for discontinued components
- Custom performance components

Scientific

- Specialist laboratory equipment
- Custom tooling
- Gears, shafts & valve components
- Precision prototypes
- Bespoke research components

Heavy Rail

- Gears, shafts, axles & sprockets
- Hi-rail vehicle components
- Rail reprofiling machine parts
- Valve & coupling components
- Replacement parts for specialised equipment

Aerospace

- High-precision machined components
- Complex geometries
- Specialist alloys
- Prototype and bespoke components
- Close-tolerance manufacturing

Defence

- High-specification replacement components
- Bespoke engineered parts
- Prototyping & design iteration
- Specialist machining & fabrication
- Secure, on-site data handling

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MILLING

BRAND	MODEL	AXIS	X (MM)	Y (MM)	Z (MM)
HAAS 10 PALLET	UMC500SS	5	610	406	406
HAAS	UMC750SS	5	762	508	508
DOOSAN	DVF 500	5	625	450	400
HAAS	VF5	3-Apr	1270	660	800 (under spindle)
HAAS	VF5XT	3-Apr	1550	660	800 (under spindle)
MITSEIKI	CV1200	3-Apr	1200	600	700 (under spindle)
HAAS	VF2SS	3	750	412	500 (under spindle)

8, 10 and 12" ROTARY TABLES



TURNING

BRAND	MODEL	AXIS	DIA. (MM)	LENGTH (MM)	CHUCK (\")
DN SOLUTIONS	GT2100	2	400	560	10
DN SOLUTIONS PUMA	2600YB2	Y Milling	400	790	12
DOOSAN LYNX	220LY	Y Milling	320	550	8
PUMA	400	2	580	1100	15
DAEWOO LYNX	210L	2	280	550	8
DAEWOO LYNX	210L	2	280	550	8
DAEWOO PUMA	240M	C Milling	280	550	8
VICTOR	V600	2	650 (turning)		15
DAEWOO PUMA	10	2		750	10
HAAS	TL1	2	300	750	8



WIRECUTTING

BRAND	MODEL	AXIS	X (MM)	Y (MM)	Z (MM)
EXCETEK	V650G Plus	5	650	400	500
EXCETEK	V400G	5	400	300	240
EXCETEK	V400 + Rotary	6	400	300	300
FANUC	Alpha-OC	5	320	220	180



GEARHOBBING

BRAND	AXIS	DIA. (MM)	Z (MM)
BORUI	4	550	350



LASER ETCHING & CUTTING

BRAND	MODEL	X (MM)	Y (MM)	FEATURES
ACCTEK	MOPA Fiber	600	900	30W
ACCTEK	Fiber	300	300	30W
BODOR	CO2	600	900	100W
LASER CUTTER	6KW FIBRE LASER	1500	1500	Up to 25mm STEEL

EDM SPARK ERODERS

BRAND	MODEL	X (MM)	Y (MM)	Z (MM)	FEATURES
CHMER	50MP	400	300	Z (MM)	FEATURES
KOTON	KS400	700	400	500	



ADDITIVE PRINTING

TYPE	X (MM)	Y (MM)	Z (MM)
5 x FDM	300	300	300
3 x Resin	300	300	160

ROBOTIC MIG WELDING

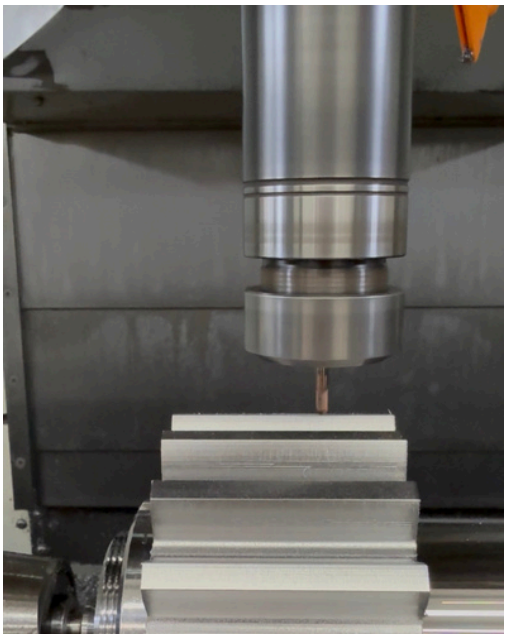
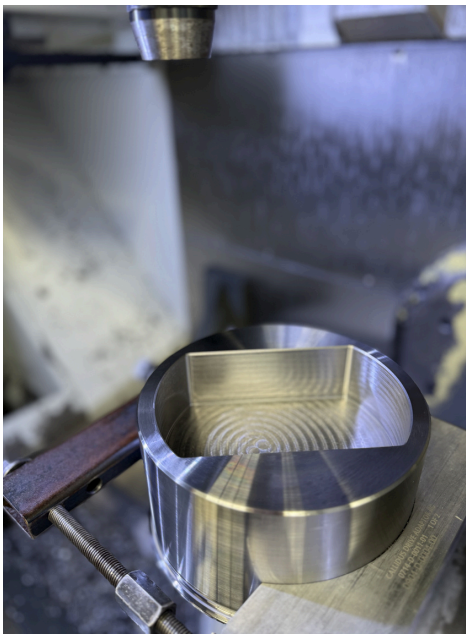
ABB IRB 2600 7aXIS 350

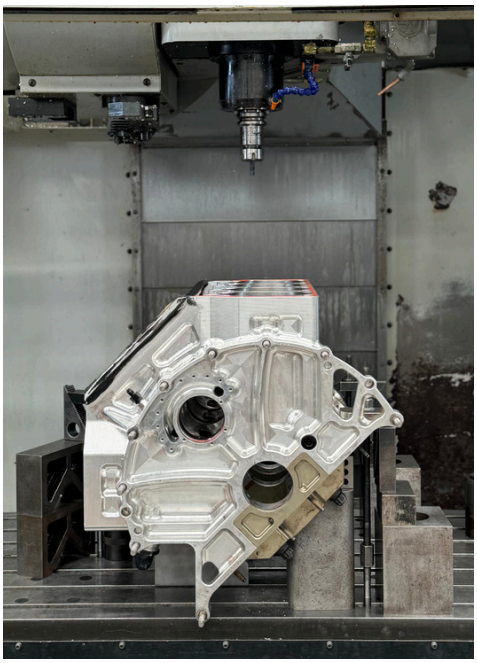
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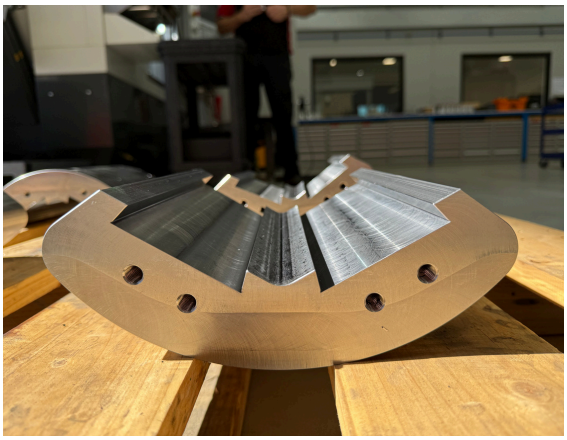
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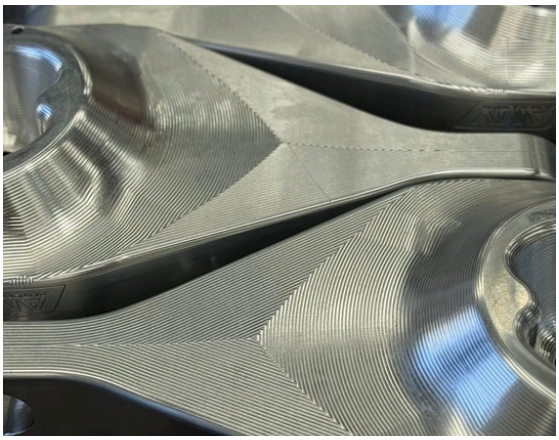
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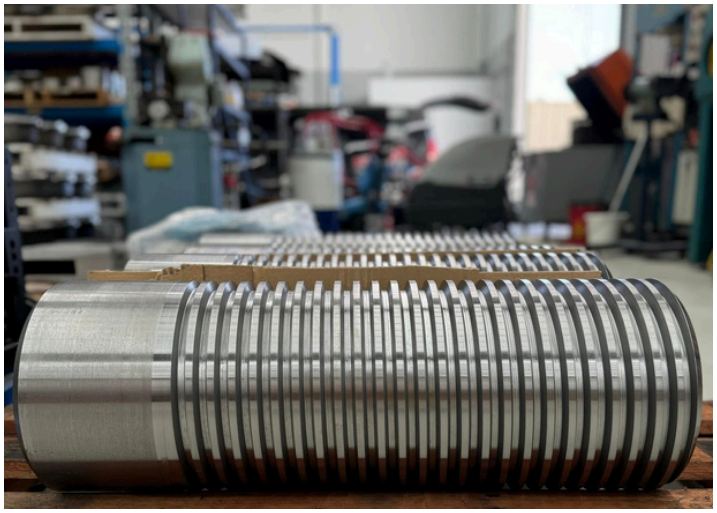
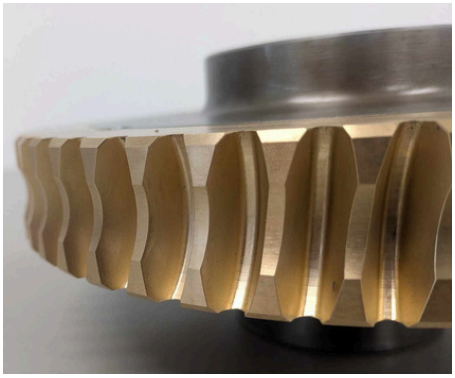
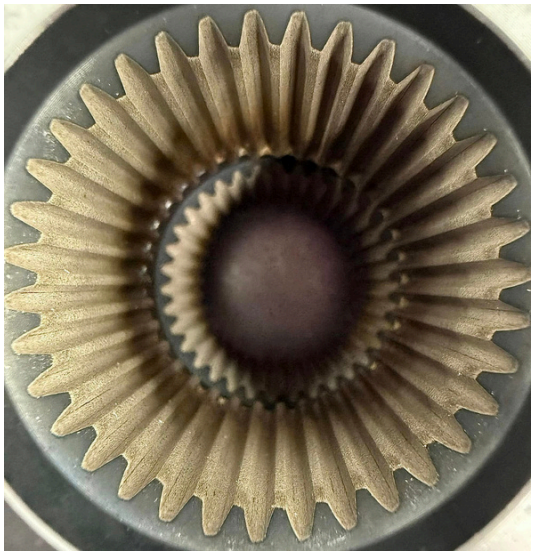


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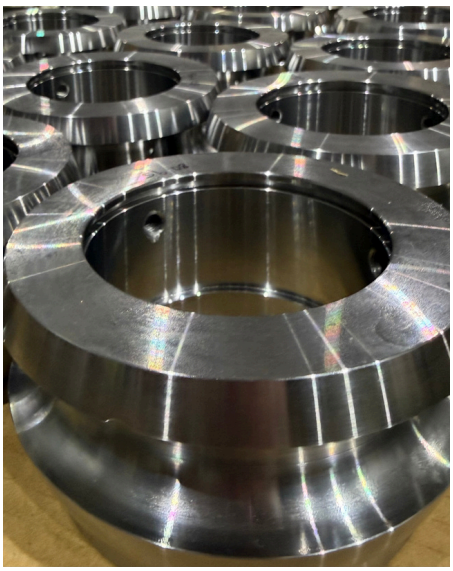
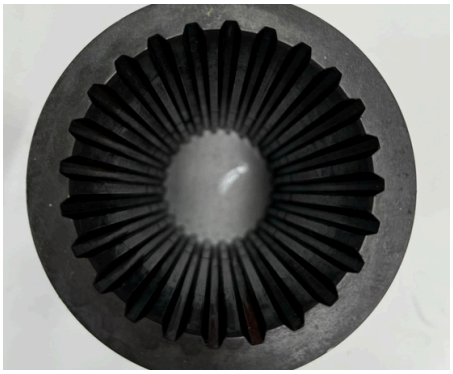
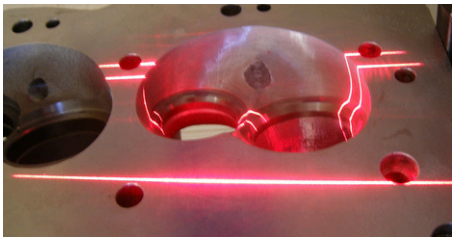
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Machining Capabilities & Services 3/6



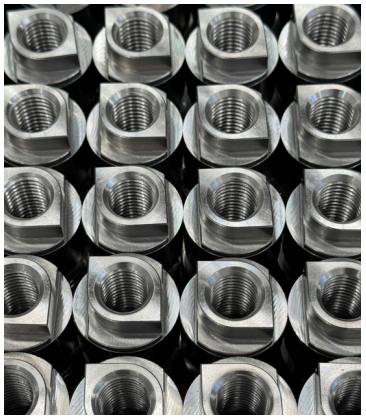
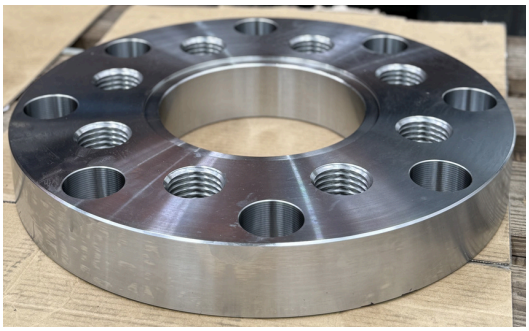
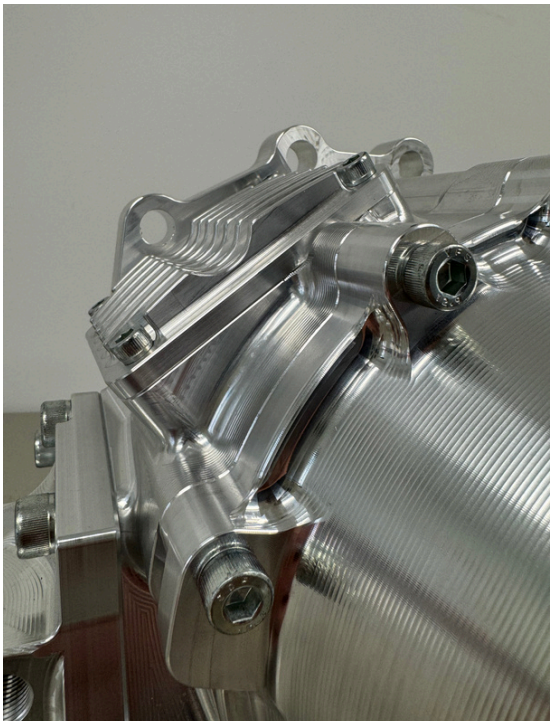
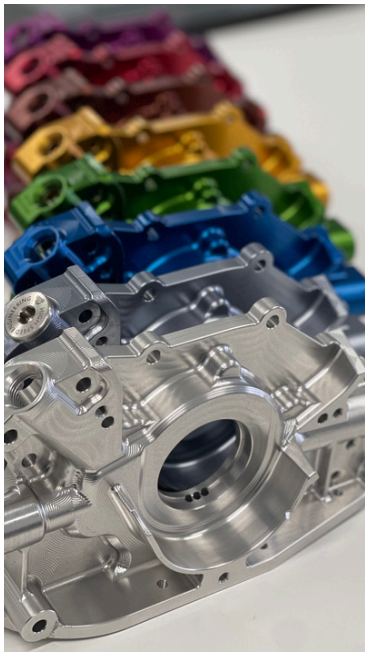
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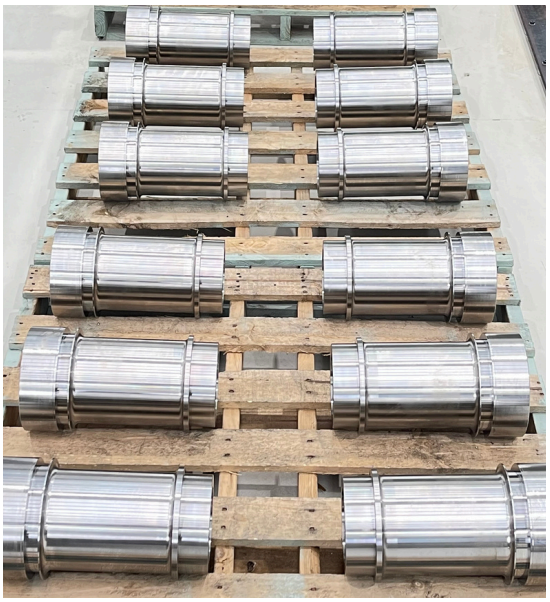
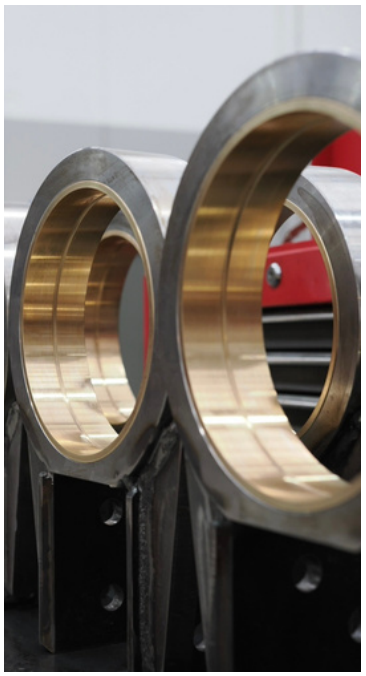
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Machining Capabilities & Services 4/6



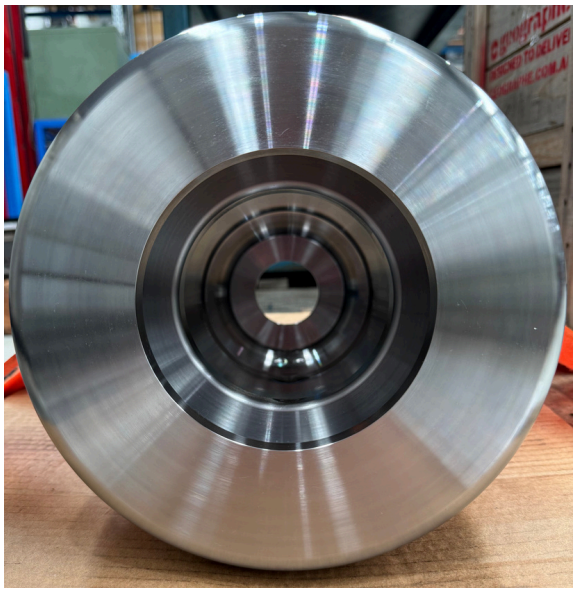




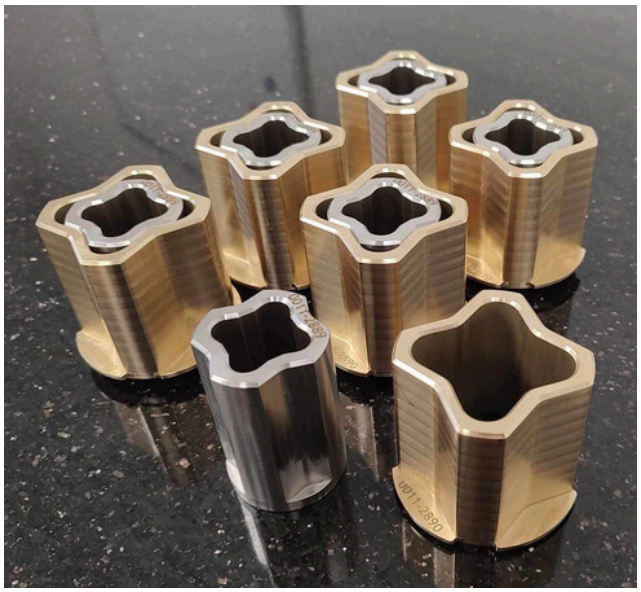
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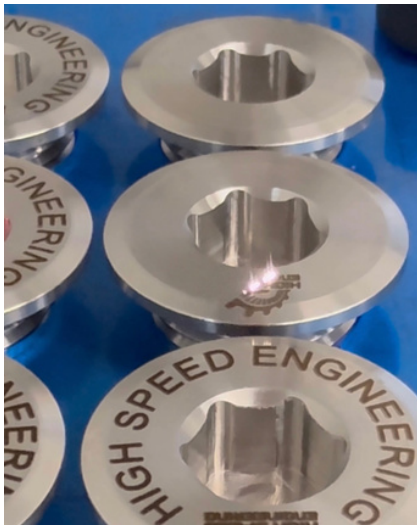
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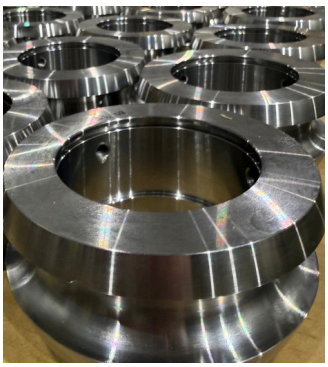
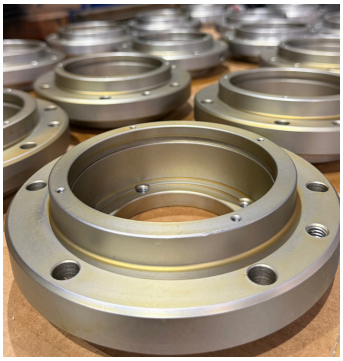
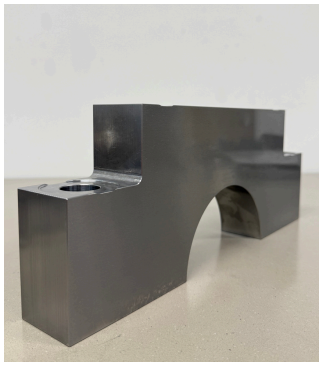
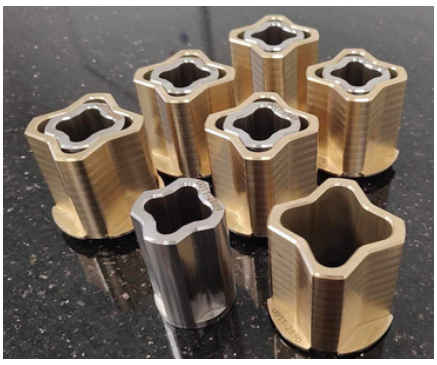



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Bearings, Fastenings, Couplings, Bushes and Fixings















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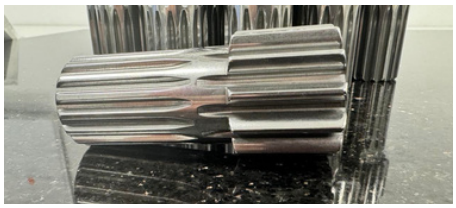
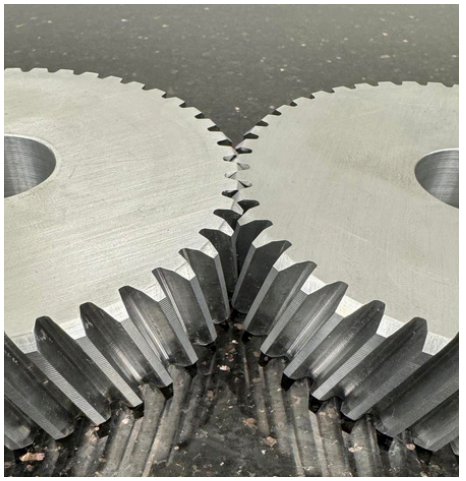
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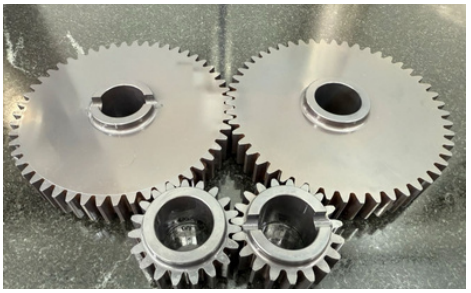
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Gears

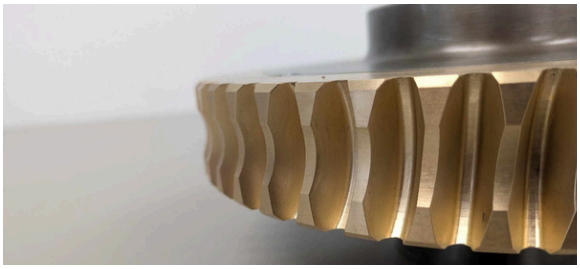








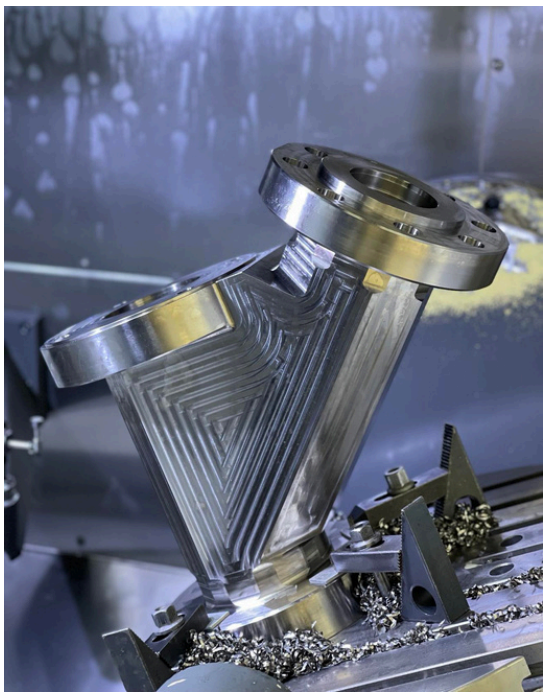
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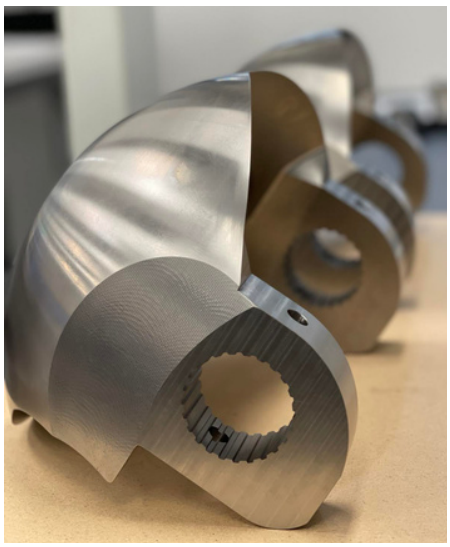
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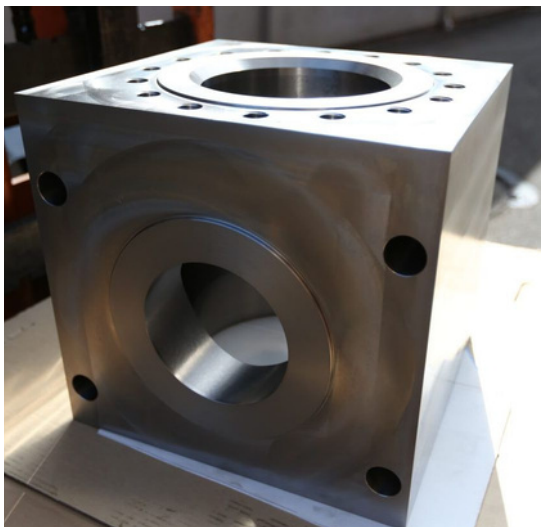
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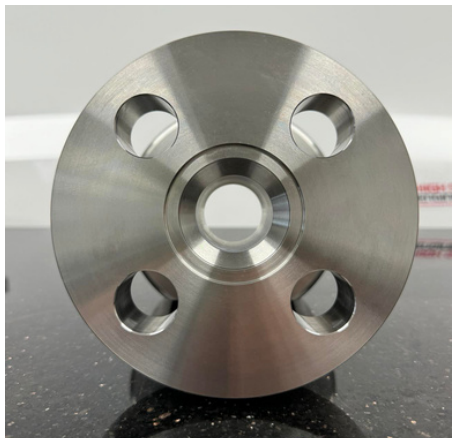
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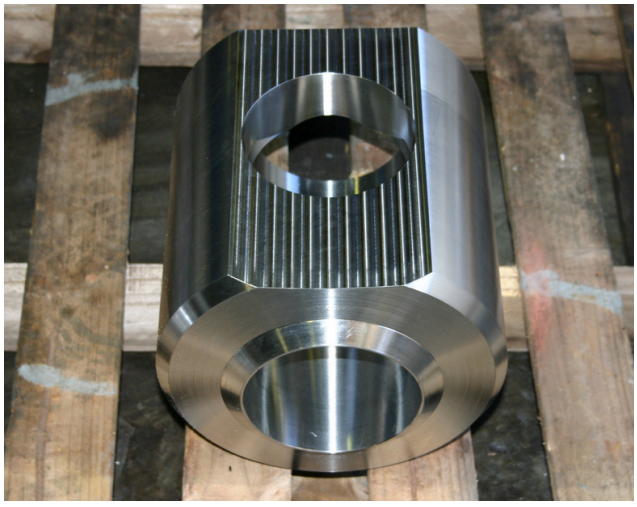
Exceptional Accuracy, Consistent Quality.









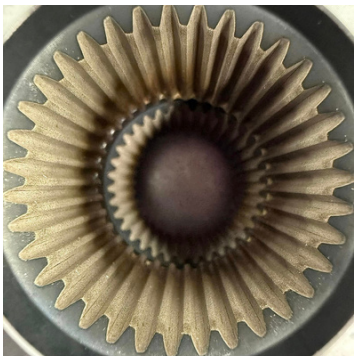


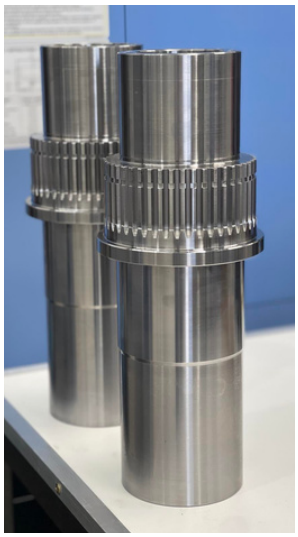

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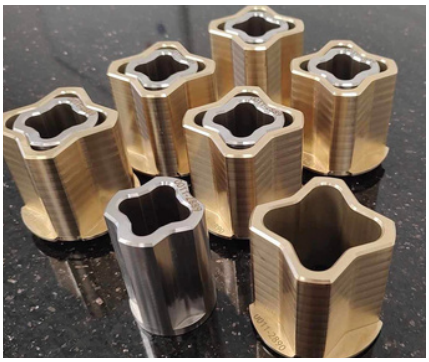
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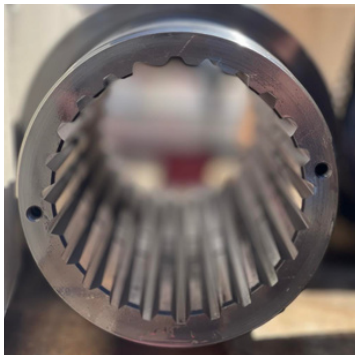
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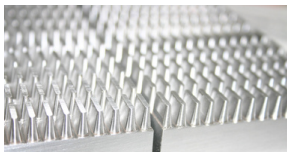

















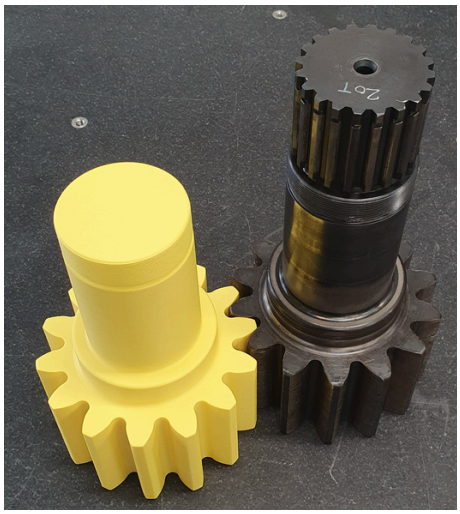
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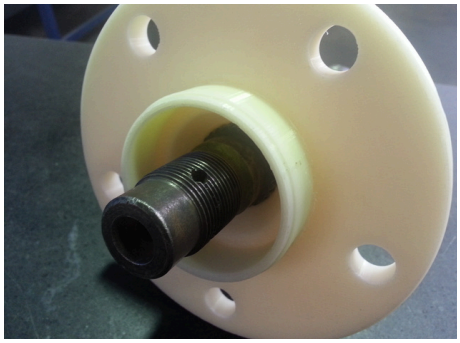
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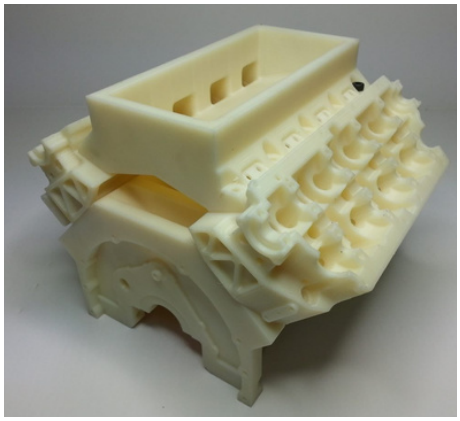
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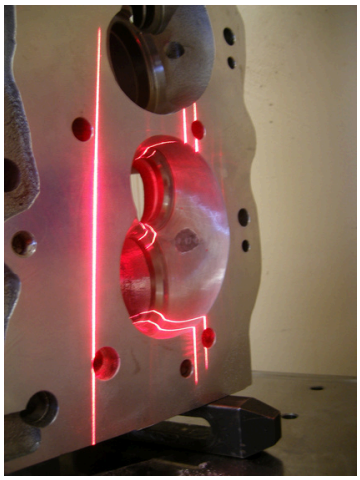
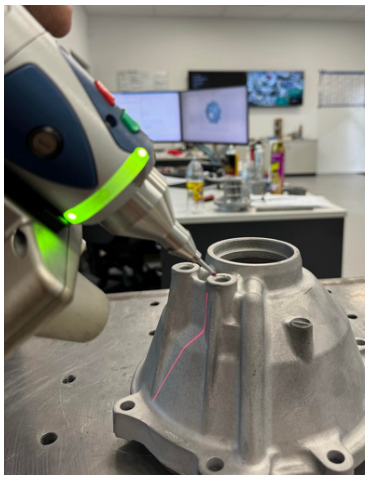
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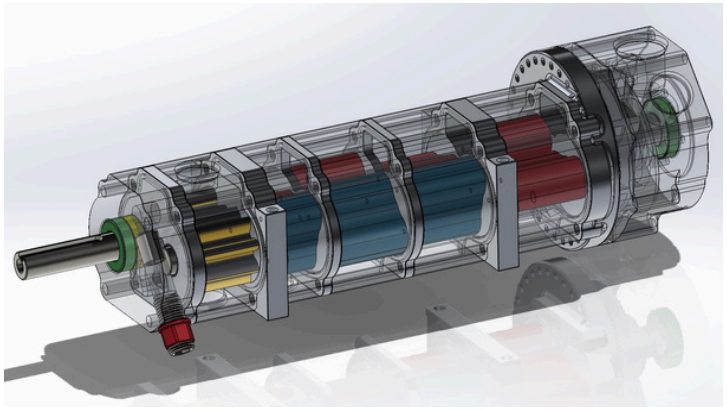
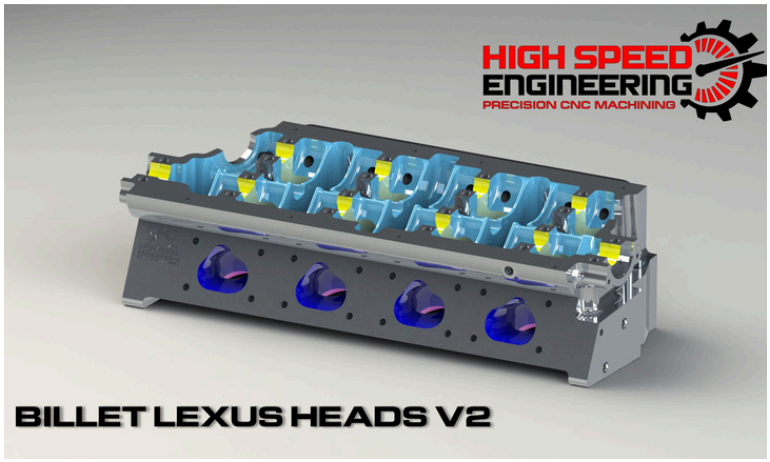
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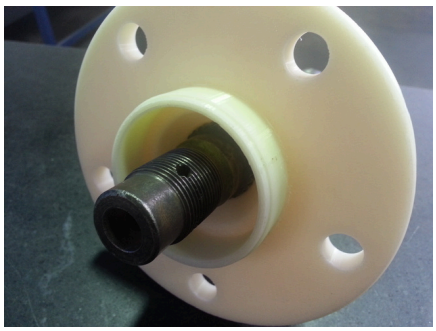
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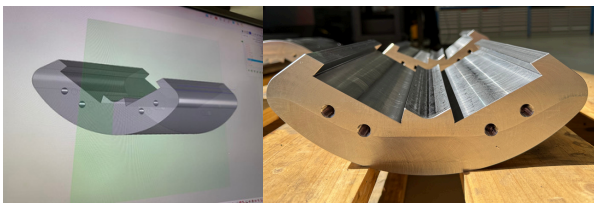
Mechanical Consultancy

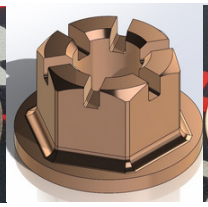
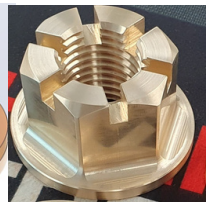
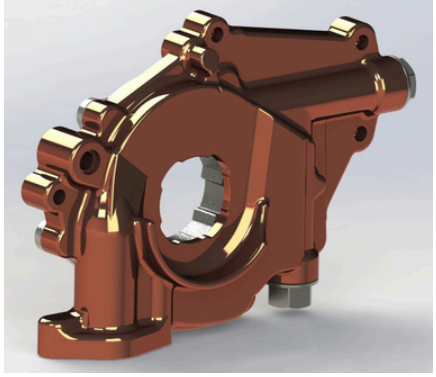
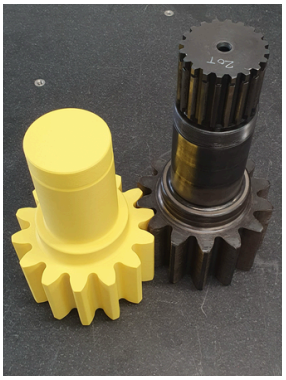
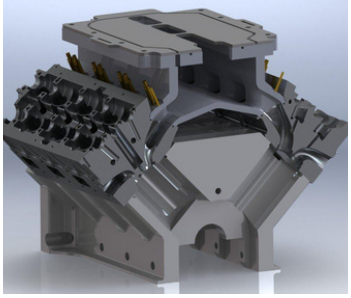
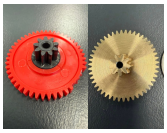
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CONCEPT DESIGN PROTOTYPING REVERSE ENGINEERING

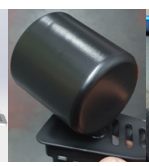







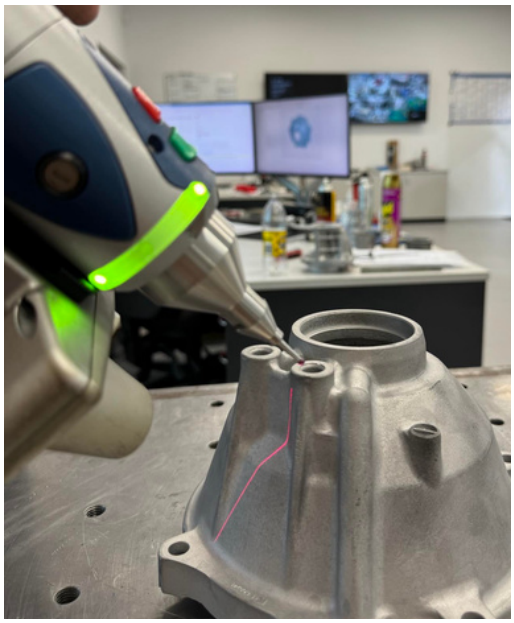
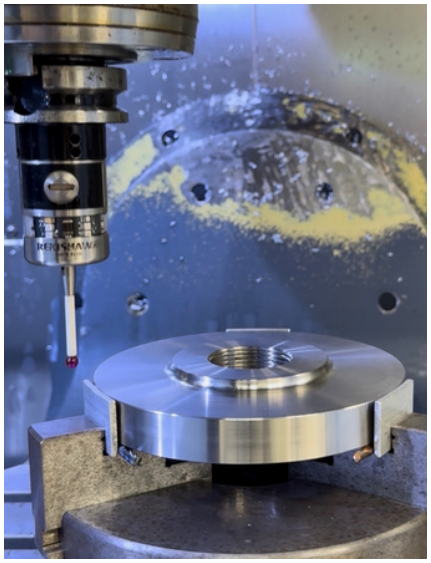

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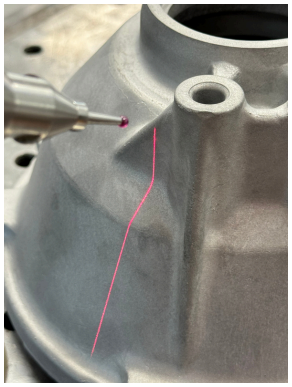
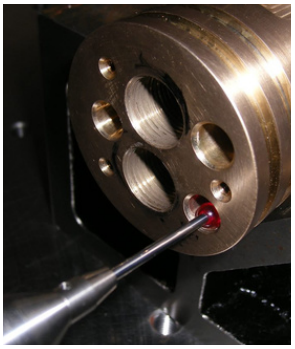
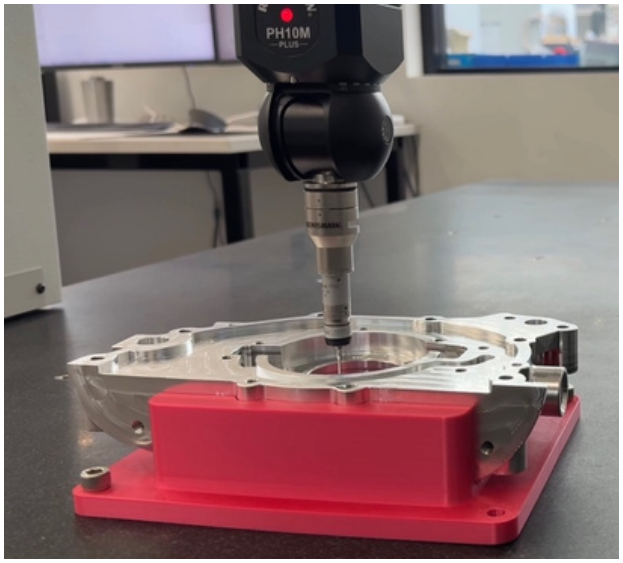
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Inspection & Testing



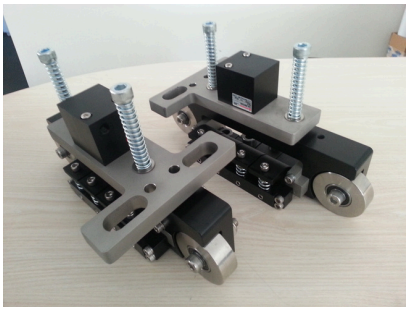
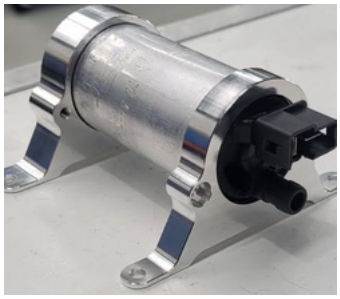



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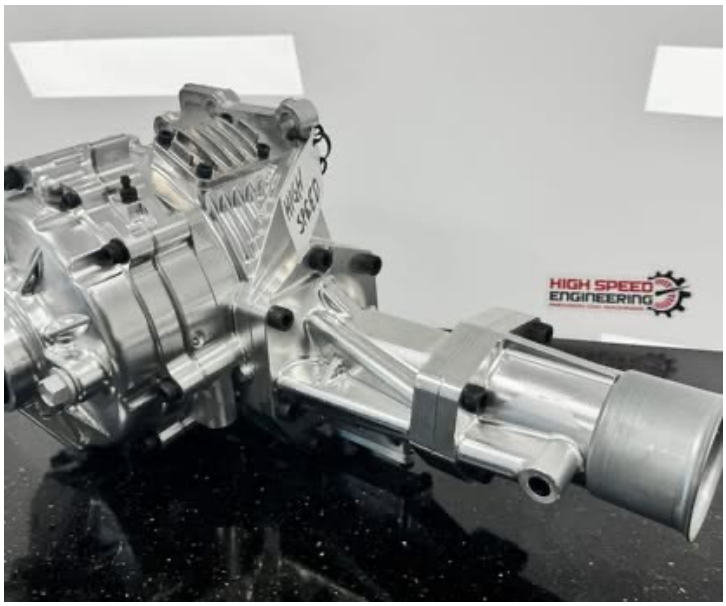
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Assembly







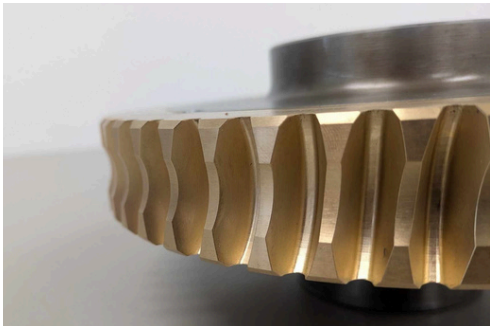


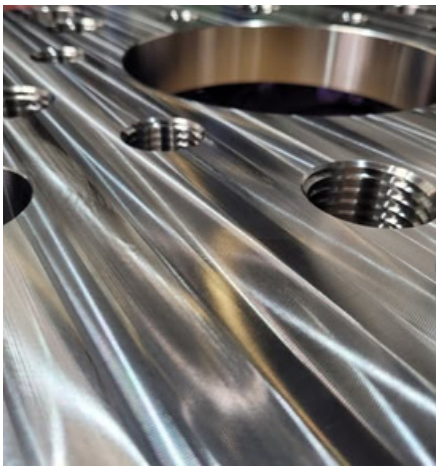
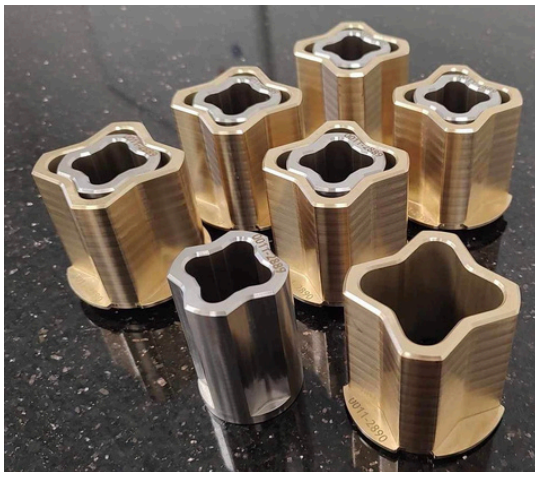
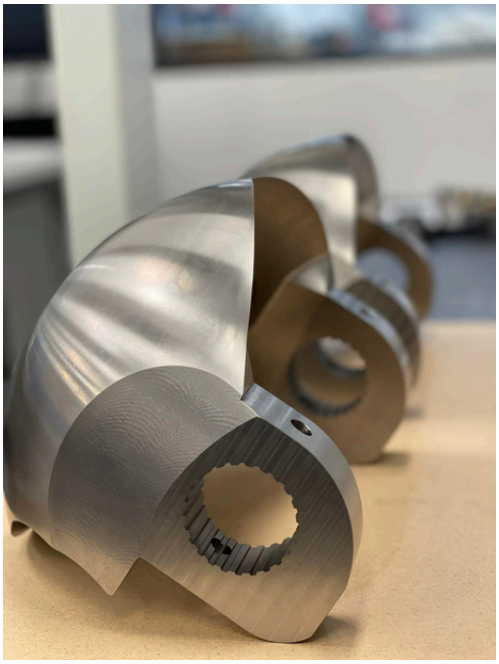

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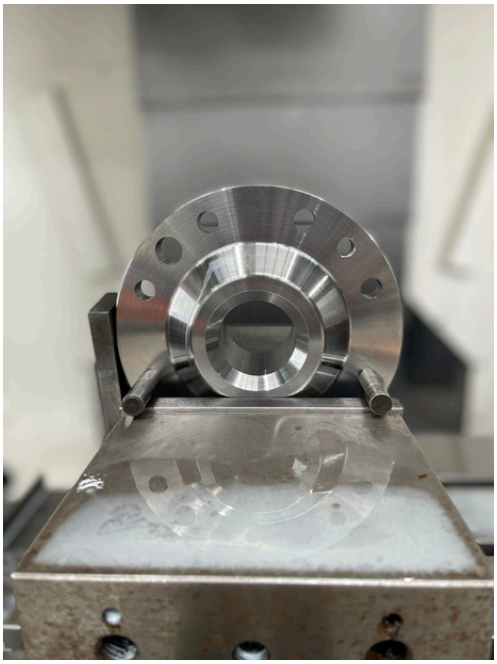
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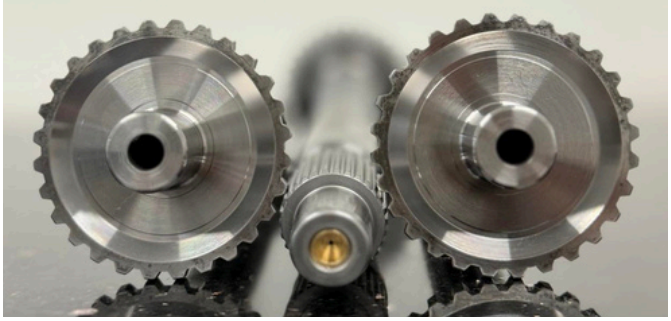
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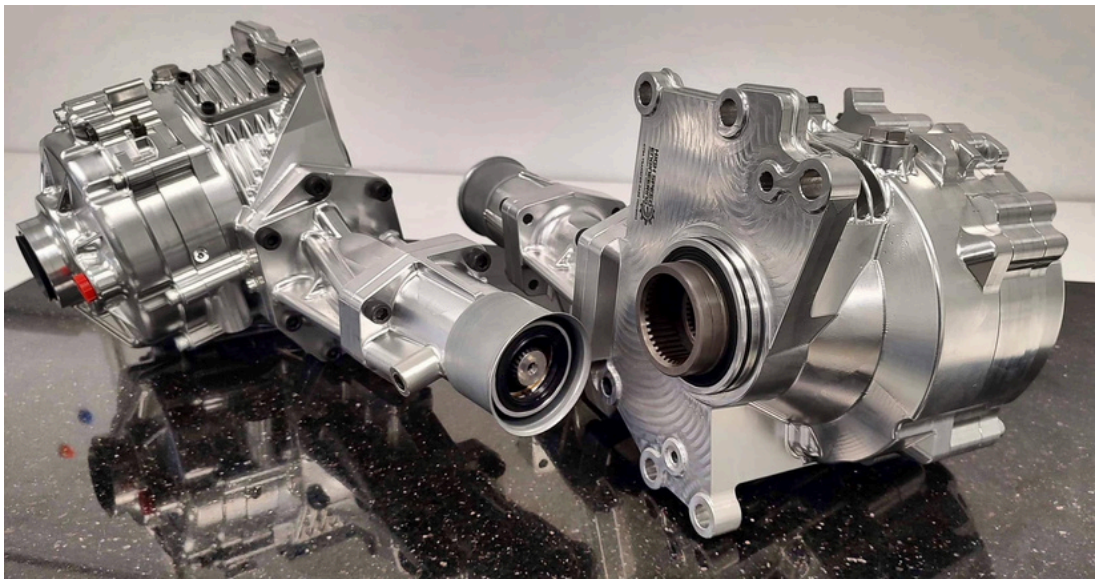
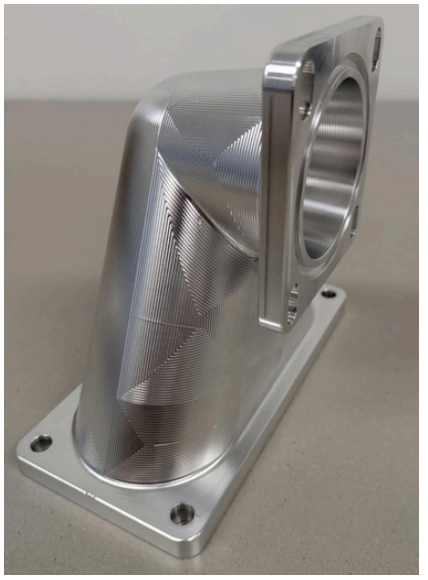


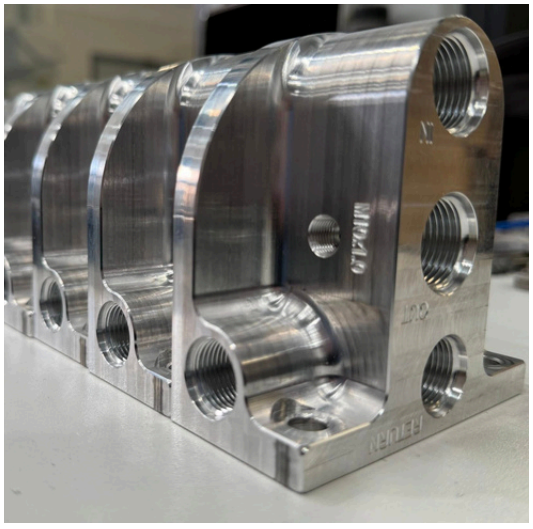
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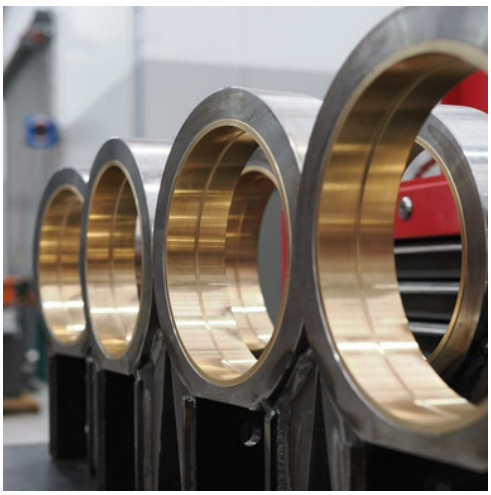
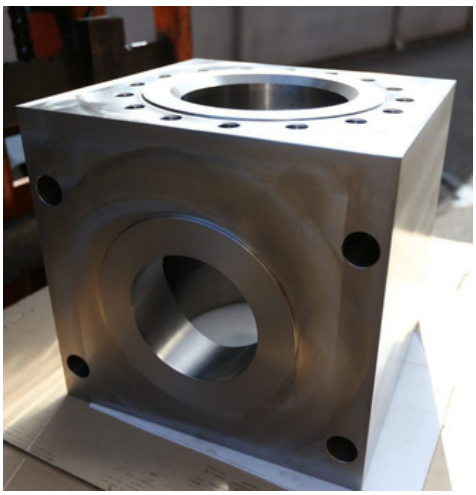
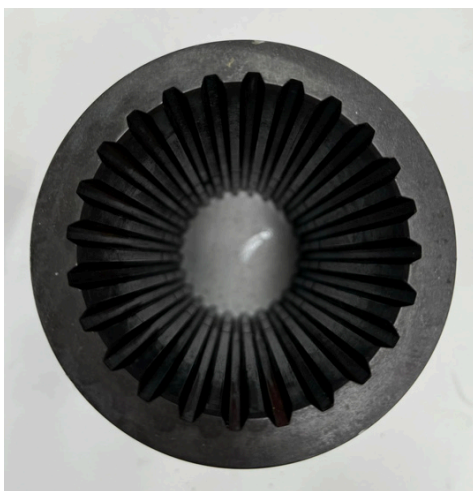
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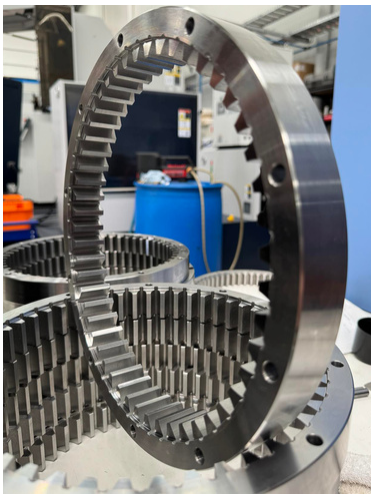
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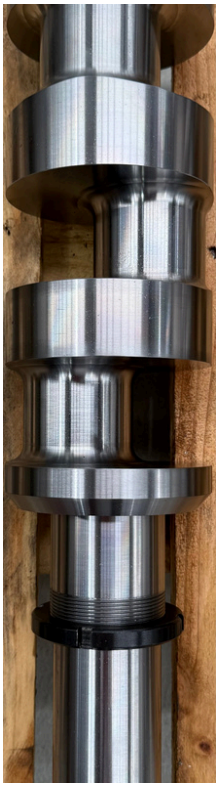
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CNC Precision Machined Parts 4/4









QUAD CHART

DRIVEN BY PRECISION. BUILT FOR PERFORMANCE.

High Speed Engineering specialises in the design, development and/or production of high-quality engineering components and precision parts through CNC machining, specialised engineering services, 3D printing and fabrication for all types of industries.

CAPABILITIES

Specialised Computer Numerical Control (CNC) Machining & Advanced Manufacturing.

Milling: 3, 4 & 5 Axis, including palletised machining
Turning: 3, Y, C & Dual Axis Lathes
Wire Cutting: 5 & 6 Axis Wirecutters, including Excetek V650G Plus
Gear Hobbing: 4 Axis CNC
Welding: Robotic MIG Welding ABB IRB & Laser Welding
Additive Manufacturing: FDM & Resin
Laser Cutting: Up to 25mm steel

DISCRIMINATORS

- ISO 9001, ISO 14001 & ISO 45001 certified
- Small business with high capability, capacity & flexibility
- Long-serving CNC machining specialists
- Modern, purpose-built manufacturing facility
- Established in 2002

KEY MARKETS

Local, National & International Reach.

- General engineering
- Mining
- Heavy rail
- Subsea
- Oil & Gas
- Scientific
- Valves
- Bespoke products
- Component repair
- Motorsport

STRATEGIC ADVANTAGE

- Technology and efficiency focused
- Capability for complex components
- Specialist and exotic material machining
- Broad in-house design & manufacturing capability
- Responsive, flexible project delivery

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Document Reference No. HSESCOPE 4.0 Version No. 2.0 Revision Date: 15/10/2026