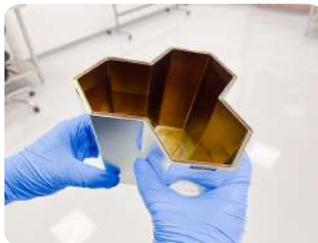


Leading **technology supplier** and **partner** to various industries, providing complex **manufacturing**, **engineering**, and **quality inspection** services.

rtc[®] Engineering is a technology company specializing in precise **engineering, manufacturing, testing, and integration** services. With a passionate team of over **140 experts**, we are at the **forefront of technological advancements** in diverse sectors to support our partners and customers.



COMPANY



RTC Engineering HQ in Trnava, Slovakia, Central Europe

Currently in **3 locations in Slovakia** we are building **No.1 Central Europe** full stack solution provider for most advanced organisations all around the world.

Headquarter: Vlárská 28, 917 01 Trnava, Slovakia
Number of Locations: 3
Turnover: 14 mil Eur 2023
Established: 2004
Number of employees: 140
Clean room - ISO8 (ISO4 under construction)

Certificates:
ISO 9001, ISO 14001, ISO 45001, EN 3843-2, EN 15 085-2

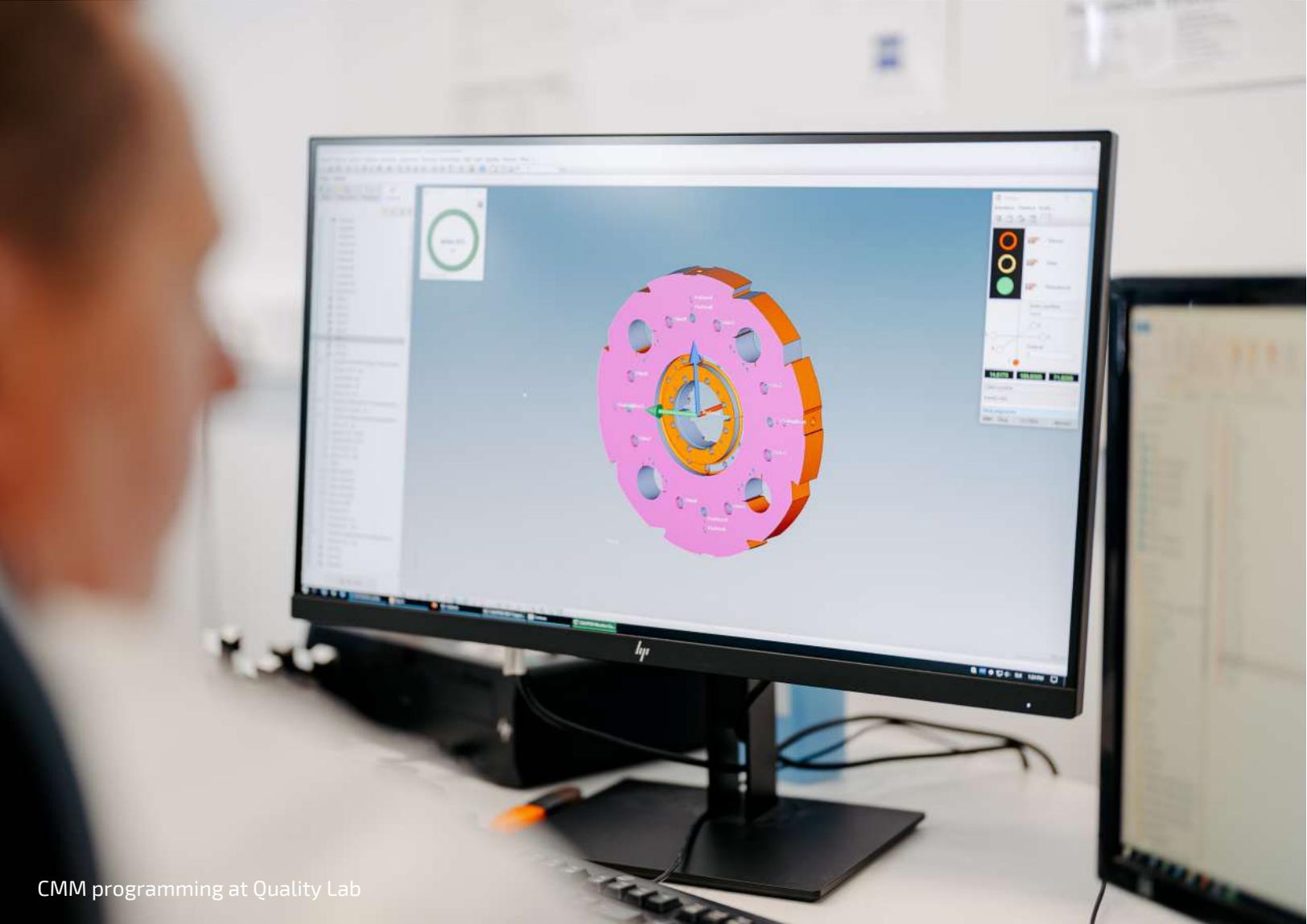


Selected References



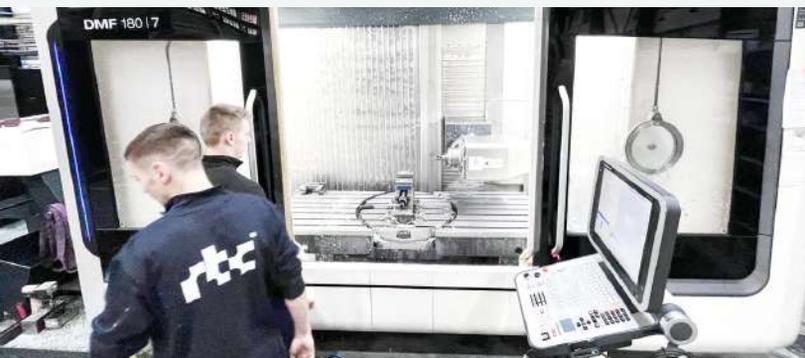


RTC Engineering production meeting room



CMM programming at Quality Lab

Providing **Complex** Services



Precise CNC Milling

14 x CNC machine
up to 800 x 800 x 2000 mm
8 x 5 Axis Milling machine

Precise CNC Turning

10 x Turning machine
Up to 3000mm length
Diameter Up to 1100mm



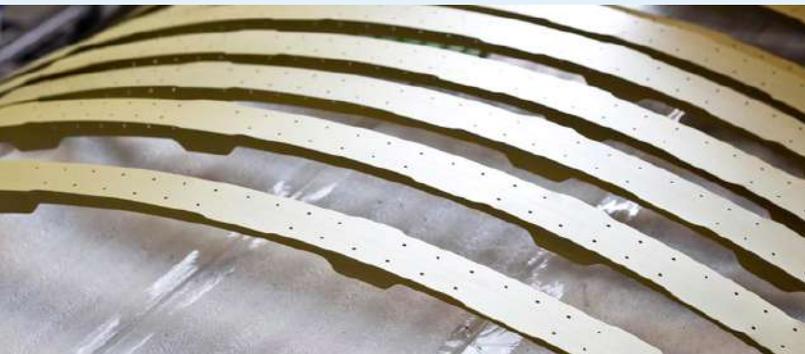
EDM Cutting

500 x 900 x 1100 mm work piece
2x machine



Flat & Round Grinding

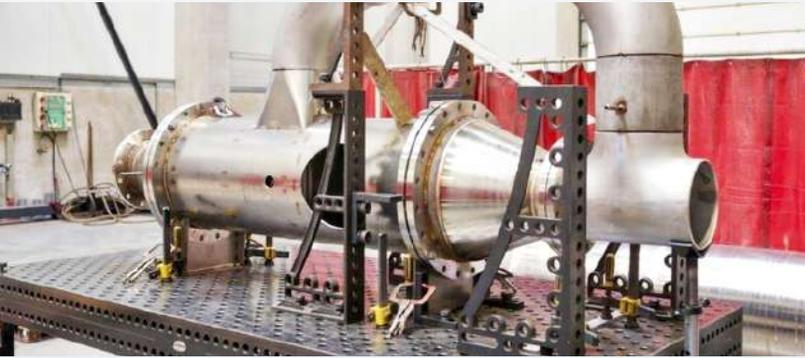
500 x 1200 mm Flat
ø 200 x 1000mm Round



Surface & Heat Treatments

Blasting, Colouring, Hardening,..

Providing **Complex** Services



TIG Manual & Orbital Welding
25x Welding Posts (8x Orbital welding)

MIG Welding
15x Welding posts
max 2000 x 2000 x 8000m up to 5 tons



Material Cutting
Laser cutting, Water Jet Cutting, Saws

Material Forming
Press break, tube bending, profiles forming.



Assembly & Testing
Complex mechanical, electrical, pneumatic, hydraulic.

Department of MACHINING

Technology	Number of Axis	Machine	Size	Year Of Manufacture
CNC Milling	5	Hermle C400	700 x 700 x 700 mm	2018
	5	Hermle C250	350 x 350 x 500 mm	2019
	5	DMG DMF 180	1800 x 650 x 650 mm	2021
	5	DMG DMU 75	650 x 650 x 650 mm	2022
	5	DMG DMU 75	650 x 650 x 650 mm	2022
	5	DMG DMU 75	650 x 650 x 650 mm	2021
	5	Doosan VC 630	650 x 650 x 650 mm	2016
	4	AVEA	1000 x 650 x 650 mm	2015
	4	Leadwell	1200 x 650 x 650 mm	2017
	3	Doosan M400	500 x 400 x 400 mm	2015
	3	Pinnacle	1000 x 700 x 600 mm	2022
CNC Turning	3	Doosan Puma	ø450 x 450 mm	2023
	2	Doosan Puma	ø450 x 450 mm	2015
	2	Doosan Lynx	ø350 x 450 mm	2016
	2	Leadwell	ø350 x 400 mm	2017
EDM	2	Fanuc C600iC	1050 x 820 x 300 mm	2023
Water Jet Cutting	2	Microstep Cut 2002	150 x 2000 x 6000 mm	2005
Grinding	2	Leadweel Round	ø150 x 800 mm	2015
	2	Leadwell Flat	400 x 800 mm	2023
Conventional Turning	2	SU 100	ø1100 x 2000 mm	2008
	2	TOS 18	ø500 x 1800 mm	2010
	2	TOS 18	ø500 x 1800 mm	2010
	2	TOS 18	ø500 x 1800 mm	2010

Department of QULITY INSPECTION

Technology	Number of Machines	Machine	Dimensions	Year Of Manufacture
CMM	1	Carl Zeiss Contura	1200 x 800 x 800 mm	2020
CMM	1	Carl Zeiss Duramax	500 x 500 x 500 mm	2022
CMM	1	Carl Zeiss Duramax	500 x 500 x 500 mm	2017
Measuring Arm	1	Hexagon Arm	ø3000 mm	2023
XRF Spectrometer	1	Olympus Vanta XFR	n/a	2022
Roughness Meter	2	Marh Roughness	n/a	2021
Contour Graph	1	Garant	up to 350 mm	2020
Helium Leakage Testing	1	Pfeiffer Vacuum	10x10-12 mbar.l/s	2022
Helium Leakage Testing	1	Pfeiffer Vacuum	10x10-12 mbar.l/s	2023

Complex Quality Services



CMM Dimensional Inspection

3 x CMM Carl Zeiss (max 1200 x 800 x 800mm)
XRF Material Analysis, Magnetic permeability measuring
NDT - Visual testing, Penetration Testing, Ultrasonic Testing, Infrared Thermography
SEM Analysis, Material Testing Electrical & Magnetic Fields measuring, XRF Spectroscopy
Helium Leak Testing, Pressure Testing Incoming
Complex Quality & Control processes
ISO 9001, ISO 14001, ISO 45001, ISO 3834-2, ISO 15085-2, ISO 9100 (Under certification)



Hexagon Arm Laser Scanning

Hexagon Measuring & Scanning Arm (ø3000mm max range)
XRF Material Analysis, Magnetic permeability measuring
NDT - Visual testing, Penetration Testing, Ultrasonic Testing, Infrared Thermography
SEM Analysis, Material Testing Electrical & Magnetic Fields measuring, XRF Spectroscopy
Helium Leak Testing, Pressure Testing Incoming
Complex Quality & Control processes



Helium Leak Testing & Pressure Testing

Helium Leak Testing, Pressure Testing Incoming
NDT - Visual testing, Penetration Testing, Ultrasonic Testing, Infrared Thermography
Complex Quality & Control processes
ISO 9001, ISO 14001, ISO 45001, ISO 3834-2, ISO 15085-2, ISO 9100 (Under certification)



Visual Inspection

NDT - Visual testing, Penetration Testing, Ultrasonic Testing, Infrared Thermography
Complex Quality & Control processes
Independently Certified Internal Experts
ISO 9001, ISO 14001, ISO 45001, ISO 3834-2, ISO 15085-2, ISO 9100 (Under certification)



Material analyses

XRF Material Analysis, Magnetic permeability measuring
SEM Analysis, Material Testing Electrical & Magnetic Fields measuring, XRF Spectroscopy
Magnetic Permeability testing



NDT Full Stack Inspection

NDT - Visual testing, Penetration Testing, Ultrasonic Testing, Infrared Thermography
Complex Quality & Control processes
Independently Certified Internal Experts
ISO 9001, ISO 14001, ISO 45001, ISO 3834-2, ISO 15085-2, ISO 9100 (Under certification)



SEM Analysis

Scanning electron microscope analysis, structural analysis, bonds and material chemical composition analysis

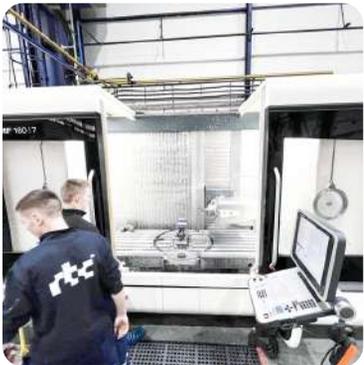


CAD/CAM programming at CNC Division



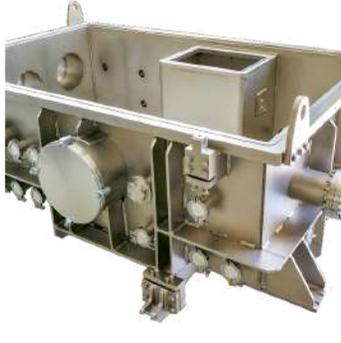
CNC DMG 5 Axis Milling





PRECISE CNC MANUFACTURING

- More than 40 Precise Machines
- **+16 CNC machines**
- **5 axis Hermle, DMG Machines (8pcs)**
- **CNC Turning, Conventional Turning**
- **EDM Cutting, Flat Grinding, Round Grinding**
- Full spectrum of **Heat & Surface Treatments**
- Contamination **Protection - Clean Machining Environment**
- Precision up to **0,005mm**
- Max. Turning - **ø1100mm, length 3000mm**
- Max. Milling - **800 x 800 x 1800 mm**
- **3 x CMM measuring machine**
- Materials: **Ti, W, Inconel, Stainless Steel, Plastics, Mo, TZM, Aluminium, Ni,..**



BONDING & WELDING

- 10 x Orbital TIG Welding Station + 15 x Manual TIG welding post
- 20x MIG Welding Facility - Weldments up to 5000kg
- Electron Beam Welding & Laser Beam Robotic Welding
- Separate Facility for Clean Aluminium, SS, Ti Welding
- Sandblasting, Wet Colouring, Powder Coating
- Certification EN 3834-2, EN 15085-2, WPQR, WPS
- NDT - Visual testing, Penetration Testing, Ultrasonic Testing
- Infrared Thermography, SEM Analysis, Material Testing
- XRF Material Analysis, 5 PPM oxygen level controlled environments
- Helium Leak Testing, Pressure Testing
- Vacuum Brazing & Diffusion Bonding
- Expert Project Management - 100% traceability, Marking



CNC 5 Axis Milling at Protective Environment

rtc Engineering

Stainless Steel Glass Blasting Box



OUR FUNDAMENTS



Quality

Less than 0.05% of deliveries receive complaints. About 10% of our staff work in the Quality Department.



On Time Delivery

In 2023, the on-time delivery performance was 98.2%, and the delivery performance within an additional 5 working days reached 99.8%



Complexity

We offer Full-Stack services, including Mechanical and Electrical Engineering, Precision Manufacturing, Inspection Testing, and Assembly.



Flexibility

We are capable of producing quantities ranging from 1 to hundreds. We can maintain a safety stock for customers, keeping a 2-3 week production lot in reserve, which allows us to offer a lead time of just 2-3 days in case of need.



Reliability

We are committed to fostering long-term partnerships that span years or even decades, as this approach is fundamental to how we operate.



Investments & Improvements

Every year, we invest between 5-10% of our resources into new technology and process improvements.

20
Years

Experience

We have over 20 years of experience in special Mechanics & Mechatronics.

100%
Traceability

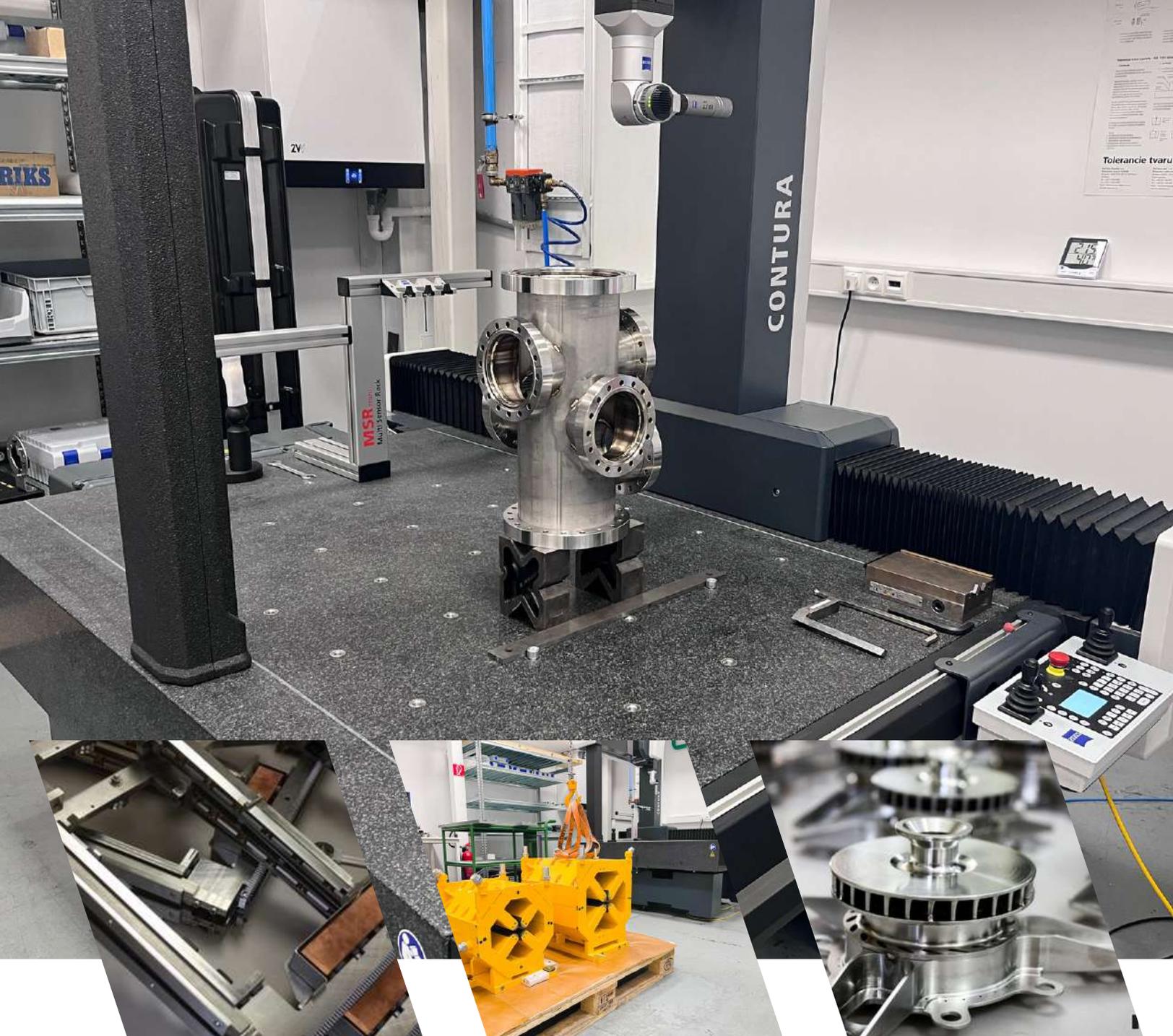
Project Engineering

Every project has its own project engineering team, which ensures the flow of information, project tracking, change management, and traceability.



Costs Efficiency

As a "full-service" organization, we have good control over quality, lead time, and costs, which we are constantly striving to optimize in order to be more competitive and the first choice for our partners.



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