LPM-RIVAL

MACHINE PARK 2025

Advanced Automated Manufacturing

RIVAL A/S | Svejstrupvej 23 | 8660 Skanderborg | CVR-nr. 46 29 38 19 LPM Production A/S | Energivej 34 | 6870 Ølgod | CVR-nr. 32 83 00 80

Advanced technology

At LPM-RIVAL, we combine an advanced machine park with the best people to operate it. Our continuous investments in advanced technology, automation, and digital solutions are matched by the skills and dedication of our employees.

This synergy allows us to machine critical and costly components with exceptional precision — from prototypes to large-scale series — and deliver them on time, every time.

In this document, you can find an overview of all our machines available on our locations in Ølgod and Svejstrup along with what we can deliver within each of our key categories:

1. Turning & multitask machining
2. Swiss turning
3. Milling & 5-axis machining
4. CNC centres
5. Robotics and automation
6. Assembly
7. Quality assurance
8. Support systems

Turning & multitask machining

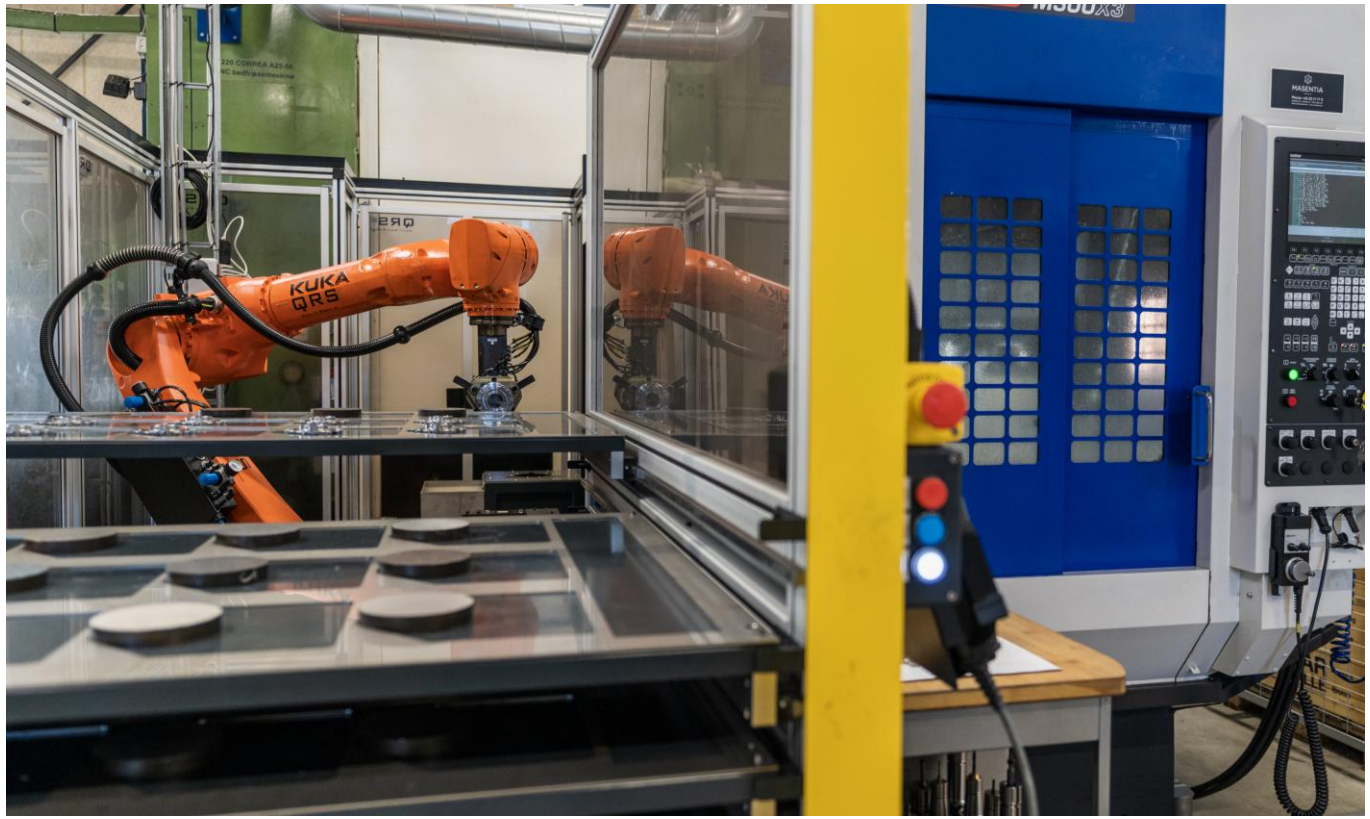
LPM RIVAL

Our multitasking turning centres handle complex geometries with precision and efficiency. By combining multiple operations in a single setup, we reduce lead times and deliver high-quality components across industries.

What we deliver

- Reduced setups for faster production of **parts up to Ø450 mm, lengths up to 1.500 mm.**
- High precision for critical components **(up to ±0.005 mm)**
- Automated operations for consistency and throughput
- Flexible production of short to long components, **from 50 mm up to 1,500 mm in length**

Machines in this category (16 in total)	
3 x DMG MORI CLX 450 TC (with KUGA robot cells)	Mori Seiki SL45
DMG MORI NTX 2500/1500 with KUGA robot	Mori-Seiki ZL-15S
DMG MORI SEIKI SL35MC	4 x Traub TNX 65-42
Gildemeister CNC Fef1020	Victor Vturn CNC
Mazak Integrex i400	
Mori Seiki SL15	
Mori Seiki SL-25	



Swiss turning

Swiss-type lathes produce long, slender, high-precision parts efficiently.

What we deliver

- High-precision turning for slender components, **Ø1-Ø42 mm., lengths 0,1 - 1500 mm.**
- Reduced setups for complex parts
- Flexible production from prototypes to series
- High-volume, repeatable output

Machines in this category (22 in total)	Size Ø max
1 x Star SR10J Type C	Ø10
3 x Star SR20J Type C	Ø20
8 x Star SR20J II Type B	Ø20
5 x Star SR32J	Ø32
1 x Star SR32J II Type B	Ø32
4 x Star SR38 Type B	Ø42

Milling & 5-axis machining

Our 5-axis machining centres provide precision, flexibility, and efficiency for complex parts. Full automation reduces setups and ensures consistent quality for critical components.

What we deliver

- High precision and repeatability for critical parts **(tolerances down to ±0.005 mm)**
- Complex geometries in a single setup, **for parts up to Ø2,000 mm / lengths up to 4,300 mm**
- Capability to handle very large and heavy components, **up to 10,000 kg**
- Flexible production from prototypes to series, supporting small runs to high-volume production of both small and large components

Machines in this category (27 in total)	
DMG MORI DMU 200 Gantry	Kiheung KNC-RT1000
DMG MORI DMG 95	Kiheung KNC-U1000
DMG MORI DMC 80 FD duoBLOCK	Mazak FH8800 (Horizontal)
DMG MORI DMU 75 monoBlock (incl. PH Cell)	Mazak FH6800 (Horizontal)
DMG MORI DMU 75	Okuma MU-6300V m/7 paletter
DMG MORI DMU 65 monoBlock + PH Cell	Okuma MU-5000 V
DMG MORI e-Vo 60D	9 x Okuma Genos MU-560VA
DMG MORI CMX 50 U	Okuma Genos MU-460VA
FH Zimmermann	Okuma MU-400VA
Matsuura MAM72-35VYC	

DMU 200 Gantry

- Handles extra-large parts up to **4,300 × 2,000 × 1,250 mm / 20,000 kg**
- High-performance 5-axis milling with spindles up to **20,000 rpm**

CNC centres

Our vertical and horizontal centres handle both small and large series efficiently, ensuring high-precision production of prismatic components.

What we deliver

- Efficient milling for small to medium-sized components, **up to Ø1250 × 5000 mm**
- High rigidity and thermal stability for consistent quality
- Optimized for medium- to high-volume production
- Flexible setups for various materials and shapes

Machines in this category (14 in total)	Max sizes
CNC Horizontal Centres, • Mazak FH6800 • Mazak FH8800	1.100 x 1.100 x 1.200 mm.
CNC Vertical Centres • HAAS MiniMill • 5 x Okuma Genos M560-V-e • 2 x YCM NSV102A • Brother M300X3 Speedio • Okuma MB80	1.250 x 630 x 700 mm.

Robotics & automation

Our integrated robotics and automation systems increase efficiency, reduce manual handling, and ensure consistent quality. They allow for full-automatic production of critical components.

What we deliver

- Automated handling for faster production
- Increased repeatability and process reliability
- Reduced human intervention and risk of error
- Scalable solutions for prototypes to high-volume runs

Machines in this category (12 in total)
3 x Kawasaki robots
3 x PH-cell integrations with DMU machines
5 x KUKA robots
1 x Universal robots (UR10)

Assembly

Our assembly department ensures that critical components are delivered as ready-to-use solutions. By combining precision machining with skilled manual and robotic assembly, we help customers shorten lead times and reduce handling in their own production.

What we deliver

- Assembly of mechanical sub-systems and finished units
- Welding and joining processes (manual & robotic)
- Testing and verification of functionality
- Delivery of components ready for integration in customer projects

Resources in this category
Welding stations (manual & robotic)
+1.600m^2 space dedicated to assembly

Quality assurance

We ensure the highest quality standards with state-of-the-art measuring and inspection equipment. Our specialized resources guarantee precise verification for critical components.

What we deliver

- High precision and repeatability
- Efficient production for medium-sized components
- Flexible machining capabilities for multiple materials
- Reliable performance across varied production runs

Systems in this category	Description
ZEISS CONTURA 6206	Measures components up to 1.200 x 2.400 x 800 mm.
ZEISS CONTURA 6206	Measures components up to 1.200 x 1.800 x 800 mm.
ZEISS CONTURA G2	Measures components up to 1.000 × 1.600 x 600 mm.
ZEISS CONTURA G2 RDS	Measures components up to 1.000 × 1.200 x 600 mm. with rotary head
ZEISS DuraMax	Measures components up to 500 × 500 x 500 mm.
WENZEL WACE+	Measures volume up to 1.250 mm. radius.

ZEISS CONTURA 6206

- High-precision 3D measurement of components up to 1.200 × 2.400 x 800 mm.
- Flexible inspection with advanced CAD-based measurement software.

Support systems

These systems support our core machining by preparing raw materials, creating prototypes, ensuring surface quality, and digitally controlling every step of the process.

What we deliver

- Digital precision from design to machining with advanced CAD/CAM software
- Efficient raw material preparation through high-capacity sawing systems
- Complex geometries and hard materials processed with spark erosion (EDM)
- High-quality finishing and surface accuracy with grinding and screening

Systems in this category	Description
Software (SOLID EDGE CAD, GIPPS, MASTERCAM, ESPRIT CAM)	Advanced design and CAM systems securing digital precision from design to machining.
Charmilles Spark Eroding (EDM)	Processes very hard or complex geometries with electrical discharge machining (EDM).
Bandsaws (BIANCO, KASTOwin, BEHRINGER, FORMAT4 Circular Saw, Cosen G320-SNC-100)	High-precision cutting of raw material into exact sizes.
Flatgrinder (GERH 50)	Achieves smooth and accurate surface finishes.
Screening machine	Ensures clean and accurate material preparation.
3D Printers (Bambu Lab)	Fast prototyping and support tooling in durable plastics.