

LBR



LBR. *one*

MANUFACTURING WITHOUT SPECIALISTS

The first smart Machining Center for Rapid Prototyping.



OUR VISION

AI-ASSISTED MANUFACTURING WITHOUT SPECIALISTS

Our intelligent plug-and-play machining center enables companies to set up their own manufacturing - without skilled personnel and with full supply chain sovereignty. From prototype to small batch production

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04

OPERATIONS
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HIGHLY COMPACT

Industrial 5-axis machining center in size of the fridge.



INTUITIVE

AI-assisted control enables manufacturing without specialists.

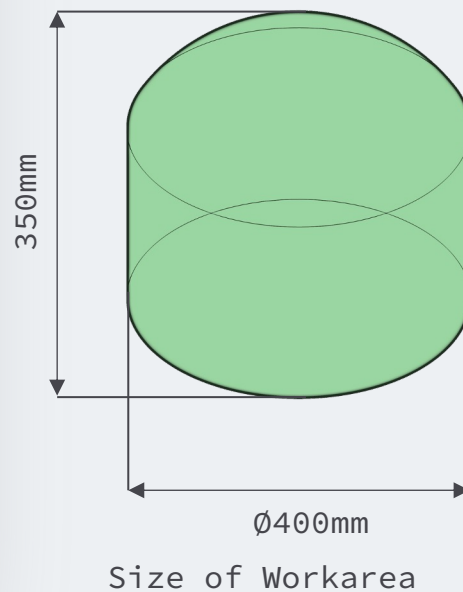
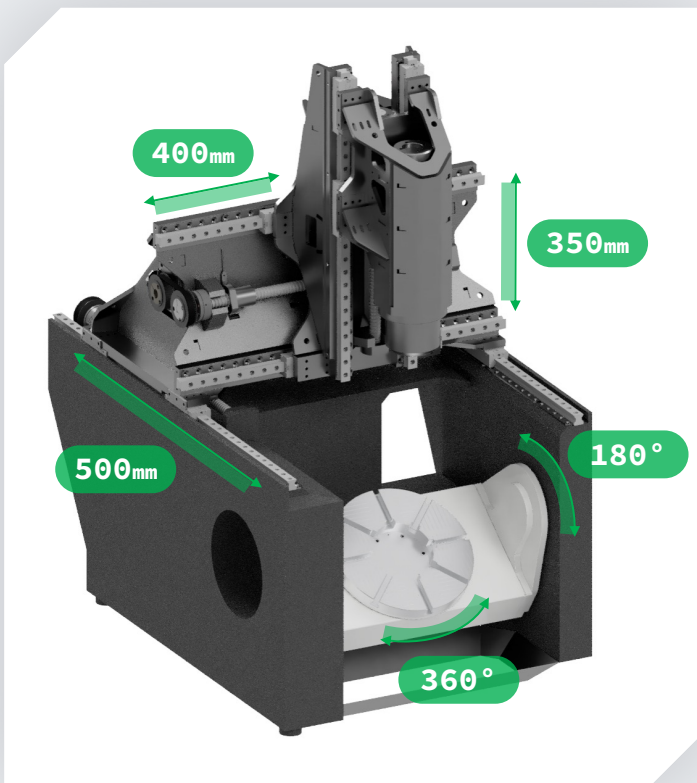
OVERVIEW



The LBR.one combines precision, flexibility, and ease of use for automated manufacturing in the smallest space.

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- ✓ **Compact** - 1 m² footprint, 80 cm wide, 5-axis machining.
- ✓ **Maintenance friendly** - Slide-out cooling and chip system.
- ✓ **Portable** - Integrated guides, Euro pallet dimensions.
- ✓ **Ready to go** - Autonomous operation, web-based controls.

03

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MATERIALS



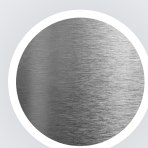
Plastics



Aluminium



Steel



Stainless Steel



Titanium

04

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THE MACHINE

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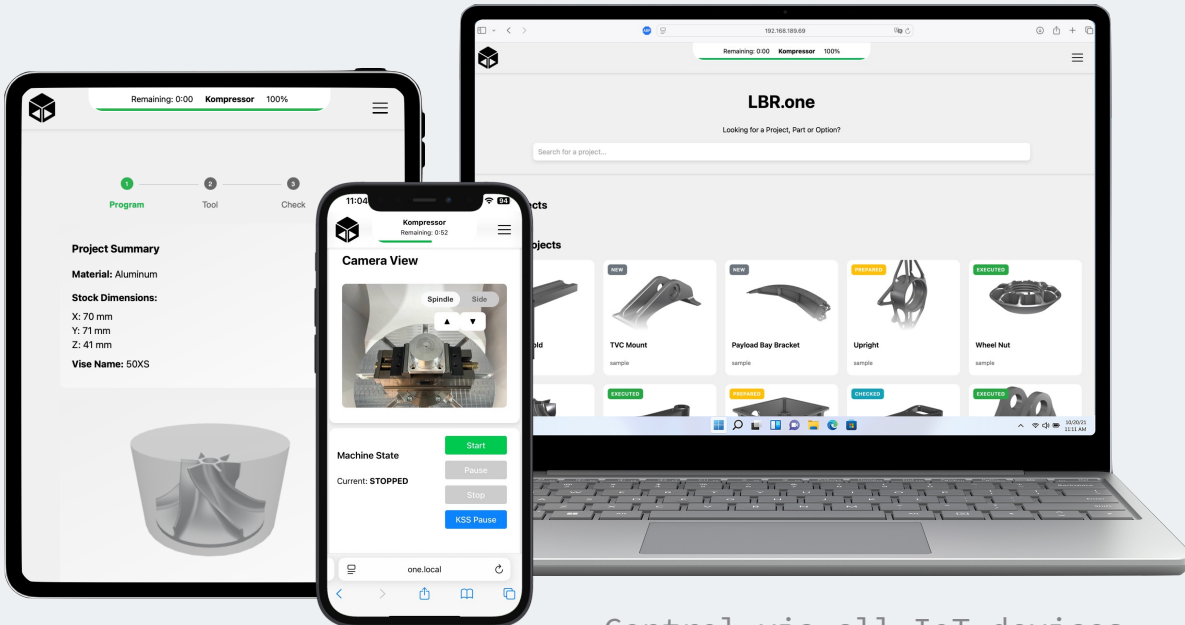


1
Integrated guide tunnels
Enable fast transport
using **pallet jacks** and
forklifts.



2
All-in-one machine, designed
even to fit through office
doors, includes **integrated
coolant system** and **tool
changer**.

THE SOFTWARE



Control via all IoT devices



MODERN USER INTERFACE

Say goodbye to outdated interfaces – our intuitive software provides smart operation, with AI support.



CLEAR FOCUS

No cluttered screens – structured and user-friendly display of relevant information.



SEAMLESS DATA TRANSFER

Thanks to smart connectivity, USB sticks are a thing of the past – files can be transferred directly between machining center and PC.

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APPLICATIONS

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INHOUSE FERTIGUNG



RESEARCH & DEVELOPMENT

Whether **prototyping, research, or small-scale production** – LBR.one brings manufacturing processes directly into your company. No specialists, no external suppliers, no long wait times.

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Thanks to the **modular plug-and-play concept** and our unique **rental model**, manufacturing can be scaled as needed.

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Vision of modular production

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Plastics



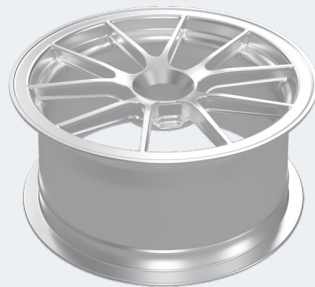
Paddle shifter

01

VISION
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Aluminium



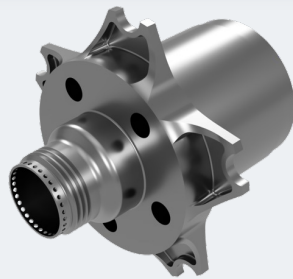
Car rim

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Steel



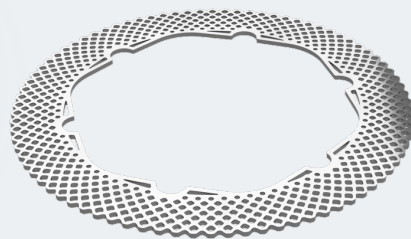
Wheelhub

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Stainless Steel



Brake disc



Titanium



Bracket Payload
Bay Door

04

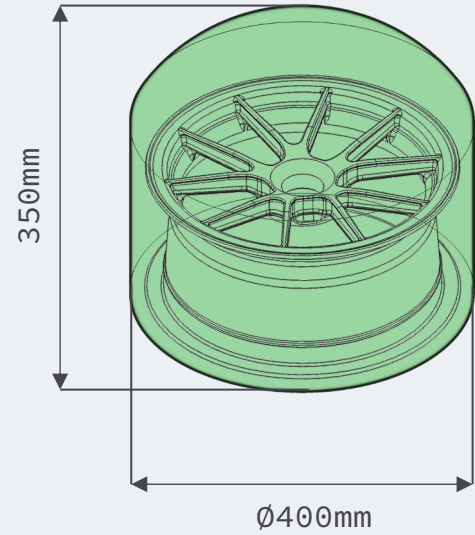
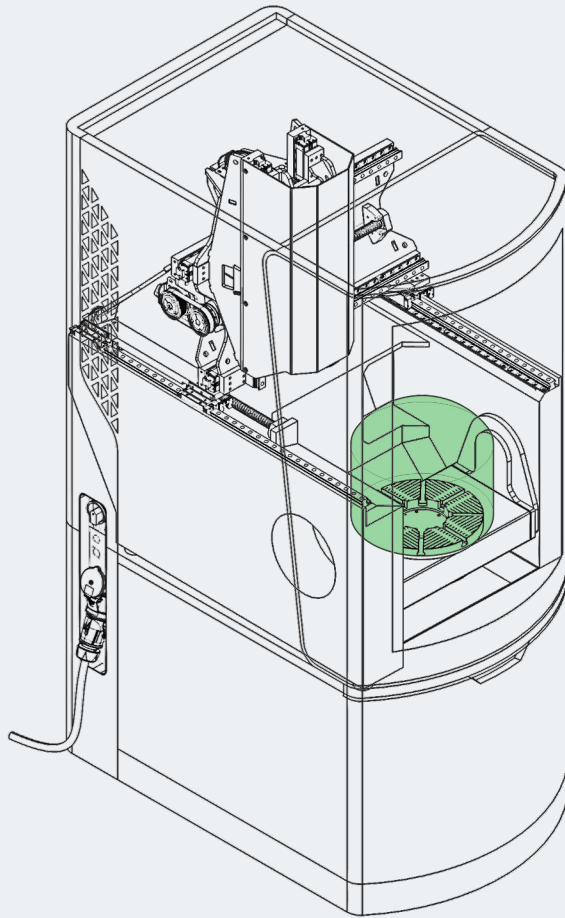
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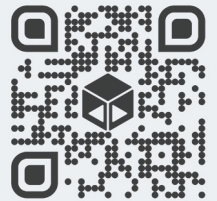
FEATURES

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More information
available on the
website



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TECHNIK
MASCHINE
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ANWENDUNG
BEISPIELE

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Dimensions (L W H)	1350 x 800 x 1980mm
Weight	ca. 1.500 kg
Machine table	With integrated T-slots and zero-point clamping system
Travel paths (X Y Z)	400 x 500 x 350mm
Work area (Ø H)	Ø400 x 350mm
Spindel power	17kW (S6) with 30.000 rpm
Spindel camera	2 megapixel with self cleaning
Process monitoring	Vibration speed sensor and force measurement technology
Feed rate	30m/min
Tool changer	80 slots with HSK-E 40 holders
Control terminal	27" Multi-Touch Display
Power connection	32A CEE three-phase current
Coolant System	Approx. 80L
Chip bin	Approx. 60L
Compressed air	Energy-efficient integrated air supply units

All information are subject to change, as of March 2025

PLUG-&-PLAY



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MILLING AS EASY AS 3D PRINTING

Plug-and-play, ready for immediate use, and individually scalable, with flexible rental and purchase options.



Flexible scaling & interconnection of multiple machines.

04

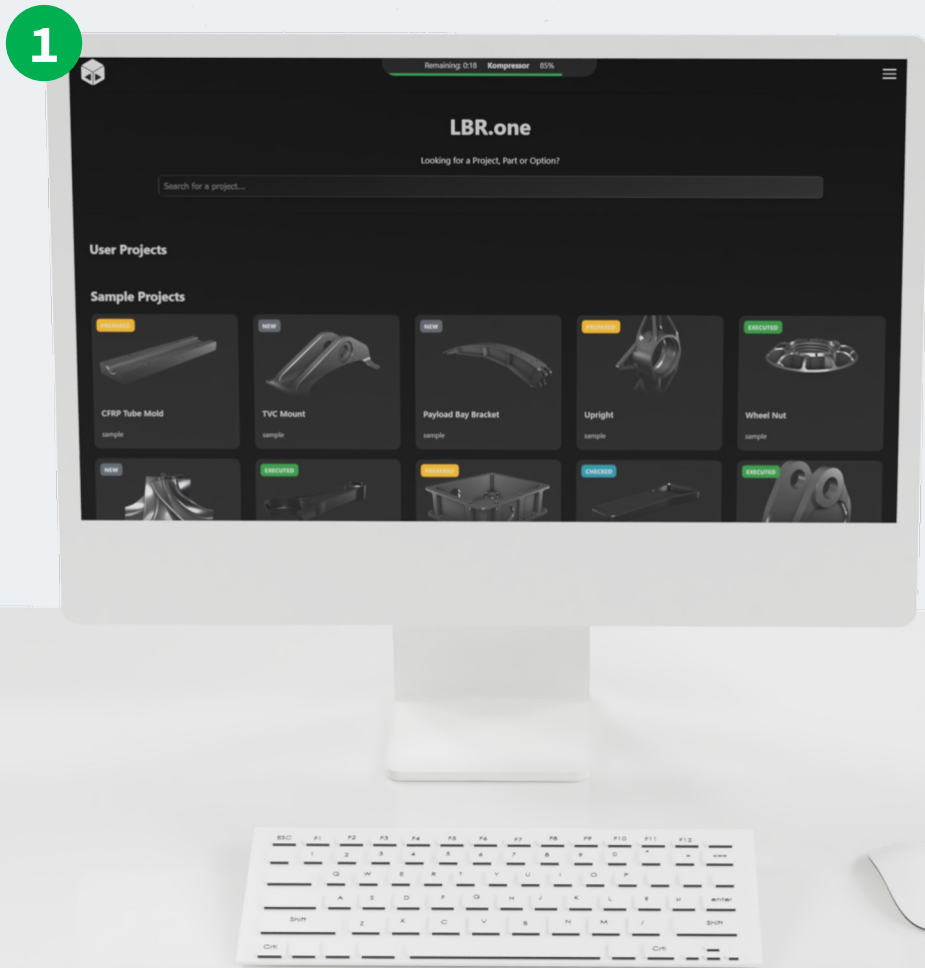
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CONTROLS

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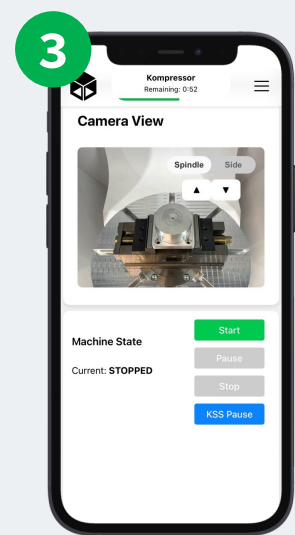
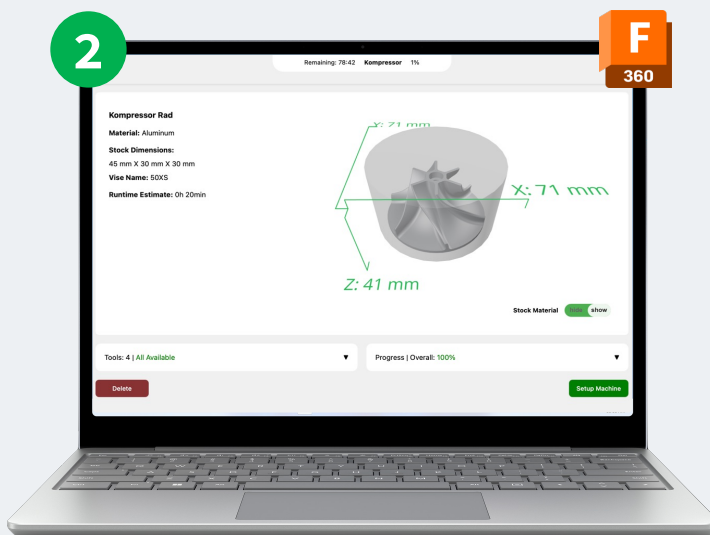
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IN JUST 3 CLICKS TO THE FINISHED PART

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Simply transfer files via **drag & drop** or our **Autodesk Fusion add-in** to the machining center and Confirm the setup and tools.

Augmented Reality then helps position the part inside the machine.

04

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SYSTEMS



Integrated coolant system



Automatic tool
changer



Only three-phase
connection required

The **coolant system** ensures continuous process cooling, while the tool changer with **80 positions** allows smooth operation. Thanks to **integrated compressed air units**, the machining center remains completely autonomous.



Tool magazine with 80 slots

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LBR Engineering UG



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