



**EFFICIENT HANGAR SOLUTIONS
THROUGH INNOVATIVE
TECHNOLOGY**





Max Performance – Total Flexibility

LIGNA Aviation is redefining hangars – with a clear focus on efficiency, design, and sustainability.

As a **brand of LIGNA systems GmbH**, we combine our passion for modern timber construction with smart technology for general aviation. Our solutions are born from real-world aviation needs – thoughtfully engineered, functional, and architecturally refined. At the core lies one guiding idea: Less hassle on the ground. More freedom in the air. Choose hangar technology that optimizes space, simplifies operations, and sets new standards in design.

More flight time – less repositioning effort

AEROdisc



AEROdisc Turntable

For fast entry & exit.

The AEROdisc turntable allows quick parking in and out of your aircraft, up to 2 tons in weight without having to move others.

- ✓ Single-operator functionality
- ✓ Optimizes your hangar space
- ✓ Minimal risk of hangar rash

AEROGate



AEROGate Liftingdoor

Maximum space, minimal restrictions.

Easily transport aeroplanes and aircraft outside. AEROGate is an automated hangar lift gate with a span of up to 30 metres. Up to 9 metres in height.

- ✓ Hydraulic opening without floor rail
- ✓ Ideal for new builds and retrofitting
- ✓ Aesthetic, robust & low-maintenance



AEROGate

MAXIMUM UTILIZATION OF HANGAR WIDTH LIFTING DOORS

Our AEROGate lifting doors guarantee maximum flexibility without compromise. The doors allow full utilization of hangar widths, up to 30 meters, and heights of up to 9 meters.

The door panel is attached on both sides to robust steel pivot arms and rotates around an inward-offset axis during opening. This rotation moves the door 90 degrees to the ceiling. When open, one-third of the door panel remains inside the hangar, while two-thirds extend outward as a canopy. The drive is powered by hydraulic cylinders.

The design requires no rollers or hinges, and the simplicity of the system ensures high durability, maximum safety, and near maintenance-free operation. The exterior of the door panel is typically made of sandwich panels or translucent polycarbonate sheets.

A major advantage of our lifting door system is its ease of retrofitting into an existing hangar, as the heavy door's statics are independent of the building structure. This eliminates the need for extensive structural modifications.

FEATURES

- ✓ **Up to 30 meters wide**
- ✓ **Up to 9 meters high**
- ✓ **Hydraulic drive**
- ✓ **Simple mechanics**
- ✓ **Low maintenance**
- ✓ **No floor rails**
- ✓ **Independent of roof structure**
- ✓ **Minimal lateral space requirements**

AEROGATE



Maximum span, minimal limitations.
Ideal for both new constructions and retrofits.





AEROdisc

THE TURNTABLE FOR SWIFT ENTRY AND EXIT

SEAMLESS AIRCRAFT MANEUVERING WITHOUT OBSTACLES

The AERODisc turntable enables smooth and effortless positioning of your aircraft. This circular parking system is specifically engineered to accommodate planes weighing up to two tonnes. With the AERODisc, you maximize your hangar space and can move any aircraft safely and effortlessly out of the hangar.

EFFORTLESS OPERATION

A PUSH OF A BUTTON IS ALL IT TAKES

The innovative single-operator control makes handling remarkably easy. Powered by a high-performance electric motor with friction drive and intuitive remote control, the turntable moves smoothly and with precision. All parking positions become equally accessible, while staggered placement of high- and low-wing aircraft ensures optimal use of available space.

KEY ADVANTAGES AT A GLANCE

- ✓ Pilots can manoeuvre their aircraft independently, without relying on ground personnel.
- ✓ No need to reposition other aircraft during entry or exit.
- ✓ Risk of hangar rash is reduced to an absolute minimum.
- ✓ Every parking position holds equal value and accessibility. Expansive apron areas and full-width hangar doors become unnecessary.



INSTALLATION & REQUIREMENTS

FAST AND EFFICIENT

INSTALLED IN JUST ONE DAY

With a range of standard sizes and customizable options, we install your turntable—following prior planning—within a single day.

The turntable features a circular platform made of 40 mm multi-layered wood and is designed to withstand a point load of one tonne. Its modular construction allows for quick and easy disassembly if needed. The system is maintenance-free, with only the friction drive considered a wear part.

FLEXIBLE INSTALLATION

AERODISC – ADAPTABLE TO ANY FLOOR SURFACE

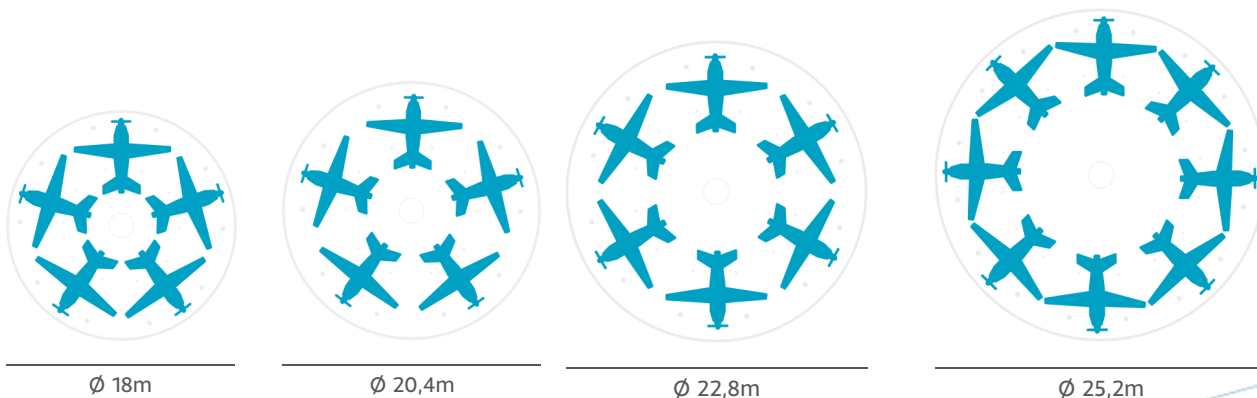
Whether for new builds or retrofits: the AERODisc fits almost any hangar. With a low profile of just 6 cm, it can usually be installed without structural modifications – saving both time and cost.

All that's needed is a 16 A / 400 V power connection and ideally a smooth concrete floor. For asphalt or paving stones, we offer tailored solutions. A flush-mounted installation is also possible with a 6 cm recessed foundation.

INDIVIDUAL SIZES

STANDARD OR CUSTOMISED DIMENSIONS

The system is offered in four standard sizes (18 – 25.2 m), with the option for customized dimensions.



ENGINEERED TO THE FINEST DETAIL

FUNCTIONAL AND INNOVATIVE



60 MM STRUCTURE

The turntable is built with birch plywood panels and has a slim profile of just 6 centimetres.



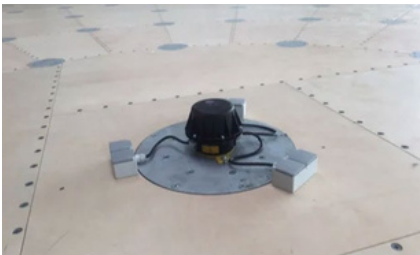
RAMP

A custom-made, sturdy ramp – e.g. made of tread plate/aluminium – ensures a safe manoeuvring.



FRICTION WHEEL DRIVE

A soft-starting electric solid rubber friction drive turns the turntable in both directions.



CENTRAL SOCKET

A current feed-through with a brush enables the installation of numerous sockets on the turntable



REMOTE CONTROL

The parking system can be controlled via a battery-operated remote control.



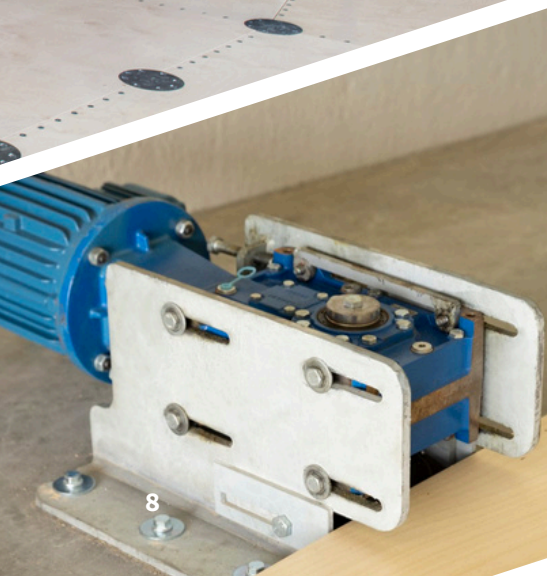
SURFACE

A resilient lacquer or an optional epoxy coating not only guarantees a glossy finish but also enhances its durability.

AEROdisc



Everything fits.
Effortless entry and exit at
the push of a button.





LET'S BRING YOUR VISION
TO LIFE, TOGETHER.

GET EXPERT ADVICE NOW – WE'LL FIND THE
PERFECT SOLUTION FOR YOUR HANGAR.



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