

Goldhofer



»ATLAS« 2

THE ONE WHO MAKES THE DIFFERENCE



GOLDHOFER'S ALL-ELECTRIC TOWBARLESS GATE OPERATION TRACTOR



»ATLAS« 2

DESIGNED FOR THE DEMANDS OF TOMORROW

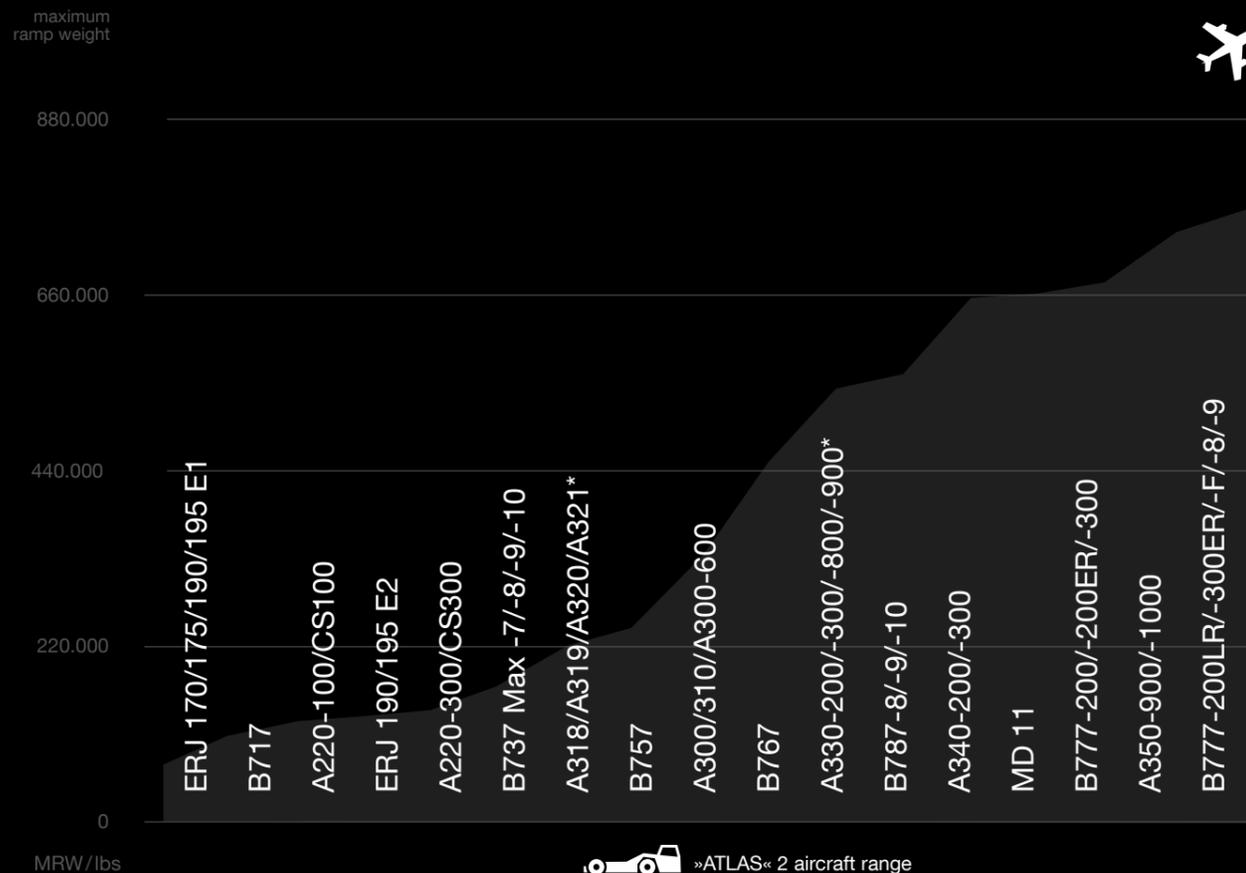
The »ATLAS« 2 is a fully electric pushback tractor that challenges the conventional towbar gate tractor. Based on Goldhofer's well-established »PHOENIX« product line, the »ATLAS« 2 is optimized for gate operation tasks. Its ability to handle the same wide range of aircraft types as the »PHOENIX«, as well as allowing multiple gate operation and inter-gate towing. Combining zero-emission electric performance with unmatched versatility, »ATLAS« 2 sets a new benchmark in ground handling efficiency and innovation.

In terms of safety, the »ATLAS« 2 eliminates the need for a towbar, significantly reducing the risk of operational errors. This means no shear-pin breakages, no towbar misalignment, and most importantly, no aircraft damage due to incorrect handling—making it a safer and more reliable solution for modern airport operations.

AIRCRAFT RANGE.

»ATLAS« 2 CAN HANDLE A WIDE AIRCRAFT RANGE

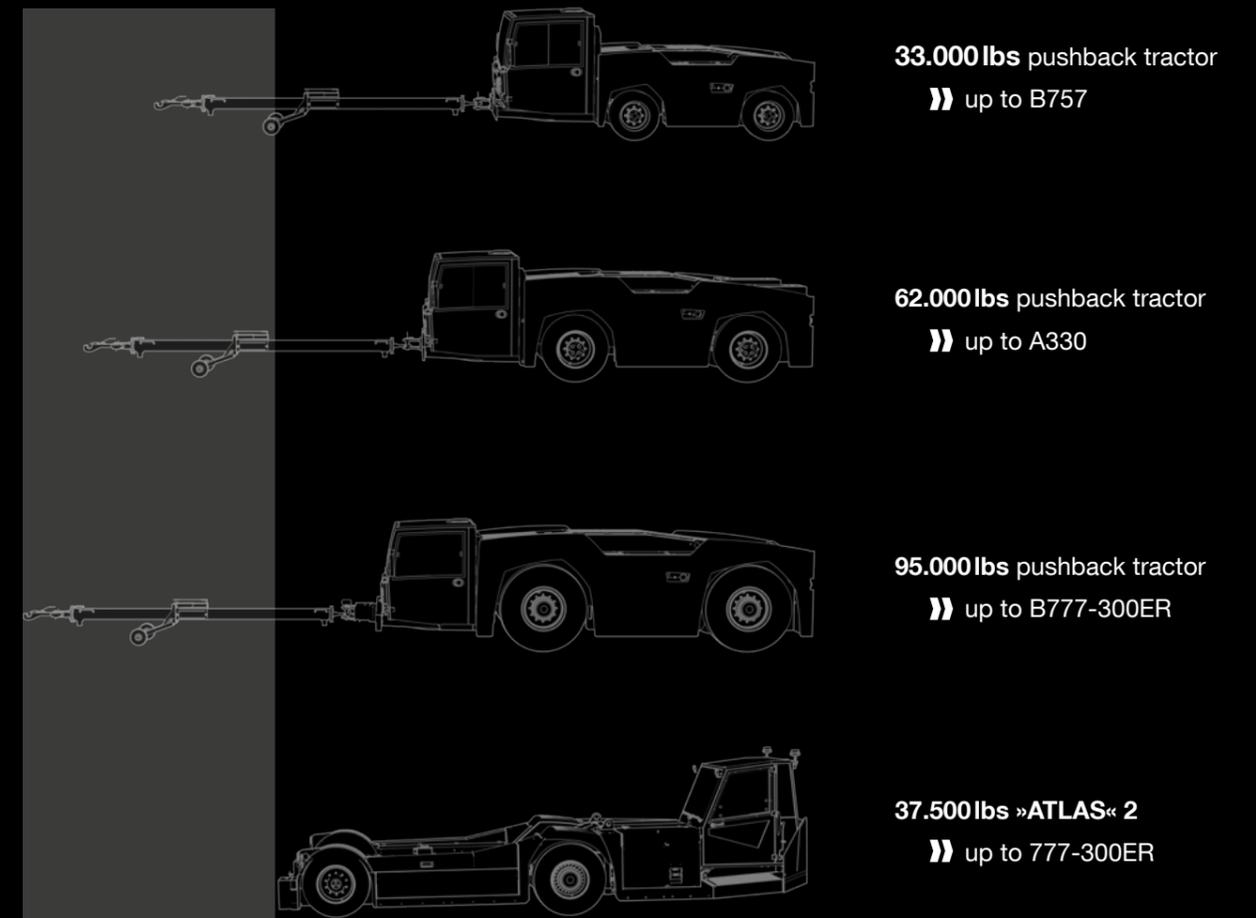
ERJ 170 all the way up to B777 - no problem for Goldhofer's all-new gate tractor. The »ATLAS« 2 offers unmatched operational flexibility by covering a wide aircraft range - from small narrowbody jets to large widebody aircraft - enabling efficient, single-vehicle handling for nearly all gate operations.



⁽¹⁾ Incl. Neo versions

DIMENSION COMPARISON

With its compact design, exceptional maneuverability, and ability to handle nearly all aircraft types at the gate, the »ATLAS« 2 replaces multiple conventional vehicles and towbar systems - accelerating processes, eliminating unnecessary trips, improving visibility, and enhancing safety for personnel, aircraft, and surrounding equipment.



EFFICIENCY PERFECTED.

CONFIGURATIONS

PERFORMANCE PRESERVED

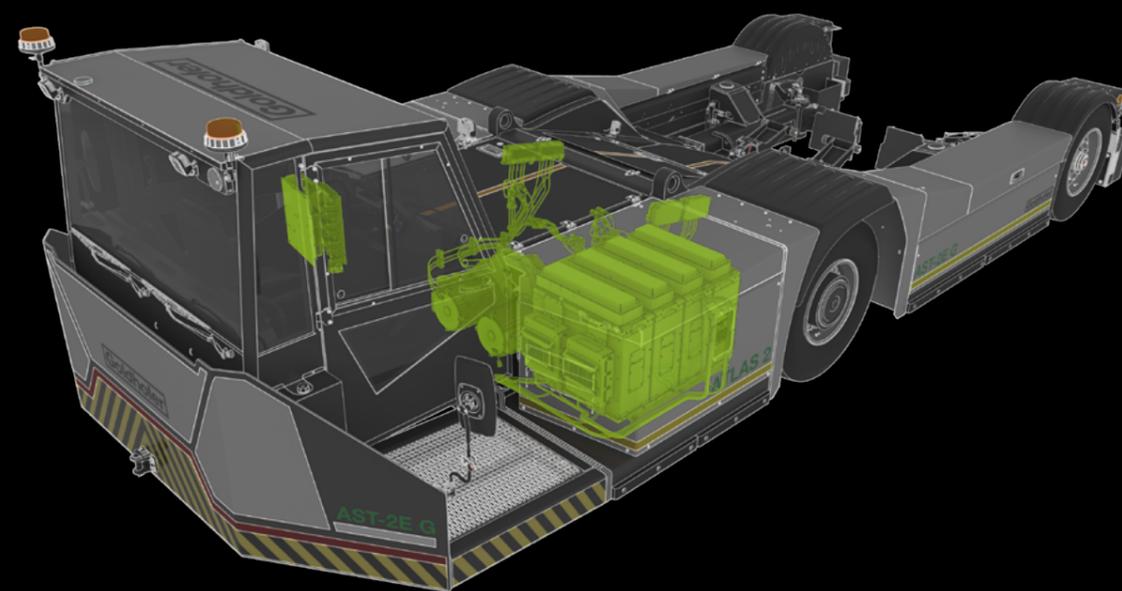
With the new Goldhofer »ATLAS« 2, every detail reflects a relentless focus on efficiency - from streamlined development to intelligent design. Engineered without compromise, the »ATLAS« 2 delivers powerful, energy-efficient performance for gate operations. By maximizing output while minimizing energy consumption, it sets new standards in sustainable and economical ground handling.

HIGH-PERFORMANCE 96-VOLT ELECTRIC DRIVETRAIN

- » Fully electric drivetrain without hydrostat - for maximum efficiency and optimal energy conversion
- » Optimized for use (lower operating costs)
- » Compatible with extensive existing charging infrastructure
- » Designed for maximum reliability with minimal maintenance requirements
- » No special high-voltage training for personnel needed

ALWAYS AVAILABLE - REDUCED DOWNTIMES

- » Reliable standard components with a proven track record across multiple industries
- » High part availability worldwide
- » Streamlined system architecture, specifically optimized and tailored for practical application needs



CHARGING OPTIONS

STANDARD:

- » DC 96V Rema type

OPTIONAL:

- » AC 400Hz /115V gate charger max 13kW
- » AC Typ 1 max 13kW
- » AC Typ 2 max 13kW

BATTERY

- » LFP 96V Lithium Ion Batteries
- » Capacity up to 86 kWh

SAFETY REDEFINED.

YOU CAN RELY ON »ATLAS« 2

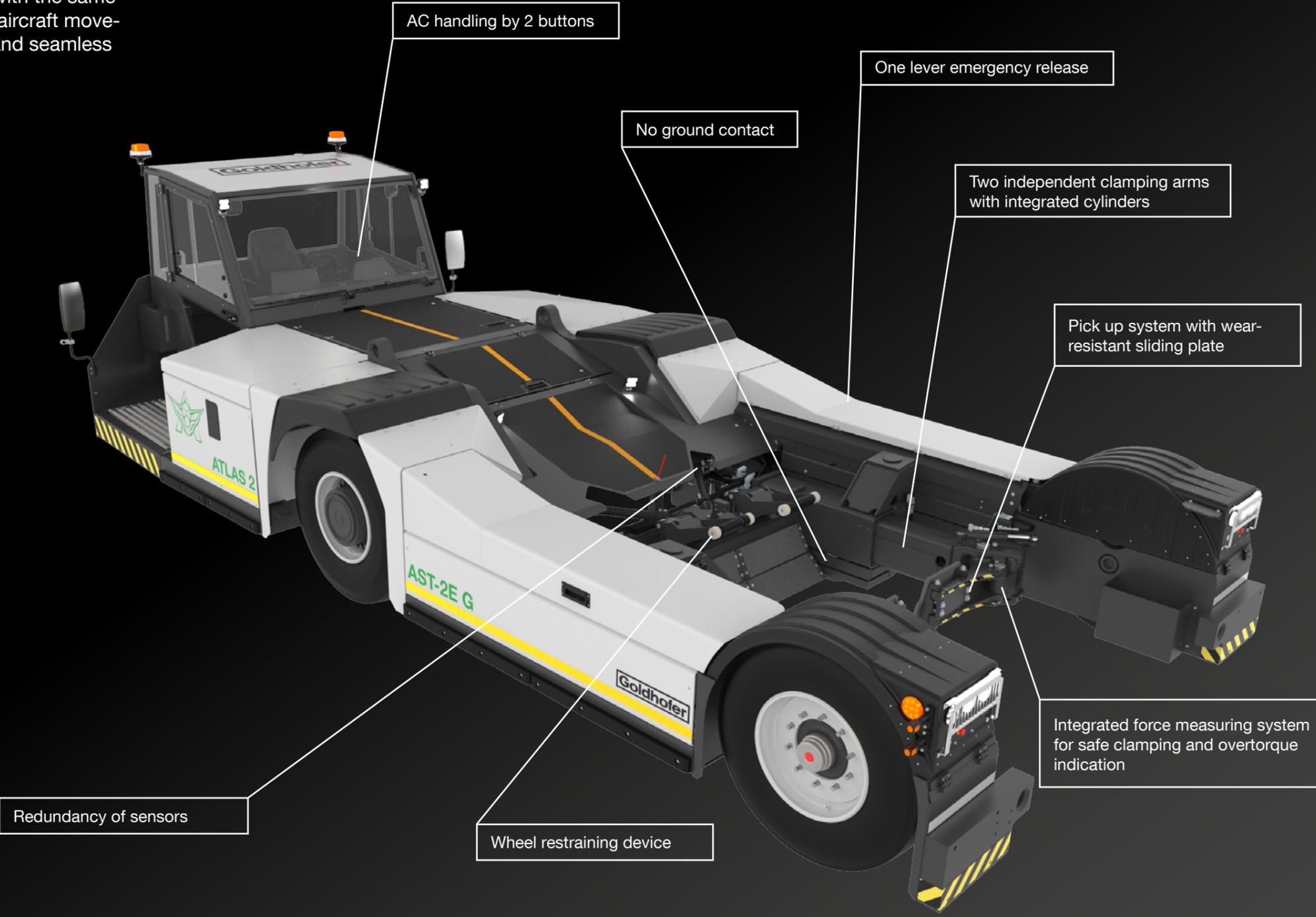
- » Reduced strain on nose landing gear
- » Differential lock, snow chains and winter tires available
- » Braking system redundancy, including automatic parking brake
- » Visual and acoustic overtorque warning before aircraft damage
- » Tractor can secure aircraft at the gate against rolling
- » Elimination of unauthorized aircraft movements and shear-pin breaks
- » Optional AI camera/human detection
- » Monitoring and software limits/features battery/cell temperature
- » 360° visibility



PRECISION & RELIABILITY.

The new »ATLAS« 2 builds on the legacy of the »PHOENIX« – with the same reliable pick-up device. Backed by over 3.5 million successful aircraft movements, these proven components ensure maximum reliability and seamless integration. Experience innovation powered by experience.

- » Reduced load on the nose gear (smoother ride)
- » Towbarless aircraft pickup system for safer and more reliable nose landing gear engagement
- » Automated NLG coupling and aircraft recognition – intuitive for operators, eliminates handling errors
- » Adaptive force control – coupling forces automatically adjusted to aircraft type
- » Real-time force monitoring with over-torque alert – for maximum safety during pushback



AC handling by 2 buttons

No ground contact

One lever emergency release

Two independent clamping arms with integrated cylinders

Pick up system with wear-resistant sliding plate

Integrated force measuring system for safe clamping and overtorque indication

Redundancy of sensors

Wheel restraining device

CABIN OPERATION

Perfect solutions for safe and efficient towbarless pushback operation under every operating condition.

» DUAL CABIN

Two-way steering – ideal for both pushback and towing tasks operations



» FULL CABIN

Pushback-optimized steering – compact design for tight gate operations



REMOTE CONTROLLED

Ideal for extreme operating conditions, space constrained pushbacks, and hangar operations.

» NO CAB (remote control)

» DRIVERSTAND



AUTONOMOUS READY*



ONE TRACTOR. EVERY MISSION. FUTURE READY.

The »ATLAS« 2 is built to adapt - across all operating conditions and into the future. With its modular, bolted cabin design, flexible driver configurations - ranging from front platform to remote operation - and future-ready architecture, the »ATLAS« 2 is the all-in-one solution for today's operational needs and tomorrow's technologies.

As the GSE industry evolves, the demand for intuitive, future-proof solutions continues to grow - driven by the need for safer and more efficient operations, especially in light of a growing lack of qualified employees. The »ATLAS« 2 meets this challenge with smart, safe, and reliable technologies that simplify operations without compromising performance.

The »ATLAS« 2 is designed with adaptability at its core. Thanks to its modular architecture, the vehicle can be reconfigured from a full cabin setup to remote operation - or the other way around - with minimal ef-

fort and downtime. This future-ready design ensures maximum flexibility for evolving operational needs.

The »ATLAS« 2 features a robust, modular cabin with a central seating position, allowing for easy upgrades or downgrades to match customer needs. Whether operating a single gate or managing multiple gates simultaneously, it offers maximum flexibility. Designed for pushback, repositioning, and inter-gate towing, it ensures top-tier safety and comfort for both operators and aircraft.

PERFECT FOR ALL DIFFERENT OPERATING SCENARIOS.



ALWAYS AHEAD.

Goldhofer has established itself as a leading provider of sustainable and highly efficient aircraft and cargo towing solutions, aligning with global "Green Initiatives" adopted by airports worldwide. However nowadays, aircraft belong to the most secure means of travel due to extremely high safety standards, extensive staff training, advanced

engineering and strict maintenance procedures. With a history of building aircraft tractors dating back to the 1960s and electric vehicles in the 1980s, Goldhofer has established itself as one of the pioneers within the industry. During this time, Goldhofer has amassed extensive expertise and unrivaled experience.

EXPERIENCE, COMPETENCE, CONTINUITY.

EXCEPTIONAL SERVICE

- » Goldhofer provides maintenance plans, general overhauls and modifications
- » Spare parts: 15-year supply at least or provisioning of alternatives (equivalent parts, overhaul, etc.)

EXTRAORDINARY EXPERIENCE

- » Highest experience for both, towbarless and conventional tractors in the market
- » One of the pioneers in E-vehicles starting 1986 with the Schopf F356
- » Long standing employees with outstanding advisory competence

GOLDHOFER »LINK«

- » Enables continuous monitoring and condition-based maintenance
- » With »LINK«, long-term investments are more likely to pay off: Higher efficiency due to reduced downtime
- » Tracking and evaluation of operating and usage data enables optimal consulting and optimization of the fleet

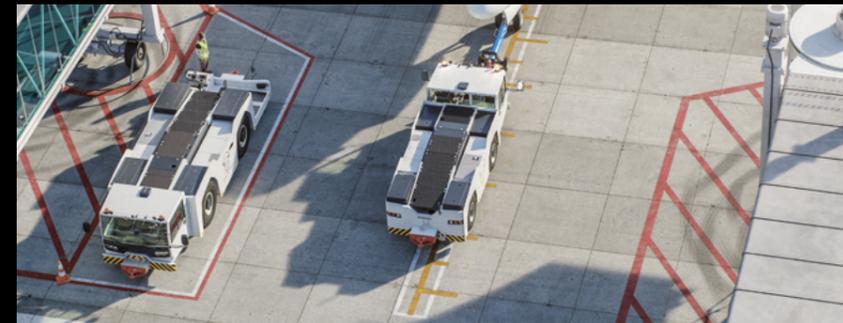
»PHOENIX« SERIES: THE HIGH-PERFORMANCE TOWBARLESS TRACTOR

Goldhofer towbarless tractors move millions of aircraft worldwide with exceptional safety and reliability. Smart engineering helps to prevent damage to both humans and machines, while ongoing innovation ensures peak performance.

The »PHOENIX« stands out with intuitive operation, full 360° visibility, and an ergonomic design that delivers safety and comfort on every mission.



»BISON« SERIES: THE SAFEST CONVENTIONAL TOW TRACTOR



The advanced technology of the »BISON« tow tractor helps maintain high safety standards across your operations. Continuous optimization, innovation, research, and development make Goldhofer tractors remarkably reliable.

A uniform operating concept ensures intuitive handling across the entire series — once you have been trained, every model will feel familiar.

»SHERPA« SERIES: THE COMPACT POWERHOUSES FOR SUSTAINED USE

Our cargo tractors moved millions of tons of cargo safely and reliable all over the globe. The tried and tested dashboard, front hood and optional reinforced bumpers as well as the wide access to the drivers' seat makes »SHERPA« a safe and ergonomic working place.



»ATLAS« 2 GET IN TOUCH WITH US!

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