

Goldhofer



**»SHERPA« FAMILY
MODULAR DESIGN FOR
CARGO TOWING AND
PUSHBACK**

CARGO AND PUSHBACK TRACTORS



MADE FOR YOUR MISSION

»SHERPA« FAMILY

COMPACT POWERHOUSES FOR SUSTAINED USE.

The »SHERPA« family offers the ultimate efficiency. The product line was developed with modular design in mind: Standardized parts with sophisticated options for customized vehicle designs.

Long maintenance intervals save money and ensure operational readiness.

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GOLDHOFER »SAFETY«

8



MODULAR PLATFORM

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INDIVIDUAL VALUE



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" and "Blue Sky Policies" 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. To ensure that these high standards are met, as part of the "airport machinery" vehicles and employees on the apron must also contribute to making air travel and cargo movements safe and sustainable. This is where Goldhofer is always one step ahead and synonymous with »SAFETY« on the apron. 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. Today, among others, this is reflected in an extremely high ratio of employees in R&D. This continuous competence build-up has led to numerous ground-breaking products, such as the »PHOENIX« series or the »IonMaster« high-voltage technology for E-vehicles. For Goldhofer, »SAFETY« is not just a theoretical concept but a culture that is deeply rooted in the company.

GOLDHOFER SAFETY

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.)
- + High-quality components from long-term partnerships with suppliers
- + Remote error detection enables fast, time- and resource-saving help for minimum TCO

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
- + Pioneer in high voltage technology with the »IonMaster« Technology
- + Long standing employees with outstanding advisory competence

GOLDHOFER »LINK«

- + The tool for digitization on the apron
- + 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

»SHERPA« SERIES: MOVING TONS OF CARGO - SAFE AND RELIABLE



»SAFETY« AT ITS BEST

- + ERGONOMICS AND OPERATOR SAFETY
- + UNBEATABLE RELIABILITY
- + SOPHISTICATED TECHNOLOGY

With an enormous fleet of cargo tractors, millions of tons of cargo have been moved safely and reliably all over the globe. Well thought-out technology helps prevent damage on both humans and machines. Constant optimization, innovation, research and development improve Goldhofer tractors in an ongoing process to make them the most reliable tugs. The uniform operating concept all over the »SHERPA« family makes it easy to operate any type of the series once trained. The tried and tested dashboard, front hood and optional reinforced bumpers as well as the wide access to the driver's seat makes »SHERPA« a safe and ergonomic working place.



MODULAR PLATFORM OVERVIEW

»SHERPA« D and »SHERPA« E provide powerful and reliable support for a wide range of tasks on the Airport apron.

While the »SHERPA« E offers the same comfort, safety, and performance benefits as diesel vehicles, it can be operated as an environmentally friendly alternative, and even indoors.

- + Compact design and cabin variants: cabless, open cab and closed cab
- + Geared to your needs: Whether with diesel engine or e-power train and modular battery system
- + Same vehicle – different weights: Optimal traction and pulling force thanks to ballast weights of 8,000 - 18,000 lbs, with maximum maneuverability



8,000 lbs 13,000 lbs 18,000 lbs

BALLAST WEIGHT



CABLESS OPEN CAB CLOSED CAB CABIN



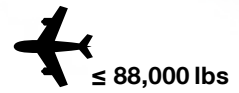
 74 hp	5,600 lbf	»SHERPA« D	»SHERPA« E	5,600 lbf	40 kW	
 100 hp	9,000 lbf			9,500 lbf	60 kW	



MULTI-PURPOSE PUSHBACK FOR BUSINESS JET

For small airports specializing in handling private jets, flexible equipment is crucial – it must be safe and reliable in all functions.

That is why we developed the »SHERPA« to not only be used as a cargo tractor, but also to be capable of moving aircraft up to 110,000 lbs MTOW.



≤ 88,000 lbs

»SHERPA« D6



≤ 110,000 lbs

»SHERPA« D8



≤ 88,000 lbs

»SHERPA« E6



≤ 110,000 lbs

»SHERPA« E8





INDIVIDUAL VALUE THE »SHERPA« D



LONG
MAINTENANCE
INTERVAL



CABIN OPTIONS
FOR FLEXIBLE
CONFIGURATION



MAINTENANCE
FREE
COMPONENTS



DIAGNOSTICS AND MAINTENANCE

- + Information and error messages in the display
- + Parking brake as spring-loaded disc brake on the axle mount
- + Maintenance hatch in the cabin foot well for easy access to filter, transmission, oil gauge, and filler neck
- + Disc brakes on front and rear axle do not require adjustment or readjustment
- + Optimized hydraulic system with reliable gear pumps for long-term use
- + Lubrication-free drive shaft



CONCEPT FOR SUCCESS

- + In use on every continent and in all environmental conditions, from -22°F to +125.6°F^[1]
- + Three cabin designs: Cabless, open cab, closed cab
- + Small turning radius of 155"



VEHICLE-SPECIFIC ADVANTAGES

- + Various engine power classes
- + Leaf spring suspension developed specially for the »SHERPA« with high suspension comfort
- + 360° view from the cabin



75 hp^[2]
Max towed load ≤ 121,000 lbs
 US TIER 3 | US TIER 4F
 EU STAGE IIIA | EU STAGE V
 9,000 lbf drawbar pull



100 hp^[2]
Max towed load ≤ 176,000 lbs
 US TIER 3 | US TIER 4F
 EU STAGE IIIA | EU STAGE IV
 10,000 lbf drawbar pull



»SHERPA« D

^[1] Standard version from -4°F to +107°F, other temperature range with Arctic- and Tropical-Kit
^[2] Suitable for pushback



INDIVIDUAL VALUE THE »SHERPA« E



»IONMASTER« TECHNOLOGY

- + Active thermal management for cabins and all high-voltage components: Heating and cooling for optimal temperature conditions, even during charging, for long battery life
- + Modularly expandable battery system, configurable for individual deployment requirements
- + Commercial vehicle industry tried-and-tested 400 V lithium-ion batteries for certified, maximum safety, ultimate performance, and service life
- + Electric power train, battery, thermo module and inverter are low maintenance
- + Second-life applications for battery systems possible in future, e.g. as stationary storage systems



CHARGING AND INFRASTRUCTURE

- + All standard charging plugs available: CCS Typ 1, CCS Typ 2 and GB/T
- + Consulting on charging infrastructure
- + Rapid DC charging and intermediate charging at up to 70 kW
- + Optional AC charging at up to 22 kW



VEHICLE-SPECIFIC ADVANTAGES

- + Three cabin designs: Cabless, open cab, closed cab
- + Small turning radius of 162"
- + Can be used in all climate conditions in temperatures ranging between -13°F and +125.6°F^[1]
- + 360° view for the driver
- + High-voltage components cooled by environmentally sustainable water glycol mixture: Consistent performance, even under extreme environmental conditions



»SHERPA« E6
Max towed load ≤ 132,000 lbs^[2]
 1x35k Wh battery
 7,800 lbf drawbar pull

»SHERPA« E8
Max towed load ≤ 176,000 lbs^[2]
 2x35 kWh batteries
 9,500 lbf drawbar pull



ADJUSTABLE
BATTERY
CAPACITY



CABIN OPTIONS
FOR FLEXIBLE
CONFIGURATION



MAINTENANCE
FREE
COMPONENTS

^[1] Standard version from -4°F to +107°F, other temperature range with Arctic- and Tropical-Kit
^[2] Suitable for pushback



»SHERPA« FAMILY GET IN TOUCH WITH US!

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TECHNICAL DATA SHEETS



»SHERPA« D



»SHERPA« E