



Goldhofer

»SHERPA« FAMILY

MODULAR DESIGN FOR
CARGO TOWING AND
PUSHBACK



CARGO AND PUSHBACK TRACTORS



»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.



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.

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 SAFETY



EXPERIENCE,
COMPETENCE,
CONTINUITY.

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 IT'S BEST

- » ERGNONOMICS AND OPERATOR SAFETY
- » UNBEATABLE RELIABILITY
- » SOPHISTICATED TECHNOLOGY

With an enormous fleet of cargo tractors, millions of tons of cargo have been moved safely and reliable all over the globe. Well thought-out technology helps preventing 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 drivers' 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 4-8 t, with maximum maneuverability



BALLAST WEIGHT

4t

6t

8t



CABIN

CABLESS

OPEN CAB

CLOSED CAB



»SHERPA« D

»SHERPA« E



55 kW

25 kN

75 kW

40 kN

25 kN

40 kW

42 kN

60 kW





MULTI-PURPOSE BUSINESS JET PUSHBACK

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 50 t MTOW.



»SHERPA« D



≤ 40 t »SHERPA« D6
≤ 50 t »SHERPA« D8

»SHERPA« E



»SHERPA« E6 ≤ 40 t
»SHERPA« E8 ≤ 50 t





INDIVIDUAL VALUE



»SHERPA« D



LONG MAINTENANCE INTERVAL



CABIN OPTIONS FOR FLEXIBLE CONFIGURATION



MAINTENANCE FREE



55 kW^[2]
Max towed load ≤ 55 t
EU Stage IIIA | EU Stage V
US TIER 3 | US TIER 4F
40 kN drawbar pull



75 kW^[2]
Max towed load ≤ 80 t
EU Stage IIIA | EU Stage IV
US TIER 3 | US TIER 4F
45 kN drawbar pull



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 -30°C to +52°C^[1]
- » Three cabin designs: Cabless, open cab, closed cab
- » Small turning radius of 3.95 m

VEHICLE-SPECIFIC ADVANTAGES

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

^[1] Standard version from -20°C to +42°C, other temperature range with Arctic- and Tropical-Kit

^[2] Suitable for pushback



INDIVIDUAL VALUE



»SHERPA« E



ADJUSTABLE BATTERY CAPACITY



CABIN OPTIONS FOR FLEXIBLE CONFIGURATION



GOLDHOFER »IONMASTER« TECHNOLOGY

»SHERPA« E6

Max towed load ≤ 60 t^[2]

1x40 kWh battery
35 kN drawbar pull

»SHERPA« E8

Max towed load ≤ 80 t^[2]

2x40 kWh battery
42 kN drawbar pull



»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
- » Rapid DC charging and intermediate charging at up to 70 kW
- » Optional AC charging at up to 22 kW
- » Consulting on charging infrastructure

VEHICLE-SPECIFIC ADVANTAGES

- » Three cabin designs: Cabless, open cab, closed cab
- » Small turning radius of 4.12 m
- » Can be used in all climate conditions in temperatures ranging between -25°C and +52°C^[1]
- » 360° view for the driver
- » High-voltage components cooled by environmentally sustainable water glycol mixture: Consistent performance, even under extreme environmental conditions

^[1] Standard version from -20°C to +42°C, other temperature range with Arctic- and Tropical-Kit

^[2] Suitable for pushback



»SHERPA« FAMILY GET IN TOUCH WITH US!

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