



**Goldhofer**

# »BISON« FAMILY THE FUTURE PROOF PUSHBACK

CONVENTIONAL TRACTORS

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**MADE FOR YOUR MISSION**



# »BISON« FAMILY FUTURE-PROOF AIRCRAFT TRACTORS



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The »BISON« family consists of a comprehensive range of aircraft tow tractors capable of handling passenger and cargo aircraft of 275,000 lbs to 1,320,000 lbs MTOW.

Because the product family is modular, customers can choose between diesel and electric power trains.

In addition, a wide range of options allows for customization of your operating conditions.

With minimal maintenance and a wide range of components that are identical across the entire product family, you benefit from low inventory requirements and low TCO.



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**MODULAR PLATFORM**

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**MAXIMUM PERFORMANCE**

8



**VALUE FOR YOUR MONEY**





# MODULAR PLATFORM OVERVIEW

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**Adapt your vehicles to your individual needs!**

**Different sizes, power trains, performance classes, and cabin variants make the »BISON« family a sophisticated overall package that promises maximum safety and operating comfort.**

- + Uniform operating system with high operating comfort**
- + Find the perfect size and performance for your applications**
- + The flexible ballasting enables custom configuration**





CABLESS



OPEN CAB



CLOSED CAB

»BISON« CABIN



≤ 275,000lbs

23,600lbf | 101hp

»BISON« D 370

»BISON« E 370

101hp | 23,600lbf

≤ 275,000lbs

70kWh | 105kWh | 140kWh



≤ 550,000lbs

46,000lbf | 156hp

»BISON« D 620

»BISON« E 620

156hp | 46,000lbf

≤ 550,000lbs

70kWh | 105kWh | 140kWh | 175kWh



≤ 880,000lbs

68,500lbf | 268hp

»BISON« D 1000



≤ 1,320,000lbs

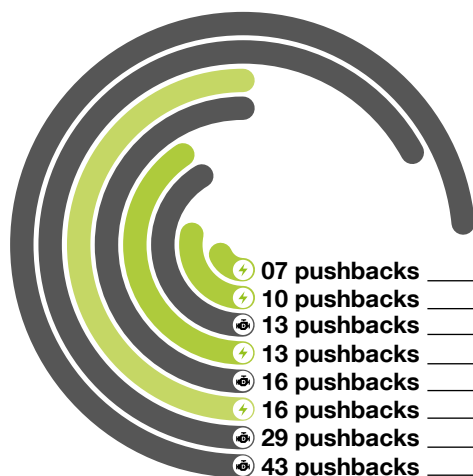
110,000lbf | 400hp

»BISON« D 1500





# MAXIMUM PERFORMANCE COUNT ON »BISON«



**Framework conditions\***  
No intermediate charging  
Level roadway 68 °F  
Outdoor temperature

07 pushbacks	70 kWh
10 pushbacks	105 kWh
13 pushbacks	101 hp
13 pushbacks	140 kWh
16 pushbacks	156 hp
16 pushbacks	175 kWh
29 pushbacks	268 hp
43 pushbacks	400 hp



## ERGONOMICS

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- + Sophisticated cockpit with simple operation and ergonomic seat position for the entire »BISON« family
- + Spring-suspended cabin with outstanding view
- + Excellent driver's cabin air conditioning
- + 2-shift operation thanks to large diesel tank and »IONMASTER« technology

## SAFETY

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- + The simple, safe, and ergonomic handling ensures less damage, and thus reduced repair outlay
- + Excellent visibility of the couplings from the cabin
- + Safe single-man operation
- + Different driving modes for flexible maneuvering: all-wheel steering, front-wheel steering, and crab steering
- + Optimal brake configuration for each »BISON« model

## RELIABILITY

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- + Robust, long-lasting components made by quality manufacturers
- + Carry-over part strategy for the entire »BISON« family
- + Optimal, long-term operational availability
- + Adaptability even to changing conditions through flexible ballasting concept





# INDIVIDUAL VALUE THE »BISON« D



VARIETY OF  
DIESEL ENGINES



CABIN OPTIONS  
FOR FLEXIBLE  
CONFIGURATION



CARRY-OVER  
PART STRATEGY



»BISON« D 370

101 hp | 23,600 lbf | MTOW ≤ 275,000 lbs  
US EPA TIER 3 | US EPA TIER 4





## DIAGNOSTICS AND MAINTENANCE

- + Information and error messages as plain text in the multifunction display
- + Sophisticated maintenance access
- + Time-saving operations and 1,000 h maintenance intervals
- + Optimized hydraulic system with reliable gear pumps for long-term use
- + Lubrication-free drive shaft
- + Minimal-effort fluid change
- + Separate hydraulic oil tanks for steering and brakes



## CONCEPT FOR SUCCESS

- + In use on every continent and in all environmental conditions, from -4 °F to +122 °F
- + Three cabin variants:  
Cabless, open cab, closed cab
- + Uniform operation through a consistent vehicle concept with carry-over parts strategy
- + Environmentally friendly and cost-effective



## VEHICLE-SPECIFIC BENEFITS

- + Various engine power classes
- + Suspension concept specially optimized for the »BISON«
- + 360° view from the hoist cabin
- + No lubrication necessary



**»BISON« D 620**

156 hp | 46,000 lbf | MTOW ≤ 550,000 lbs  
US EPA TIER 3 | US EPA TIER 4



**»BISON« D 1000**

268 hp | 68,500 lbf | MTOW ≤ 880,000 lbs  
US EPA TIER 3 | US EPA TIER 4



**»BISON« D 1500**

400 hp | 110,000 lbf | MTOW ≤ 1,320,000 lbs  
US EPA TIER 4



# INDIVIDUAL VALUE THE »BISON« E



MODULAR  
EXPANDABLE  
BATTERY SYSTEM



CABIN OPTIONS  
FOR FLEXIBLE  
CONFIGURATION



GOLDHOFER  
»IONMASTER«  
TECHNOLOGY





## »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 lithium-ion batteries for certified, maximum safety, ultimate performance, and service life
- + Electric power train, electric engine, battery, inverter and thermo module are maintenance-free
- + Second-life applications for battery systems possible, e.g. as stationary storage systems



## CHARGING AND INFRASTRUCTURE

- + All standard charging plugs available:  
CCS Typ 1, CCS Typ 2, CHAdeMO and GB/T
- + Infrastructure consulting on charging points
- + Intermediate charging enables multi-shift operation
- + Rapid DC charging and intermediate charging at up to 80kW
- + Optional AC charging at up to 22 kW



## VEHICLE-SPECIFIC ADVANTAGES

- + Three cabin designs:  
Cabless, open cab, closed cab
- + Can be used in all climate conditions in temperatures ranging between -4 °F and +122 °F
- + 360° view for the driver
- + High-voltage components cooled by environmentally sustainable water glycol mixture:  
Consistent performance, even under extreme environmental conditions



### »BISON« E 370

101 hp | 23,600 lbf | MTOW ≤ 275,000 lbs  
70 kWh | 105 kWh | 140 kWh



### »BISON« E 620

156 hp | 46,000 lbf | MTOW ≤ 550,000 lbs  
70 kWh | 105 kWh | 140 kWh | 175 kWh



## »BISON« FAMILY GET IN TOUCH WITH US!

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### GOLDHOFER AIRPORT TECHNOLOGY

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### SALES

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### SERVICES AND SPARE PARTS

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### TECHNICAL DATA SHEETS

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»BISON« D 370



»BISON« E 370



»BISON« D 620



»BISON« E 620



»BISON« D 1000



»BISON« D 1500