

DEFENSE

## **TOW TRACTORS** FOR MAXIMUM REQUIREMENTS

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AIRPORT TECHNOLOGY

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MADE FOR YOUR MISSION

# **OUR EXPERTISE? OUR EXPERIENCE!**

Goldhofer stands for highest standards, quality and reliability in ground support equipment. Especially for defense operations reliability, agility, consistency and endurance are key when it comes to a mission's success.

We have a longstanding experience and history in delivering first-class solutions to defense customers worldwide and offer best-in-class products in cargo and aircraft towing as well as aircraft recovery.

So far we have delivered 850 aircraft tow tractors to more than 30 Air Forces, Armies, and Navies around the globe.



FOR MORE INFORMATION PLEASE CONTACT: Telephone: +49 8331 15-343 E-Mail: sales-defense@goldhofer.com www.goldhofer.com/en/defense

## **OUR SERVICES**

- + Longstanding expertise
- time period or location
- Consideration of maintenance and repair conditions on site +
- Collaboration with longstanding experienced service partners in conflict areas +
- Customized solutions for your operation +
- Customized support for specific individual missions +
- Long-term full-service support +





+ Strategic supply based on operating parameters such as environmental conditions,

+ Provisioning of spare parts and training of action forces for autonomous service



## **MILITARY AIRCRAFT TOW TRACTORS**



### ≤1,320,000 lbs 103,400 lbf <sup>[2]</sup> 298 kW »BISON« D 1500

- Turning radius of 281"
- EU Stage V | US EPA TIER 4F
- From -22°F to +125.6°F<sup>[1]</sup> +
- Three cabin designs: cabless, open cab, closed cab
- 360° panoramic view from all cabins
- Air transportable upon request
- Jetfuel compatible upon request
- Night vision lights upon request
- + NATO sockets on request



- + Turning radius of 244"
- EU Stage IIIA | US EPA TIER 3
- EU Stage V | US EPA TIER 4F
- From -22°F to +125.6°F<sup>[1]</sup>
- Three cabin designs: cabless, open cab, closed cab
- 360° panoramic view from all cabins +
- + Air transportable upon request
- Jetfuel compatible upon request
- Night vision lights upon request
- + NATO sockets on request



- ≤550,000 lbs 46,000 lbf | 115 kW
- Turning radius of 237"
- EU Stage IIIA | US EPA TIER 3
- EU Stage V | US EPA TIER 4F
- From -22°F to +125.6°F<sup>[1]</sup> +
- Three cabin designs: cabless, open cab, closed cab
- 360° panoramic view from all cabins
- Air transportable upon request
- Jetfuel compatible upon request
- Night vision lights upon request +
- + NATO sockets on request



- + Turning radius of 237"
- From -22°F to +125.6°F<sup>[1]</sup>
- Standard plugs CCS Type 1, CCS Type 2 & GB/T
- Electric power train, electric engine, battery, thermo module +
- and inverter are maintenance-free
- Rapid DC charging and intermediate charging at up to 70 kW
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- Night vision lights upon request
- + NATO sockets on request



### ≤ 275,000 lbs 23,6000 lbf | 74.4 kW

- Turning radius of 179" +
- EU Stage IIIA | US EPA TIER 3 +
- EU Stage V | US EPA TIER 4F +
- From -22°F to +125.6°F<sup>[1]</sup> +
- Three cabin designs: cabless, open cab, closed cab
- 360° panoramic view from all cabins
- Air transportable upon request +
- Jetfuel compatible upon request +
- Night vision lights upon request +
- + NATO sockets on request



- Small turning radius of 172"
- EU Stage IIIĂ | US TIER 3 +
- EU Stage V | US TIER 4F +
- + From -22°F to +125.6°F<sup>[1]</sup>
- Weight distribution 50:50 on both axles +
- 4-wheel drive +
- +
- Designed and manufactured in compliance with: IATA-AHM, ISO, CE standards, CE health & safetv and environmental directives
- + Best allround visibility and maneuverability
- + 360° view for operators
- + Jetfuel compatible
- + Air transportable
- Night vision lights upon request +
- + Additional features upon request





≤ 275,000 lbs 23,6000 lbf | 74.4 kW



- Turning radius of 179" +
- From -22°F to +125.6°F<sup>[1]</sup> +
- Standard plugs CCS Type 1, CCS Type 2 & GB/T +
- Electric power train, electric engine, battery, thermo module and inverter are maintenance-free
- Rapid DC charging and intermediate charging at up to 70 kW
- Three cabin designs: cabless, open cab, closed cab +
- 360° panoramic view from all cabins +
- Air transportable upon request +
- + Night vision lights upon request



- Small turning radius of 132"
- EU Stage IIIĂ | US TIER 3 +
- From -22°F to +125.6°F [1] +
- 2-wheel drive
- Automatic full-power-shift transmission
- 360° view for operators
- Jetfuel compatible
- Night vision lights upon request +
- Additional features upon request

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# **CARGO AND MULTI-PURPOSE TOW TRACTORS**



- From -22°F to +125.6°F<sup>[1]</sup> +
- COTS Commercial of the shelf
- Rear wheel drive +
- Three cabin designs: cabless, open cab, closed cab +
- 360° panoramic view from all cabins
- Air transportable upon request +
- Jetfuel compatible upon request +
- + Night vision lights upon request
- + Additional features upon request

- Rapid DC charging and intermediate charging at up to 70 kW

5,600 lbf

10,100 lbf

»SHERPA« E

»SHERPA« E

- Standard plugs CCS Type 1, CCS Type 2 & GB/T
- + From -22°F to +125.6°F<sup>[1]</sup>
- COTS Commercial of the shelf
- + Rear wheel drive
- Three cabin designs: cabless, open cab, closed cab +
- 360° panoramic view from all cabins +
- + Air transportable upon request
- + Night vision lights upon request
- + Additional features upon request

## (ARTS) AIRCRAFT RECOVERY SYSTEM DOLLY 100t

#### MLG 2 WITH TWO OR MORE AXLES

- + 2x dolly 110,000 lbs combined
- + Choice of wear plates for easier recovery
- + Power pack for aircraft pick-up and steering
- + Remote control for steering

 $^{\scriptscriptstyle [1]}$  Standard version from -4°F to +107°F, other temperature range with Arctic- and Tropical-Kit <sup>[2]</sup>MLG = Main Landing Gear

**AIRPORT TECHNOLOGY** 

## **AIRCRAFT OVERVIEW**

Selected Listing of Aircraft (MTOW)	Aircraft in tons	F59	»BISON« D/E 370	»BISON« D/E 620	»BISON« D 1000	STT (operating on carriers)	»SHERPA« D/I
Antonow 124	405.0t	$\approx$	$\gg$	$\approx$		$\bowtie$	$\gg$
C5 Galaxy	391.0t	$\approx$	$\gg$	$\gg$		$\bowtie$	$\gg$
C-17A (CC-177)	265.0t	$\approx$	$\gg$	$\approx$		$\bowtie$	$\gg$
A330 MRTT	233.0t	$\gg$	$\gg$			$\gg$	$\gg$
IL-76/IL-78	210.0t	$\gg$	$\bowtie$			$\bowtie$	$\gg$
Airbus A 340	164.0t	$\approx$	$\sim$			$\bowtie$	$\times$
KC-767 (767-200ER)	187.0t	$\gg$	$\gg$			$\bowtie$	$\times$
KC-135	146.0t	$\gg$	$\gg$	<b></b>		$\gg$	$\times$
Airbus A 400 M	141.0t	$\approx$	$\sim$	<b>_</b>		$\mathbb{X}$	$\times$
P-8	86.0t	$\approx$				$\gg$	$\times$
E-3	84.0t	$\gg$		<b>_</b>	<b>_</b>	$\gg$	$\times$
Hercules C 130-H	79.0t		- <u> </u>	<b></b>	<b>_</b>	$\sim$	$\sim$
P-3C	64.0t	<ul> <li>Image: A start of the start of</li></ul>		<b></b>	<b></b>	$\times$	$\sim$
Hercules C 130-A	56.0t					×	$\sim$
An-178	52.0t			<b>_</b>	-	$\sim$	$\gg$
MIG-31	46.2 t						$\sim$
SU-34	44.4t						$\sim$
SU-24	43.8t		- <u> </u>			×	 ×
MIG-29	40.0t					X	X
F-15	36.7 t	· · ·				× · · ·	 ×
Su-30	35.0t						X
F-35	31.7 t						X
SU-27	30.5 t					·	X
Panavia Tornado	28.5t						X
F-22	27.2t		- <u> </u>			·	 
V/CV/MV/CMV-22B	27.0t						X
Rafale	25.0t						X
F/A-18	24.0t						X
Typhoon	24.0t						X
F-16	22.7t						
SU-25	22.7 t 21.5 t						
MIG-29	21.0t						
Boeing CH-47 H	21.01 22.7 t						
F-16	<u>22.7 t</u> 						
CN-235	<u>19.01</u>						
Mirage 2000	17.0t						
NH Industries	11.4t						
Sikorsky UH-60							
	<u>11.1t</u>						
Aerospatiale SA 332	<u>9.4t</u>				<b></b>		
Bristol 192	8.6t						
Aerospatiale SA 330	7.4t						
Sikorsky S-61	7.2t						
Bell UH-1H	4.3t						
Aerospatiale SA 565	4.2t						
Kamow KA 226	3.6t	<u> </u>					
Bell OH 58	2.5t		<u> </u>				<u> </u>
Aerospatiale SA 342	2.1 t		<u> </u>	<u> </u>		<u> </u>	

For all data above: 4% breakaway resistance, 1% apron slope, no engine resistance, wet concrete (friction coefficent 0.57) We will be happy to provide exact tensile hook force calculations upon request.



## DEFENSE



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# HELICOPTER OVERVIEW

Selected Listing of Helicopter (MTOW)	Aircraft in tons	F59	»BISON« D/E 370	»BISON« D/E 620	»BISON« D 1000	STT (operating on carriers)	»SHERPA« D/E
Sikorsky CH-53	19.0t	-					
Boeing CH-47 A	14.9t						
Mil Mi-17	13.0t	-					
Mil Mi-24 (Mi-25/35)	12.0t						
SH-60	10.0t						
AH-64	10.0t			<b>&gt;</b>		<ul> <li>Image: A set of the set of the</li></ul>	
S-70/MH-60/UH-60 VH-60N/SH-60	10.0t	-	<b>_</b>	-			•
AS532 (H215M)	9.0t						
AH-1Z	8.0t			<b>&gt;</b>		<ul> <li>Image: A set of the set of the</li></ul>	
Mil Mi-8	7.0t						

For all data above: 4% breakaway resistance, 1% apron slope, no engine resistance, wet concrete (friction coefficent 0.57) We will be happy to provide exact tensile hook force calculations upon request.

## CONTACT GET IN TOUCH WITH US!

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