

**ENMARES Aviation Marine and Land Defense Incorporate** 

# Universal Towbarless Aircraft Movers

for fixed and rotary wings



**Model Series: SPIDER-X20** 



## Technical Features | SPIDER-X20

Model	SPIDER-X20
Product Definition	Battery-Powered Towbarless Helicopter Carrier Vehicle
Maximum Serviceable Aircraft SLG* Loading	8.000 kg
Electric Supply	24 off SLA/VRLA Tractive Electric Batteries
Movement Modes in Azimuth	Vertical, Horizontal, Diagonal, Classic, Carousel
Traction	High-Torque Electric Traction Motors
Steering	Independent 4-Wheels Hydraulic Steering
Electronic Control System	PLC-Based CANBus Network
Command Panel	Wireless Radio Joy-stick Command Console
Vehicle Electronic Access Interface	7" Touchscreen
Maximum Vehicle Speed	7,5 km/h
Minimum Turning Circle	0 mt
Wheels	Heavy-Duty Solid Polyurethane Coated Steel Wheels
SLG* Contact/Handling Feature	Rubber Coated Rollers with Bearing
Integrated Illumination Projectors	6 off LED RGB Projectors
Approximate Weight	2.300 kg
Fasteners	A4 Grade
Surface Finish	Marine Quality Electrostatic Paint
Aircraft Undocking at Stationary Vehicle Position (STARS™)**	-
Infografic Screen on Wireless Command Console	-
Command Console Illumination	-
Aircraft Contact Sensors for Automatic Stop	-
SLG* Hydrolic Safety Fixation	-
Integrated 110/220 VAC Battery Charger	-
Landing Gear Over-Rotation Protection System	-
Automatic Aircraft Positioning System (APOS™)	-
Active Brake	-
Buzzer	-
Steering Londing Con-	California de la Califo

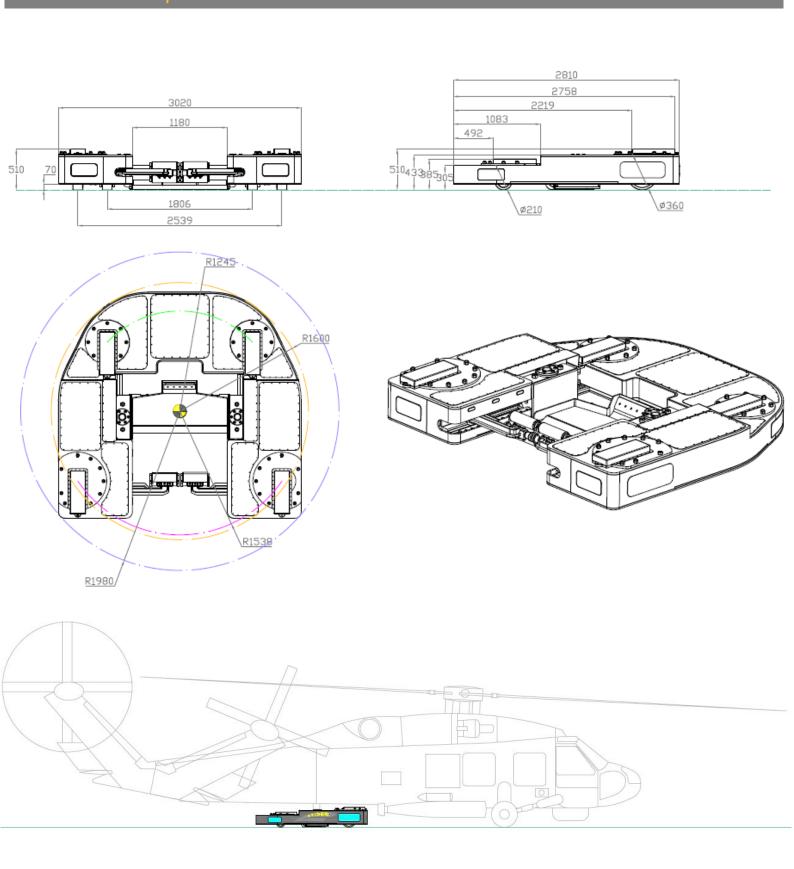
Steering Landing Gear

- [m] Available [-] Not Available
- Ultimate-moveability with 4-Wheel independent steering system
- Encyripted radio frequency controlled wireless command console
- Infographic touchscreen vehicle electronic interface
- Vertical, horizontal, diagonal, classic, carousel movement modes
- Automatic aircraft positioning and handling with just one tap on the command console (APOS™)
- **■** Enabling aircraft undocking without moving the vehicle (STARS™)
- RGB LED projectors

<sup>\*\*</sup> Stationary Aircraft Release System (STARS™)

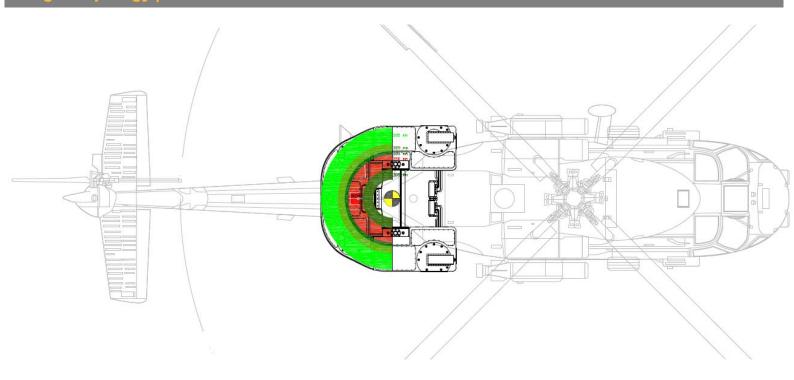


# Main Dimensions | SPIDER-X20





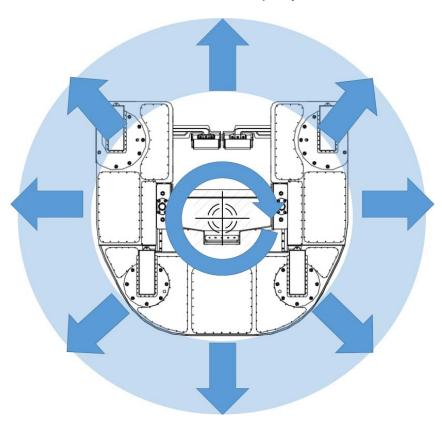
### **Height Topology | SPIDER-X20**



### **Exemplary Aircraft Handling Capability List**

	Aircraft Type
1	F-35B
2	AV-8 (Harrier)
3	S-60B-F/S-70B (Sea Hawk)
4	H-60S/S-70A (Blackhawk)
5	Atak
6	AH-1 (Cobra)
7	H-64 (Apache)
8	SH-3 (Sea King)
9	CH-46 (Sea Knight)
10	CH-47 (Chinook)
11	CH-53D (Sea Stallion)
12	CH-53E (Super Stallion)
13	TH-57 (Sea Ranger)
14	MH-65 (Dolphin)
15	MH-6A (MD)
16	OH-58D (Kiowa Warrior)
17	H-1N (AB-212)
18	NH-90
19	MRH90
20	AW-149
21	EH-101
22	AS 665 (Tiger)
23	AS 532 (Cougar)
24	SH-2G (Super Seasprite)
25	LYNX
26	SA321 (Super Frelon)
27	SA330 (Puma)
28	SA332 (Super Puma)
29	V-22 (Osprey)

### **SPIDER-X20 Movement Capability**



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# Towbarless Helo Mover SPIDER CE





Rotary and Fixed Wing Aircraft Towing Vehicles

**Helicopter Operation Equipment** 

Aircraft Assembly Line Solutions

Special Aircraft Docking Systems

Aircraft Painting Docking Systems

Aircraft Tire Inflation Cages

Aircraft Engine Components Clean Lines

On-the-vessel Helicopter Platforms

Special Electromechanic Weapon Systems

Composite Ballistic Armouring

Mobile Diesel Fire Extinguishing Pumps

**ENMARES Aviation and Defense Company** NATO CAGE: TA642

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