

# MILMAST

Telescopic Lifting Systems





MILMAST



In 1990, FIGES Inc., the company behind MILMAST Inc., set out with the aim of focusing on science to develop new technology. FIGES has become a leader and trusted brand in defense, naval, medical, automotive and home appliances industries through successfully completing unique projects over the years. FIGES Inc., with its developing and expanding organizational structure, started to lead the group of companies including MILMAST Inc. in the last few years.

MILMAST was officially established in October 2017, however the history is much older as R & D activities were originally carried out in FIGES Inc. Two months after its foundation, SSTEK's partnership with the company was the first great proof of trust in MILMAST. MILMAST has not only locally replaced the imported mast systems but also has become one of the exported products through a successful deal with South Korea. It has become a solution partner for major defense industry companies both in the global market and in the national market.

The products of MILMAST, developed in its factory in Ankara, were designed to be used in all kinds of military land and sea platforms. It is used for lifting and supporting a variety of different high-precision equipment such as an antenna, radar and weapon systems, surveillance and communication systems, submarine systems. The patented locking system, developed by the expert engineering team, provides a significant technical advantage over its competitors. This system works together with a motion control software algorithm developed by MILMAST. MILMAST products comply with international military standards, and perform their duties smoothly in the most difficult geographies and environmental conditions around the world.

MILMAST Inc., with its representatives established in different continents and new product series added to its portfolio, continues to take strong steps towards becoming a global leader brand.

## Key Features

- › Carbon fiber composite material
- › Complies with MIL-STD-810G
- › Extended height between 3-20 meters
- › High payload capacity
- › Robust design
- › Lightweight and compact design
- › Compatible with sloping terrain
- › Quiet operation
- › Special design for low bending and displacement
- › Rapid deployment and easy setup

## Optional Services and Sub-systems

- › Platform integration
- › Developing electronic interface
- › Cable wire ways and cabling
- › Long-term logistic support
- › Sensitive stabilization kit
- › Pan tilt

# Application Fields

- › Surveillance and reconnaissance
- › Electronic communication and warfare
- › Target acquisition devices
- › Weapon turrets
- › Sensor and radar systems



# FTM Series

Our first series of products, FTM masts, are designed and manufactured for heavy payloads. Carbon composite structures and patented locking systems make our FTM series masts strong and reliable. FTM Series, adaptable to land and sea platforms, are already used in electronic warfare systems, anti-drone systems, communications, optics, thermal cameras, weapon systems and radio systems.

## FTM Technical Advantages

1. It can be used while the vehicle is on the move.
2. It can be operated motor driven or manually
3. It can remain stable at any height due to the locking system.
4. Thanks to the control panel it can be operated from inside or outside the vehicle.
5. The payload height is displayed digitally on the control panel.
6. It has ideal stability for sensitive payloads such as optical, antenna or camera systems.

FTM Series								
	Unit of Measure	SD-3	SD-4	SD-6	SD-8	SD-10	SD-12	SD-15
Extended Height	m	3	4	6	8	10	12	15
Nested Height	m	1,08	1,40	1,63	1,8	2,05	2,3	2,7
Rated Pay Load	kg	300	300	200	200	170	140	120
Weight	kg	100	110	180	200	220	240	270
Survival Wind Speed	km/h	160	160	160	160	128	100	85
Deployment Wind Speed	km/h	80	80	120	120	96	80	64
Erection Time with Power	sec	60	65	50	70	90	110	140
Voltage	VDC	28	28	28	28	28	28	28
Foot Print	cmxcm	44x26	44x26	52x32	52x32	52x32	52x32	52x32

\*(1) The operational wind speed depends on the surface area of the payloads. Must be analyzed.

\*(2) The time of ascent and descent is adjusted according to the desired time.

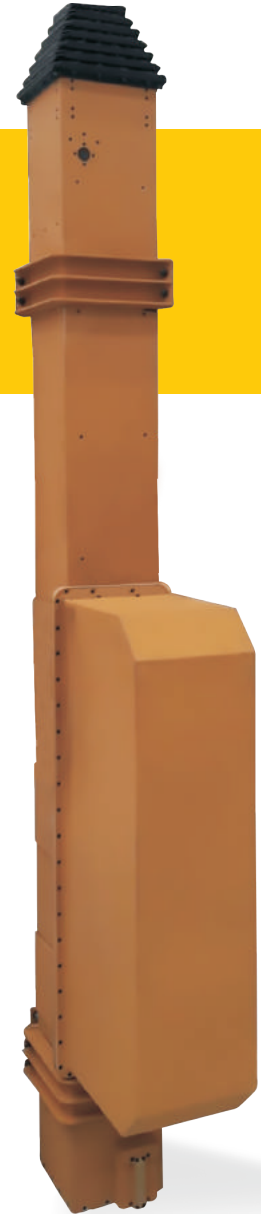
# FHM Series

The new member of our product family, our rope mast FHM Series, are produced to provide more economical solutions for our customers with relatively light payloads. It is used in many systems such as electronic warfare, camera, antenna etc.

## FHM Technical Advantages

1. It has a lightweight aluminum body.
2. It can be operated motor driven or manually.
3. The patented lock mechanism provides excellent stability.

FHM Series							
	Unit of Measure	FHM-4	FHM-6	FHM-8	FHM-10	FHM-12	FHM-15
Extended Height	m	4	6	8	10	12	15
Nested Height	m	1,34	1,58	2	2,1	2,22	2,4
Rated Pay Load	kg	25	25	25	25	25	25
Weight	kg	60	70	90	100	130	150
Survival Wind Speed	km/h	125	125	125	125	125	125
Deployment Wind Speed	km/h	100	100	100	100	70	70
Erection Time with Power	sec	20	40	60	80	120	160
Voltage	VDC	28	28	28	28	28	28
Foot Print	cmxcm	45x28	45x28	45x28	45x28	58x28	58x28



# FOM Series

It is made of carbon composite material and designed according to the needs of main battle tanks. FOM Series masts are designed to support and position payloads such as optical / thermal, communication and radar systems, in difficult geographic conditions.

## FOM Technical Advantages

1. It can lift heavy payloads like 200 kg.
2. Occupies less space due to compact design.
3. The carbon fiber body increases stiffness and strength.
4. Easily controlled from inside the vehicle.



FOM Series				
	Unit of Measure	SD 2.5	SD-4	SD-6
Extended Height	m	2,5	4	6
Nested Height	m	0,75	0,92	1,4
Rated Pay Load	kg	150	150	150
Weight	kg	110	150	180
Survival Wind Speed	km/h	125	160	125
Deployment Wind Speed	km/h	70	110	110
Erection Time with Power	sec	60	100	130
Voltage	VDC	28	28	28
Foot Print	cmxcm	45x33	45x33	45x33

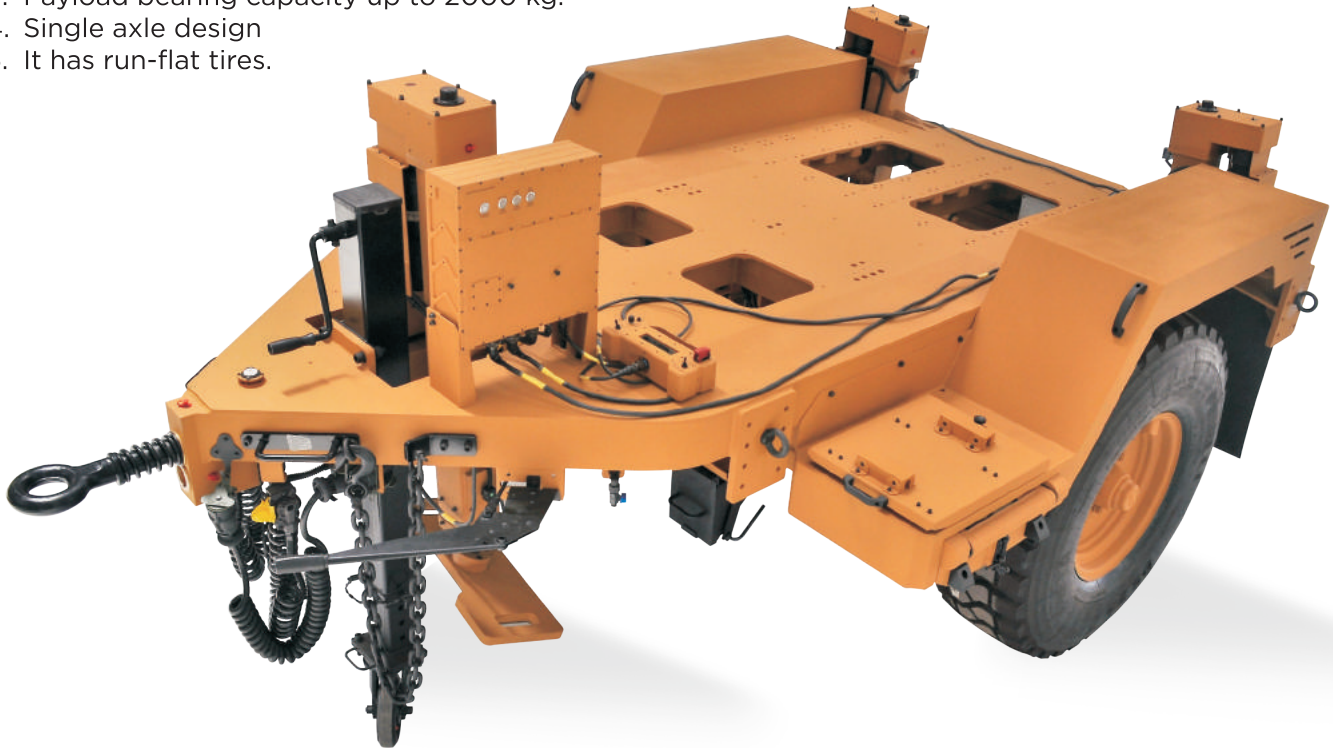


# **MILMAST Military Trailers**

As with the Mast product groups, military trailers made by MILMAST are integrated to different platforms through offering turnkey solutions. They can be used in support units such as field hospitals and kitchens and can be easily integrated with radar, antenna, weapon and mast systems.

## **MILMAST Military Trailers Technical Advantages**

1. It has an automatic leveling system up to 7 degrees.
2. It has a lightweight aluminum body.
3. Payload bearing capacity up to 2000 kg.
4. Single axle design
5. It has run-flat tires.



# STANDARDS



**EMI/EMC**  
MIL-STD-461F



**Rain**  
MIL-STD-810G  
Method 506.5



**Fungus and  
Mould Growth**  
MIL-STD-810G  
Method 508.6



**Salt Fog**  
MIL-STD-810G  
Method 509.5



**Icing and Freezing**  
MIL-STD-810G  
Method 521.3



**Vibration**  
MIL-STD-810G  
Method 514.6



**High Temperature**  
MIL-STD-810G  
Method 501.5



**Dust and Sand**  
MIL-STD-810G  
Method 514.6



**Shock**  
MIL-STD-810G  
Method 516.6



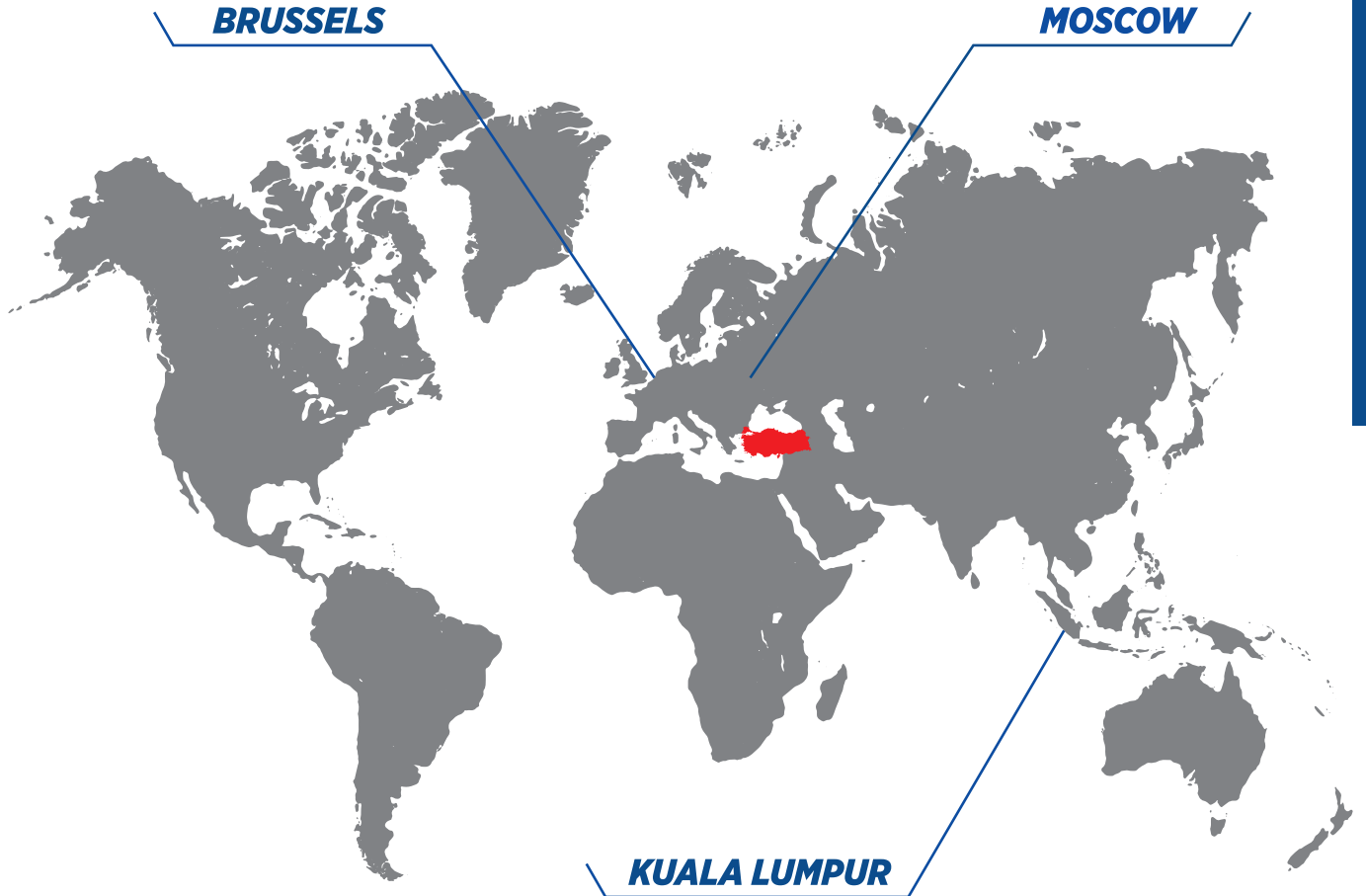
**Low Temperature**  
MIL-STD-810G  
Method 502.5



**Low Pressure**  
MIL-STD-810G  
Method 500.5

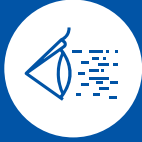
# ***OUR REPRESENTATIVES***

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Radar Systems



Optical Systems



Communication



Marine Vehicles



Land Vehicles



Quiet  
Operation



Private  
Solutions



Global Technical  
Support

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