



Hydraulic Mast

Applications:

Quick Deployable Vehicle Borne Hydraulic Mast

- **Electro Optical Payload**
- **Radar Surveillance Systems**
- **Communication Systems**



System Controls offers Telescopic Mast that can be mounted on Communication Vehicle, Ground and roof tops for military and commercial applications. The masts are made from hard chrome plated ST 52 BK material, which is highly reliable and are very simple to erect for tactical deployment. The masts are designed employing the latest Design and analysis software for structural analysis at different wind load conditions. The masts are designed to meet rigorous MIL-STD 810E or JSS55555 for environmental standard for operation and storage, including low-pressure (high altitude) operation.

Hydraulic Mast

Mode of operation	:	Hydraulic
Extended height	:	17 ± 0.2m
Retracted Height	:	3.75 ± 0.2m
Number of Cylinders	:	6 nos
Number of Telescopic Extensions	:	5 nos
Maximum permissible Extended Height Of the Mast when the vehicle is moving	:	8.5± 0.5m
Maximum speed of Extension/Retraction	:	0.5 m/s
Approximate time needed for total Extension/retraction under normal conditions	:	10 minutes
Material of the hydraulic cylinders	:	ST 52 BK (hard chrome plated)
Hydraulic fluid used in the system	:	Veedol Atransol-46
Head load carrying capacity	:	100 kg(Max of 250 kg at rated pressure)
Operating Pressure	:	10 bars
Maximum weight of the mast when extended (including fluid)	:	2000 kg
Verticality *	:	
Upto 60 kmph wind speed	:	within 1 mill radian
60 to 160 kmph wind speed	:	within 5 mill radian
· Accumulator :		
Maximum working pressure	:	330 bar
Volume	:	50 ltrs
Dry weight	:	115 kgs
Temperature range	:	-20 C to 80 deg C
Type	:	diaphragm

Environment

Temperature

Operational temperature range	:	- 20° to +80° C
Storage temperature range	:	- 20° +100° C
Humidity	:	up to 95% RH at 40°
Maximum Altitude of operation	:	5000 m

Wind speed

Operational speed	:	upto to 130 kmph
Survival speed	:	upto 175 kmph
Endurance	:	capable of working for 24 hrs/day at remote places without major adjustments. With the support for guy wires

SYSTEM CONTROLS

Corporate Office: 119, 3rd Main,
East of NGEF Layout, Kasturi Nagar
Bengaluru- 560043
Ph:080 40820400 Fax:080 40820426

Versatility is Reality

