

The Elevated Mast Platform (EMP) From FALCK-SCHMIDT Systems can be configured in any combination.

- Power need, payload capability and speed are unmatched (Patented)
- Mast backlash, in all axis, incl. Azimuth is basically 0 at any height/Mast extension (Patented)

Two examples are:

1. 5,0 m EMP, payload 20 kg/45 lbs.
2. 9,3 m EMP, payload 240kg/545 lbs.

Mast type	Power operation Max./Nominel	EMP extension Time	Payload	EMP stowed length	EMP extended length
EMP 5.0-1.3-20	165 W	30 sec.	20 kg/45 lbs	1,3 m	5,0 m
EMP 9.3-1.2-240	185 W	60 sec.	240 kg/545 lbs.	1,2 m	9,3 m

EMP Controls.	SLIM Platform Control System and EMP Control Box (ECB-S)	ADVANCED Platform Control System and EMP Control Box (ECB-A)	EXTENDED Platform Control System and EMP Control Box (ECB-A)
Variant:	SLIM	ADVANCED	EXTENDED
EMP Operation	ECB-S with Switch and 2 LED's. Move switch up and down for extension/retraction and LED's indication of full up (Green) or full down position (Yellow).	ECB-A with display and 4 push buttons: * EMP up (Extension) * EMP Down (Retraction) * Service/Meny activation button * Light black out button Display info like Height, Error messages and meny's	ECB-A with display and 4 push buttons: * EMP up (Extension) * EMP Down (Retraction) * Service/Meny activation button * Light black out button Display info like Height, Error messages and meny's
Information/ Interface	NA	CAN based Information and control of EMP operaton. Provide control and information e.g. line of sight height to OCS, and information to a Drivers station	CAN based Information and control of EMP operaton. Provide control and information e.g. line of sight height to OCS, and information to a Drivers station
Control, Operation of the EMP Payload, incl. Wireless communitation (Remote operation) system	NA	NA	The CAN based information and control system is extended allowing control of and information from the EMP to also be wireless (tablet). Same control and display is also facilitated by the EMP Platform control System for the EMP payload (e.g. sensors, weapons incl. Laser, GPS, Radio communication gear etc.)

EMP Provided capability, Operational				
EMP Variant:	SLIM	ADVANCED	EXTENDED	Definitions:
EMP Standby	NA	In the Standby mode, the EMP automatically occupies the defined Standby position when selected at the PCS. The EMP Payload may be mounted or dismounted in this operational mode.	In the Standby mode, the EMP automatically occupies the defined Standby position when selected at the PCS. The EMP Payload may be mounted or dismounted in this operational mode.	This mode also allows the operator to conduct preventive maintenance. While in this mode, the EMP must be capable of withstanding the loading associated with operating the vehicle at a combined vehicle and wind speed of up to 85 km/h.
EMP Operation On the Move (OTM) (OTM Height to be defined with Customer)	NA	In the Operational On-The-Move (OTM) mode, the EMP safely occupy the OTM position when selected by the Operator. While in this mode, the EMP with the Payload withstands the loading associated with operating the Vehicle at combined vehicle and wind speed of up to 85 km/h.	In the Operational On-The-Move (OTM) mode, the EMP safely occupy the OTM position when selected by the Operator. While in this mode, the EMP with the Payload withstands the loading associated with operating the Vehicle at combined vehicle and wind speed of up to 85 km/h.	a. Primary and Secondary Roads up to maximum speed of 50 km/h over primary or secondary roads; (1) a primary road is a paved road of continuous asphalt; and (2) a secondary road is compacted gravel or dirt. b. Cross-Country up to maximum speed of 20 km/h cross-country over uneven terrain. Cross-country terrain can be described as; (1) exposed bare sand, sandy soil and clay surfaces covered by grass and other vegetation, and table rock, rock outcroppings or loose rock surfaces; (2) stretches of level ground separating hills of heights at least 100m above those of the level surfaces, and with slope of not more than 30%; (3) streams and loose-surfaced all and dry weather tracks; and (4) operation in medium vegetation in all directions; and c. vehicle inclinations of up to 30% in any direction.
EMP Operational Stationary (EMP at any desired height up to Fully extended)	NA	In the Standby mode, the EMP automatically occupies the defined Standby position when selected at the PCS. The EMP Payload can be mounted or dismounted in this operational mode. This mode also allows the operator to conduct preventive maintenance. While in this mode, the EMP can withstand the loading associated with operating the vehicle at a combined vehicle and wind speed of up to 85 km/h.	In the Standby mode, the EMP automatically occupies the defined Standby position when selected at the PCS. The EMP Payload can be mounted or dismounted in this operational mode. This mode also allows the operator to conduct preventive maintenance. While in this mode, the EMP can withstand the loading associated with operating the vehicle at a combined vehicle and wind speed of up to 85 km/h.	
EMP Operational Stationary	In the Operational Stationary mode, the EMP with the EMP Payload can be elevated to a stabilized operational position up to the maximum height.	In the Operational Stationary mode, the EMP with the EMP Payload can be elevated to any operational position up to the maximum height. The EMP can sustain slow speed changes in host vehicle position, with the Payload elevated, which may be required to improve line of sight (LOS).	In the Operational Stationary mode, the EMP with the EMP Payload can be elevated to any operational position up to the maximum height. The EMP can sustain slow speed changes in host vehicle position, with the Payload elevated, which may be required to improve line of sight (LOS).	The EMP with the elevated EMP payload can sustain: a. cross-country movement at speeds of less than or equal to 4 km/h for up to a distance of 100 m; b. self-calibration after any movement; c. wind speeds of up to 35 km/h; and d. vehicle inclinations of up to 30% in any direction.
EMP Manual Operation	The EMP can be being manually operated over the full extension range by one crew member.	The EMP can be being manually operated over the full extension range by one crew member.	The EMP can be being manually operated over the full extension range by one crew member.	Manual Hand crank and Brake release.

The EMP meets its performance under the following MIL-STD-810H climatic conditions:
a. Operations, without preparations: A1 (+49°C), B2 (+35°C), and C2 (except using a minimum temperature of -40°C instead of -46°C inclusive), at sea level; and
b. Storage and transit: A2 (+63°C) B2 (+63°C) and C2 (except using a minimum temperature of -40°C instead of -46°C inclusive), at sea level.