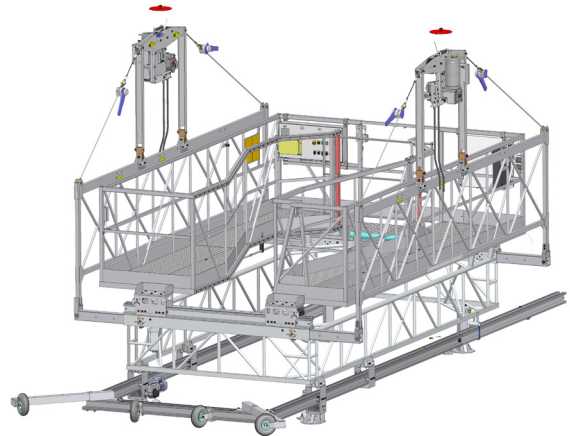


Blade Maintenance Platform

UVM10L 2019



Blade Maintenance Platform UVM10L 2019 Safety Factor 8 Europe

Product Description:

The Blade Maintenance Platform UVM10L 2019 is used as rotor blade traversing systems for the temporary inspection of the rotor blades in wind energy systems fitted on circular steel or concrete towers. The UVM10L 2019 is an easy to install solution to reach most of the installed blades of about 2MW turbines.

UVM10L 2019 consists of three main functional groups and it is made entirely from welded aluminium:

- **Two asymmetric working half-platforms** connected to the base frame by an undercarriage. They can be moved apart or closer together separately or at the same time in order to adjust them precisely to different rotor blade cross-sections.
- **One base support frame with side mounted trapezoids**, on which the hoist parallelograms plus rope hoists **tirak™ (X1030 P)** and fall arrest devices **blocstop™ (BSO 1030 EFA)** are fitted.
- **An electric positioning frame** with adjustable bumper rollers ensures a stable ascent and descent along the turbine mast.

UVM10L 2019 main safety features among many others are:

- Automatic triggering of the **blocstop™** fall arrest device in case of **inclination** of the platform and **overspeed**.
- **Emergency Power Supply**: if power supply fails an emergency descent is always possible.
- Sliding clutches : the gear motors for the two platform halves are fitted with **sliding clutches to prevent damages** if any of the components are blocked during intentional movement.
- The parallelogram inclination can be adjusted using the **bravo™** lever hoists and this ensures that the platform's centre of gravity can be anytime re-aligned.
- **Monitoring of the wind speed** and visual alarm for the operators.
- Optional blade and tower supports available upon request.

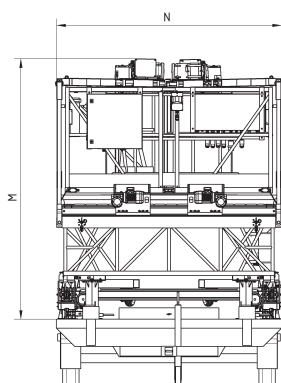
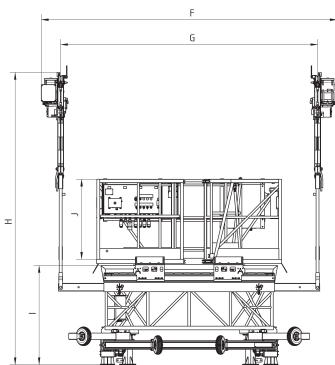
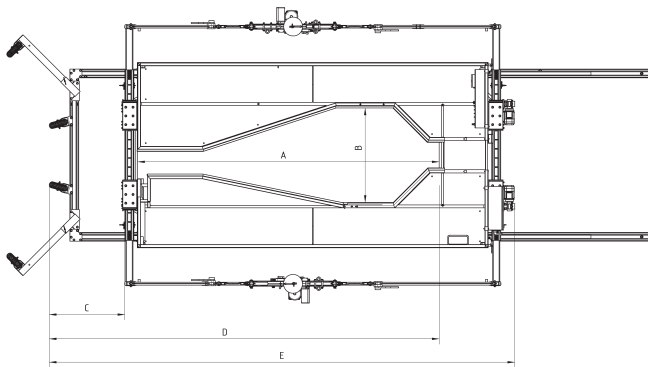
Technical Description:

Working conditions:

- Temperature range: -10°C to +50°C
- Max. allowed wind speed: 12 m/s
- The rotor blade must be blocked in "pitch"-position; additionally the collar has to be blocked in the way that the rotor blade is showing vertically downwards
- Diagonal angle of the suspension wire ropes may be a maximum of 16°.

Transport:

The platform is transportable on a flat bed trailer. The trailer is equipped with 4 points for securing and centering the maintenance platform as well as auxiliary hoists for positioning the platform.



For 130 m height Europe SF 8		UVM10L 2019
A	Platform opening length	4,2 m
B	Platform opening width	1.0 - 2.15 m
C	Positioning frame pullout	0.2 to 3.75 m
D	Safety roller / bumper roller clearance	4.6 to 10.9 m
E	Length with positioning frame retracted	8,2 m
F	Width	3.0 to 4.0 m
G	Suspension wire ropes clearance	2.5 to 3.5 m
H	Overall height	4.0 m
I	Substructure height	1.4 m
J	Guardrail height	1.1 m
M	Transport height	2.88 m
N	Transport width	2.5 m
Max. permitted wind speed		12 m/s = 44 km/h
Rated speed		9 m/min (50 Hz) - 11 m/min (60 Hz)
Temperature range		-10 to +50 °C
Rated load		400 kg
Rated load (each half of the platform)		200 kg
Independent secondary brake (2x)		blocstop™ BSO EFA 1030
Traction hoist (2x)		tirak™ X 1030P
Working load limit (2x)		980 kg
Noise emission (at a distance of 1 m)		70 dB (A)
Supply voltage		400 V / 50 Hz or 400 V / 60 Hz
Power plug		CEE (3P + N + PE)
Control voltage		48 V / 50 Hz or 48 V / 60 Hz
Radio control		434 MHz (alternative 2,4 GHz)
Fuse		16 A
Protection category		IP 55
Length of power supply cable		max. 150 m
Dimension - weight		(5 x 2.5 mm ² - 0,25 kg/m)
Nominal wire rope diameter		Ø 10 mm

For 150 m Height Europe SF 8		UVM10L 2019
Rated load		400 kg
Rated load (each half of the platform)		200 kg
Length of power supply cable		max. 170 m
Dimensions - weight		(5 x 4 mm ² - 0,41 kg/m)*

* Excess weight in comparison with cable 5 x 2.5 mm² must be subtracted from the given rated load as necessary