



K-BP-0

SAFE | INNOVATIVE | ECONOMICAL

SALES, RENTAL, SERVICE & TRAINING WORLDWIDE

WWW.KAEUFER.DE



K-BP-0

- ✓ Käufer is a privately owned leading company in the business of blade access systems world-wide.
- ✓ More than 30 years of experience in access systems
- ✓ Made in Germany with in-house engineering and manufacturing
- ✓ Custom-engineered platform and cutting edge technology with certified products
- ✓ More than 300 rotor blade platforms installed world-wide
- ✓ Service partners in all seven continents
- ✓ Experienced with all types of wind turbines, for example Vestas, GE, Noderx, Siemens, Enercon and more

Strong winch with all time access

K-BP-0 is equipped with 2 x 1000 kg at the main frame. These give the platform extra capacity reserve. All these winches are in direct reach to the technicians all the time, which is one of the platform's key features.

250° access with 15 m TTC

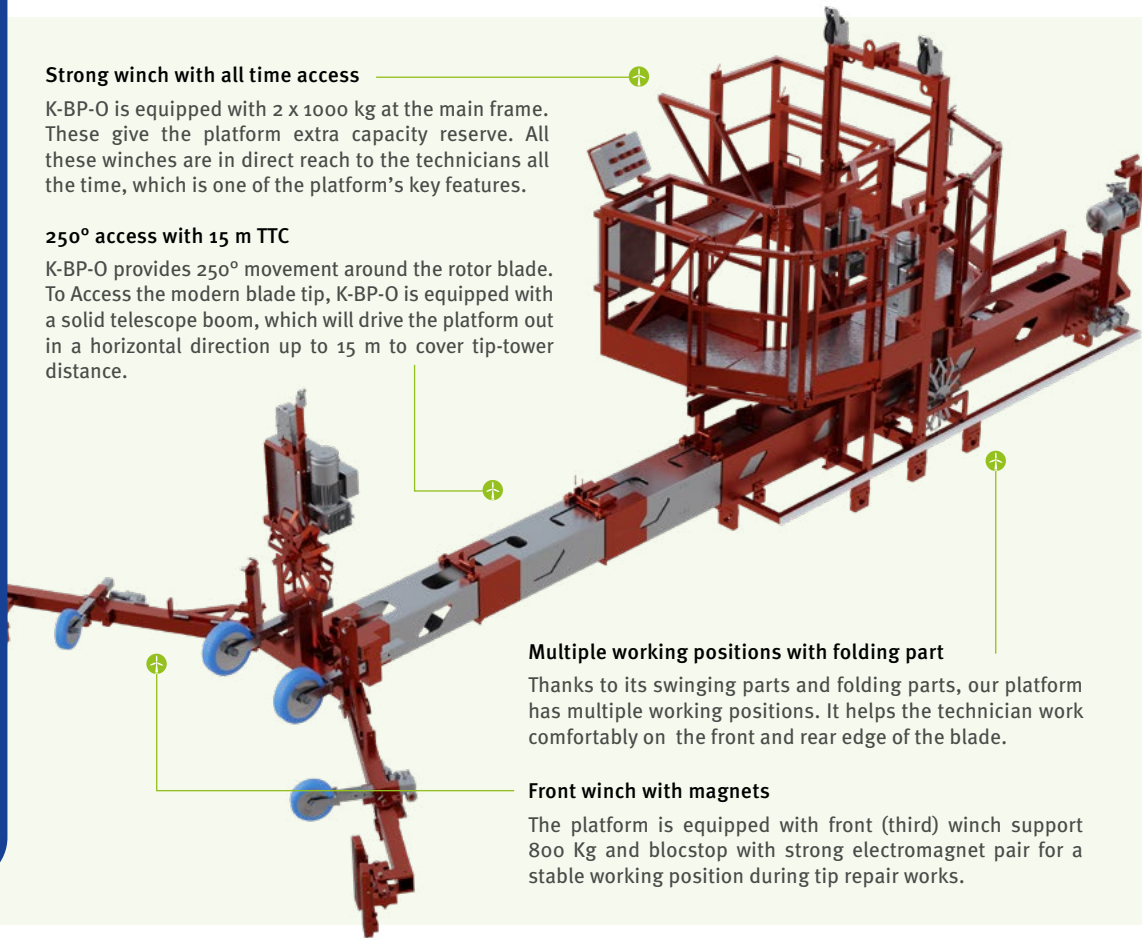
K-BP-0 provides 250° movement around the rotor blade. To Access the modern blade tip, K-BP-0 is equipped with a solid telescope boom, which will drive the platform out in a horizontal direction up to 15 m to cover tip-tower distance.

Multiple working positions with folding part

Thanks to its swinging parts and folding parts, our platform has multiple working positions. It helps the technician work comfortably on the front and rear edge of the blade.

Front winch with magnets

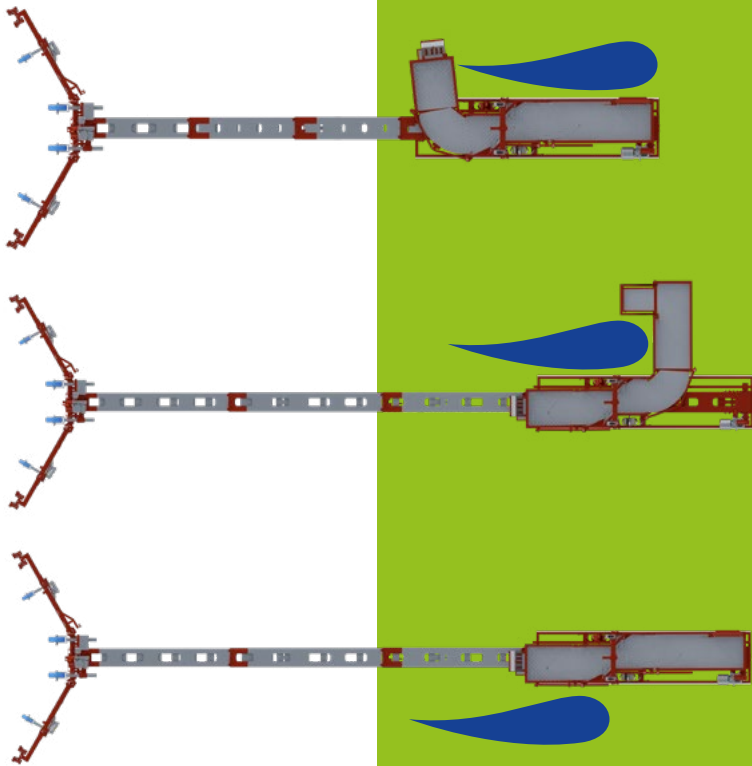
The platform is equipped with front (third) winch support 800 Kg and blocstop with strong electromagnet pair for a stable working position during tip repair works.



Our K-BP-0 platform is specially designed to work efficiently on the tip area and at the root area. Folding parts and swinging parts increase the operational productivity with multiple working positions.

250° ACCESS

The contour of the Platform allows technicians to work and move 250° to the blade, where a chord length & root diameter of any length can be repaired.



K-BP-0 AT THE TIP OF BLADE



K-BP-0 AT THE ROOT OF BLADE

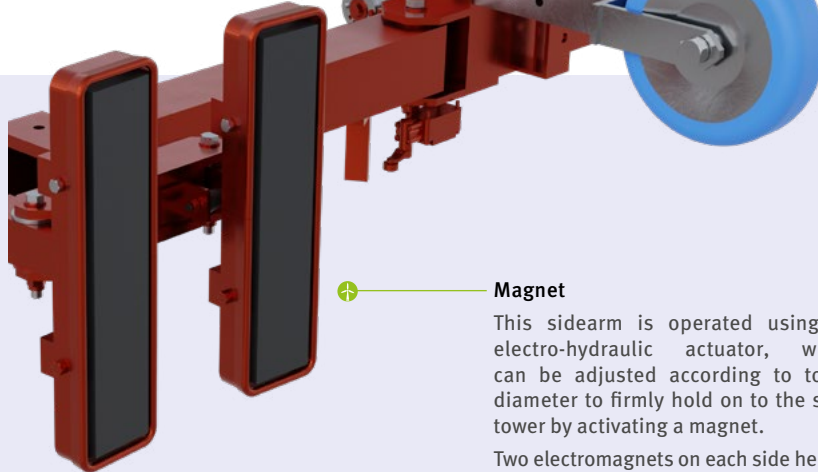
FRONT WINCH ASSEMBLY WITH SIDE ARM

The platform has a 3rd winch assembly at the front, and it makes the platform stable as on three leg principle. Due to its innovative design, the K-BP-O also offers all-time access to its third winch in case of an emergency, which is very important.

The front winch assembly also provides:

- A fall arrest device.
- A rope collector.
- Drop-down arms with tower wheels.
- Stabilizing electromagnets at their tips.

The rope collector prevents the hassle of managing ropes in small TP conditions, and tower wheels help drive the platform on the tower up and down.



Magnet

This sidearm is operated using an electro-hydraulic actuator, which can be adjusted according to tower diameter to firmly hold on to the steel tower by activating a magnet.

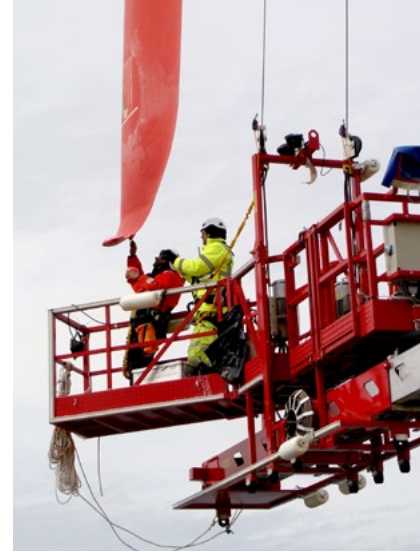
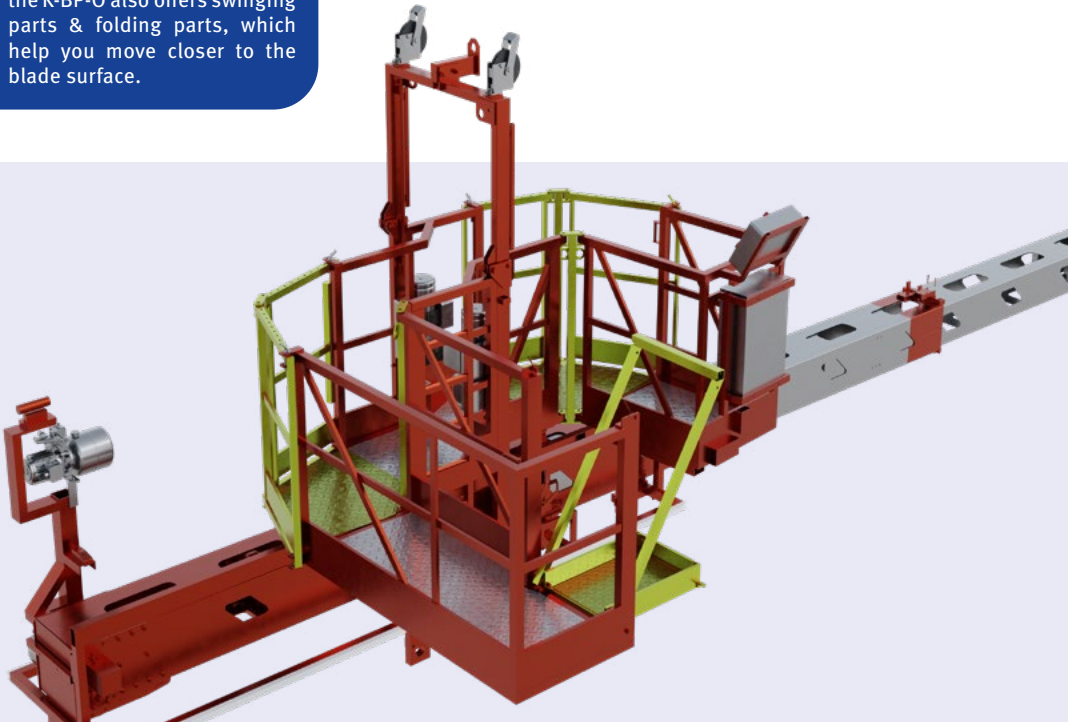
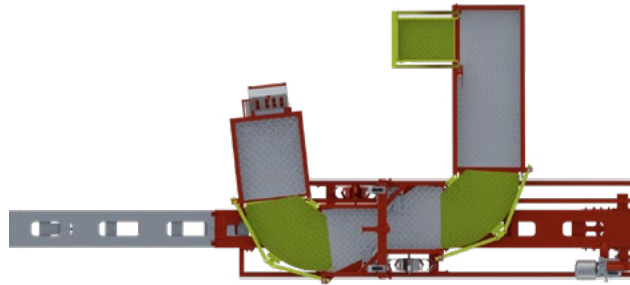
Two electromagnets on each side help to hold the tower position firmly in case of working at 15 m away from the tower in intense wind conditions.

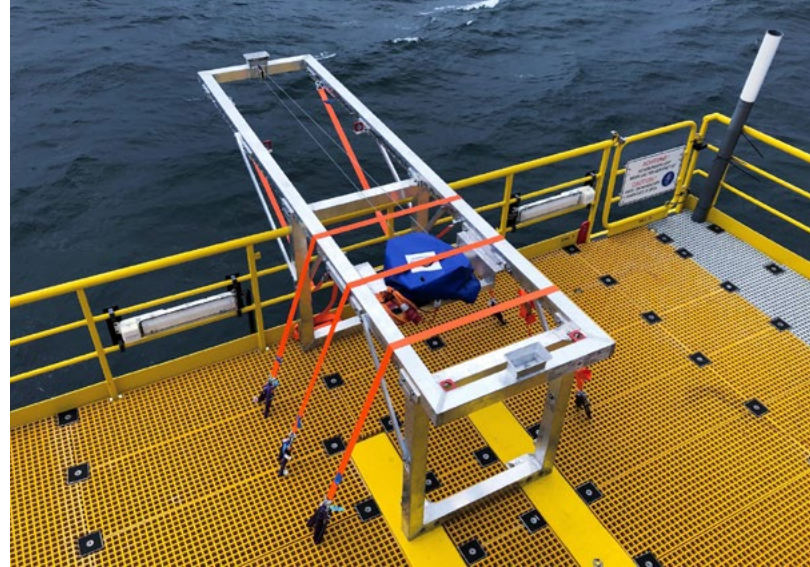


ACCESS TO BLADE SURFACE

Wind turbines are getting bigger every day, and tip-tower distance is an important parameter to consider while searching for the best solution for your wind farm. The K-BP-O's rails make it possible to bridge a distance of 15 m from the tower to the blade tip.

With all-around 250° access, the K-BP-O also offers swinging parts & folding parts, which help you move closer to the blade surface.





DOCKING STATION

The TP (tower platform) on offshore wind turbines comes in various sizes, and sometimes it is not big enough to park the platform. The parking of the platform is required in multiple cases:

- Lifting the platform from the ship
- For assembly or disassembly
- For a start and stop of work
- Take a small break or overnight break in the mid of the operation.

This docking station can be fitted on any TP, providing a fixed and safe parking zone for the platform. It minimizes the workload and offers an easy and fast solution for parking and assembling.





PROTECTION ROLLER

In addition to a permanently mounted protection roller at the mainframe, we also provide mobile rollers, which can be positioned at multiple positions to secure the blade from the platform structure.



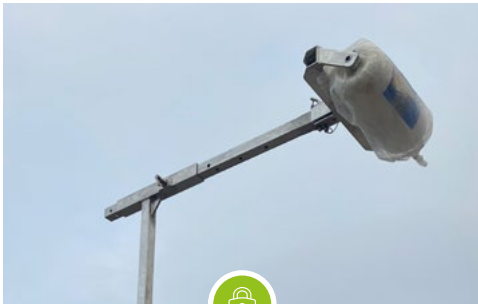
REMOTE CONTROL

K-BP-O can be operated using a remote control. We also provide a control panel on the control box in case of remote control loss or damage.



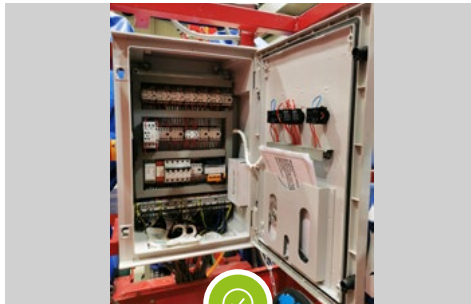
EASY ASSEMBLING

The platform is designed so that the mobilizing can be done in a short time on the TP. This reduce downtime and rise working hours for the operation.



BLADE TIP HOLDER

Working at the tip is the most vibrating experience in the total operation. To minimize this vibration and provide stable support, we offer blade tip holders.



SIMPLE IS BETTER

The Platforms is a complex structure, and they need to operate in remote areas. With this in mind, we have kept our electrical control box as simple as possible and provided important spare parts directly in the box.



ROPE COLLECTOR IN PLATFORM

We provide this rope collector where winch ropes are wound to make rope installation more accessible, faster, and hassle-free. It is also helpful when ropes get mingled.



EFFICIENT LOGISTIC

Any service van can transport the K-BP-O with a pulling capacity of 3,5 t. The Platform is dismantled on a standard 3,5 t trailer with a brake light connection. The transport on a trailer fulfills all requirements of European transport regulations and doesn't require any special permits or changes. Due to its compact design, the K-BP-O doesn't need ample space on a CTV, and it can also be transported on a small ship.

Dead weight	1600 kg
Working load	400 kg (max 3 persons and material)
Drive unit / Winches	3-1000 (X1030)
Fall arrest devices	1- BSO 1030
Suspension & safety ropes	4 x 10 mm
Tip-tower clearance	min. 0,5 m to max. 15 m
Operating temperature and wind speed	-10 °C to +50 °C and Wind max. 12 m/s
Maximum Hub Height	200 m
Power	400 V/50-60 Hz/32A
Input power requirement	Min 13 kVA
Power cable	5x4 mm ² IP 44
Control system	Remote control & panel
Assembly Time	30 min. + Rope installation
Material platform and Suspension frame	Aluminium structure and galvanised steel suspension frame
Protection class	IP55
Certification	DIN EN 1808:2015 Certified by TÜV Rheinland
Manufacturing & Delivery Place	Hückeswagen, Germany
Dimension Transport mode	6000 x 1600 x 2200 mm
Height on trailer	3000 mm
Weight on trailer	3200 Kg



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