



SALES, RENTAL, SERVICE & TRAINING WORLDWIDE

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GEBR. **KÄUFER**
GMBH
BLADE ACCESS SYSTEMS

K-BP-02

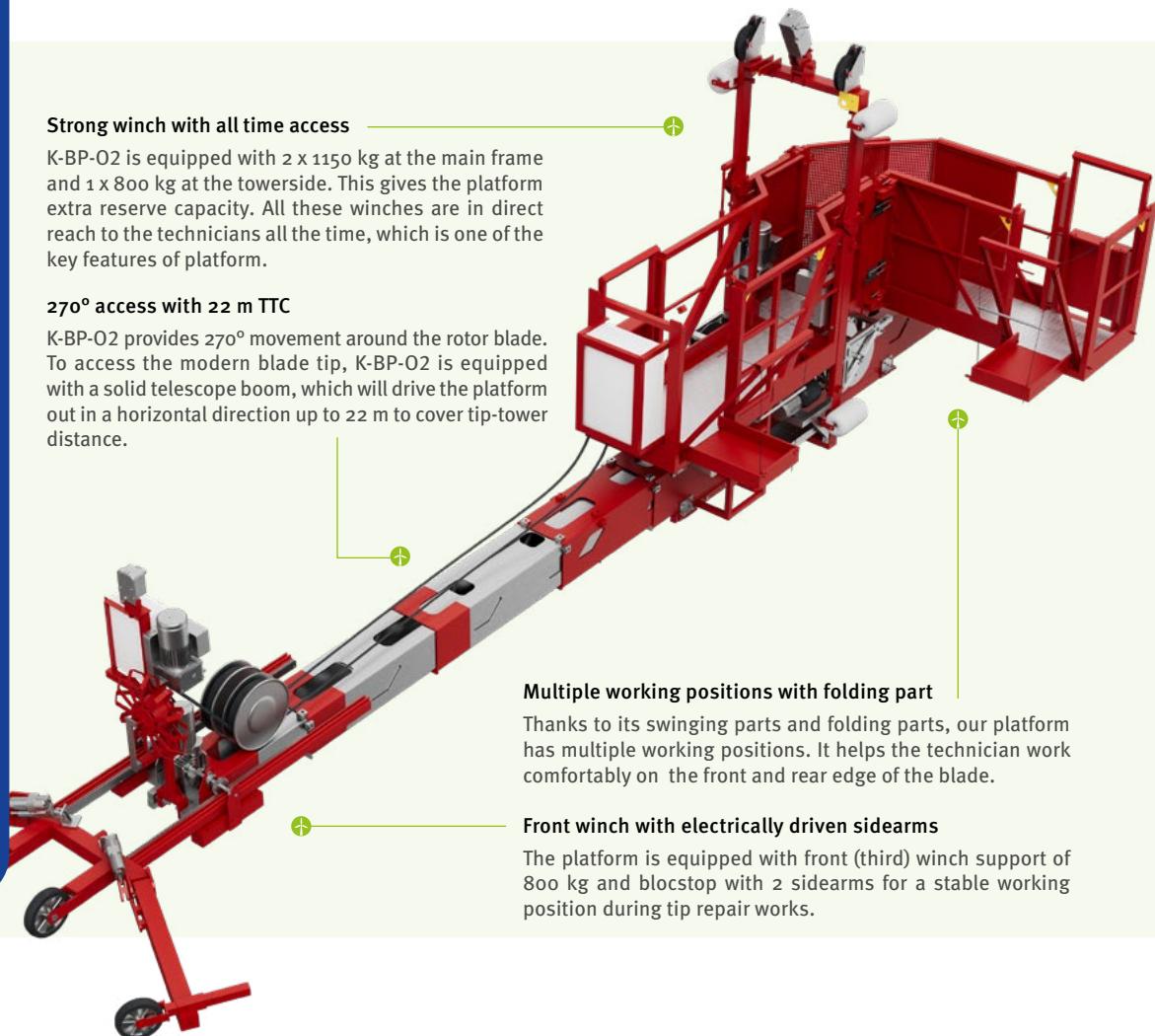
- ✓ Käufer is a private owned company and business leader in blade access systems, world-wide.
- ✓ More than 35 years of experience in access systems
- ✓ Made in Germany with in-house engineering and manufacturing
- ✓ Custom-engineered platform and cutting edge technology with certified products
- ✓ More than 350 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-02 is equipped with 2 x 1150 kg at the main frame and 1 x 800 kg at the towerside. This gives the platform extra reserve capacity. All these winches are in direct reach to the technicians all the time, which is one of the key features of platform.

270° access with 22 m TTC

K-BP-02 provides 270° movement around the rotor blade. To access the modern blade tip, K-BP-02 is equipped with a solid telescope boom, which will drive the platform out in a horizontal direction up to 22 m to cover tip-tower distance.



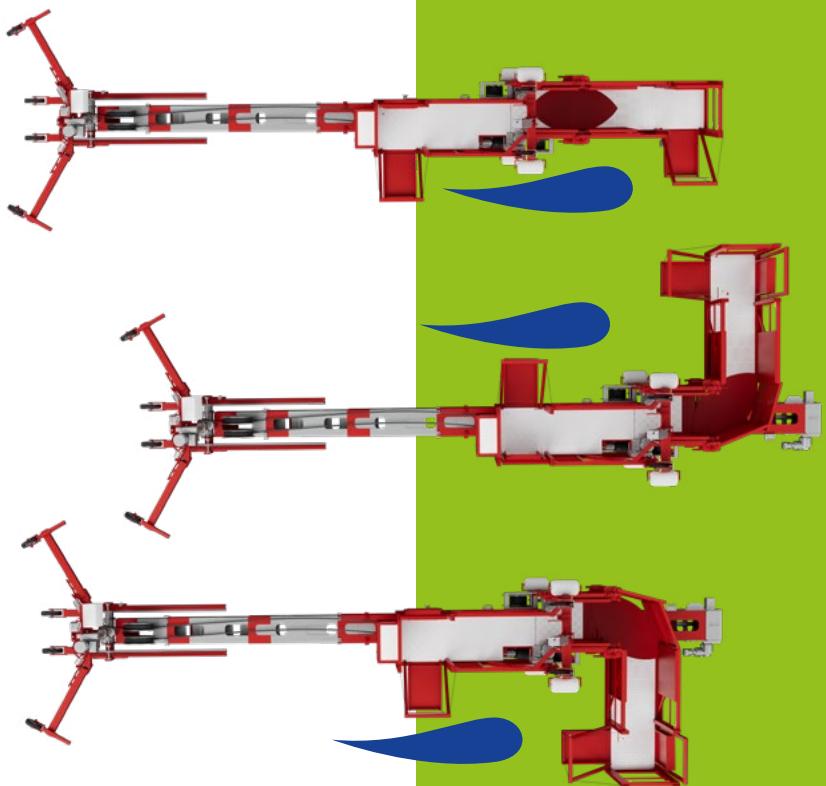
Multiple working positions with folding part

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 electrically driven sidearms

The platform is equipped with front (third) winch support of 800 kg and blocstop with 2 sidearms for a stable working position during tip repair works.

Our K-BP-02 platform is specially designed to work efficiently on the tip area and at the root area. Folding parts and electrically driven swinging parts increase the operational productivity with multiple working positions.



DOUBLE SIDED 270° ACCESS

The contour of the platform allows technicians to work and move 270° to the blade, where a chord length & root diameter of any length can be repaired.



K-BP-02 AT THE TIP OF BLADE



K-BP-02 AT THE ROOT OF BLADE

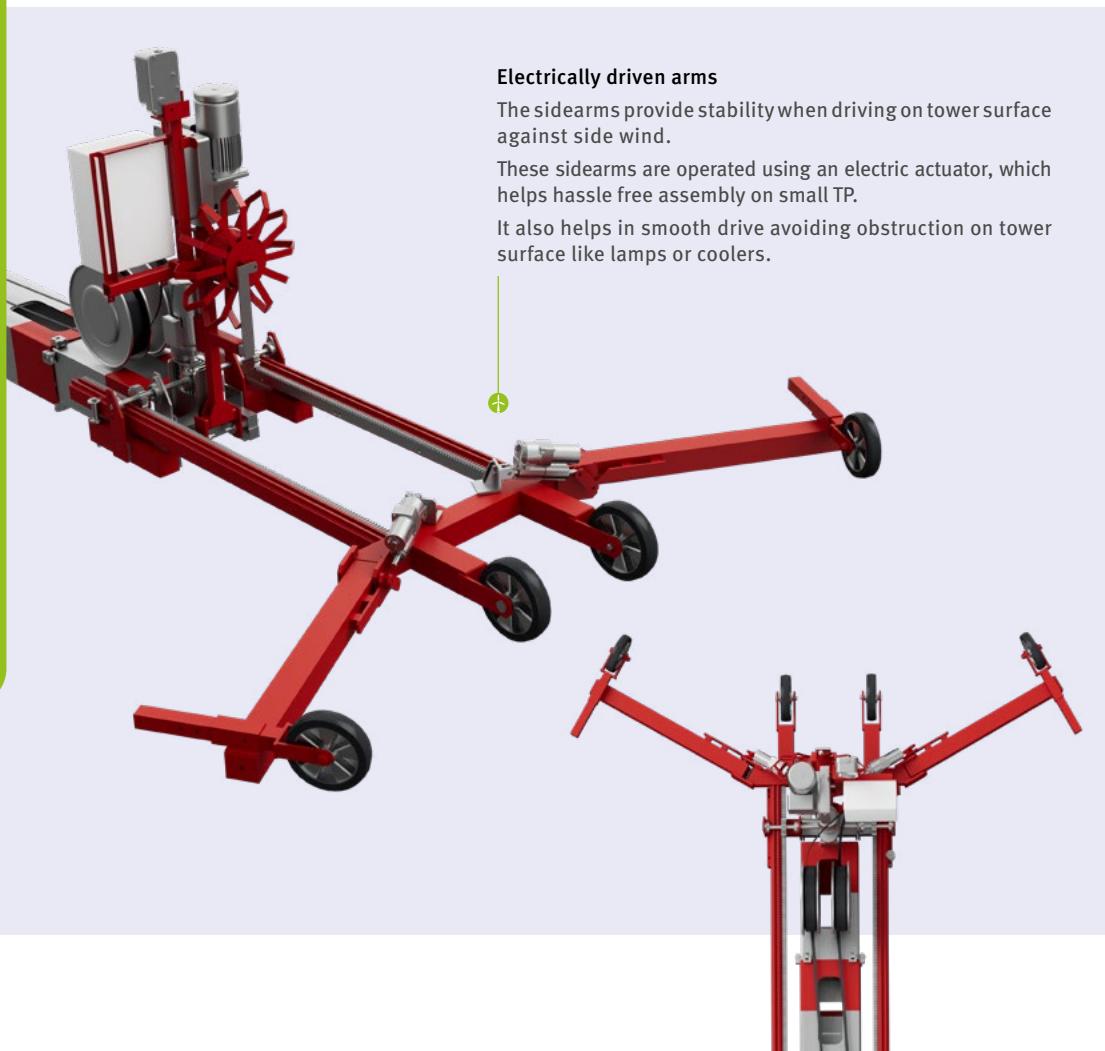
FRONT WINCH ASSEMBLY WITH SIDE ARM

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-O2 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.
- Electrically driven drop-down arms with tower wheels.

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



Electrically driven arms

The sidearms provide stability when driving on tower surface against side wind.

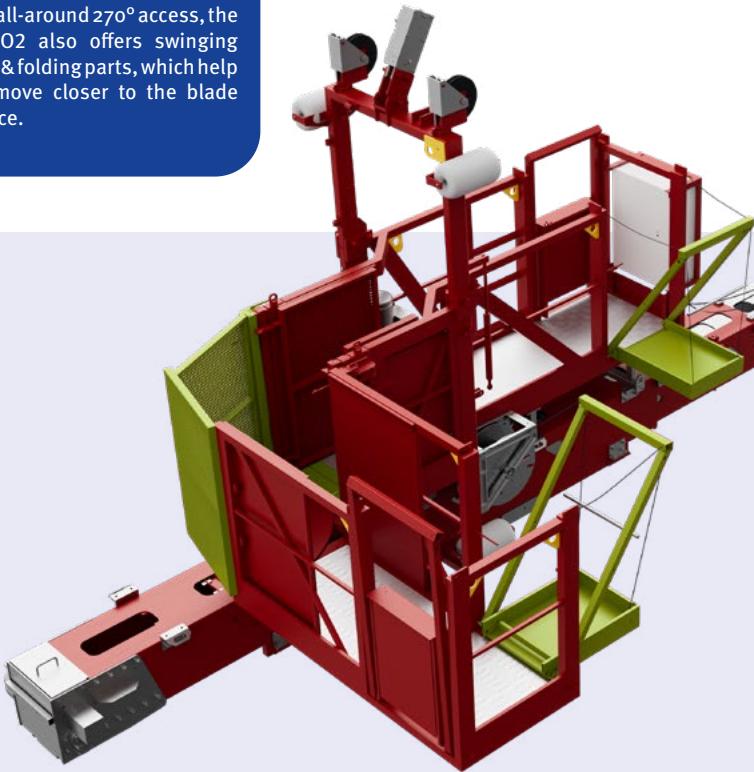
These sidearms are operated using an electric actuator, which helps hassle free assembly on small TP.

It also helps in smooth drive avoiding obstruction on tower surface like lamps or coolers.

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-O2's rails make it possible to bridge a distance of 22 m from the tower to the blade tip.

With all-around 270° access, the K-BP-O2 also offers swinging parts & folding parts, which help you move closer to the blade surface.

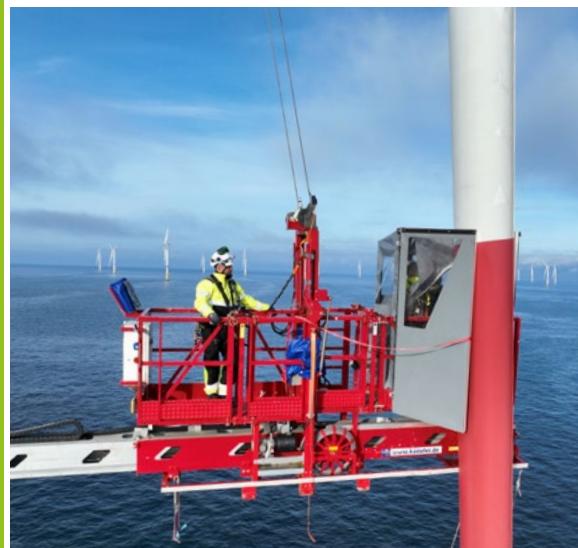


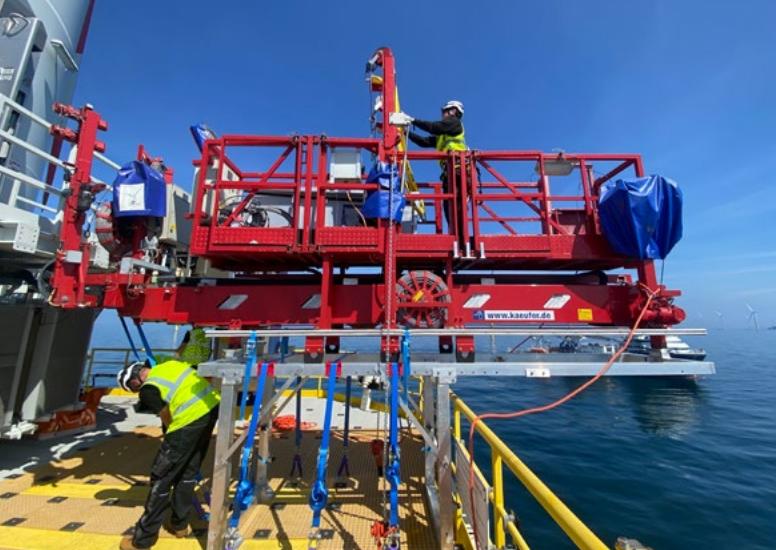
GET COMFORTABLE WITH OUR ATTACHMENTS

For our innovative K-BP-O2, Käufer also offers additional accessories to make your working time more comfortable. Our 2 m „flex protect“ is easy to mount, dismount and carry. It is an excellent option to cover your repair area and technicians in case of strong sunlight or light rain. In addition to that, we provide three-stage IR heaters and extra lightning so your work can be completed even in a dark, cold evening.

The setup time is less than 20 minutes, requires a single person, and it is a toolless assembly.

Käufer will provide a completely closed „flex shelter“ option for our customers soon.





DOCKING STATION

The TP (transition piece) 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 panel on the control box in case loss or damage of remote control.



EASY ASSEMBLING

The platform is designed so that the mobilization can be done in a short time on the TP. This reduces downtime and rises 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 platform is a complex structure, and it needs 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.



ELECTRICALLY DRIVEN ROPE COLLECTOR

We provide this rope collector where winch ropes are wound to make rope installation more accessible, faster, and hassle-free. It is a big advantage of not managing rope at small TP.



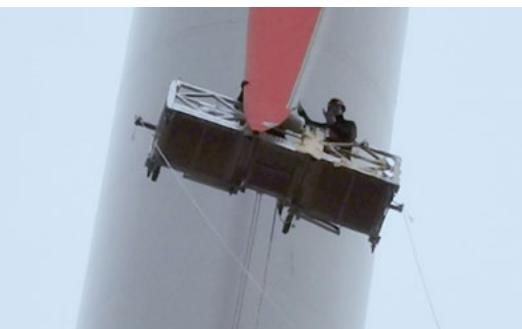
K-BP-0



K-BP-4



K-BP-2L



K-BB-1



K-TP-B



K-TP-V

FURTHER ROTOR BLADE ACCESS SYSTEMS IN OUR RANGE

For wind farms on land and at sea, we provide a wide range of special cable-suspended work platforms with which technicians can safely and ergonomically manoeuvre, inspect and repair the tower or the individual rotor blades.







Dead weight	1850 kg + ropes
Working load	300 kg (max 3 persons and material)
Drive unit / Winches	2-1150 kg (x 1140 P) 1-800 kg (x 820 P)
Fall arrest devices	1-2000 kg (BSO 2050) 1-800 kg (BSO 1020)
Suspension & safety ropes	2 x 11.5 mm, 2 x 9 mm, 1 x 14 mm
Tip-tower clearance	max. 22 m
Operating temperature and wind speed	-10 °C to +50 °C and Wind max. 12 m/s
Maximum Hub Height	130 m with rope storage 200 m without rope storage
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	6700 x 1300 x 2250 mm
Height on trailer	3250 mm
Weight on trailer	3250 kg

EFFICIENT LOGISTIC

Any service van with a pulling capacity of 3.5 t can transport the K-BP-O2. The platform is placed 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-O2 doesn't need ample space on a CTV, and it can also be transported on all types of vessel.



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