WIRTH GMBH

Operating Manual

Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24

as attachment for an OKTOPUS® GLASS-Jack GL-RN 400/600/800, GL-RN-F 400/600/800, GL-KN 1000, GL-KN-F 1000

Serial No.: _____

Technical Documentation
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1 General information on the OKTOPUS®

1.1 Manufacturer's information

Manufacturer's name and registered office:

WIRTH GMBH
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Brehnaer Straße 1
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Device characteristics:

Product description:	Counterweight balancer
Type:	GGA-EF 1000 24 1,5 4,3 B24
Serial number:	(see type plate)
Year of manufacture:	(see type plate)
Weight:	ca. 790 kg (including 24 pieces counterweights) 1 piece counterweight = 25 kg
Working Load Limit:	OKTOPUS® GLASS-Jack GL-RN 400/600/800 or GL-RN-F 400/600/800 or GL-KN 1000 or GL-KN-F 1000 + workload of the OKTOPUS®
CE mark:	according to EC-Declaration of Conformity Annex 1

Inspection tag according to Annex 2 attached to the device.

1.2 Service workshop

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1.3 Scope of Application

This operating manual represents the current state of technology and the safety measures defined by the European Machinery Directive valid at the date of issue of this manual.

Diverging or amending national regulations may not be taken into account.

To comply with these amending or diverging regulations is exclusively the responsibility of the user.

2 Proper use of the Counterweight balancer

2.1 Functional principle, use and safety concept

The Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 is designed as an attachment for an OKTOPUS® GLASS-Jack GL-RN 400/600/800 or GL-RN-F 400/ 600/800 or GL-KN 1000 or GL-KN-F 1000. In combination with the OKTOPUS® it allows installing large glass or façade elements in areas that are difficult to access (e.g. façade openings, eaves, sloped glazing). Furthermore, motor-driven counterweights allow balancing the OKTOPUS® including the load.

Specific safety requirements, which have been taken into account during construction, execution, technical documentation and in drawing up the operating instructions of the OKTOPUS®, result from the function of the combination counterweight balancer/OKTOPUS® being a load lifting attachment.

Therefore, strict adherence to the instructions and information for a proper and safe use given in the operating manual is a prerequisite for the manufacturer's warranty during the stipulated warranty period.

Combining counterweight balancer/OKTOPUS® with a hoist is the responsibility of the OKTOPUS® user. The user himself is responsible for proper implementation of the relevant guidelines and instructions. The instructions given in this operating manual by the manufacturer of the counterweight balancer and the OKTOPUS® are considered to be additional support.

Prior to initial startup the suitability of the combination counterweight balancer/OKTOPUS®/hoist in operating conditions has to be checked by skilled personnel.

Furthermore, the counterweight balancer has to undergo regular inspections by an expert (see point 4.1). An expert is a person that due to his technical training and experience has sufficient knowledge in the area of load lifting attachments and is familiar with relevant occupational and safety instructions, regulations and generally recognized codes of practice which enables him to assess operational safety of load lifting attachments.

The initial inspection of the combination hoist/counterweight balancer/OKTOPUS® as well as the successful performance of the annual inspection of the counterweight balancer by an expert has to be documented.

The manufacturer of the counterweight balancer offers expert inspections as a service and documents the inspections on the counterweight balancer by placing the inspection tag on the inspection card according to Annex 2 with the indication of the next test date.

If you need any further information, please contact us or visit our website www.wirth-gmbh.com.

2.2 Safety instructions

(1) Operate the counterweight balancer **exclusively** in combination with **an OKTOPUS® GLASS-Jack GL-RN 400/600/800** or **GL-RN-F 400/600/800** or **GL-KN 1000** or **GL-KN-F 1000!**

(2) Only employ cranes with a sufficiently high **Working Load Limit** in all possible working positions. Notice that the load to be lifted is the weight of the counterweight balancer plus the weight of the OKTOPUS® plus the weight of the sucked element plus, if applicable, the weight of the slings.

(3) **Never operate** a damaged, not fully functional or incomplete counterweight balancer!

(4) Prior to initial startup **have an expert check and document** the combination counterweight balancer/OKTOPUS®/crane!
(5) Only operate the crane with an **operating license**!
(6) Only operate the combination counterweight balancer/OKTOPUS® and the crane if you are familiar with **the control and display elements as well as the operating manuals**. You have to know how the functions affect the entire construction!
(7) **Prior to using** counterweight balancer, OKTOPUS® and crane check the function of the **control and display elements** as well as the **warning devices!**
(8) Never stand or walk **under the suspended load**!
(9) Make sure that **nobody climbs** the counterweight balancer, OKTOPUS® and the lifted load and **tries to ride along.**
(10) **In case of incidents** and maintenance work turn the counterweight balancer off.
(11) Never employ the counterweight balancer in **explosive areas or in the area of aggressive media!**
(12) Only work at **wind speeds less than 36 km/h**, otherwise you risk uncontrollable swinging of the load!
(13) Do **not** lift the load **higher than necessary!**
(14) **Always** wear suitable protective clothing, helmets, gloves and safety shoes in order to prevent injuries such as bruising and cuts!
(15) **Never** leave the lifted load unsupervised!
(16) Comply with the stipulated **maintenance information**:
- **Daily visual and functional inspection** of the control elements!
- Depending on the operating conditions, **but at least annually**, inspection by an expert!

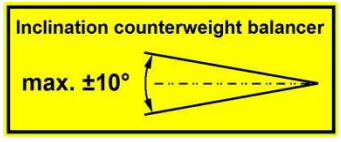
(17) Never modify the counterweight balancer in a way that safety is impaired. **Otherwise the manufacturer's warranty will be void!**
(18) Do not remove information signs, safety signs and inspection tags and plates from the counterweight balancer. **Otherwise the manufacturer's warranty will be void!**

2.3 Symbols and markings

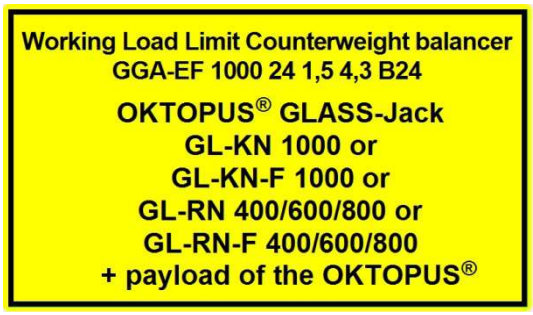
Signal word	Meaning	Consequences of non-compliance
DANGER	Warns of imminent threat of danger	Death or serious injury or substantial material damage as consequence.
WARNING	Warns of potential threat of danger	Death or serious injury or substantial material damages are possible.
ATTENTION	Warns of possibly dangerous situation	Light injury or material damages are possible.

Next to the type plate the following safety-related signs and pictographs are attached to the OKTOPUS®:

(Before operating, read and comply with operating manual as well as safety instruction!)



(General information)



(Working Load Limit OKTOPUS®)

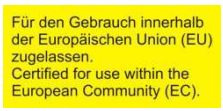
(Suspension point crane hook)

(Caution against crushing hazard)

(Inspection card)

(Beware of dangerous electrical voltage)

(Caution against crushing hazard)



(Information radio remote control)

2.4 Structure of the Counterweight balancer

The functional main assemblies of the counterweight balancer are (see fig. 1):

- the crane eye (1), to attach the combination counterweight balancer/OKTOPUS® to the crane,
- the adapter OKTOPUS® (11), to attach the OKTOPUS®,
- the trolley (16), to balance the load and
- the radio remote control, to operate the trolley.

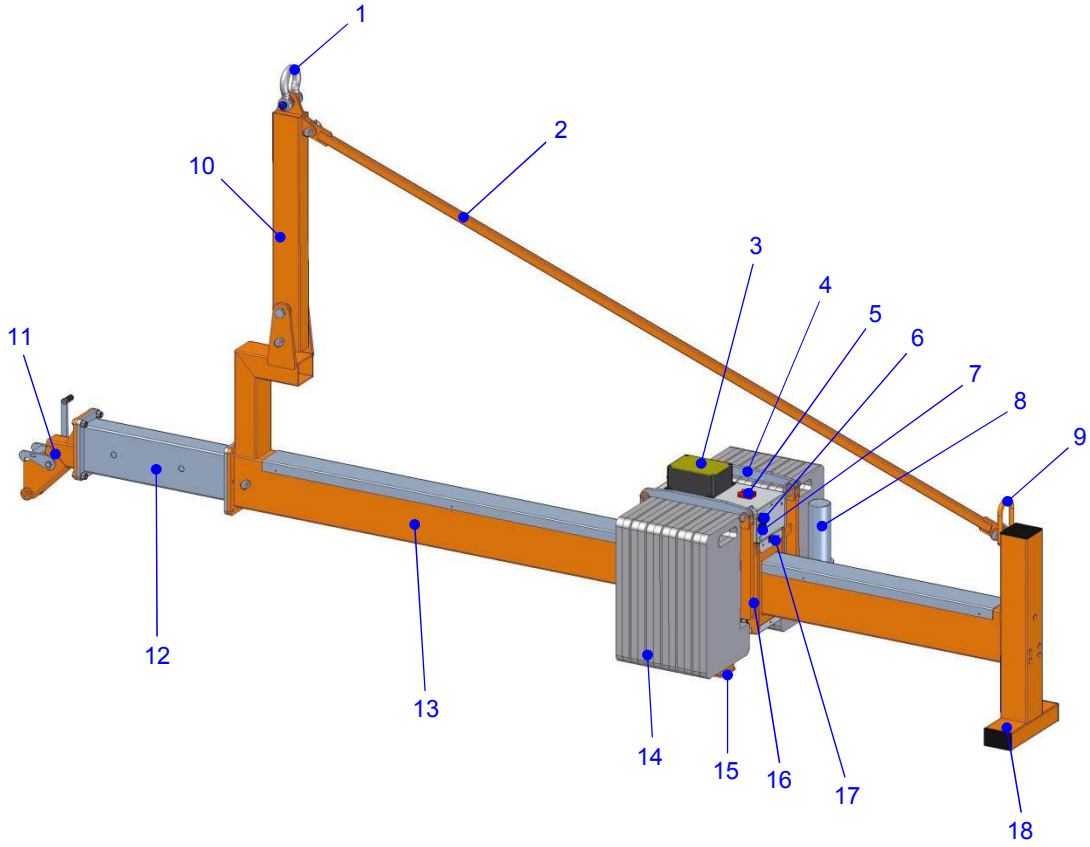


Fig. 1: Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24

1	Crane eye	10	Crane arm
2	Suspension	11	Adapter OKTOPUS®
3	Receiver radio remote control	12	Overhang telescopic
4	Safety clamp	13	Main girder
5	Socket battery charger	14	Counterweight
6	Main switch	15	Base A
7	Charge indicator	16	Trolley
8	Drive counterweights	17	Limit switch
9	Transport eye (Only for transport purposes of the counterweight balancer!)	18	Base B

The Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 is designed as an attachment for an OKTOPUS® GLASS-Jack GL-RN 400/600/800 or GL-RN-F 400/600/800 or GL-KN 1000 or GL-KN-F 1000 and is attached to a crane according to fig. 2.

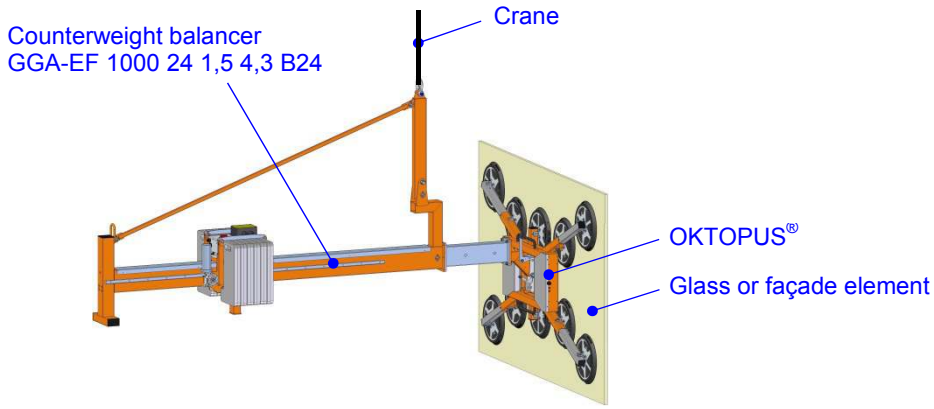


Fig. 2: Attachment GGA-EF 1000 24 1,5 4,3 B24

2.5 Functional dimensions of the counterweight balancer

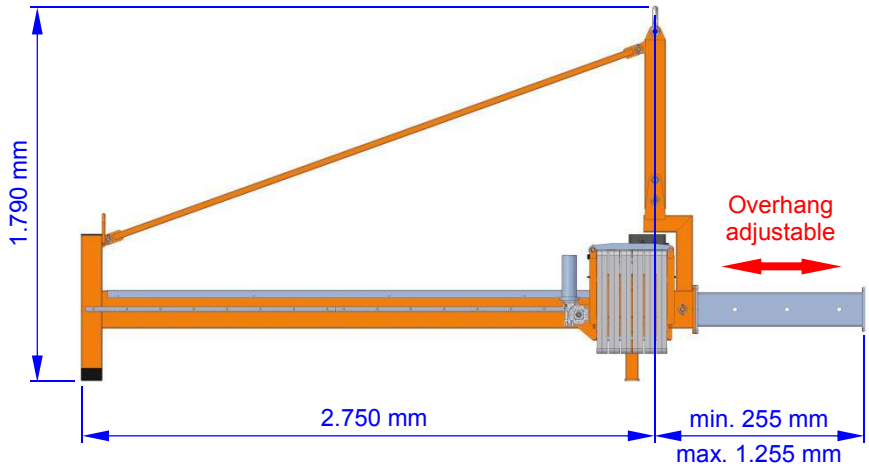


Fig. 3: Functional dimensions of the counterweight balancer

2.6 Operating conditions and restrictions

The Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 may only be operated in combination with an OKTOPUS® GLASS-Jack GL-RN 400/600/800 or GL-RN-F 400/600/800 or GL-KN 1000 or GL-KN-F 1000 and by instructed personnel.

Ambient temperature has to be at least 0 °C and must not exceed 40 °C (applies for 1013 mbar and sea level). The capacity of the used batteries decreases at low temperatures. The airborne sound emitted by the Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 amounts to less than 70 dB(A), which means that special protective measures are not required.

Operating restrictions result from the limited Working Load Limit of the Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 (see section 1.1 Manufacturer's information) as well as the performance data of the used crane and the construction site conditions.

The radio remote control of the Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 is programmed for the use within the European Union (EU). Please contact the Wirth Service Team if you want to employ the counterweight balancer outside the European Union.

2.7 Transport and storage

The counterweight balancer may only be moved with a suitable hoisting device/means of transport of appropriate Working Load Limit.

ATTENTION **For transport purposes take the counterweight balancer out of operation! Turn the main switch into position OFF!**

ATTENTION **To avoid damage to the batteries by deep discharge during storage, the counterweight balancer shall be charged at least every two weeks!**

WARNING **Use the transport eye (see fig. 1, pos. 9) for transport purposes of the counterweight balancer only.**

ATTENTION **To avoid damages to the device that may occur during storage for a longer period you should preserve the counterweight balancer, if applicable!**

For transport and storage purposes the height of the counterweight balancer can be reduced to ca. 990 mm and the length to ca. 3.010 mm. Perform the following steps one after another to reduce the height of the counterweight balancer:

- Drive the trolley into the position shown in fig. 4.
- Place the counterweight balancer on a firm, even surface.
- Remove the suspension (see fig. 1, pos. 2).
- Remove the locking bolt with lynch pin B (see fig 8).
- Fold the crane arm into the position shown in fig. 4.

Adjusting the overhang and by that the length of the counterweight balancer is described in point 3.3 (Preparation of the counterweight balancer) of this operating manual.

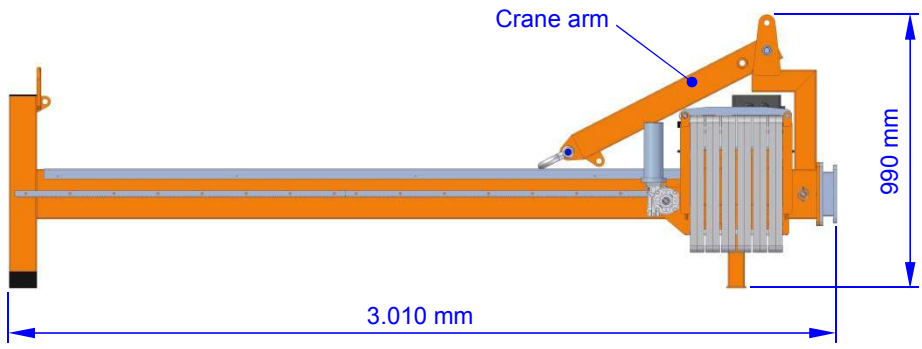


Fig. 4: Transport and storage of the counterweight balancer

2.7.1 Transport of the counterweight balancer

On the reverse of the transmitter of the radio remote control a flight mode/panic switch is located (see section 3.2 Radio remote control). This switch has to be in position 0/OFF when transporting the transmitter by plane.

For transport by plane the flight mode/panic switch of the transmitter of the radio remote control must be put in position (0/OFF)!

3 Instructions for using the OKTOPUS®

3.1 Electrical power supply

Electrical power supply is effected by a battery 24 V / 12 Ah (2 pieces 12 V batteries in series).

The battery's charge level is monitored through a charge indicator according to figure 5. Light-emitting diodes (LED) in the signal colors green, yellow and red indicate the current charge level after the counterweight balancer has been turned on.

The following charge levels can be read from the charge indicator:

⇒ If at least one green LED is illuminated, the battery is charged. You can operate the counterweight balancer.

⇒ If the third LEF from the left (yellow LED) is illuminated the battery should be charged.

⇒ If the second LED from the left (yellow LED) is flashing or the second LED from the left (yellow LED) and the red Led are flashing alternately, the battery has to be charged instantly in order to avoid deep discharge and by that possible damage.

The charge indicator is arranged on the counterweight balancer according to figure 1.

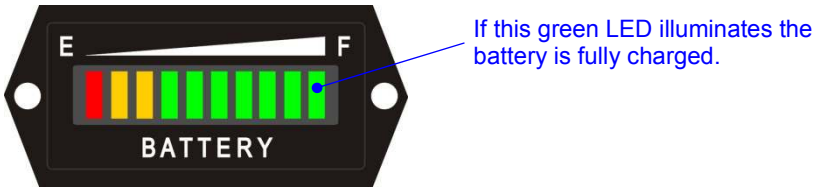


Fig. 5: Charge indicator

WARNING **Do not use the counterweight balancer, if the yellow LED is flashing, or the yellow and the red LED are flashing alternately. Possibly sucked loads shall be lowered. The counterweight balancer has to be charged instantly in order to avoid deep discharge and by that possible damage to the battery.**

ATTENTION **The user has to ensure that the battery is properly charged when operating the counterweight balancer.**

ATTENTION **The charge indicator only indicates the current voltage level of the battery. It does not give any reliable information regarding the battery's capacity.**

ATTENTION **The charge indicator responds rather slowly. In order to assess the voltage level realistically after the charging process (see point 4.3) you have to drive the trolley of the counterweight balancer back and forth for approximately 2 minutes, and then use the indicated charge level of the battery as a basis for assessing how to employ the device.**

3.2 Radio remote control

The counterweight balancer is operated with a radio remote control according to fig. 6.

WARNING

Radio remote controls are subject to national standards. For this reason, verify if you may operate the radio equipment at the operating site before turning the transmitter on. In cases of doubt contact the OKTOPUS® manufacturer.

Start transmitter

1. Pull stop button (9).
   ⇒ The light-emitting diode (A) illuminated green or red (green = battery's capacity is good, red = battery of the transmitter has to be charged).
2. Press both start buttons (7 and 8) at the same time.
   ⇒ The built-in buzzer beeps.
3. Release start buttons (7 and 8).
   ⇒ The buzzer stops beeping. The light-emitting diode (A) flashes green or red (green = battery's capacity is good, red = battery of the transmitter has to be charged).
4. If the radio communication has been established the light-emitting diode (A) illuminates green or red (green = battery's capacity is good, red = battery of the transmitter has to be charged). If the radio communication has not been established within 25 seconds the transmitter turns off.

Functions of the transmitter

Button 1	None
Button 2	None
Button 3	Trolley backwards
Button 4	Trolley forwards
Button 5	None
Button 6	None
Button 7	Start
Button 8	Start
Button 9	Stop button

Fig. 6: Radio remote control

Turn off transmitter

The transmitter is turned off by pressing the stop button (9). By turning off the transmitter the receiver is put in standby as well.

Charging the transmitter

The light-emitting diode (A) illuminates either green (charged) or red (discharged) depending on the charge level. The operating time of the transmitter is approximately 24 hours when continually used. If the light-emitting diode (A) illuminates red and the built-in buzzer beeps 3 times at the same time, the integrated, rechargeable battery has to be charged. In this case, the capacity of the battery amounts to approximately 10 %.

In order to charge the battery the charger has to be plugged into the socket that is ready for operation. It is also possible to connect the plug of the charging unit with the socket on the back of the transmitter. The socket is located under a cover. The light-emitting diode (A)

flashes red during the charging process. When the battery is fully charged the light-emitting diode (A) illuminates green.

ATTENTION **In order to charge the battery the flight mode/panic switch has to be turned to position I/ON.**

The used lithium-ion battery is insensitive to charging cycles that are too long. The lithium-ion battery does not have to be fully discharged before being charged again. In order to prevent deep discharge of the battery, it should be charged at least every two months.

Flight mode/panic switch

On the reverse of the transmitter the flight mode/panic switch is located. This switch has two positions:

I = ON

0 = OFF

Fig. 7: Flight mode/panic switch

The flight mode/panic switch suspends the power supply of the battery. The transmitter cannot be started when in position (0/OFF), unless connected to a battery charger.
For transport by plane the flight mode/panic switch has to be put into position (0/OFF). Do not use the flight mode/panic switch to turn the transmitter on and off during regular use of the radio remote control.

ATTENTION **During regular operation use the stop button to turn the transmitter on and off!**

3.3 Preparation of the counterweight balancer

In order to **assemble** the counterweight balancer, perform the following steps one after another:

⇒ Place the OKTOPUS® flat on a clean and even surface (suction pads facing the floor). Dismount the crane arm of the OKTOPUS® from its swivel joint. Therefore, remove the bolt ø20 with castle nut and lynch pin, which connects the crane arm with the swivel joint.

⇒ Mount one of two adapters OKTOPUS® of the counterweight balancer (see fig. 8) to the swivel joint of the OKTOPUS®. As a fastener use the bolt ø20 that was removed beforehand. Secure the bolt with the castle nut and the lynch pin.

⇒ Place the counterweight balancer on a firm, even surface. If not done yet, tilt the crane arm by 90° upwards and fix it with the locking bolt and lynch pin B. Mount the suspension using the two locking bolts with lynch pin A (see fig. 8).

⇒ Mount as many counterweights as necessary depending on the load to be lifted. Perform the following steps:

- Open both safety clamps of the trolley.

- Attach the counterweights to the holders. Make sure that always the same number of counterweights is attached on both sides of the trolley.
- Close the safety clamps and secure them with the locking bolts B and the lynch pins that were removed beforehand.

⇒ Adjust the required overhang. Therefore, remove the locking bolt with lynch pin D, slide the overhang to the required position and mount the locking bolt with lynch pin D that was removed beforehand.

⇒ Attach the counterweight balancer to the crane and slightly lift it.

⇒ Mount the adapter OKTOPUS® with mounted OKTOPUS® to the overhang of the counterweight balancer. Use the screws M12, the washers and the locknuts provided in the delivery. If necessary, remove the four extension arms and all suction pads beforehand in order to reduce the weight of the OKTOPUS®.

⇒ Mount the necessary quantity of suction pads and, if necessary, the extension arms to the OKTOPUS®.

Disassembly of the counterweight balancer is done in reverse order.

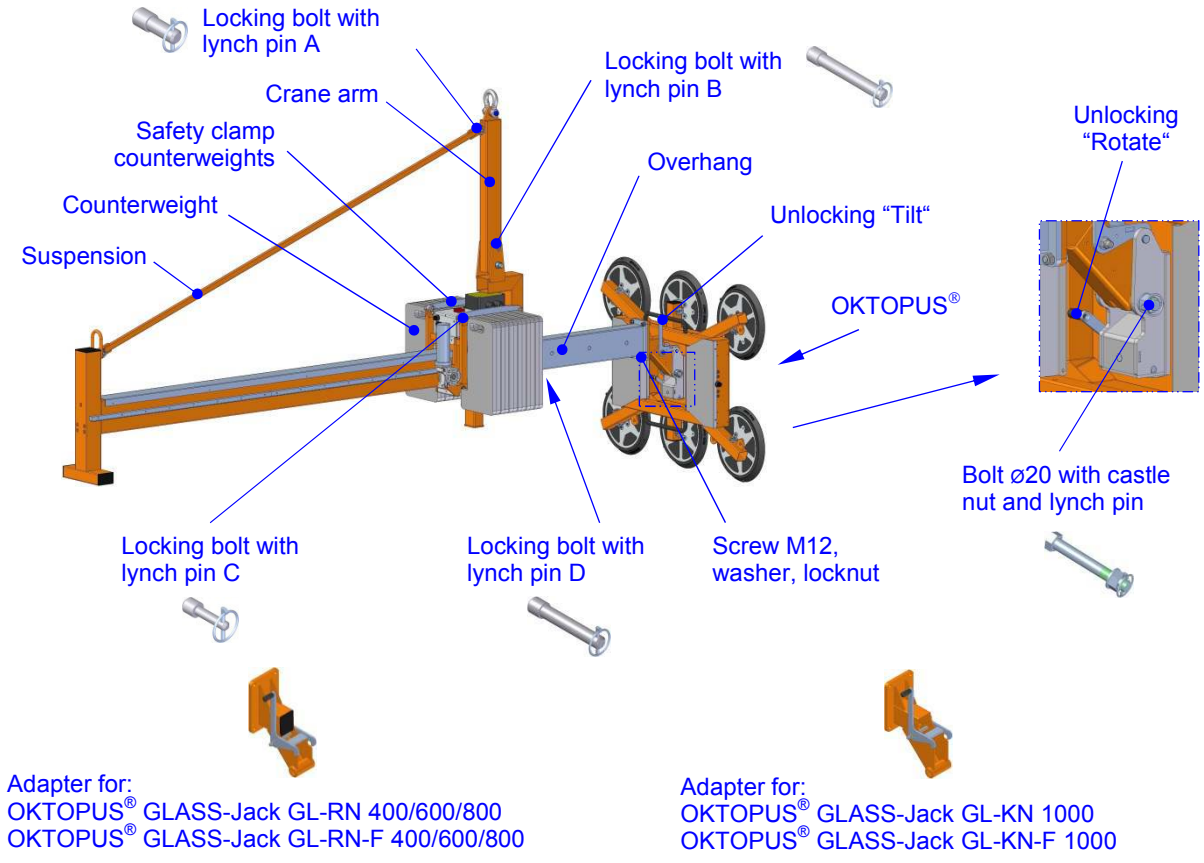


Fig. 8: Counterweight balancer mounted to the OKTOPUS® GLASS-Jack GL-KN-F 1000

WARNING

Only employ the OKTOPUS® if the counterweight balancer has been completely secured with the fasteners provided in the delivery!

WARNING

When attaching the counterweights make sure that they are always completely engaged and secured with the safety clamps (see fig. 8) in order to

prevent them from falling out. Always lock the safety clamps using the locking bolts and lynch pins provided in the delivery!

WARNING

Make sure that the trolley of the counterweight balancer is driven towards the crane arm as far as possible before setting it down! Only in this way it can be ensure that the counterweight balancer is in a stable position.

3.4 Inclination of the counterweight balancer

The shiftable counterweights allow balancing the OKTOPUS® including a possibly suctioned load. For safety-related reasons the inclination angle of the main girder is limited by sensors to ±10°. If the main girder reaches an inclination of ±10°, the trolley with the counterweights stops. Then it can be moved only into the opposite direction.

Apart from the position of the trolley, the inclination of the main girder depends on the number of the counterweights, adjusted overhang, OKTOPUS® model, configuration of the OKTOPUS® and the weight of the suction load. In order to prevent the main girder from suddenly swiveling up or down after releasing an element, mark the position of the trolley in which the main girder of your combination counterweight balancer/OKTOPUS® is balanced before suctioning an element.

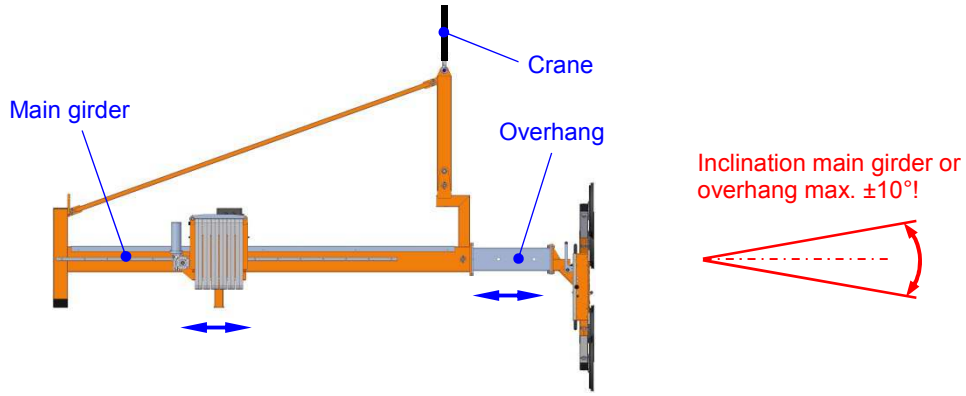


Fig. 9: Inclination of the counterweight balancer

WARNING

Make sure that the main girder of the OKTOPUS® is always balanced by moving the counterweights! The maximum permissible angular deviation is ±10°.

WARNING

Prior to suctioning an element, mark the position of the trolley in which the main girder is balanced!

3.5 Startup

In order to startup the counterweight balancer, proceed as follows:

- Turn the main switch to position “ON” and activate the transmitter of the radio remote control according to point 3.2 of this operating manual.
- Check the battery’s charge level on the charge indicator:
  ⇒ an illuminated green LED indicates operational readiness,

⇒ if the second LED from the left (yellow LED) is flashing or the second LED (yellow LED) from the left and the red LED are flashing alternately the battery has to be charged!

3.6 Handling glass and façade elements

ATTENTION **The following information regarding handling glass and façade elements does not substitute intensively studying the operating manual of the used OKTOPUS® model!**

Prior to attaching glass and façade elements:

⇒ the counterweight balancer has to be mounted to the OKTOPUS® according to section 3.3 of this operating manual and subsequently, the combination counterweight balancer/OKTOPUS® has to be coupled to the crane (see fig. 2). The coupling to the crane has to be done with the crane hook at standstill.

⇒ the counterweight balancer and the OKTOPUS® have to be started up.

WARNING **Always lift the combination counterweight balancer/OKTOPUS® slowly and carefully with the crane. Balance it during the lifting movement by driving movements of the trolley!**

WARNING **Always wear a helmet, suitable protective clothing (long trousers), gloves and safety shoes when handling loads**

Handling glass and façade elements is carried out as follows:

⇒ Move the combination counterweight balancer/OKTOPUS® with the help of the crane to the elements. Position the suction pads of the OKTOPUS® parallel to the suction area of the load. Correct the position of the OKTOPUS® by moving the counterweights with the help of the buttons “Trolley forwards“ and “Trolley backwards“.

⇒ Position the suction pads of the OKTOPUS® above center of mass of the load (±5 cm) and place them on the suction area. If the element surface is covered with protective foil, it has to be removed at least at the suction areas before placing the OKTOPUS®.

⇒ Operate the suction function of the OKTOPUS®. Depending on the used model:

- Slightly lift the switch “Suction/Release“ and slide it towards “Suction“ until it engages, or
- Press the button “Suction“ of the radio remote control.

⇒ You can lift the load only when the red warning light and the buzzer have turned off, the vacuum gauges indicate that the working range has been reached, the green signal light is illuminated and you have ensured that nobody is in the danger area.

⇒ Balance the OKTOPUS® by shifting the counterweights.

⇒ Do not lift the load higher than necessary!

⇒ Move the load into the required position by driving and lifting movements of the crane as well as manual guidance of the combination counterweight balancer/OKTOPUS®.

⇒ Place the glass or façade element at the required place in that way that it does not pose a threat after being released from the OKTOPUS®.

⇒ Balance the OKTOPUS® by shifting the counterweights as if there is no element suctioned (see also point 3.4). This measure prevents a sudden swiveling upwards or downwards of the main girder after releasing the element.

WARNING

In order to prevent that the OKTOPUS® swivels uncontrollably after being released, shift the counterweights before releasing the OKTOPUS®!

⇒ Then the glass or façade element is released. Depending on the used OKTOPUS® model:

- Slightly lift the switch “Suction/Release“ and slide it towards “Release“. Lifting the switch is an additional safety measure against unintentional operating errors.
- Press the button “Release“ and then the button “Release return key“ of the radio remote control. This confirmation is an additional safety measure against unintentional operating errors.

WARNING

As a result of the own weight of the OKTOPUS® there is still vacuum remaining after venting the suction pads through the vacuum system. Lifting the OKTOPUS® jerkily increases this effect. For this reason, always remove the device slowly and evenly from the installed elements.

4 Maintenance and service

4.1 General remarks

Since the counterweight balancer is a load lifting attachment both the manufacturer and the operator carry a high responsibility to guarantee the relevant safety standard throughout the entire operating time. Thus, service and maintenance are of great importance.

In order to maintain a high level of operational safety the Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 has to be inspected by the service workshop of Wirth GmbH or by an especially qualified person

⇒ at least every 12 months or in shorter intervals, if required by national standards or regulations or

⇒ after special incidents.

Additional operative and scheduled maintenance and service work may only be performed by a skilled expert. Maintenance and service work may only be performed when the counterweight balancer is taken out of operation.

Before performing any repair and maintenance work switch off the counterweight balancer by turning the main switch to position "OFF".

Defective parts may only be replaced with original spare parts. They will be provided on request after consulting with the service team of the counterweight balancer manufacturer. Using not original spare parts leads to exemption from liability by the manufacturer.

In order to perform maintenance and service work an appropriate tool kit has to be used.

Maintenance has always to be followed by a functional check

If damages cannot be repaired by the operator's staff the Wirth GmbH service workshop needs to be informed.

4.2 Mechanical system

The mechanical system is sturdy and provided with surface protection. Maintenance works on your side comprise

⇒ **daily** visual inspection of the mechanical components of the Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 for damages before startup.

The Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 is a load lifting attachment. Therefore, repairs on the mechanical function parts shall exclusively be carried out by the manufacturer.

Do not perform any repairs at mechanical functioning parts!

4.3 Electrical and electronic components

The Counterweight balancer GGA-EF 1000 24 1,5 4,3 B24 is powered by a maintenance-free lead-battery with acid gel as electrolyte. The battery casing is hermetically sealed.

Maintenance work focusses on:

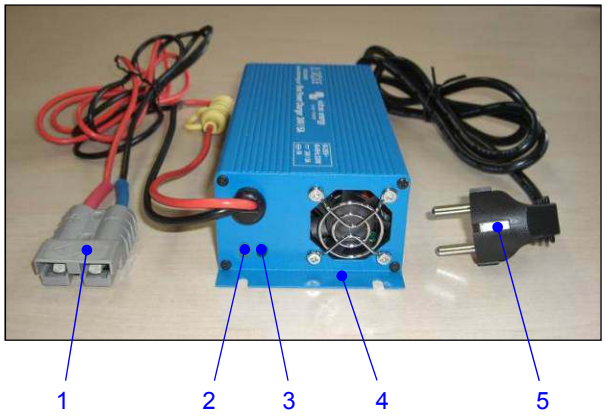
⇒ **daily** visual inspection of the external functional and alarming equipment:

- limit switch of the trolley,
- socket battery charger,
- charge indicator.

⇒ the visual inspection of the battery's charge level shown on the charge indicator (see fig. 5).

⇒ charging the battery

For charging the battery a charging unit 24 V / 5 A is included in the delivery by the counterweight balancer manufacturer (see fig. 10).



1 Charge plug battery charger
2 Yellow LED
3 Green LED
4 Battery charger
5 Mains plug

Fig. 10: Battery charger (example illustration)

WARNING

Before connecting the battery charger check if it is compatible with your mains supply! The performance data is stipulated on the battery charger.

ATTENTION

If you want to use a battery charger that is not included in the delivery of the counterweight balancer, it is absolutely necessary to contact the Wirth Service Team beforehand!

The charging process is carried out as follows:

- Turn off counterweight balancer by turning the main switch to position „OFF"!
- Connect the charge plug of the battery charger with the socket battery charger of the counterweight balancer.
- Connect the mains plug of the battery charger with a socket and by that with the mains supply in order to start the charging process.
- The charging process is completed when the yellow LED is permanently illuminated.
- Proceed as follows to disconnect the battery charger from the OKTOPUS®:
  1. Disconnect the battery charger from the mains supply,
  2. Disconnect the battery charger from the battery.

LED Display

⇒ The green LED illuminates when the battery charger is connected with the mains supply.

⇒ The yellow LED flashes in short intervals during the first charging phase and in longer intervals during the second. At the end of the charging cycle the yellow LED is permanently illuminated.

For maintenance work and in case of a breakdown of the battery charger please contact our Service Team.

ATTENTION **The sealed lead-gel battery requires strict adherence to the charging instructions.**

ATTENTION **In order to avoid damage due to deep discharge the batteries of the counterweight balancer have to be charged at least every two weeks.**

WARNING **The battery charger has to be protected from spray water and has to be set up in a way that the air vents and the fan are unobstructed and cannot be pierced through by pointed objects.**

5 Handling incidents

In case of mechanical and/or electrical incidents immediately leave the hazard zone. Locate and eradicate the cause for the alarm. If you cannot remedy the fault, stop operating the counterweight balancer immediately and secure it against further use.

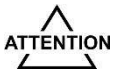
In case of faults that cannot be remedied, working with the counterweight balancer shall be stopped immediately. The counterweight balancer has to be secured against further use. Contact the Wirth GmbH service workshop

If the display of the charge indicator is not illuminated when turning on the counterweight balancer please contact the Wirth GmbH Service Team immediately.

6 Disposal and Recycling

For the packaging of the counterweight balancer materials such as wood, cardboard, paper and foil are used. These materials have to be recycled according to national regulations.

Assign a waste management company to dispose of the counterweight balancer. If you have any queries, please contact Wirth GmbH.



In order to protect the environment assign a waste management company that is familiar and complies with the national regulations to dispose of the counterweight balancer!

EC-Declaration of Conformity

according to Annex II A of EC-Machinery Directive 2006/42/EC

Manufacturer: WIRTH GMBH
Department Vacuum Lifting Devices
Brehnaer Straße 1
D-06188 Landsberg

Herewith we declare that the machine hereinafter described is in conformity with any provisions relevant to the EC machinery directive 2006/42/EC:

Product description: Counterweight balancer
Type: GGA-EF 1000 24 1,5 4,3 B24
Serial number:
Year of manufacture:

Furthermore, the machine corresponds with the requirements of **EC-Directive 2009/104/EC concerning the minimum safety and health requirements for the use of work equipment by workers at work**, of **EC-Directive 2001/95/EC on general product safety** and of **EC-Directive 2004/108/EC on electromagnetic compatibility.**

Applied harmonized standards:

DIN EN ISO 12100 (03/11)
Safety of Machinery – General Principles for Design – Risk Assessment and Risk Reduction

DIN EN ISO 13857 (06/08)
Safety of Machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs

DIN EN 60204 Part 1 (06/07)
Electrical equipment of machines – Part 1: General Requirements

DIN EN 13155 (08/09)
Cranes - Safety – Non-fixed Load Lifting Attachments

Authorized representative for compiling the relevant technical documents:
Sven Röthe, Brehnaer Straße 1, D-06188 Landsberg

This declaration solely corresponds to the machine in the status as put on the market, any parts additionally installed and/or modifications additionally carried out by the end user shall be unconsidered. This declaration shall become invalid, in case the product should be modified without our approval.

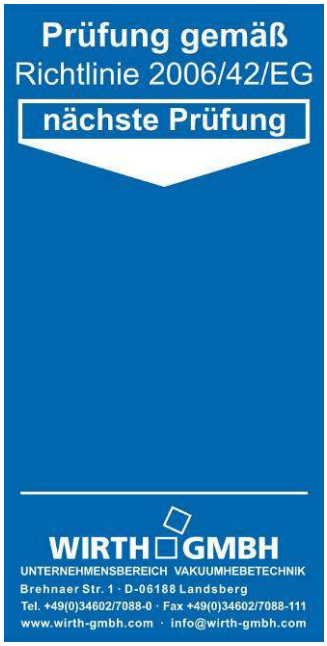
Landsberg,

_____

Holger Schadwinkel
(Managing Director)

Inspection Tag of the GGA-EF 1000 24 1,5 4,3 B24

according Directive 2006/42/EC



Sign size:	80 x 40 mm
Background:	blue
Foreground:	white
Typing:	white on blue
Plate size:	diameter 30 mm
Foreground:	depending on the year
Background:	depending on the year

Electrical Circuit Diagram