

Mounting instruction

- 1 General information
- 2 Intended use
- 3 Safety instructions
- 4 Scope of delivery
- 5 Mounting
- 6 Dismantling
- 7 Maintenance advice

1 General information

This mounting instruction is a substantial assistance for the **successful** and **safe** assembly of the mounting kit.

The mounting instruction contains important notes to assemble the mounting kit **safely** and **properly**.

The **structural components** arising in the mounting instruction have the following appearance and following meaning:

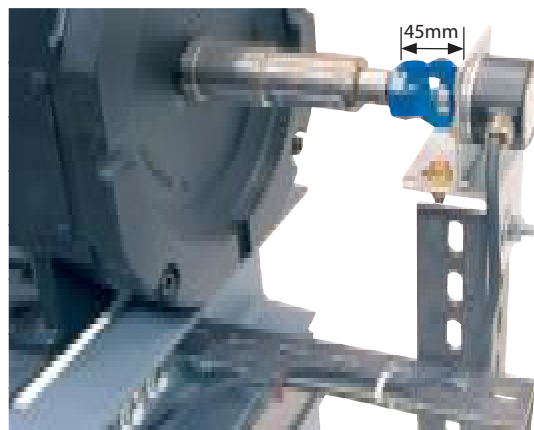


ATTENTION

The text after the signal word **ATTENTION** contains important information, advice and circumstances which must be considered in order to prevent damage to the object or to protect the mechanic against harm.

2 Intended use

The mounting kit is universally suitable for the assembly at large and small motors.



3 Safety instructions



ATTENTION

For the assembly it is mandatory to consider the corresponding safety regulations and the necessary safety precautions for the mounting of lifts.

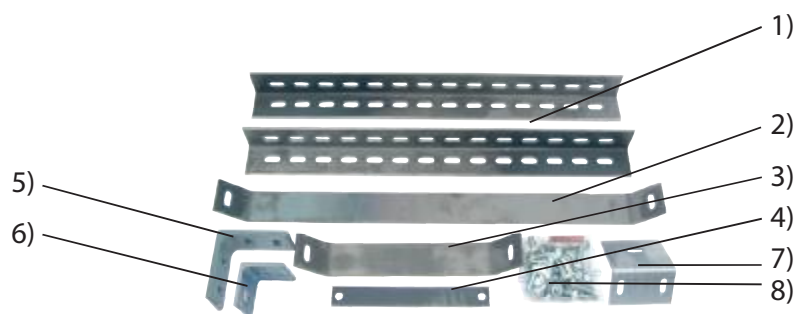


ATTENTION

Work only on switched off machines. Deactivate the main switch and secure it against restarting.

4 Scope of delivery

First check the scope of delivery.



- | | |
|--|--|
| 1) 2x Assembly angle vertical/horizontal | 55x55, length: 600mm with long holes 11x25mm |
| 2) 1x Reinforcing strut large | length: 570mm, with differently bent ends |
| 3) 1x Reinforcing strut small | length: 320mm, ends bent at an angle of 45° |
| 4) 1x Support | 30x220mm |
| 5) 1x Mounting angle | 100x100, width: 55mm |
| 6) 1x Supporting angle | 60x60, width: 50mm |
| 7) 1x Encoder mounting angle | 80x60, width: 90mm |
| 8) 1x Mounting kit | |
| consisting of: | |
| 12x Hexagon screws | M10x30mm |
| 24x Washers | 10.5mm DIN 9021 |
| 12x Nuts | M10 |
| 12x Serrated lock washers | 10.5 DIN6798 |
| 2x Self-locking screws | M8x20mm |
| 2x Self-locking nuts | M8 |
| 2x Dowels | 12x60mm |
| 2x Hexagon wood screws | 8x70mm |
| 2x Washers | 8.4mm DIN 9021 |

5 Mounting

Hold the mounting angle at the supporting frame.



The mounting angle should be attached at approximately 25mm perpendicular to the motor shaft.



Mark the fixation holes at the supporting frame and drill at the marked points with a 10mm drill.



**All following connections are made with the provided hexagon screws M10x30, if not described differently.
Always use the provided washers and toothed disks.**

Thus a safe connection is established.

Fasten the fixation angle to the supporting frame.

Screw one of the two provided mounting angles to the fixation angle.



The following steps are necessary in order to determine the height adjustment of the encoder.

Check the scope of delivery of the separately ordered encoder.

Screw the adaptor into the motor shaft.

Use the provided metal rod for this.



Mount the encoder at the encoder angle.

Fasten the encoder mounting angle under the encoder angle with the provided self-locking screws and nuts M8.



The vertical mounting angle has to be measured so that it is still possible to change the height subsequently.

Determine the upper limitation of the vertical mounting angle by marking it a full slotted hole underneath the adaptor.





Check your markings.

Shorten the vertical mounting angle with a cut-off grinder at the marked point.

Screw the entire encoder construction to the upper end of the vertical mounting angle.

Hold the vertical mounting angle in the correct distance and height to the horizontal mounting angle.

Select the distance between the encoder shaft and the adaptor so that the flex coupling can be pushed sufficiently over both shafts and be fastened on both sides.

Fix the vertical mounting angle at the horizontal mounting angle.

For the exact height adjustment check whether the adaptor and the encoder shaft exactly face each other.



If the encoder is adjusted correctly, the flex coupling can be attached.

Therefore the encoder angle must be released.

Tighten the grub screws at the Flex-coupling to both sides in such a way that slipping through of the Flex-coupling is prevented.



If the encoder is correctly aligned, check again whether adaptor and encoder shaft are firmly connected with the Flex-coupling.

If the horizontal mounting angle is disturbing too long, it can be shortened as required with a cutting off grinder.



In case of unloading mountings for large engines, it is advisable to use the provided reinforcement struts. Thus oscillations and vibrations are avoided and suppressed.

In order to support the horizontal mounting angle, use the large or small reinforcement strut.





The reinforcing strut „large“ is bent with different angle degrees at the ends. Thus two mounting variants can be selected.

You obtain the most possible supporting force, when the strut is fitted as outward as possible.



You support the vertical mounting angle with the provided support or in case of particularly high constructions, with the reinforcement strut „small“ and the supporting angle.



Example of a completely fitted mounting kit.



6 Dismantling

Follow the mounting steps in reverse sequence.

7 Maintenance advice

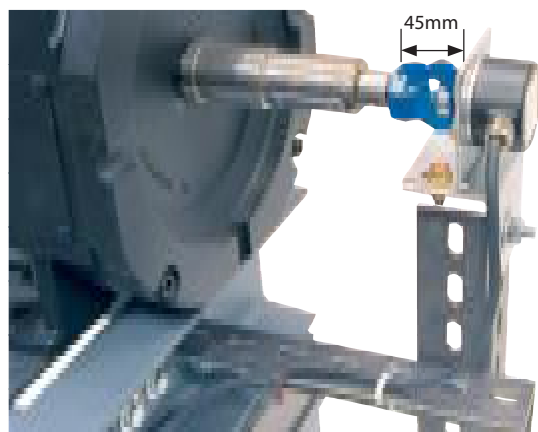
The stability of the screw connections of the mounting kit has to be checked once a year. If vibrations at the mounted part come into being, shorter maintenance intervals are necessary under circumstances.

The determination and responsibility for a reasonable time maintenance distance is incumbent on the erector, who put it in circulation.



Incremental encoder mounting kit – flex coupling version

to control frequency converters of lift motors



Description

Universal mounting kit with encoder for flex coupling version to control frequency converters of lift motors.

They are needed:

1. **Mounting kit with encoder** (selection by table page 63)
2. **Adapter end piece** (for individual cases coupling piece)
3. **Assembly set** for fastening to the engine frame

Advice

The encoder line is delivered ready for connection to the frequency converters listed on the right, page 63. A mounting instruction and a connection plan for the respective converter is included in delivery.

1. Mounting kit with encoder

Included in delivery:

Mounting kit with flex coupling and angle, fixation material, mounting instruction with connection plan.

2. Adapter end piece

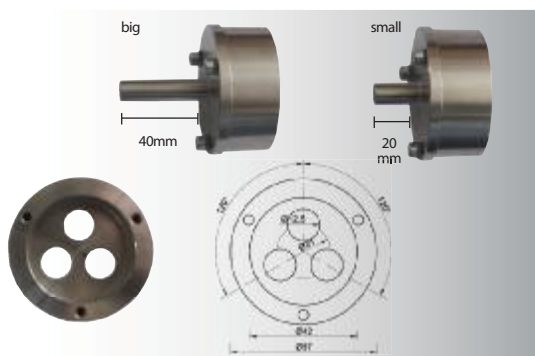
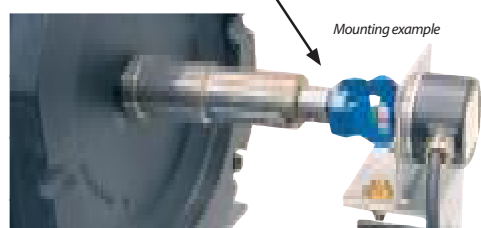
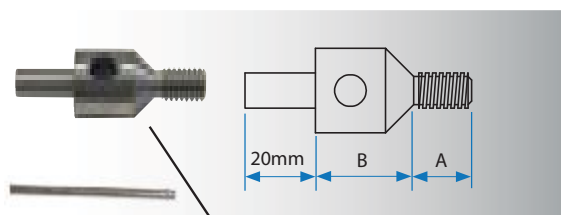
Adapter end piece with mounting tool

Art.no.	Thread	A (mm)	B (mm)
052427	M8 long	21.5	29
052428	M10 long	26.5	28
052429	M12 long	27.5	27
052430	M14 long	31.5	31
052431	M16 long	29.5	27
052432	M20 long	35.5	37
052403	M8 short	11.5	29
052404	M10 short	16.5	28
052405	M12 short	17.5	27
052408	M14 short	21.5	31
052406	M16 short	19.5	27
052407	M20 short	25.5	37

Coupling piece (for individual cases only)

In individual cases the coupling pieces for a fixation with 3 screws at motors instead of the thread in the shaft is necessary.

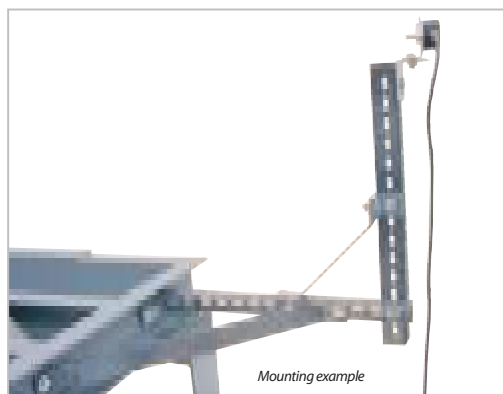
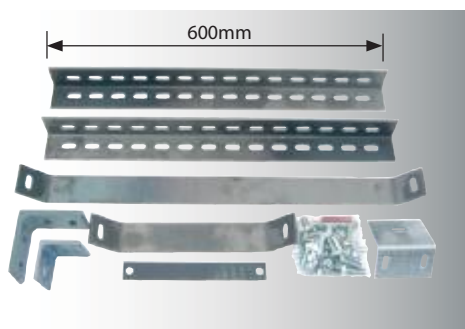
Art.no.	Description
064025	Coupling piece for motors small
064026	Coupling piece for motors big



3. Universal assembly set

Universal assembly set for fastening the flex coupling version to small and large engine frames of lift motors.
Consisting of solid, 5mm thick angles and struts.

Included in delivery:
Mounting angles,
cross strut,
struts,
kit with mounting material,
mounting instruction.



Solid, 5mm thick angles and struts provide for a fixed fastening on the engine frame or concrete bottom.

Art.no.	Description
052402	Universal motor mounting kit

Mounting kits with encoder

Mounting kits with encoder for:	Pulses per revolution	Art.no.
ascenironic GERÄTEBAU - GMBH	1024pulses	007570
B&F Motion Control	1024pulses + plug	054262
BIODYN	2048pulses + plug	007592
DIETZ electronic	1024pulses + plug	007571
KEB	2048pulses + plug	007573
kw Goliath	1024pulses	054209
LiftEquip MFC / CPI ELEVATOR COMPONENTS	1024pulses + plug	007585
OMRON with PG Speed control cards	1024pulses	007580
RST ELEKTROANLENKEN	1024pulses	007575
CONTROL TECHNIQUES UNIDRIVE SP / E300	1024pulses + plug	007586
VARIODYN VF20/30	2048pulses	007576
VARIODYN VFxxBR	2048pulses + plug	007587
LIFTCORE LCDR	1024pulses + plug	054275
ZIEHL-ABEGG 2CF, 3C, 3BF, 4C	1024pulses	007578
ZIEHL-ABEGG 2CF	2048pulses	007582
ZIEHL-ABEGG 4C	1024pulses + plug	052632
UNIVERSAL 4.7 - 30V, 4 tracks	1024pulses	007583
UNIVERSAL 4.7 - 30V, 4 tracks	2048pulses	007584

Replacement parts

Flex coupling and angle

Art.no.	Description
063618	Flex coupling 10/10, length 45mm, outer Ø 47mm
063622	Angle with screw set

