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Technical changes subject to change



1. Introduction

△ Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or accidents which arise due to non-observance of these instructions and the safety information.

2. Safety information

Ensure that you observe the following points in order to avoid accidents and injuries.

- Do not overload your swing arm.
- Do not continue to use the swing arm if it is damaged.
- Ensure that all bolts are tightly fastened and check them frequently for your own safety.
- Ensure that the cotter pin is properly inserted through the bore holes.
- Lifting and carrying persons with the cable winch is strictly prohibited! Additionally, persons may not loiter underneath the cable winch/swing arm assembly.
- Persons who are not aware of these safety precautions may not use this product.

All components must be regularly checked for any kind of deformation or damage.

Observe the maximum permissible load capacity (see "Technical Data")!

3. Layout and items supplied (Fig. 1/2)

- 1. Pipe collar (with large hinge pin A)
- 2. 2x holding bars for pipe collars
- 3. Pipe collar (with small hinge pin B)
- 4. Support arm
- 5. Square-edged boom 45 x 45 x 1.8 mm
- 6. Extension pipe 40 x 40 x 2.5 mm
- 7. Cotter pin Ø 3 x 45 mm
- 8. Cotter pin Ø 3 x 60 mm
- 9. 4x hexagon nuts M10
- 10. 4x spring washers Ø 10
- 11. 4x washers Ø 10
- 12. 2x pads for clamping brackets
- 13. Hexagon nut M8
- 14. Spring washer Ø 8
- 15. Washer Ø 8
- 16. Hexagon bolt M8 x 15 mm
- 17. Hexagon bolt M12 x 70 mm
- 18. Hexagon nut M12
- 19. Spring washer Ø 12
- 20. Washer Ø 12

4. Proper use

The swing arm is designed to be attached to a cable winch. For this, the swing arm must be mounted to a well fastened steel bar with a diameter of 48 mm.

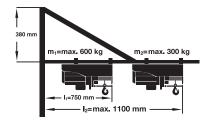
The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

5. Technical data

Reach I:	Max. load:	
I ₁ = 750 mm	$m_1 = 600 \text{ kg}$	
$I_2 = 1100 \text{ mm}$	$m_2 = 300 \text{ kg}$	

Swing range: max. 180°



6. Before putting the machine into operation

- The swing arm is designed to take a cable winch.
- To mount the swing arm, you need a round steel bar with a diameter of Ø 48 mm; its wall must be a minimum of 3 mm thick. Ensure that the anchor points of the steel bar are able to adequately support the forces that will be applied to it. Consult an authorized professional to ensure that this is properly done. This steel bar is not included in the scope of delivery.

7. Mounting and assembly

- Attach the pipe collar (1) (with the large hinge pin (A)) to a steel bar using the holding bar for the pipe collar (2), washers (11), spring washers (10) and two hexagon nuts (9). Before you tighten the bolts, push the pipe collars (1) to the desired working height of the swing arm (Figure 3-5).
- Apply lubricating grease to the hinge pin (A).
- Slide the square-edged boom (5) over the hinge pin (A) and push the cotter pin (8)

- through the hole in the hinge pin (A) (Figure 6-7).
- Finally, bend apart the two shanks of the cotter pin (8) so that the cotter pin (8) cannot work its way out of the bore hole. (Figure 8)

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- Now attach the pipe collar (3) (with the small hinge pin (B)) to the steel bar above the square-edged boom in the same way as you did with pipe collar (1). Adjust the height of the upper pipe collar (3) so that the distance H between the two pipe collars (1/3) measures exactly 380 mm.
- Slide the support arm (4) with the larger bore hole over the hinge pin (B) of the pipe collar (3). Push the cotter pin (7) into the bore hole of the hinge pin (B) and bend apart the two shanks of the cotter pin (7) so that the cotter pin (7) cannot work its way out of the bore hole (Figure 9-10).
- Now tighten the bolts of the pipe collars.
 Use a torque of 45 Nm to tighten the nuts
 (9).
- Push the extension pipe (6) by its end with no bore hole into the square-edged boom (5) (Figure 11). Make sure that the bore hole (C) is on the outside as shown in Figure 12.
- Connect the support arm (4) to the square-edged boom (5) and the extension pipe (6) by inserting the hexagon bolt (17) through the coinciding bore holes, placing a washer (20) and a spring washer (19) over the bolt (17), and securing the connection with a hexagon nut (18) (Figure 12-14).
- A bolt (16) is inserted at the end of the extension pipe to prevent the cable winch from sliding off (Figure 15-17).
- When the cable winch is pushed out to 750 mm, it is not allowed to lift more than 600 kg (Figure 18).
- When the cable winch is pushed out to 1100 mm, it is not allowed to lift more than 300 kg (Figure 20).
- When mounting the cable winch on the extension pipe (6), the pads (12) must be pushed in under the clamping brackets in order to ensure that the cable winch is held securely in place (Figure 19). When the assembly work is finished, an up and down



test and a 180° left and right swing test must each be performed twice with no load. Then the cable winch must be loaded with increasingly heavier loads up to the maximum permissible load weight. Only when the cable winch has passed these tests are you allowed to use the equipment for normal operations.

8. Cleaning, maintenance and ordering of spare parts

8.1 Cleaning and maintenance

Regularly clean the swing arm and lubricate the hinge pins (A/B).

8.2 Ordering replacement parts:

Please quote the following data when ordering replacement parts:

- Type of machine
- Article number of the machine
- Identification number of the machine

For our latest prices and information please go to www.isc-gmbh.info

9. Disposal and recycling

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system. The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.