



Transport systems

Trolley 39-1

099-008708-EW501

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13.02.2012

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General instructions

CAUTION



Read the operating instructions!

The operating instructions provide an introduction to the safe use of the products.

- Read the operating instructions for all system components!
- Observe accident prevention regulations!
- Observe all local regulations!
- Confirm with a signature where appropriate.

NOTE



In the event of queries on installation, commissioning, operation or special conditions at the installation site, or on usage, please contact your sales partner or our customer service department on +49 2680 181-0.

A list of authorised sales partners can be found at www.ewm-group.com.

Liability relating to the operation of this equipment is restricted solely to the function of the equipment. No other form of liability, regardless of type, shall be accepted. This exclusion of liability shall be deemed accepted by the user on commissioning the equipment.

The manufacturer is unable to monitor whether or not these instructions or the conditions and methods are observed during installation, operation, usage and maintenance of the equipment.

An incorrectly performed installation can result in material damage and injure persons as a result. For this reason, we do not accept any responsibility or liability for losses, damages or costs arising from incorrect installation, improper operation or incorrect usage and maintenance or any actions connected to this in any way.

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2 Safety instructions

2.1 Notes on the use of these operating instructions



DANGER

Working or operating procedures which must be closely observed to prevent imminent serious and even fatal injuries.

- Safety notes include the "DANGER" keyword in the heading with a general warning symbol.
- The hazard is also highlighted using a symbol on the edge of the page.



WARNING

Working or operating procedures which must be closely observed to prevent serious and even fatal injuries.

- Safety notes include the "WARNING" keyword in the heading with a general warning symbol.
- The hazard is also highlighted using a symbol in the page margin.



CAUTION

Working or operating procedures which must be closely observed to prevent possible minor personal injury.

- The safety information includes the "CAUTION" keyword in its heading with a general warning symbol.
- The risk is explained using a symbol on the edge of the page.

CAUTION

Working and operating procedures which must be followed precisely to avoid damaging or destroying the product.

- The safety information includes the "CAUTION" keyword in its heading without a general warning symbol.
- The hazard is explained using a symbol at the edge of the page.

NOTE








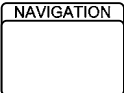





Special technical points which users must observe.

- Notes include the "NOTE" keyword in the heading without a general warning symbol.

Instructions and lists detailing step-by-step actions for given situations can be recognised via bullet points, e.g.:

- Insert the welding current lead socket into the relevant socket and lock.

2.2 Explanation of icons

Symbol	Description
	Press
	Do not press
	Turn
	Switch
	Switch off machine
	Switch on machine
	ENTER (enter the menu)
	NAVIGATION (Navigating in the menu)
	EXIT (Exit the menu)
	Time display (example: wait 4s/press)
	Interruption in the menu display (other setting options possible)
	Tool not required/do not use
	Tool required/use

2.3 General

DANGER



Do not carry out any unauthorised repairs or modifications!

To avoid injury and equipment damage, the unit must only be repaired or modified by specialist, skilled persons!

The warranty becomes null and void in the event of unauthorised interference.

- Appoint only skilled persons for repair work (trained service personnel)!

WARNING



Risk of accidents if these safety instructions are not observed!

Non-observance of these safety instructions is potentially fatal!

- Carefully read the safety information in this manual!
- Observe the accident prevention regulations in your country.
- Inform persons in the working area that they must observe the regulations!



Validity of this document!

This document is only valid in combination with the operating instructions for the power source being used (welding machine)!

- Read the operating instructions, in particular the safety instructions for the power source (welding machine)!

CAUTION



Obligations of the operator!

The respective national directives and laws must be observed for operation of the machine!

- National implementation of the framework directive (89/391/EEG), as well as the associated individual directives.
- In particular, directive (89/655/EEG), on the minimum regulations for safety and health protection when staff members use equipment during work.
- The regulations regarding work safety and accident prevention for the respective country.
- Setting up and operating the machine according to IEC 60974-9.
- Check at regular intervals that users are working in a safety-conscious way.
- Regular checks of the machine according to IEC 60974-4.

2.4 Transport and installation

WARNING



Improper work carried out!

In the event of improper work carried out on the display stand, the display stand may lose stability, tip over and result in serious injury!

- Only use the construction and fitting parts supplied!
- Do not load the display stand without reinforcement panels affixed!

CAUTION



Improperly secured equipment!

Equipment, equipment combinations and accessories incorrectly fastened onto transport systems can tip over during transport and cause injuries!

- Only use the original parts supplied to fasten the equipment.
- Use the systems only for transporting the machines given in the "Intended use" chapter.
- Check the fixing points before each transport and at regular intervals.



Damage due to supply lines not being disconnected!

During transport, supply lines which have not been disconnected (mains supply leads, control leads, etc.) may cause hazards such as connected equipment tipping over and injuring persons!

- Disconnect supply lines!



Risk of tipping!

When moving or setting up, the transport vehicle can tip over and injure persons or become damaged.

- Move or set up the machine on level, firm surfaces.
- Secure add-on parts using suitable equipment.
- Replace damaged transport rollers and their fixing elements.

NOTE

 The warning signs are illustrated with different machines.

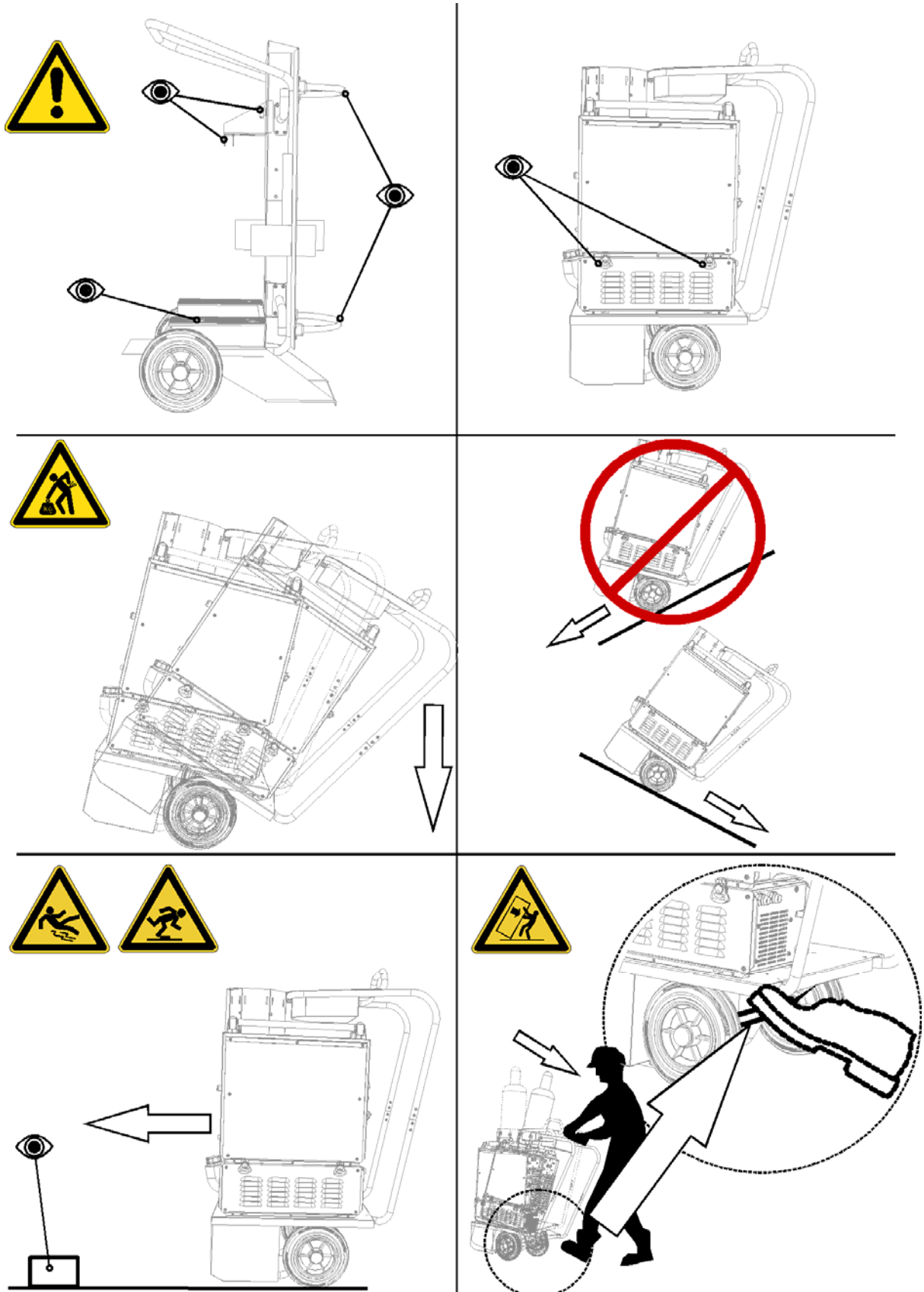


Figure 2-1

2.4.1 Lifting by crane

 **DANGER****Risk of injury during lifting by crane!**

When lifting the unit by crane there is a risk of serious injuries due to the units or add-on modules falling down!

- Ensure that there is an even load distribution!
- Observe the lifting principle (see Fig.)!
- Use shackles and lifting hooks of the appropriate size!
- Do not lift any other loads at the same time!
- Avoid jerky movements when raising or lowering!

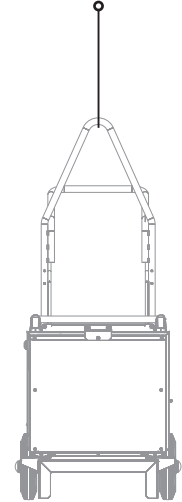


Fig. Lifting principle

3 Intended use

WARNING



Hazards due to improper usage!

Hazards may arise for persons, animals and material objects if the equipment is not used correctly. No liability is accepted for any damages arising from improper usage!

- The equipment must only be used in line with proper usage and by trained or expert staff!
- Do not modify or convert the equipment improperly!

CAUTION



Risk of accidents due to improperly prepared transport vehicle!

Depending on the machine series the transport vehicle has to be adapted to mount the machine. Failing to adapt the transport vehicle can cause the machine being transported to topple and lead to injuries!

Only suitable to transport the following machines:

- Taurus 404
- Taurus 405, 505
- Phoenix 404
- Phoenix 405, 505

The Trolley 39-1 transport system is suitable for:

- moving the stated machines
- moving properly fixed machines and add-on parts that are suitably secured

Any other use of the transport systems is regarded as "improper" and no liability is assumed for any damage arising therefrom.

4 Machine description – quick overview

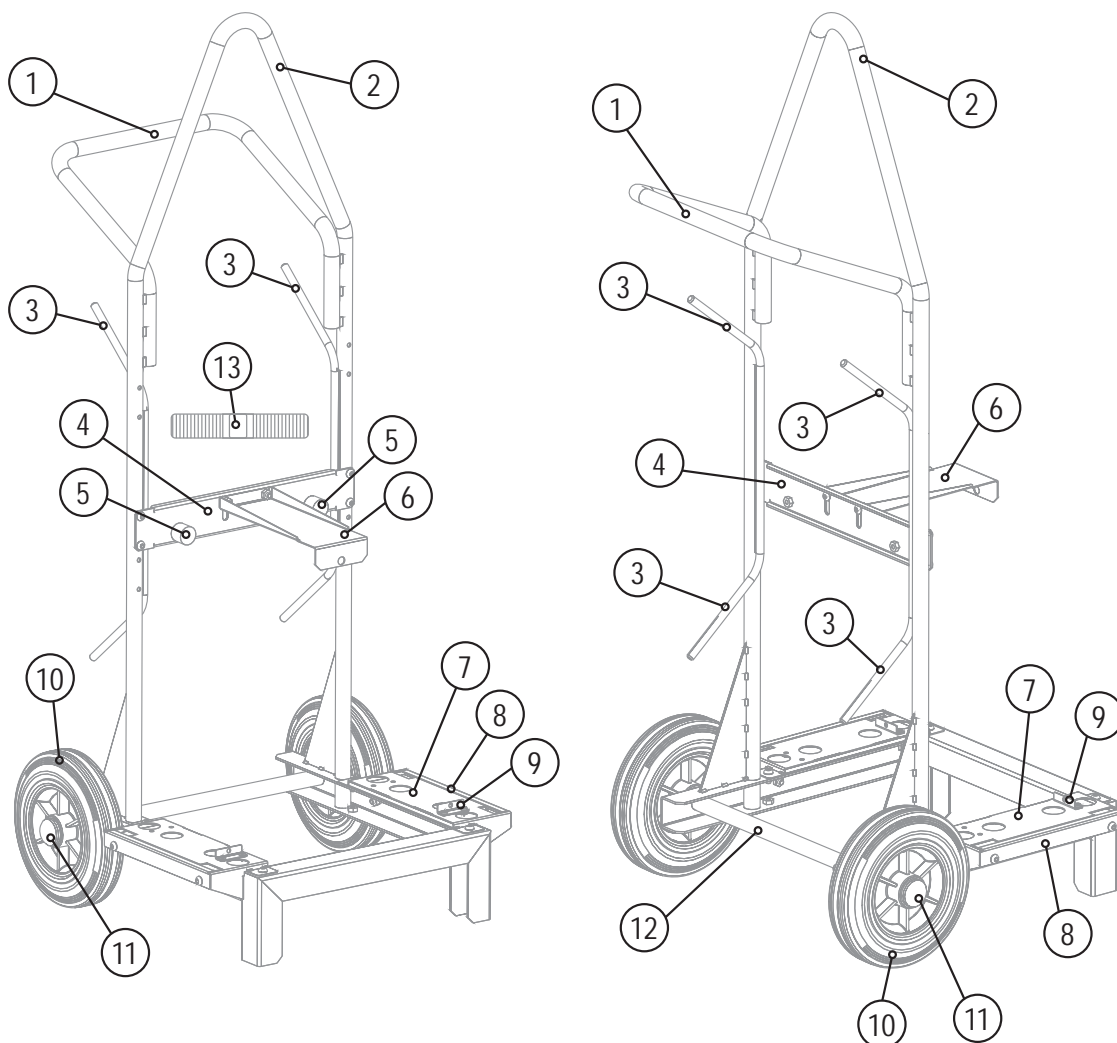


Figure 4-1

Item	Symbol	Description
1		Carrying handle
2		Bracket for lifting by crane
3		Hose package holder
4		Metal sheet cross arm
5		Buffer
6		Machine hold-down device
7		Machine carrier plate
8		Clamping plate
9		Mounting clip
10		Wheels
11		Cap, wheel fastening
12		Foot bar
13		Strap, fastening the machine

5 Design and function

5.1 Fixing the welding machine

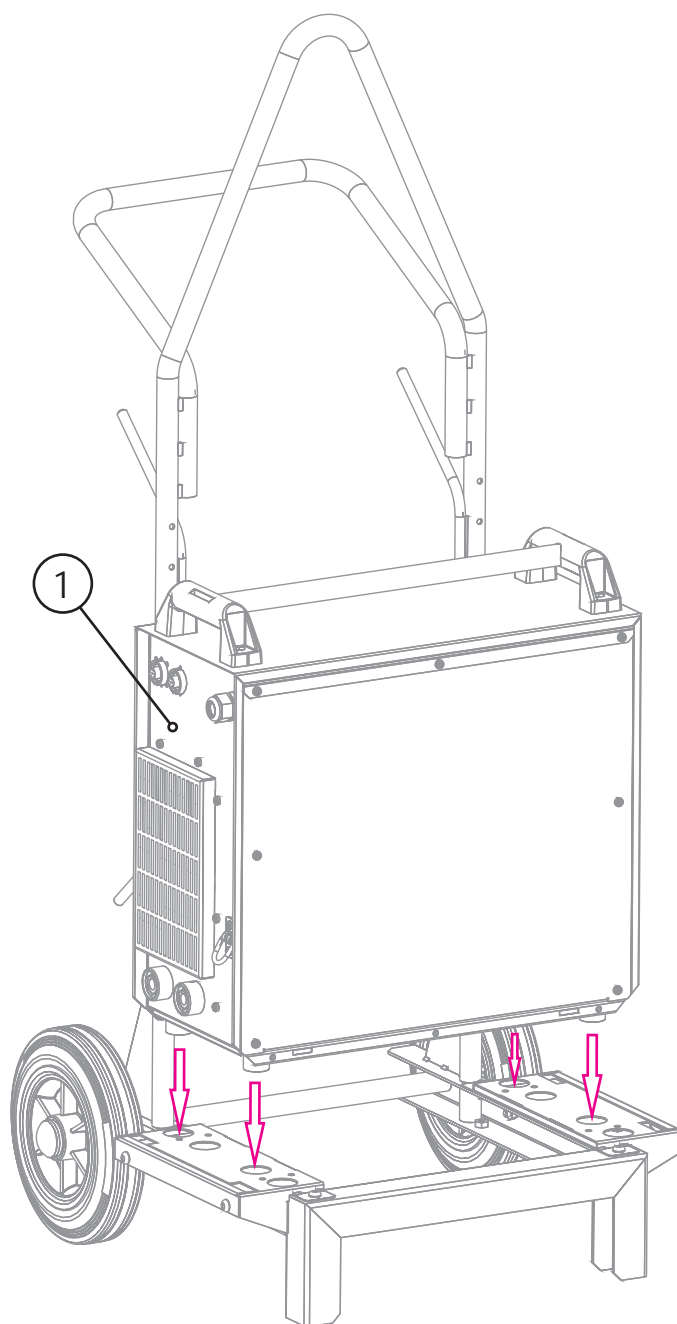


Figure 5-1

Item	Symbol	Description
1		Power source

- Place the welding machine with its feet in the holes provided.

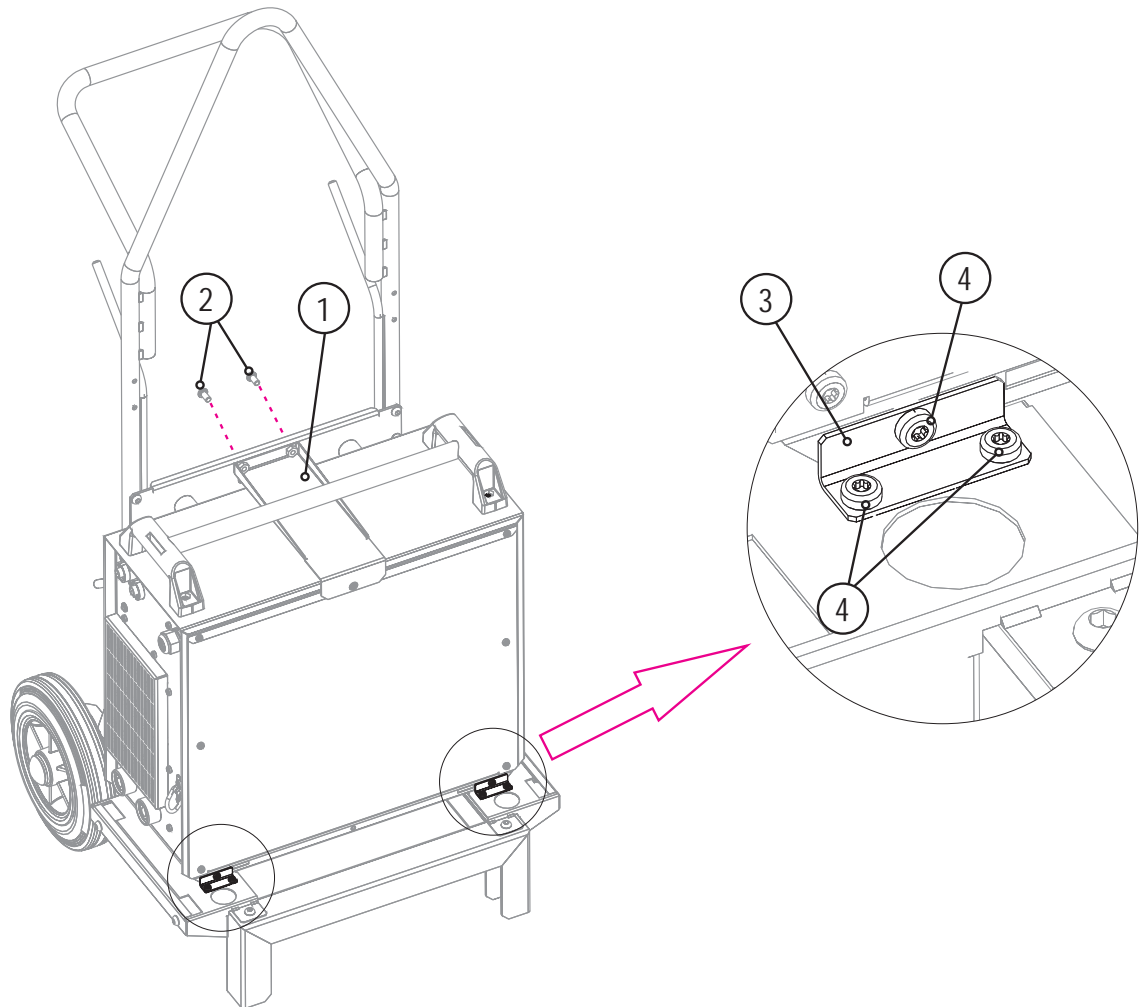


Figure 5-2

Item	Symbol	Description
1		Machine hold-down device
2		Tallow-drop hexagonal socket screw and ratchet nut M8
3		Mounting clip
4		Threaded grooved pin, M5 x 10 mm

- Lower the hold-down device onto the power source.
- Secure the hold-down device using star knobs.
- Attach the mounting brackets to the power source and transport system using 3 M5 x 10.

5.1.1 Taurus / Phoenix 405, 505

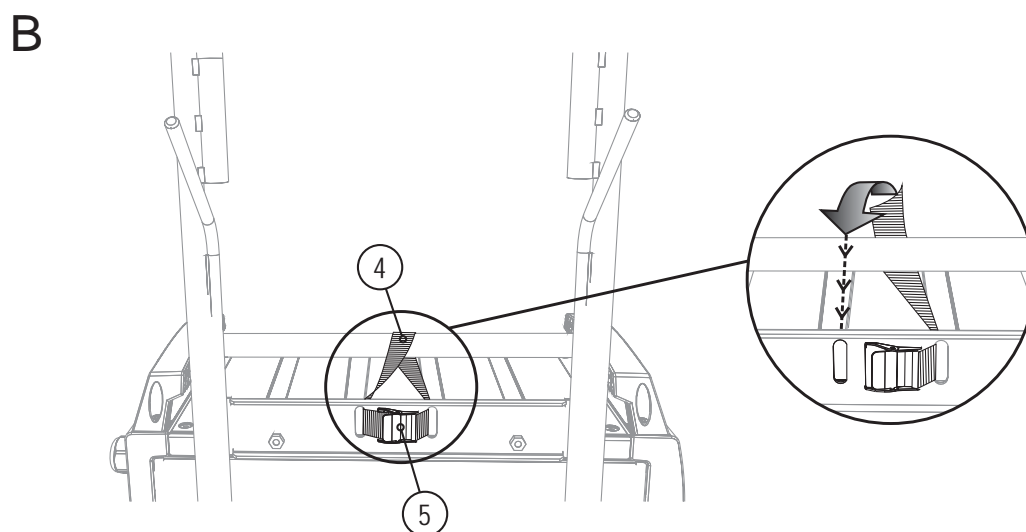
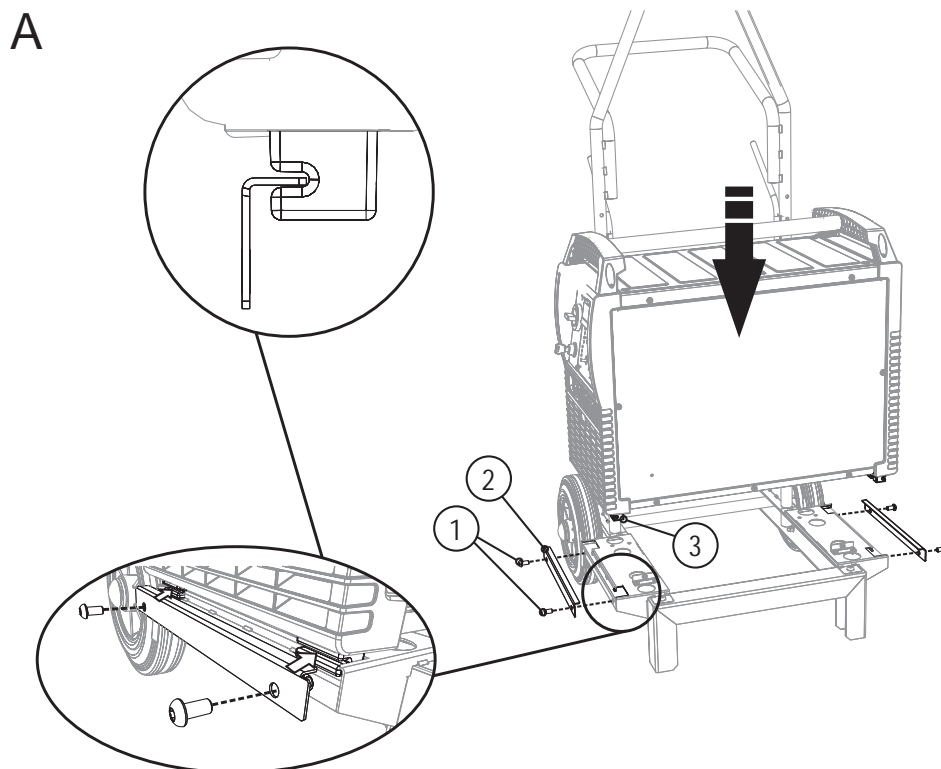


Figure 5-3

Item	Symbol	Description
1		Flat head screw
2		Clamping plate
3		Machine feet
4		Strap, fastening the machine
5		Tension closure

- Place the welding machine with its feet in the recesses provided.
- Attach the clamping plates to the transport system using 2 M8 x 16 screws each.
- Insert the ratchet straps as shown and pull tight.

5.2 Using the transport system

CAUTION



Improperly secured equipment!

Equipment, equipment combinations and accessories incorrectly fastened onto transport systems can tip over during transport and cause injuries!

- Only use the original parts supplied to fasten the equipment.
- Use the systems only for transporting the machines given in the "Intended use" chapter.
- Check the fixing points before each transport and at regular intervals.

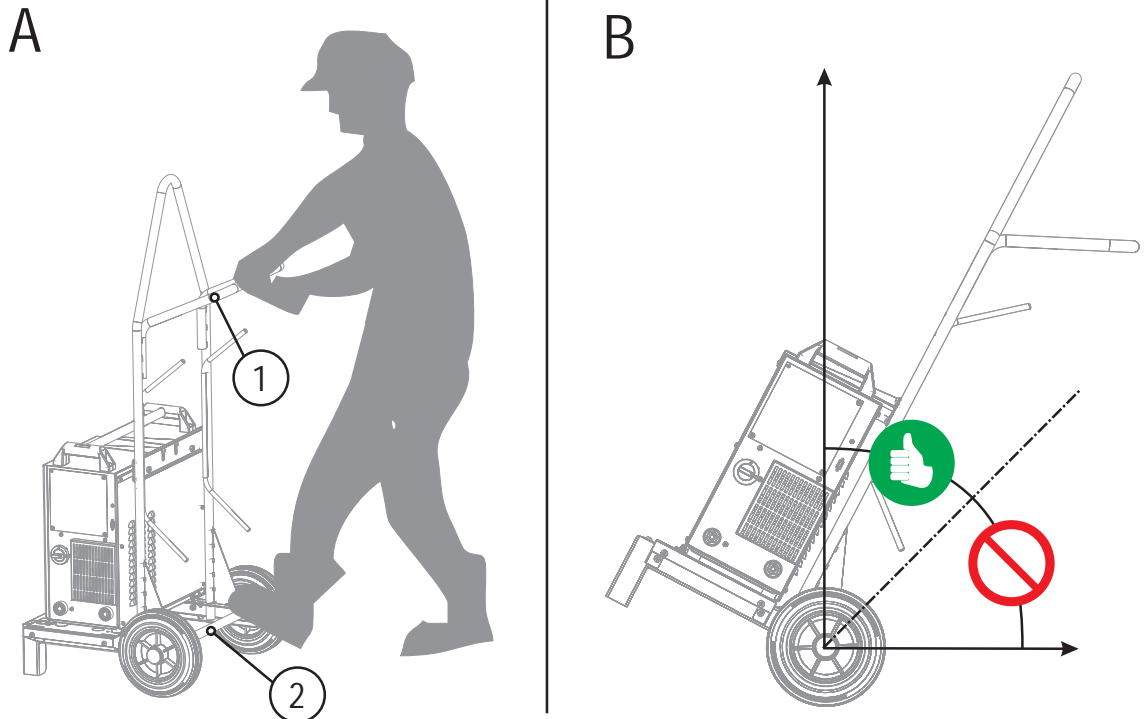


Figure 5-4

Item	Symbol	Description
1		Carrying handle
2		Foot bar

- Hold the transport vehicle by the transport handle.
- Secure the transport vehicle with your foot on the foot bar.
- Tilt the transport vehicle at an angle of 40° to move it.

5.2.1 Lifting by crane



DANGER



Risk of injury during lifting by crane!

When lifting the unit by crane there is a risk of serious injuries due to the units or add-on modules falling down!

- Ensure that there is an even load distribution!
- Observe the lifting principle (see Fig.)!
- Use shackles and lifting hooks of the appropriate size!
- Do not lift any other loads at the same time!
- Avoid jerky movements when raising or lowering!

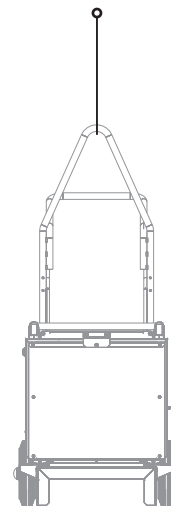


Fig. Lifting principle

6 Maintenance, care and disposal

6.1 General

When used in the specified environmental conditions and under normal operating conditions, this machine is largely maintenance-free and requires a minimum of care.

There are some points which should be observed to guarantee fault-free operation of your welding machine. These include regular cleaning and inspection as described below, depending on the degree of soiling in the surroundings and how long the transport vehicle is in use.

6.2 Maintenance work, intervals

6.2.1 Daily maintenance tasks

- Gas cylinder securing elements
- Other, general condition
- Keep moving parts clean.
- Wheels and their securing elements
- Transport elements (strap, lifting lugs, handle)

6.2.2 Monthly maintenance tasks

- Tighten the screw connections.
- Check bearings for damage.
- Service at regular intervals and check for errors.

6.3 Maintenance work



DANGER



Do not carry out any unauthorised repairs or modifications!

To avoid injury and equipment damage, the unit must only be repaired or modified by specialist, skilled persons!

The warranty becomes null and void in the event of unauthorised interference.

- Appoint only skilled persons for repair work (trained service personnel)!

Repair and maintenance work may only be performed by qualified authorised personnel; otherwise the right to claim under warranty is void. In all service matters, always consult the dealer who supplied the machine. Return deliveries of defective equipment subject to warranty may only be made through your dealer. When replacing parts, use only original spare parts. When ordering spare parts, please quote the machine type, serial number and item number of the machine, as well as the type designation and item number of the spare part.

6.4 Disposing of equipment

NOTE



Proper disposal!

The machine contains valuable raw materials, which should be recycled, and electronic components, which must be disposed of.

- Do not dispose of in household waste!
- Observe the local regulations regarding disposal!



6.4.1 Manufacturer's declaration to the end user

- According to European provisions (guideline 2002/96/EG of the European Parliament and the Council of January, 27th 2003), used electric and electronic equipment may no longer be placed in unsorted municipal waste. It must be collected separately. The symbol depicting a waste container on wheels indicates that the equipment must be collected separately.
This machine is to be placed for disposal or recycling in the waste separation systems provided for this purpose.
- According to German law (law governing the distribution, taking back and environmentally correct disposal of electric and electronic equipment (ElektroG) from 16.03.2005), used machines are to be placed in a collection system separate from unsorted municipal waste. The public waste management utilities (communities) have created collection points at which used equipment from private households can be disposed of free of charge.
- Information about giving back used equipment or about collections can be obtained from the respective municipal administration office.
- EWM participates in an approved waste disposal and recycling system and is registered in the Used Electrical Equipment Register (EAR) under number WEEE DE 57686922.
- In addition to this, returns are also possible throughout Europe via EWM sales partners.

6.5 Meeting the requirements of RoHS

We, EWM HIGHTEC Welding GmbH Mündersbach, hereby confirm that all products supplied by us which are affected by the RoHS Directive, meet the requirements of the RoHS (Directive 2002/95/EC).

7 Technical data**7.1 Trolley 39-1**

Dimensions (LxWxH) in mm	650 x 630 x 1445
Weight without accessories	Approx. 24 kg
Constructed to standard	IEC 60974-1

8 Appendix A

8.1 Overview of EWM branches

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