

Operating instruction

MINI KARUSSELL

Order-no. 74082



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Safety instructions

1. General

These operating instructions are designed to familiarize the user with the equipment. They contain important information on how to operate the equipment safely properly and efficiently. Observing these instructions will help to avoid accident or injury, keep repair costs and downtimes minimal, and increase the reliability and life of the equipment.

2. Designated use of the equipment

The equipment has been manufactured in accordance with the state-of-the art standards and recognized safety rules. Nevertheless, the use of the equipment may constitute a risk of life and limb to the user or to third parties.

The equipment must only be used in mechanically proper conditions and in accordance with the guidelines of the operating instructions. Any malfunctions, especially those affecting the safety of the equipment, should be corrected immediately before using the equipment.

The equipment is exclusively designed for the application described in the operating instructions. Using the equipment for purposes other than described in the instructions is considered contrary to its designated use. The manufacturer cannot be held liable for any damage resulting from such use. The risks posed from such misuse lies entirely with the user.

Operating the equipment within the limits of its designated use also involves observing the guidelines as set out in the operating instructions and by complying with all inspection and maintenance directives.

3. Safety instructions

3.1. Organizational measures

The operating instructions must always be available where ever the equipment may be in use!

The user must observe all regulations relevant to accident prevention and environmental protection.

Risk of injury! In order to avoid injuries the equipment must only be operated by specially trained personnel who have undergone proper safety training.

Never make any modifications, additions, or conversions that might affect the safety of the equipment.

Spare parts must comply with the technical requirements specified by the manufacturer. Spare parts from LANCIER CABLE are recommended.

For accessories and/or system components use only LANCIER CABLE spare parts.

3.2. General Safety Instructions

In the event of malfunction, immediately shut down the equipment and secure it; repair the defects immediately.

Avoid any operational mode that might be dangerous or unsafe. Make sure that there is always adequate light during work.

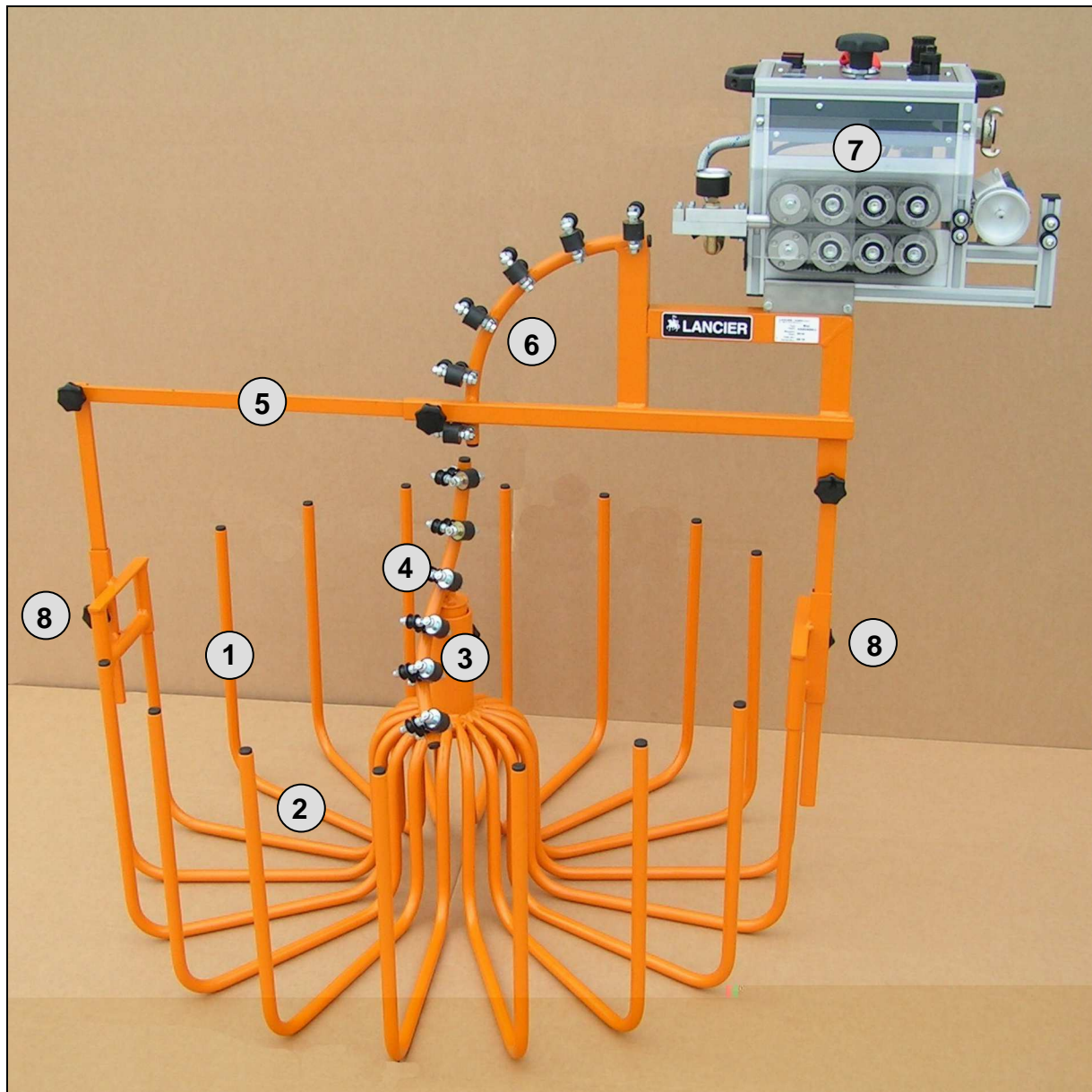
Check the equipment after each operation for obvious damages and defects. Immediately report to a supervisor any changes in equipment operation.

Product description

Under normal circumstances it will not be possible to install very long length of cable (longer than 2000 m) in one working step into a cable duct.

In this case the cable coiling apparatus MINIKARUSSELL can be put into action. With this machine it is possible to install very long cable length (for example 4000 m and more) without figuring the cable into eights or manual loops.

The operating position should be located at a cable pit halfway in the middle of the track in which the cable is to be blown in using a cabling caterpillar.



The MINIKARUSSELL consists of the round cage (1) for the take-up of the cable. The vertical external rods of the cage are connected via the base rods (2) with the center of the cage.

A rotatable vertical arm with bearing (3) is fixed in the centre of the cage. The turning jaw can rotate by 360° and is equipped at the top of the arm with a guiding bend (4). The guiding bend is equipped with rollers and at the end an adjustable cable outlet is mounted.

A vertical cross arm (5) is fixed to both exterior sides of the cage.

The guiding bend (6) is fixed to the cross arm in such a way that the end is positioned above the turning jaw and aligned with it. A cabling caterpillar can be mounted outside the outer cage at the horizontal run-out for coiling and uncoiling the cable.

The cable caterpillar may now push the cable via the guiding bend (6) to the turning jaw (4). The turning jaw places the cable automatically ring wise into the cage.

Set up of the system



When working in public traffic area secure the working area according to traffic regulations.

To guarantee optimum operation choose even and horizontal ground for the set-up of the MINIKARUSSELL, such that the guiding bend can rotate free in the cage.

If necessary, level the ground to allow a trouble-free operation.

Insert the turning jaw (3) into the mounting of the inner cage and check on easy rotation.

Position both mountings for the take-up (5) of the upper roller guides onto the cage struts.

Take care that the take-ups are in the right position in relation to the cabling direction and the cable drum.

Fix the vertical struts for the cross arm (5) of the upper roller guide in both take-ups and fasten by the tommy screw

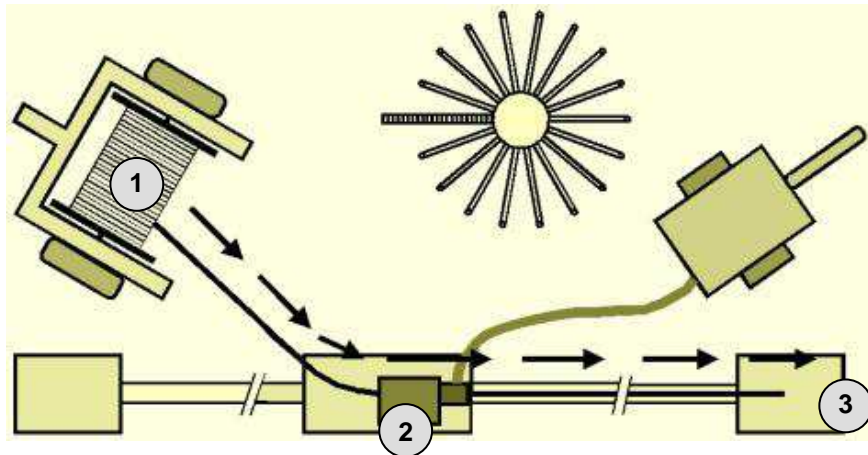
Now the correct height of the cross arm with the roller guide can be adjusted in relation to the revolving arm by the two tommy screws (8).

The distance of the roller should be so large, that the cable cannot be kinked during running from the cross arm guide to the revolving arm.

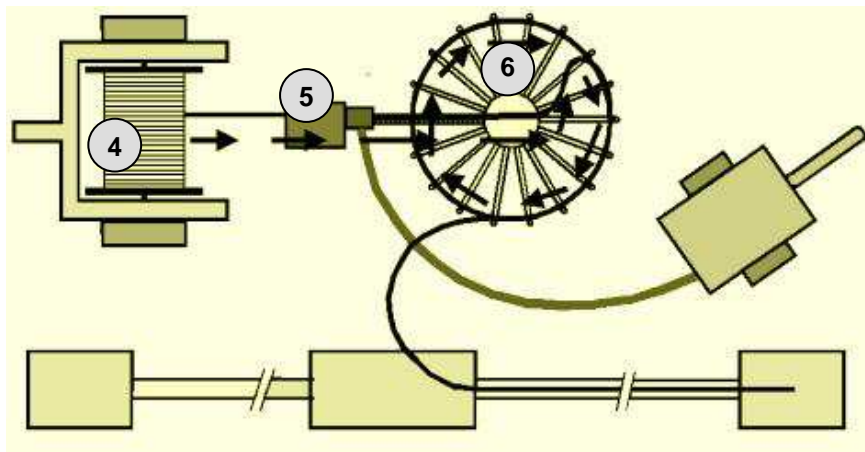
Put the cable blowing machine (7) onto the take up frame with its blowing head near to the first roller.

The cable may be not kinked during operation due to too large distance between the blowing head and the first roller.

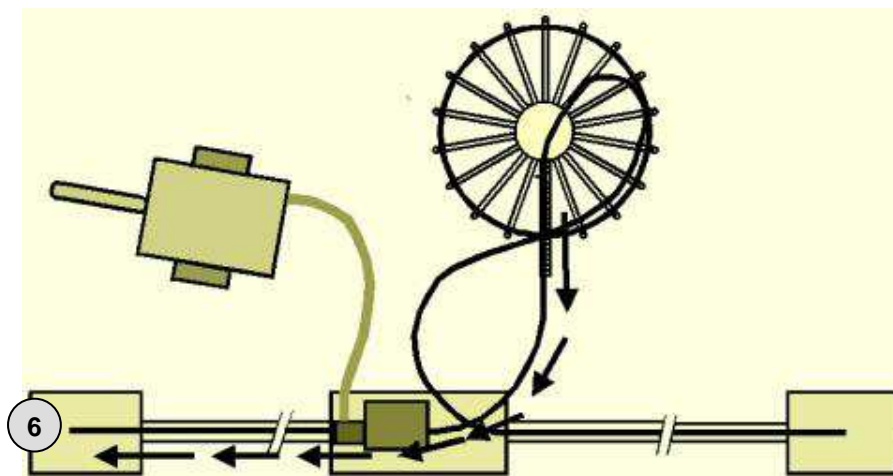
Function



At the beginning of the procedure the first part of the cable is blown in directly from the cable drum (1) via the cable blowing machine (2) to the first receiving pit (3).



Then the second length of the cable is „coiled in“ from the cable drum (4) into the MINIKARUSSELL (6) using again the cable caterpillar (5).



The process is finished by blowing in the cable end out of the MINIKARUSSELL to the second receiving pit (6) without twisting the cable.

Set up of the MINIKARUSSELL and the cable blowing machine



Cable coiling

After switching on the cable blowing machine slowly pull the cable from the cable drum and push it via the roller guides into the cable take-up cage.

Lay the first 2 windings in right-hand directions manually.

Slowly raise the speed of the cable blowing machine.

Adjust the turning jaw run-out at the tilting joint depending on cable stiffness.

Pay attention to the fact that the outlet of the upper roller-guide is in-line with the lower roller-guide at the turning jaw.



Risk of damage!

Observe the coiling-in process constantly!

Observe the max. permissible pushing force for the cable!

After coiling the cable into the cage of the MINIKARUSSELL open the cabling caterpillar, take the cable out and dismount the turning jaw.

Dismantle the cabling caterpillar from the frame and attach it to the empty duct in the cable pit if necessary for continuing the blow-in procedure.

Dismantle the turning jaw and switch on the cable blowing machine. The cable will be automatically pulled-out from the cage.

Maintenance



Risk of damage!

Before every use check that the components are complete.

Check the rollers of the guiding bends. They should be easy-running, lubricate if necessary.

Check also the bearing of the turning jaw for easy-running, lubricate if necessary.

After every use clean all parts and eliminate failures immediately

Technical data

Measures (set up)	Length:	900 mm
	Width:	900 mm
	Height:	940 mm

Transport measures	Length:	900 mm
	Width:	900 mm
	Height:	410 mm

Weight	24 kg
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