



Instructions for assembly and use

Tanker ladder



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The tanker ladder described in this documentation is manufactured by

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1 GENERAL INFORMATION

1.1 Introduction

These instructions for assembly and use apply exclusively to the tanker ladder comprising the following modules.

	Order No.
Base module - ladder	591000
Mandatory module - railing	
Round	591004
Rectangular	591005
Mandatory module - chassis	
Standard chassis	591010
Chassis with extendable stabiliser suitable for fitting spindles	591011
Optional modules	
Platform, 300 mm long	591020
Platform, 600 mm long	591021
Platform, 800 mm long	591022
Platform railing	591006
Antistatic module	591030

The safety information and regulations and ordinances pertaining to the handling of tanker ladders referred to in these instructions for assembly and use apply to the tanker ladders covered by this documentation.

The operator of the equipment bears sole responsibility for

- adherence to local, regional and national regulations.
- observance of the regulations (laws, ordinances, guidelines etc.) for safe handling listed in the instructions for assembly and use.
- ensuring that the instructions for assembly and use are made available to assembly and operating personnel and that the information and warnings contained therein and the safety provisions are strictly observed.



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1.2 Obligations, liability and warranty

The basic requirement for safe handling is a knowledge of the safety instructions and the safety regulations. These instructions for assembly and use, in particular the safety instructions, must be observed by all persons working with or on the tanker ladder. In addition, all local rules and regulations for accident prevention must be observed.

Dangers involved in handling the tanker ladder:

- The tanker ladder corresponds to the technological state-of-the-art and is designed to comply with all valid safety technology requirements. Nevertheless, the use of the ladder may involve danger to the life and limb of the user or third parties or the risk of damage to the tanker ladder itself or other property. The tanker ladder is designed solely
 - \rightarrow for the prescribed use and
 - \rightarrow must not be used unless it is in technically perfect condition.

Any damage impairing the safe operation of the equipment must be repaired immediately.

The scope, period and form of the warranty are stipulated in the manufacturer's sales and delivery conditions. In the case of warranty claims arising from inadequate documentation, the instructions for assembly and use valid at the time of delivery apply.

The following apply above and beyond the sales and delivery conditions:

The manufacturer can accept no liability for damage to the tanker ladder supplied arising from one or more of the following:

- any use of the tanker ladder other than the intended use,
- incorrect assembly and use of the tanker ladder,
- use of the tanker ladder with defective components,
- ignorance of or failure to comply with these instructions for assembly and use,
- assembly or operation by insufficiently qualified or instructed personnel,
- failure to carry out repairs appropriately,
- use of any parts other than original spare parts and original modules. Use of other spare parts and accessories is not permissible, except in exceptional cases and subject to written approval from ZARGES GmbH.
- unauthorised structural modifications to the tanker ladder,
- catastrophes due to the influence of external elements and force majeure.

The operator bears sole responsibility for

- ensuring that the safety provisions as per section 2 and 6.1 are complied with.
- preventing improper use (see section 2.4), incorrect erection of the equipment and unauthorised use.
- Above and beyond this, the operator must also ensure that the equipment is put to its intended use (see section 2.3).



2 SAFETY PROVISIONS

2.1 Basic safety instructions

- For the stability and load-bearing capacity of the tanker ladder, the regulations and standards DIN EN 131-1, DIN EN 131-2 and ZH 1/367 (in extracts) apply.
- For the use of the tanker ladder, the stipulations of BGV D36 "Ladders and steps", BGI 694 "Instructions for handling ladders and steps" and where appropriate BGV D33 "Working in the vicinity of railway tracks" apply.
- For the use of the cable winch, the stipulations of BGV DB "Winches, lifting and towing equipment" apply.
- For the use of electrical equipment on the tanker ladder, the stipulations of ZH 1/228 "Safety regulations for the use of electrical equipment where there is increased hazard due to electricity" apply.

Standard/Regulation	Area of validity
DIN EN 131-1	Ladders
DIN EN 131-2	Ladders
BGI 594	"Safety and health protection in areas with increased hazard due to electricity"
BGI 637	Platform ladders (in extracts)
BGI 694	"Use of ladders and steps"
BGV D36	"Ladders and steps"
BGV D33	"Working in the vicinity of railway tracks"
BGV D8	"Winches, lifting and towing equipment"

2.2 Safety symbols

The following terms and symbols are used in these instructions for assembly and use to draw attention to potential hazards:



This symbol warns of a danger zone.



This symbol appears next to tips and information on optimum use of the tanker ladder.



This symbol appears next to information on proper disposal and storage of waste.



2.3 Intended use

The tanker ladder described in these instructions for assembly and use is designed exclusively as a means of access to tanker vehicles, railway tank waggons and stationary tank plants. The tanker ladder is intended primarily for use during filling, and draining, while drawing samples, performing maintenance or minor repairs. The railing provides protection against falling.

Intended use also includes

- the observance of all information contained in these instructions for assembly and use and
- adherence to the regular inspection schedule.

2.4 Improper use

Improper use, that is any deviation from the stipulations of section 2.3 of these instructions for assembly and use of the specified tanker ladder constitutes improper use as defined by ProdSG (status 01.08.1997). This also applies to non-observance of the standards and guidelines listed in these instructions for assembly and use.

Dangers may arise as a result of improper use. Examples of such improper use are:

- attachment of hoses to the tanker ladder or pulling up hoses via the ladder or the railing ring.
- the use of the tanker ladder in a position other than that described in section 2.3.

2.5 Special safety provisions

Working in the vicinity of railway tracks

The regulations defined in BGV 33 must be observed when performing work in the vicinity of railway tracks.

Especial care must also be taken when driving over uneven surfaces and thresholds (danger of tipping).





3 PACKAGING AND TRANSPORT

3.1 Scope of delivery

	Number
Ladder (incl. attachment material)	
Ladder with cable winch and double-sided handrail	1
Support section	1
Chassis incl. attachment material	1
Railing incl. attachment material	1
Platform (optional)	
Platform railing (optional)	

3.2 Transport

The tanker ladder can be pushed to the place of use on the two fixed and the two swivel castors.

Before transporting the ladder on vehicles:

- Check that the transport vehicle has sufficient load-bearing capacity to carry the weight of the tanker ladder.
- Press down the brake lever of the swivel castors.
- Secure the tanker ladder to prevent it rolling.



4 DESCRIPTION OF THE TANKER LADDER

4.1 Structure

The tanker ladder consists of a two-part push-up ladder with manual height adjustment via a cable winch mounted on the side, a support section and a handrail on both sides. Railings, platform and chassis are added in accordance with your specific requirements.



Illustration 1: Structure of the tanker ladder

- 1 Chassis
- 2 Push-up ladder
- . 3 Handrail
- 4 Railing
- 5 Platform

- 6 Support section
- 7 Cable winch with crank
- 8 Fixed castor (2x)
- 9 Swivel castor (2x)





4.1.1 Mandatory module - railing

There are two different railing versions for the tanker ladder.



Illustration 2: Round railing (left) and rectangular railing (right)





Illustration 3: Standard chassis (left) and chassis with adjustable stabiliser (right)



4.2 Technical data

4.2.1 Modules

The tanker ladder can consist of the following modules, depending on individual requirements.

- Base module ladder
- Mandatory module railing
 - \rightarrow Round railing
 - → Rectangular railing
- Mandatory module chassis
 - \rightarrow Standard chassis with rigid stabiliser
 - \rightarrow Chassis with extendable stabiliser suitable for fitting spindles
- Optional module
 - \rightarrow Aluminium platform
 - → Platform railing with double lifting barrier
- Optional
 - \rightarrow Antistatic module

4.2.2 Dimensions and weight of the modules

Base module - ladder

Vertical height, extended	5190 mm	Vertical height, last rung	4024 mm
Vertical height, retracted	3820 mm	Vertical height, last rung, retracted	2770 mm
Material	Aluminium profiles	Ladder inside width	600 mm
Permissible load for the ladder	150 kg	Permissible rung load	150 kg
Weight of ladder incl. support section	approx. 98 kg	Weight of double-sided handrail	approx. 10 kg
Cable winch type	4210.0, 125	Weight of cable winch	approx. 2 kg

Technical data for special sizes and configurations may vary from those of the standard tanker ladder. The type plate shows the permissible load for the specific ladder.

Mandatory module - railing

Round railing	Ø 1500 mm	Rectangular railing Width Length	1500 mm 2050 mm
Weight (round railing)	15 kg	Weight (rectangular railing)	22 kg
Material	Aluminium	Railing height	approx. 1000 mm





Mandatory module - chassis

Standard chassis Win	dth ngth	approx. 2000 mm approx. 2350 mm	Weight (standard chassis	5)	265 kg
Chassis with extendable sta suitable for fitting spindles Adjustment range	abiliser	200 mm	Weight (chassis with extendable stabiliser)		286 kg
Dimensions retracted Win Lei	dth ngth	1050 mm 2000 mm	Dimensions extended \ L	Width Length	2350 mm 2000 mm
Wheel diameter of swivel c	astors	160 mm	Wheel diameter of fixed of	castors	250 mm
Material		Steel/ aluminium			

Optional module - platform

Platform width	600 mm		
Platform length	300 mm	Weight	6 kg
Platform length	600 mm	Weight	9 kg
Platform length	800 mm	Weight	12 kg
Material	Aluminium		

See the enclosed assembly plan for dimensions of special sizes and special configurations.

4.3 Identification of the tanker ladder

The identification plate is glued to the ladder stile on the side, between the 5th and 6th rung from the bottom.

Bestell-Nr. Model No.	591000	Produktionsdatum Date of production 01/2009			
		zul. Bel. gesamt = 150 kg		kg	

Illustration 4: Type plate (example)



5 ASSEMBLING THE TANKER LADDER

5.1 Safety provisions

- The tanker ladder must be erected on a surface with sufficient load-bearing capacity.
- Only original spare parts made by the manufacturer of the tanker ladder may be used.
- Self-locking nuts must be used during assembly and repairs. These self-locking nuts may only be used once!
- When establishing bolted joints, always place washers under the head of the bolt and the nut.
- Assembly work must be carried out by appropriately trained personnel. Appropriately trained personnel is defined as persons with technical training enabling them to carry out assembly and repair work in their specific specialist area.
- After assembly, check that the tanker ladder has been assembled correctly.
- After assembly, check that all bolted joints are tightly seated. Use a torque wrench to tighten the bolted joints with a torque of 30 Nm.
- After assembly, check that all retaining devices are functioning correctly.

5.2 Assembly



Remove packaging material and dispose of it in accordance with the valid environmental protection regulations.



Assembly must be performed by a team of three persons.

The following aids and tools are required for assembly:

- Stepladder, height approx. 3 m
- Ratchet wrench with socket width across flats 10, 13, 19
- Combination wrench width across flats 13, 19
- Philips screwdriver
- Rubber or wooden hammer
- Torque wrench



The double-sided handrail and the cable winch are already fitted and ready for use.





5.2.1 Attaching the railing to the ladder

Irrespective of whether the round or rectangular version of the railing is used, the two sections of the railing must be bolted together before attaching the railing to the ladder.

Assembling round railing

• Fit the two halves of the railing together and bolt them tight with the countersunk bolts M6x50, washers and nuts.



Illustration 5: Fitting the two halves of the railing together

Assembling rectangular railing

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• Fit the two halves of the railing together and bolt them tight with the countersunk bolts M6x50 (1).



Illustration 6: Fitting the two halves of the railing together and bolting them tight



Fitting the railing brackets

- 1. Slide the four railing brackets (2) onto the railing (3) and position them so that the bores are aligned.
- 2. Tighten bolt (1) to fix the brackets in place.



Illustration 7: Sliding the railing brackets onto the railing

- 1 Bolt 3 Railing
- 2 Railing bracket

Attaching the railing to the ladder

- 1. Working with another person, carry the railing to the ladder. The railing ring with the short ends should be positioned at the top end of the ladder.
- 2. Place the ends of the two railing rings onto the joint connection on the handrail.
- 3. Insert the bushings into the bores in the ladder.
- 4. Insert the bolts M8x100 through the ladder stiles and the railing brackets from the inside and bolt them tight with washers and nuts.



Illustration 8: Attaching the railing to the ladder

1	Railing bracket	3	Railing
2	Handrail	4	Ladder

5. Then tighten all bolts.





5.2.2 Attaching the ladder to the chassis

 \triangle

Three persons are required for assembly.

- 1. Lay out all parts on a clean surface.
- 2. Prepare the chassis.
- 3. Press down the brake levers of the swivel castors.
- 4. Release the nuts and washers from the four bolts on the chassis, place them to one side and pull back the four bolts.



Illustration 9: Preparing the chassis

5. Working with another person, lift the push-up ladder into the centre between the two struts and attach it loosely with the two bolts M10x150, bushings, spacer discs, washers and nuts, but do not tighten the bolts.



Caution, danger of tipping! Hold the push-up ladder in position.

- 6. While one person holds the push-up ladder in position, the two others fetch the support section.
- 7. Insert the bushings supplied into the stiles of the push-up ladder.
- 8. Attach the support section loosely to the top of the push-up ladder using bolts M10x50, bushings, washers and nuts, but do not tighten the bolts.



Caution, danger of tipping!

Hold the support section and the push-up ladder in position.

- 9. With all three persons working together, place the push-up ladder and the support section upright and position the support section between the struts at the end of the chassis.
- 10. While one person holds the push-up ladder, the other two attach the support section to the chassis.
- 11. Insert the bolts M10x150 through the support section on both sides and tighten with washers and nuts.
- 12. Tighten all bolts on the support section and ladder to a torque of 30 Nm.



5.3 Final steps

After assembly and before first use, check the tanker ladder for the following:

- Are all bolted joints tightened to the correct torque?
- Are the two locking levers on the push-up ladder section engaged?
- Are the brakes on the swivel castors functioning properly?





6 OPERATION OF THE TANKER LADDER

6.1 Safety provisions

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- The tanker ladder may only be put to the intended use, and any other use is impermissible.
- All safety provisions as defined in section 2 must be complied with.
- Before using the tanker ladder, check that all components are in perfect condition and fully functional. The tanker ladder must not be used if any defects are found.
- The tanker ladder must not be used if there are any slippery substances (e. g. oil, grease) on the platform or the rungs. Clean the tanker ladder before use.
- All persons using the tanker ladder must be familiar with the content of these instructions for assembly and use.
- The tanker ladder must be positioned vertically on an even, horizontal surface with sufficient load-bearing capacity.
- The brake levers on the swivel castors may only be released in order to move the ladder to another position. The brake levers must remain pressed down as long as there are persons on the tanker ladder.
- The steps must be used to reach the platform. Do not climb over the railing.
- The tanker ladder may only be used if the railing is complete.
- The payload of the tanker ladder is 150 kg. Do not exceed this payload. To calculate the payload, add the weight of the person using the ladder and any tools or material the person is carrying.
- Lifting tackle must not be used on the tanker ladder.
- Do not brace yourself against the railing while working.
- Never use planks etc. to bridge the gap between the tanker ladder and the tanker.
- Do not jump up and down while on the ladder or platform.
- No horizontal loads which could cause the tanker ladder to tip may be created, e.g. by work on the tanks.
- If the tanker ladder is set up on or near roads or walkways, attention must be drawn to its location, e.g. by setting up warning signs, lights or barriers.
- Do not step onto the tanker ladder unless the two locking levers are flat against the rung.
- When moving the tanker ladder from one position to another, normal walking speed must not be exceeded. The tanker ladder must be pushed slowly by personnel. The tanker ladder must not be towed by vehicles.
- There must be no person and/or material on the tanker ladder or the platform (option) while it is being moved. Avoid collisions.
- Clear any obstacles from the path of the tanker ladder before moving it.
- Immobilise all swivel castors by pressing down the brake levers. The brake lever may only be released for moving.
- It is not permissible to increase the height of the platform (optional) by means of crates, ladders or other devices.
- Always use undamaged accessories which are in perfect condition and made by the ladder manufacturer.



6.2 Operation

Observe the safety provisions as defined in section 2 and 6.1 when using the tanker ladder.

6.2.1 Adjusting the width of the chassis when moving the tanker ladder (chassis with extendable stabilisers)

Extending the stabilisers

The two stabilisers are in retracted position.

- 1. Pull up and twist the index bolt (2) on one side so that the index bolt remains in raised position.
- 2. Pull the stabiliser (3) out a short distance.
- 3. Twist the index bolt back so that it lies flat against the stabiliser.
- 4. Pull the stabiliser out fully until the index bolt engages in the bore.
- 5. Turn the crank (5) until the support (7) rests on the floor.
- 6. Extend the stabiliser on the other side (steps 1 to 5).



Do not step onto the ladder until both stabilisers have been extended, the two index bolts have engaged and the supports have been lowered.



Illustration 10: Extendable stabiliser

- 1Square tubing5Crank2Index bolt6Spindle3Stabiliser7Support
- 4 Bore

Retracting the stabilisers

The two stabilisers are in extended position.

- 1. Use the crank (5) to raise the support (7) on one side of the ladder.
- Pull up and twist the index bolt (2); the index bolt remains in raised position.
- 3. Slide the stabiliser (3) a short distance into the square tubing (1).
- 4. Twist the index bolt back so that it is flat against the stabiliser.
- 5. Slide the stabiliser fully into the square tubing until the index bolt engages in the bore (4).
- 6. Retract the stabiliser on the other side of the ladder (steps 1 to 5).

The tanker ladder can now be moved.





6.2.2 Moving the tanker ladder to its place of use

- 1. If necessary, retract the extendable stabilisers (see 6.2.1).
- 2. Release the brakes on the swivel castors.



When moving the tanker ladder from one position to another, normal walking speed must not be exceeded. The tanker ladder must be pushed slowly by personnel. The tanker ladder must not be towed by vehicles.

There must be no person and/or material on the tanker ladder or the platform (option) while it is being moved. Avoid collisions.

Clear any obstacles from the path of the tanker ladder before moving it.

- 3. Push the tanker ladder to its place of use.
- 4. If necessary, extend the stabilisers again (see 6.2.1).

6.2.3 Preparing the tanker ladder for access

- 1. Move the tanker ladder to a position at right angles to the tank/tank waggon and such that the pushup ladder can be safely extended.
- 2. Press down the brake levers of the swivel castors.
- 3. Move the push-up ladder section upwards together with the railing ring by turning the cable winch crank clockwise. It is at optimum height when the first rung or the upper edge of the platform is level with the upper edge of the tank.
- 4. To engage the locking lever, always first move the locking levers (1) to a position over the rung (2) and then lower the ladder section so that the locking levers rest against the rung.



Never move the control levers over the rung, as they would press in the locking levers and prevent them resting against the rung.



Illustration 11: Control lever - locking lever

1 Locking lever

3 Control lever

2 Rung

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- 5. Release the brakes and position the tanker ladder as close as possible to the tanker/tank waggon or tank.
- 6. Press down the brake levers.
- 7. It is now safe to climb onto the tanker ladder.



6.2.4 Lowering the tanker ladder

- 1. Release the brake levers and push the tanker ladder away from the tanker/tank waggon to a position where the push-up ladder can be safely lowered.
- Move the push-up ladder section upwards slightly by turning the cable winch crank clockwise until the two control levers have moved to a position over the ladder rung. During the lowering action, the control lever presses the locking lever away from the rung.



Illustration 12: Control lever above the rung

- Locking lever
 Control lever
- 3. Slowly lower the ladder section to the desired position.
- 4. Position the locking levers against the rung again by moving the ladder section upwards a short distance.

Rung

3





7 REPAIRS

7.1 Regular maintenance work

7.1.1 Cleaning and inspecting the tanker ladder

Clean the equipment with water and commercial cleaning agents.



Do not allow cleaning agents to seep into the soil/ground. Dispose of used cleaning agents in accordance with the applicable environmental protection regulations.

7.1.2 Lubricating moving parts

- Check the locking levers, control levers, guide blocks and ladder sections for soiling and clean if necessary.
- We recommend that you lubricate moving parts such as locking and control levers, wheels (swivel castors) and the cable pulley with all-purpose oil at regular intervals (depending on operating conditions) but at least once a year.



Wipe away excess oil, do not allow oil to seep into the soil/ground. Dispose of cleaning cloths moistened with oil in accordance with the applicable environmental protection regulations.

7.1.3 Cleaning and care of the winch cable

- Clean and lubricate the winch cable once a year or more often if required.
- Roll out the winch cable to its full length and clean it with a wire brush.
- Lightly oil it with hydraulic oil.

Inspect the winch cable for the following:

- strong formation of rust
- broken strands
- corkscrew-like deformations
- bends or other deformations

If one or several of these defects is found, the winch cable must be replaced.

7.2 Inspection (testing)

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The tanker ladder must always be checked for correct functioning and perfect condition before it is used. The tanker ladder must not be used if any defects are found. The tanker ladder may only be used again when any defects have been remedied.

- Inspect all components for deformation, nipping and cracks.
- Check that the locking and control levers are in perfect condition and run smoothly.
- Check that the two swivel castors roll smoothly and that the brakes are working properly.
- Have the tanker ladder tested regularly by an expert in accordance with BGV D36. Regularly is defined as testing at an interval which is appropriate for the operating conditions. If the ladder is in constant use under extreme conditions, daily inspection may be necessary.
- Have the cable winch UVV-tested annually in accordance with BGV D8.



Testing must be carried out by an approved expert. Testing must be documented by keeping data sheets, testing records or attaching an inspection sticker. An inspection sticker may only be attached if no safety-relevant defects are found.

The operator (operating company) is responsible for ensuring that testing is carried out at the prescribed intervals. The operator must date and sign the test records to confirm that the defects were ascertained and have been remedied.

7.3 Repair work

- All repair work on the tanker ladder must be carried out by specialist personnel.
- During repair work on bearing parts, such as welding work on parts, these must be inspected by a technical expert.
- Only the manufacturer's original parts may be used for repair work.
- Self-locking nuts must be used when performing repair work. These self-locking nuts may only be used once!
- When establishing bolted joints, always place washers under the head of the bolt and the nut.
- After repair work, the tanker ladder may not be put into operation again until it has been ascertained that it is in perfect working condition. Here, the repaired areas and the safety equipment must be subjected to a special expert assessment.

7.4 Spare parts

Original spare part can be ordered from ZARGES GmbH.

7.5 Disposal

The tanker ladder is made from materials which can be recycled and used again. Specialised companies can recycle the tanker ladder to regain reusable materials and minimise the amount of waste to be disposed of.

• Dispose of the tanker ladder in accordance with the local regulations applicable in your country.





8 DECOMMISSIONING AND STORAGE

The tanker ladder must be decommissioned if it is taken out of use for a period of longer than six months. The required conditions for storage are:

- The possibility of damage to the tanker ladder must be ruled out.
- The storage location must have sufficient load-bearing capacity.
- The tanker ladder must not be exposed to the elements.

Before decommissioning the tanker ladder, carry out the following steps:

- Place the tanker ladder on wooden blocks so that the castors do not touch the ground.
- Clean and lubricate the winch cable as described in section 7.1.3.

After decommissioning:

- Before putting the tanker ladder back into operation again, check it for defects. The tanker ladder must not be put back into operation until any defects have been remedied.
- If UVV-testing for the winch cable has fallen due while the tanker ladder was decommissioned, have testing performed before putting the tanker ladder back into operation.