



Operating Instructions

Translation of original operating instructions

Kerb Stone Handles VZ-I

VZ-I

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EC-Declaration of Conformity / UKCA-Declaration of Conformity

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The machine described above complies with the relevant requirements of the following EU directives:
The object of the declaration described above is in conformity with the relevant UK-Regulations and UK-Guidelines:

EC-machinery directive 2006/42/EC (Reference: OJ L 157, 09.06.2006)

UK-Regulation: Supply of Machinery (Safety) Regulations 2008 (SI 2008 No. 1597)

The following standards and technical specifications were used:

DIN EN ISO 12100

Safety of machinery - General principles for design - Risk assessment and risk reduction

UK-Regulation: BS EN ISO 12100-1:2003+A1:2009

DIN EN ISO 13857

Safety of machinery - safety distances to prevent hazard zones being reached by upper and lower limbs.

UK-Regulation: BS EN ISO 13857:2019

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Erdmannhausen, 02.08.2021.....
(Eric Wilhelm, Managing director)

2 Safety

2.1 Safety symbols


Danger to life!

Identifies imminent hazard. If you do not avoid the hazard, death or severe injury will result.


Hazardous situation!

Identifies a potentially hazardous situation. If you do not avoid the situation, injury or damage to property can result.


Prohibition!

Identifies imminent a prohibition. If you do not avoid the prohibition, death and severe injury, or damage to property will result.

2.2 Explanation of basic concepts

Gripping range:	specify the minimum and maximum product measurements of the gripping good, which can be gripped with this device.
Gripping good(s):	is the product, which will be gripped or transported.
Opening width:	consists of the gripping range and the measure to drive over the gripping good. <i>gripping range + measure to drive over the gripping good = opening width</i>
Immersion depth:	is the maximum gripping height of gripping goods, conditional of the height of the gripping arms of the device.
Device:	is the description for the gripping device.
Product dimensions:	Are the dimensions of the gripping good (e.g. length, breadth, height of the product).
Dead weight:	is the own weight (without gripping good) of the device.
Carrying capacity/working load limit (WLL*):	specify the maximum possible load capacity of the device (for lifting of gripping goods).

*= WLL → (english:) Working Load Limit

2.3 Definition skilled worker / specialist

Only skilled workers or specialists it is allowed to carry out the installation-, maintenance-, and repair work on this device!

Skilled workers or specialists must have for the following points (if it applies for this device), the necessary professional knowledge.

- for mechanic
- for hydraulics
- for pneumatics
- for electrics

2.4 Safety Marking

PROHIBITION SIGN

Symbol	Meaning	Order-No.:	Size:
	The transportation of non rectangular goods is not allowed!	2904.0213	30 mm
		2904.0212	50 mm
		2904.0211	80 mm
	It is not allowed to be under hanging loads. Danger to life!	2904.0210	30 mm
		2904.0209	50 mm
		2904.0204	80 mm
	Do not lift any components off-centre (always in centre of gravity).	2904.0216	30 mm
		2904.0215	50 mm
		2904.0214	80 mm

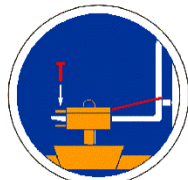
WARNING SIGN

Symbol	Meaning	Order-No.:	Size:
	Danger of squeezing the hands.	2904.0221	30 mm
		2904.0220	50 mm
		2904.0107	80 mm

REGULATORY SIGN

Symbol	Meaning	Order-No.:	Size:
	The manual guiding of the device is only allowed at the red handles.	2904.0227	30 mm
		2904.0226	50 mm
		2904.0225	80 mm
	Each operator must have read and understood the operating instructions (and all safety instructions).	2904.0665	30 mm
		2904.0666	50 mm

OPTIONAL

	Be sure that the fork sleeves are mechanically fixed (with locking screw and safety chain or rope) to the lifting device/carrier.	2904.0223	50 mm
		2904.0222	80 mm

2.5 Personal safety requirements



- Each operator must have read and understood the operating instructions (and all safety instructions).
- Only qualified, authorized personal is allowed to operate the device and all devices which are connected (lifting equipment).
- The manual guiding is only allowed for devices with handles.

2.6 Protective equipment

The protective equipment must consist, according to the safety regulations of the following parts:

- Protective clothing
- Safety gloves
- Safety shoes

2.7 Accident prevention



- The workplace has to be covered for unauthorized persons, especially children.
- Take care in case of thunderstorm!



- The workplace has to be sufficiently illuminated.
- Take care with handling wet, dirty and not solidified components.



- The working with the device in case of atmospheric editions under 3 °C (37,5 °F) is forbidden! Because the goods could be fall down caused by dampness or freezing.

2.8 Function Control

2.8.1 General



- Before using the device check the functions and the working condition.
- Maintenance and lubrication are only permitted when device is shut down!



- Do not use the device, until all faults which can cause safety hazards are removed.
- If there are any cracks, splits or damaged parts on any parts of the device, **immediately** stop using it.



- The operating instructions must be available at the workplace every time.
- Do not remove the type plate of the machine.
- Unrecognisable information signs (such as regulatory or prohibition signs) must be replaced.

2.9 Safety procedures

2.9.1 General



- The use of the device is only permitted in proximity to the ground. Do not swing it over people heads.
- The manual guiding of the device is only allowed at the handles.
- The operator is not allowed to leave the control unit as long as the device loaded with load. The load must always be in the range of vision of the operator.



- While using the device the stay of persons in the working area is forbidden. Except it is indispensable, caused of the way of using the device, e.g. if the device must be leaded by hand.
- The jerky lifting and lowering of the device with and without load. e.g. caused through driving fast with the lifting equipment/carrier over uneven grounds is **forbidden**. Because the gripping good could **fall down**. Unchecked movements of the device.



- The stay under lifted load is forbidden.
Danger to Life!
- Do not pull out stuck or tightened loads with the device.
- Do not lift any components off-centre (always in centre of gravity), because that **could fall down**.
- The device should not be opened if the opening path of the gripping arm is blocked by a resistance (e.g. other concrete blocks or the like)!
- Never exceed the carrying capacity/working load limit (WLL) and the nominal width/gripping range of the device.
- **Never** pull or drag loads sideways. Otherwise parts of the device could be damaged. (see Fig. A →)

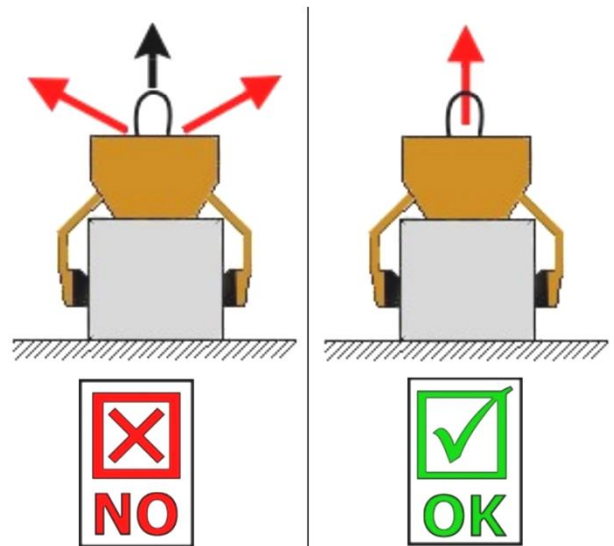


Fig. A

2.10 Carrier / Lifting device



- The used carrier/lifting device (e.g. excavator) have to be in good, safe working condition.
- Only authorized and qualified persons are allowed to operate the carrier/lifting device.
- The operator of the carrier/lifting device must have all the necessary qualifications.



- **Never exceed the maximum allowable carrying capacity/working load limit (WLL) of the carrier/lifting device.**

2.11 General

3 Authorized use

The device (VZ I) is specially designed for gripping and transportation of kerb stones with the corresponding dimensions and is usable with a lifting device or as a TWO-MEN-DEVICE.

Do not exceed the carrying capacity and the gripping range of the device (see “Technical Data”).

The transportation of non rectangular gripping goods, is not allowed, because they could fall down!



ATTENTION: The use of this device is only permitted in proximity to the ground.



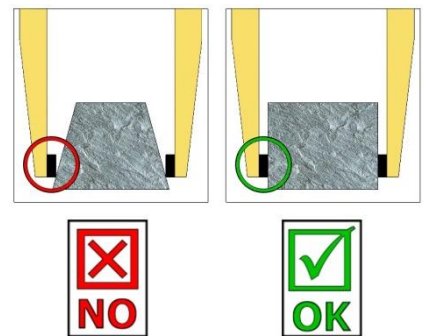
NOT ALLOWED ACTIVITIES:

Unauthorized alterations of the device and the use of any self-made additional equipment could cause danger and are therefore **forbidden!**

Never exceed the **carrying capacity**/working load limit (WLL) and the **nominal width/gripping range** of the device.

All unauthorized transportations with the device are not allowed:

- Transportation of people and animals.
- Transportation of other loads and materials than described in this manual.
- Never suspend any goods with ropes, chains or similar at the device.
- Transportation of **non-rectangular** and **round** gripping goods, because they could fall down (see figure to the right). →
- Gripping of gripping goods with **packaging foil**, because they could fall down.
- Transportation of material with “feet”, “bellies” and “blind spacers”.



- The device is only designed for the use specified in this documentation.
- Every other use is not authorized and is forbidden!
- All relevant safety regulations, corresponding legal regulations, especially regulations of the declaration of conformity, and additional local health and safety regulations have to be observed.



Prior to every operation the user must ensure that:

- the equipment is suited to the intended operation, the functioning and the working condition of the equipment is examined, and the load is suitable to be handled.

Any doubts about instructions should be raised with the manufacturer prior to use.

3.1 Survey and construction

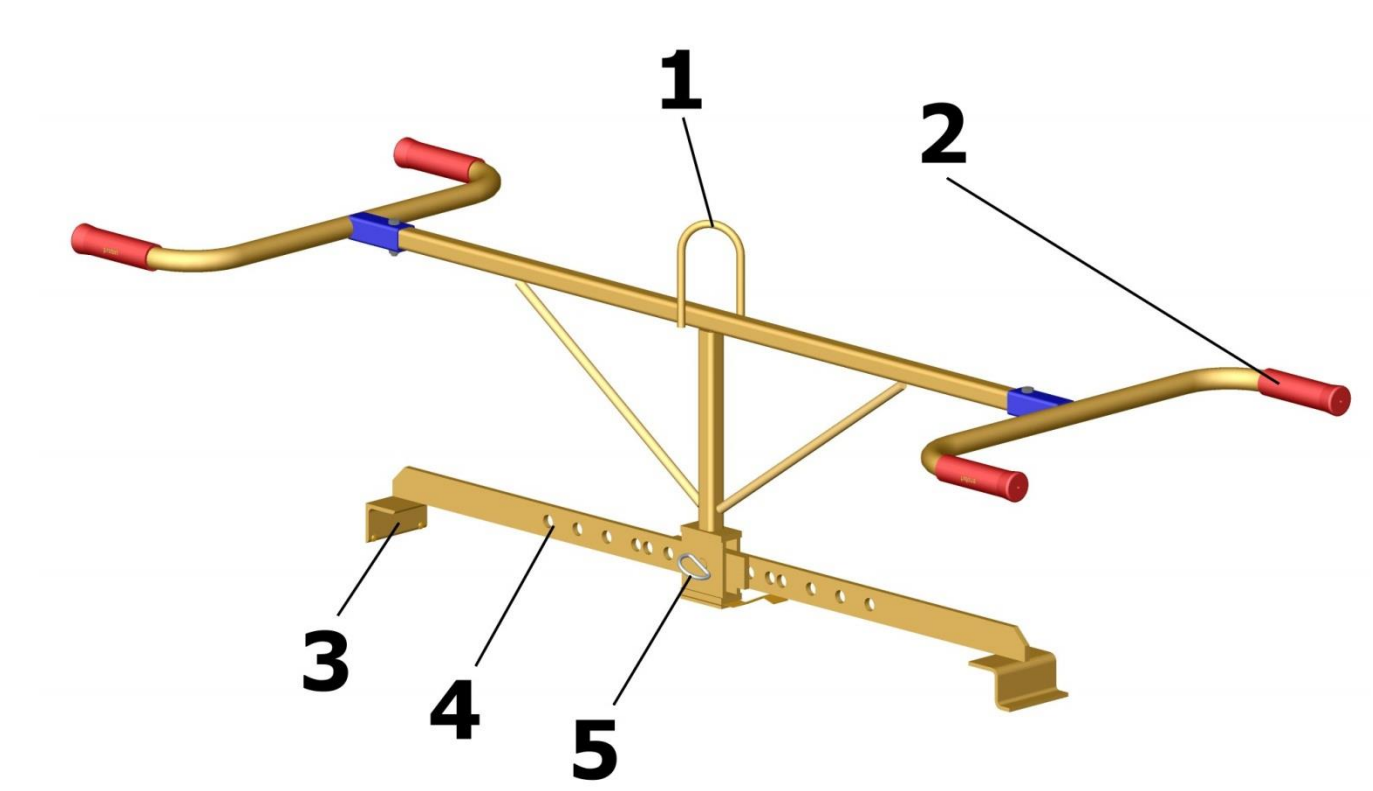


Fig.1

1	Suspension lug for crane hook	4	Gripping arms with gripping range adjustment
2	Handle	5	Socket pin
3	Grippers		

3.2 Technical data

Type	Grippingh range W	Inside Height E	Gripper Lenght L	Carrying capacity	Deadweight
VZ I	500 – 1,045 mm (19¾ - 41¼ ")	40 mm (1½")	100 mm (4")	100 kg (220 lbs)	12 kg (26 lbs)

3.3 Installation

4 Mechanical connection

Generally the device must be suspended on the carrier/lifting equipment so, that it can swing freely in any position. If there are any restrictions in these swinging, mechanical breaks/damages could occur to the suspension or parts of the device.

4.1 Lifting eye / Suspension bolt

- The device is equipped with a lifting eye / suspension bolt and can be mounted on various carrier / lifting devices.



- Take care that the lifting eye / suspension bolt is safely joined with the lifting tackle (e.g. crane hook, belt) and cannot slide down.



- The maximum carrying capacity/working load limit (WLL) of the carrier/lifting device is not allowed to exceed by the dead weight of the device and the maximum load.

4.1.1 Load hook and chains



- Fit suspension ring in the load hook of the lifting device/carrier.
- Ensure that the single chains strands are not twisted or knotted.**
- Attaching the device to the lifting device/carrier, take care that all local safety regulation is observed.



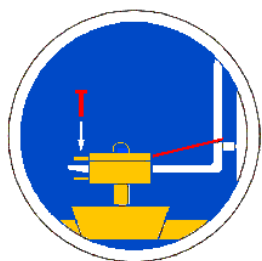
- The carrying capacity/working load limit (WLL) of the lifting device/carrier must not be exceeded by the dead weight of the device and the maximum load weight.

4.1.2 Fork sleeves (optional)

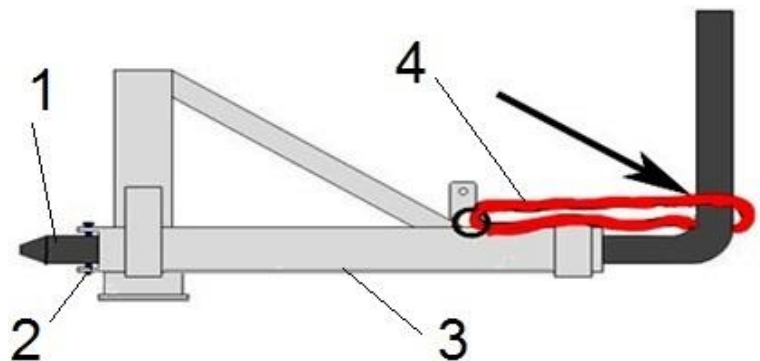
- To establish a mechanical connection between the fork lift and the fork sleeve you have to put the fork into the fork sleeve and fix it with the locking bolt or with a chain/rope, connected to the eyelet on the fork sleeves and the lift frame.



- It is definitely necessary to establish this connection. Otherwise the device could slide from the forks.
DANGER OF ACCIDENTS!



- 1 Fork (of fork lift truck)
- 2 locking bolt
- 3 Fork sleeve
- 4 Chain/rope



4.1.3 Rotators (optional)



When using rotators, a free-wheel throttle valve **must be** installed.

In order to prevent a sudden speedup and stopping the rotational movements, as this may **damage** the device within a short time.

5 Operation

5.1 Adjustment of the gripping range

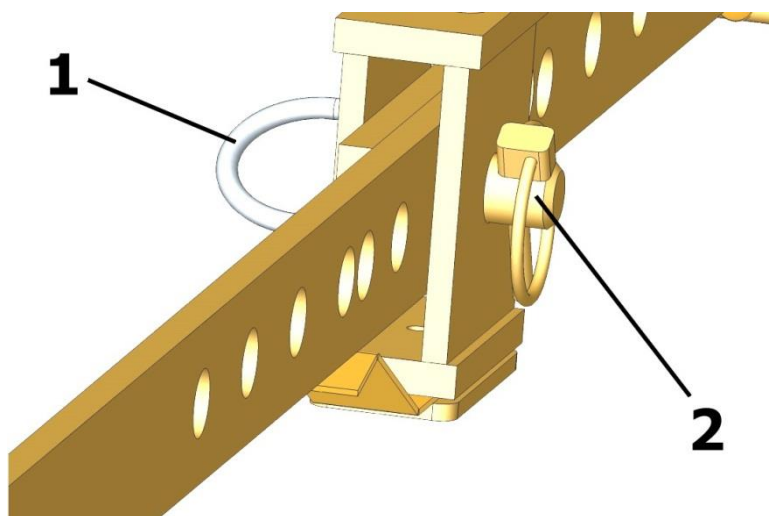
- The indicated gripping range of the device is adjustable by changing the socket pins.
- Remove split pin (1) and pull socket pins (2) out.
- Move gripping arms against each other, until the desired gripping is adjusted.
- Insert socket pin (2) again and secure it with split pin (1).



- The adjustment of the gripping range has to follow general **symmetrical**. That means, it must be used in each case the same adjustable hole with both rectangular tubes. Otherwise the device hangs diagonal.



- Caution while adjusting of the gripping range. **Danger of injuring the hands!**



1	Split pin
2	Socket pin

Fig.2

5.2 Device operation

- Connect the device with the suspension lug to the lifting device and move it to the required position,
- or use the device as a TWO-MEN-DEVICE
- Lower and position the device slowly on the gripping good (kerb stone).
- When lifting the device the grippers cant with side surface of the gripping good and it can be lifted and transported.
- Avoid quick or jerky movements with the device, as the gripping good could fall down.
- Move the device careful to the destination place and deposit device together with the gripping good on the ground.
- Release the device from the gripping good with the help of the two handles, when lifting the device.

6 Maintenance and care

6.1 Maintenance



To ensure the correct function, safety and service life of the device the following points must be executed in the maintenance interval.

Used **only original spare parts**, otherwise the warranty expires.



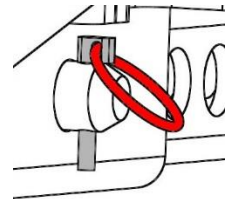
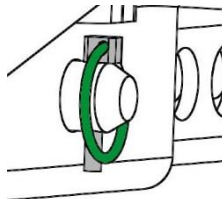
All operations may only be made in closed state of the device!

For all operations you have to make sure, that the device will not close unintended. Danger of injury!!!

6.2 Mechanical

SERVICE INTERVAL	Maintenance work
First inspection after 25 operating hours	Control and tighten all screws and connections. (The implementation is only allowed by an expert).
All 50 operating hours	- Tighten all screws and connections (take care that the tightening torques according to the property class of the screws are observed). - Check all existing safety elements (such as linchpins) for perfect function and replace defective safety elements. → 1) - Check all joints, bolts, guidance's and gears for correct function, if necessary adjust or replace it. - Check all grippers (if available) for signs of wear. - Grease all slidings (if available) when the device is in opened position with a spatula. - Grease all grease nipples (if available) with a grease gun.
Minimum 1x per year (at rough conditions shorten the interval)	Check of all the suspension parts, bolts and straps. Check for corrosion and safety by an expert.

1)



6.3 Trouble shooting

ERROR	CAUSE	REPAIR
The clamping-power is not big enough, the load is slipping out		
(optional)	The grippers are worn	Replace the grippers
(optional)	The maximum load is exceed	Reduce the weight of. the load
(Adjustment of the gripping range) (optional)	The actual opening width is not correct	Adjust the gripping range according to the load you want to transport
(Property of material)	The surface of the material is dirty or the material is not suitable / allowed for this device.	Check the surface of the material or ask the manufacturer, if you the material is allowed for this device.
Unbalanced load		
	The device is not loaded symmetrically	Adjust the position of the load
(Adjustment of the gripping range) (optional)	The adjustment of the gripping range is not symmetrical.	Correct the adjustment of the gripping range
Automatic release does not work		
mechanical (optional)	Automatic release does not work	- Clean automatic release with high pressure-cleaner - Oil the automatic release (never with grease) - Correct faulty switching (→see chapter "Picture of the automatic release") - Change the inset of the automatic release

6.4 Repairs

- Only persons with the appropriate knowledge and ability are allowed to repair the device.
- Before the device is used again, it has to be checked by an expert.

6.5 Safety procedures

- It is the contractor's responsibility to ensure that the device is checked by an expert in periods of max. 1 year and all recognized errors are removed (→ see BGR 500).
- The corresponding legal regulations and the regulations of the declaration of conformity have to be observed!
- We recommend, that after checking the device the badge „Safety checked“ is put on the device. (Order-No.: 2904.0056+inspection sticker with date).
- You can receive these badges from us.



The check by an expert must be proved!

[illegible]

6.6 Hints to the type plate



Type, serial-number and production year are very important for the identification of your device. If you need information to spare-parts, warranty or other specific details please refer to this information.

The maximum carrying capacity/working load limit (WLL) is the maximum load which can be handled with the device. Do not exceed this carrying capacity/working load limit (WLL).

If you use the device in combination with other lifting equipment (Crane, chain hoist, forklift truck, excavator) consider the deadweight of the device.



Example:

6.7 Hints to the renting/leasing of PROBST devices



With every renting/leasing of PROBST devices the original operating instructions must be included unconditionally (in deviation of the users country's language, the respective translations of the original operating instructions must be delivered additionally)!

Proof of maintenance

Warranty claim for this machine only apply for performance of the mandatory maintenance works (by an authorised specialist workshop)! After each completed performance of a maintenance interval the included form must be fill out, stamped, signed and send back to us immediately ¹⁾.

1) via e-mail to service@probst-handling.de / via fax or post

Operator: _____

Device type: _____

Device-No.: _____

Article -No.: _____

Year of make: _____

First inspection after 25 operating hours

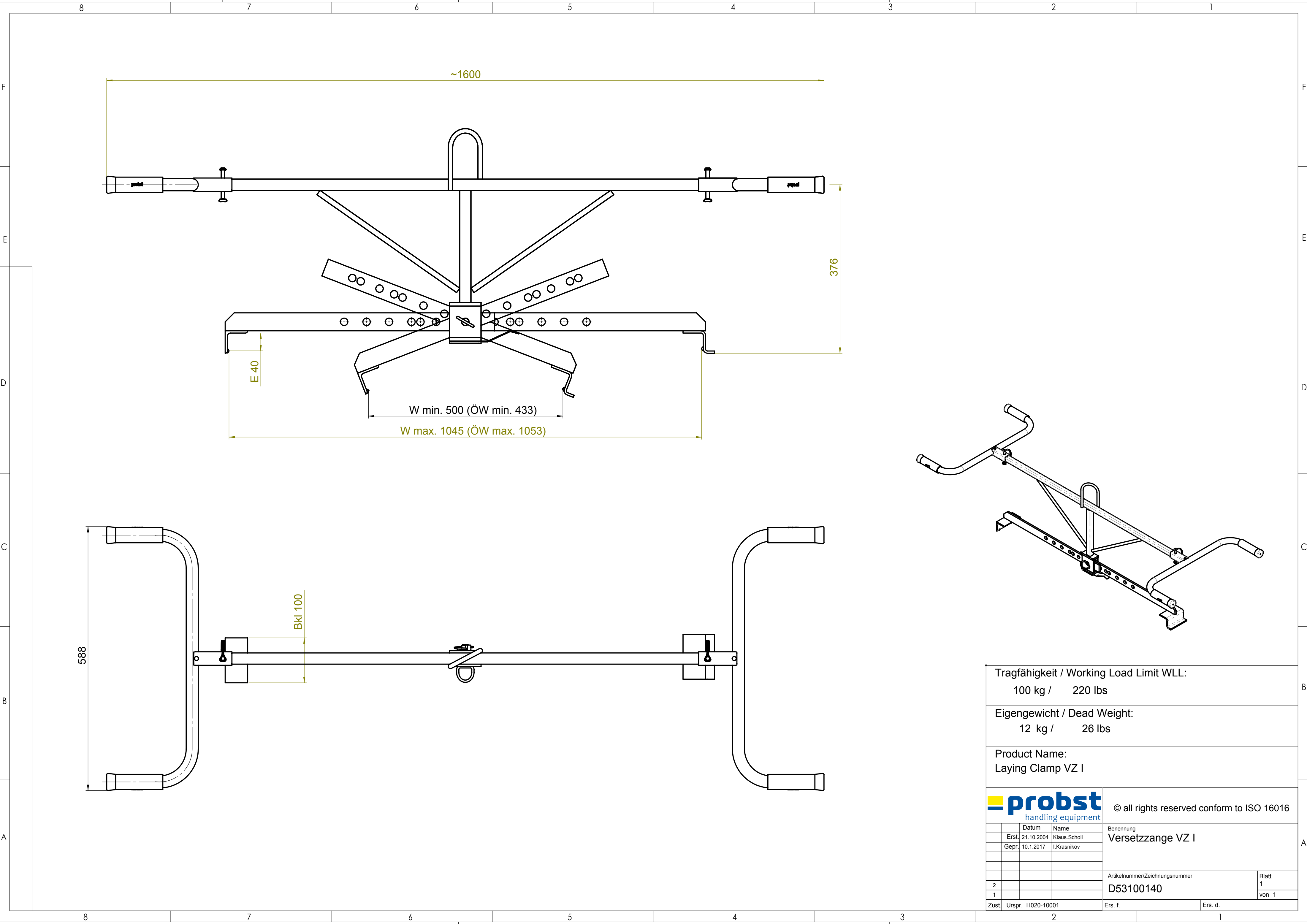
Date:	Maintenance work:	Inspection by company:
		Company stamp
		
		Name Signature

All 50 operating hours

Date:	Maintenance work:	Inspection by company:
		Company stamp
		
		Name Signature
		Company stamp
		
		Name Signature
		Company stamp
		
		Name Signature

Minimum 1x per year

Date:	Maintenance work:	Inspection by company:
		Company stamp
		
		Name Signature
		Company stamp
		
		Name Signature



Tragfähigkeit / Working Load Limit WLL:
100 kg / 220 lbs

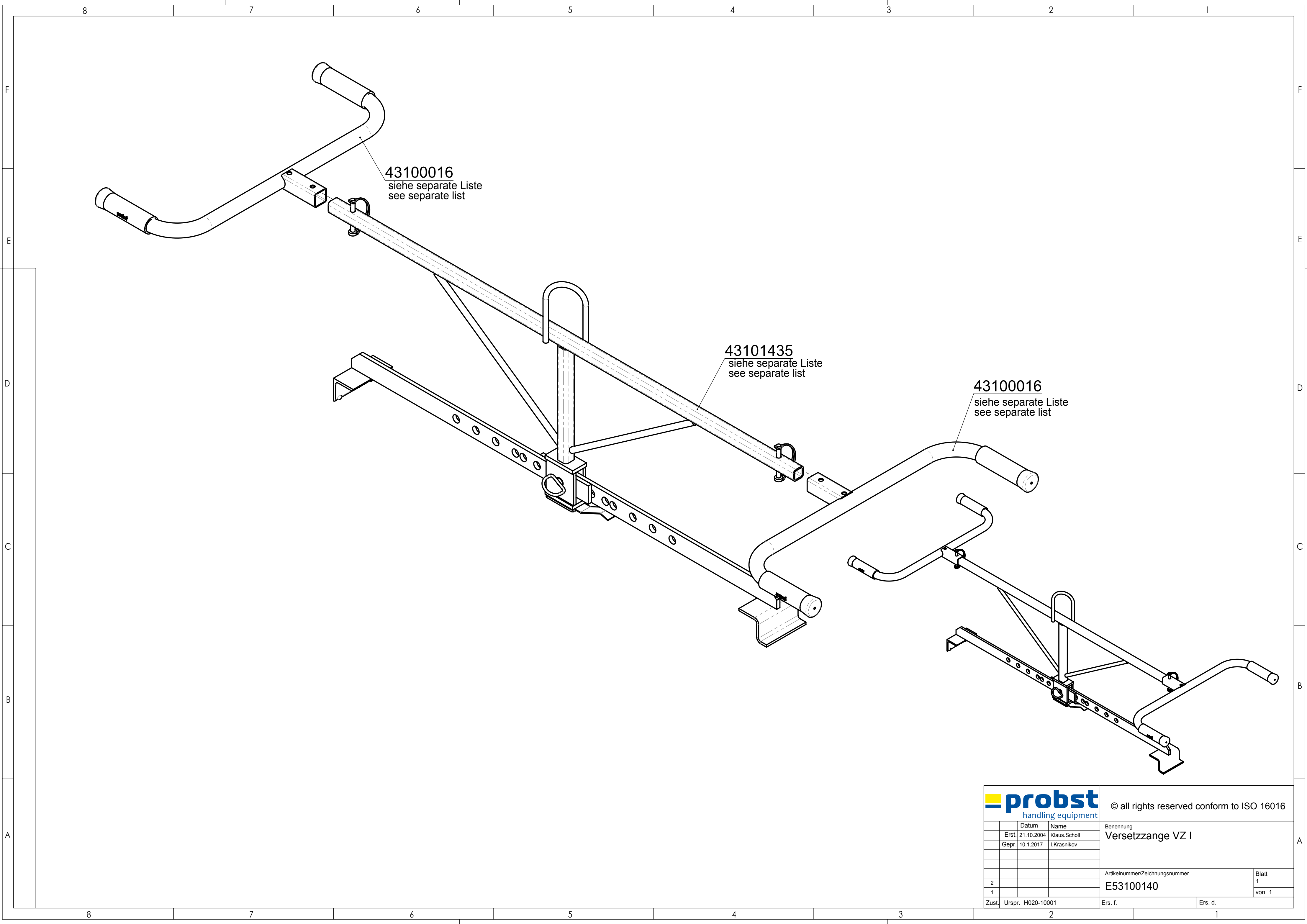
Eigengewicht / Dead Weight:
12 kg / 26 lbs

Product Name:
Laying Clamp VZ I



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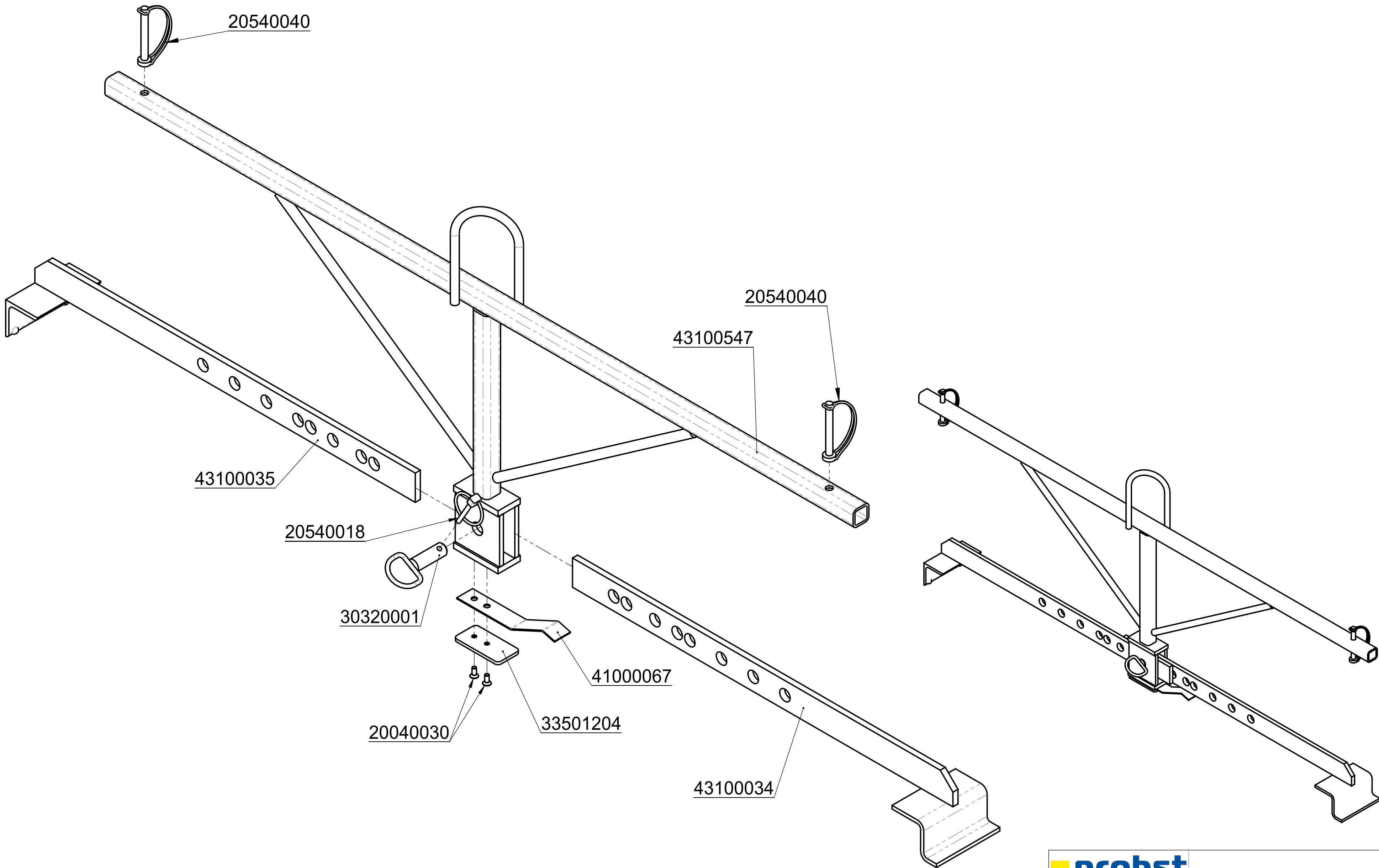
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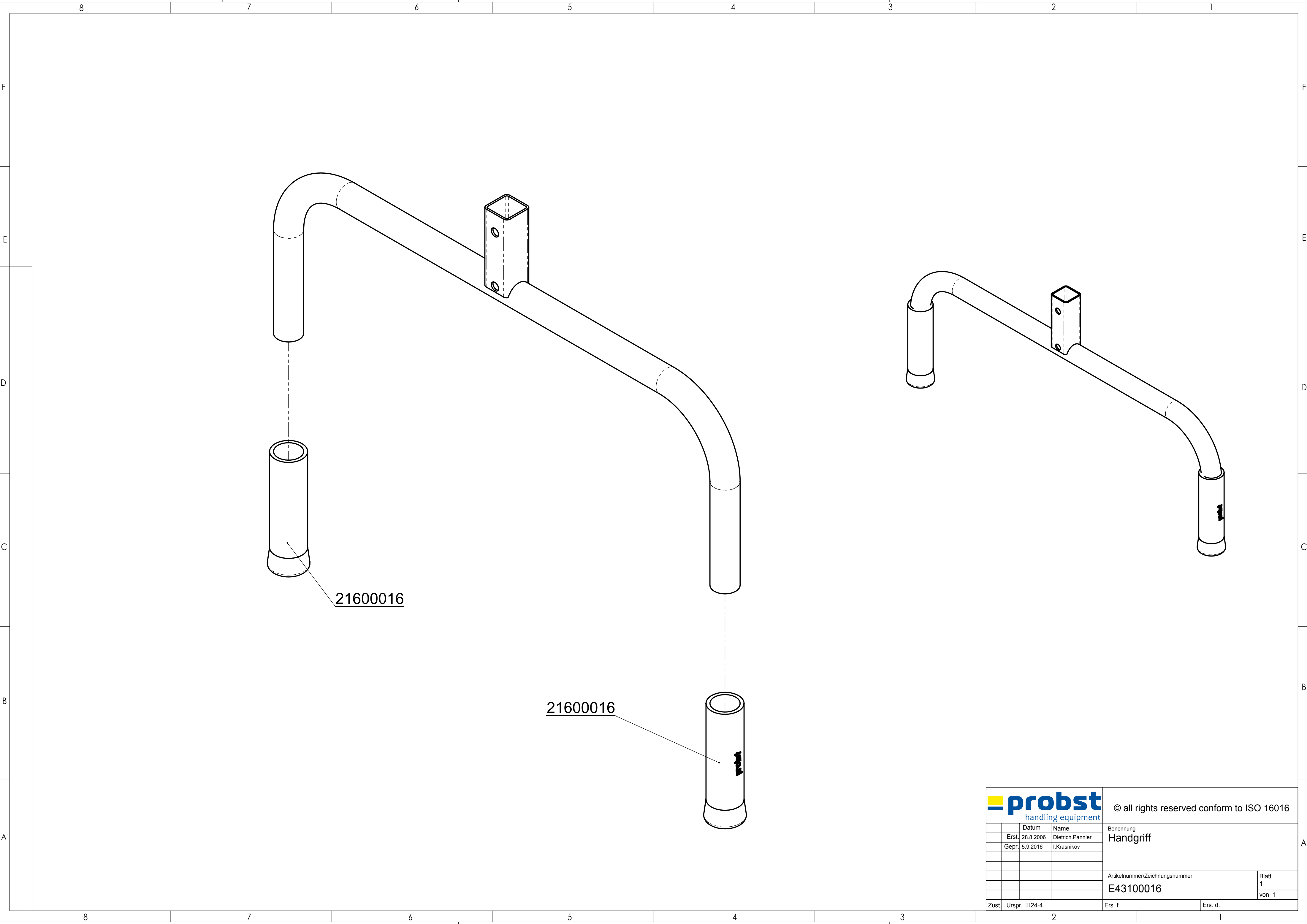
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Zust.	Urspr.	H020-10001	Ers. f.	Ers. d.	



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	Gepr.	5.9.2016	I.Krasnikov		
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