



Adjustable Paver Transport Cart

VTK-V

002

Order-No.:
5110.0004

Serial-No.:

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2 Declaration of Conformity

Konformitätserklärung; Declaration of conformity ; Déclaration de Conformité;
Certificato di conformità norme CE; Declaración de conformidad

DESCRIPTION: Adjustable Paver Transport Cart
VTK-V

Hersteller: **PROBST GREIFTECHNIK VERLEGESYSTEME**

Manufacturer: Gottlieb-Daimlerstraße 6

Fabricant: 71729 Erdmannhausen

Costruttore: Probst Greiftechnik Verlegesysteme GmbH

Fabricante: info@probst-gmbh.de www.probst-gmbh.de

EN ISO 12100-1 (ISO 12100-1)	2003	Sicherheit von Maschinen, Grundbegriffe, allgemeine Gestaltungsleitsätze, Teil 1: Grundsätzliche Terminologie, Methodik. Safety of machinery; Basic concepts, general principles for design, Part 1: Basic terminology, methodology. Sécurité des machines; notions fondamentales, principes généraux de conception, Partie 1: terminologie de base, méthodologie. Sicurezza della macchina, nozioni fondamentali, verifica della struttura generale, Parte 1: terminologia di base, metodologia. Seguridad de la maquinaria; conceptos básicos, principios generales de diseño, parte 1: terminología básica, metodología.
EN ISO 12100-2 (ISO 12100-2)	2003	Sicherheit von Maschinen, Grundbegriffe, allgemeine Gestaltungsleitsätze, Teil 2: Technische Leitsätze und Spezifikationen. Safety of machinery; basic concepts, general principles for design; Part 2: principles and specifications. Sécurité des machines; notions fondamentales, principes généraux de conception; Partie 2: Principes et spécifications techniques. Sicurezza della macchina, nozioni fondamentali, verifica della struttura generale; Parte 2: principi e specificazioni tecniche. Seguridad de la maquinaria; conceptos básicos, principios generales de diseño, parte 2: principios y especificaciones.

DIN EN 294
(ISO 13852) **1992**
 1996

**Sicherheitsabstände gegen das Erreichen von
Gefahrenstellen mit den oberen Gliedmaßen.**

Safety distance against reaching hazard places with the upper extremities.

Distances de sécurité afin de pas atteindre le lieux de danger avec les extrémités du corps supérieurs.

Distanza di sicurezza al fine di evitare pericolo di passaggio sotto carichi sospesi.

Distancia de seguridad con el fin de evitar que las extremidades superiores del cuerpo alcancen las zonas de peligro.

DIN EN 349
(ISO 13854) **1993**
 1996

**Mindestabstände zur Vermeidung des Quetschens von
Körperteilen.**

Minimum distance to avoid squeezing any parts of the body.

Distances minimum afin d'éviter une contusion des parties du corps.

Distanza minima al fine di evitare contusioni di parti del corpo.

Distancia mínima con el fin de evitar contusiones en cualquier parte del cuerpo.

Fundstellen nationaler technischer Normen und Spezifikationen:

Applied national technical standards and specifications in particular:
Lieux de découverte des normes et spécification techniques nationales:
Origine delle norme e specificazioni tecniche:
Aplicados en particular los siguientes estándares:

DIN 8563 T1 + T2	10.78	Sicherung der Güte von Schweißarbeiten. Securing the quality of welding works. Sécurité de la qualité des travaux à souder. Sicurezza di buona tenuta della saldatura. Seguridad de la calidad de la soldadura.
DIN 15428	08.78	Hebezeug Lastaufnahmeeinrichtungen , Technische Lieferbedingungen. Lifting machines, technical delivery terms. Installations pour pendre des charges des appareils de levage, conditions de livraison techniques. Verifica del carico accettato dall' impianto di sollevamento, capitolato tecniche. Elevación de la maquinaria, términos técnicos de entrega.
DIN 31001	04.83	Sicherheitsgerechtes Gestalten technischer Erzeugnisse; Schutzeinrichtungen, Begriffe, Sicherheitsabstände für Erwachsene und Kinder. Safety requirements for the design of technical equipment; protecting devices, definitions, safety distances for adults and children. Formation des produits techniques, installation de protection, notions, distances de sécurité pour des adultes et des enfants, conformes à la sécurité. Conoscenza delle norme di sicurezza da parte dell' utilizzatore, protezioni antinfortunistiche, distanza di sicurezza dei carichi sospesi da adulti e bambini. Requisitos de seguridad para el diseño del equipo técnico; dispositivos de protección, nociones, distancias de seguridad para adultos y niños.

Signature:

Erdmannhausen, 09.01.2007.....

(M. Probst, Managing director)

3 General

4 Authorized use

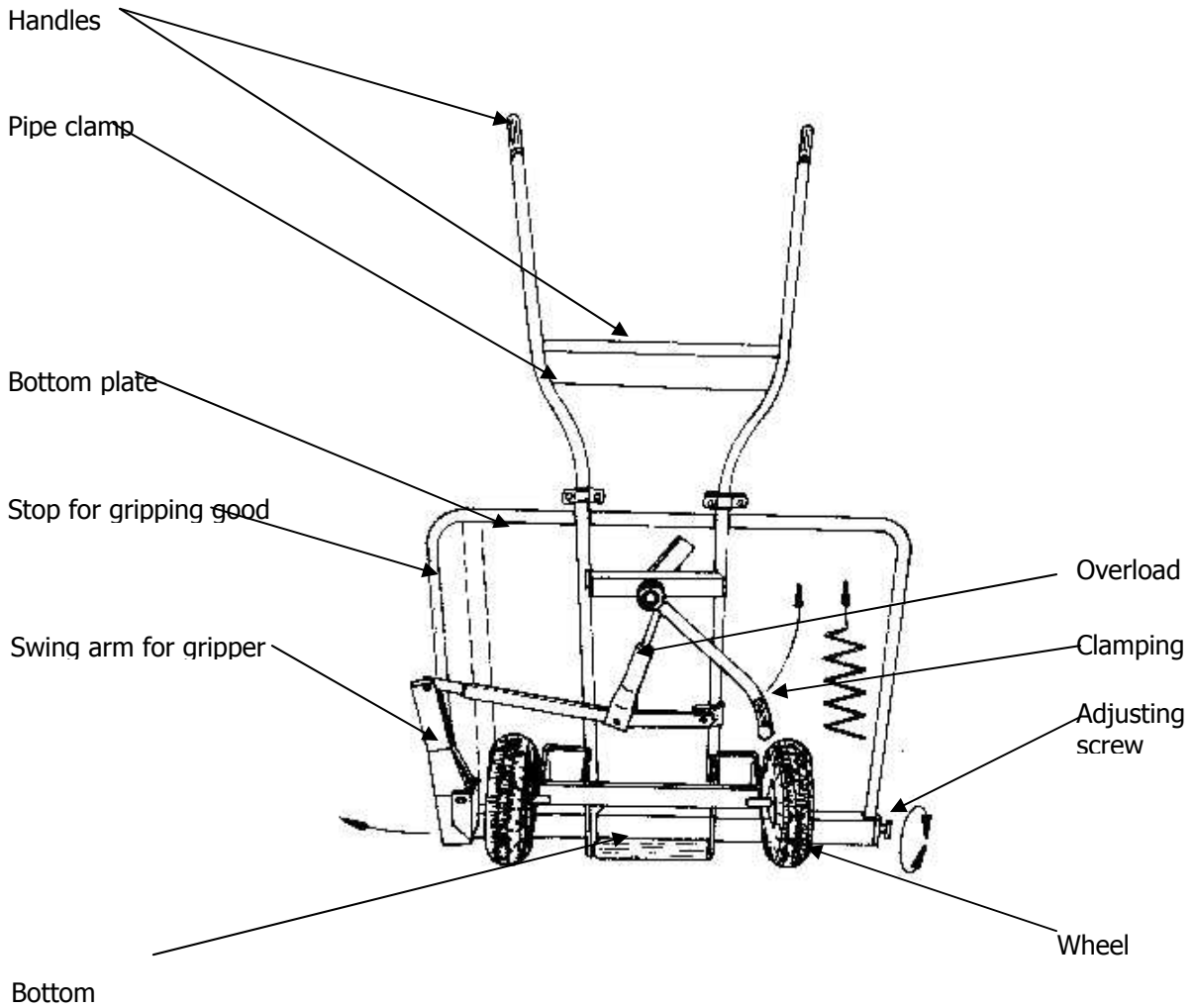
- The VTK-V is specially designed for the transport of steel-banded or detached plasters, kerbstones or plates. The capacity and the nominal width the device are not allowed to cross over (see "Technical Data").
- Only rectangular goods have to be lifted with the VTK-V, conical goods could slip from the grap.



Prohibition

- 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, especially regulations of the declaration of conformity, and additional local health and safety regulations have to be observed.

5 Survey and construction






5.1 Technical data


Type:	Opening width mm (in)	Height mm (in)	Gripper length mm (in)	Carrying capacity mm (in)	Dead weight kg (lbs)
VTK-V	550 – 1.050 (21½-41½")	900 (35½")	200 (8")	400 (880")	68 (150)

6 Safety

6.1 Safety symbols

 Danger	<u>Danger to life!</u> Identifies imminent hazard. If you do not avoid the hazard, death or severe injury will result.
 Attention	<u>Hazardous situation!</u> Identifies a potentially hazardous situation. If you do not avoid the situation, injury or damage to property can result.
 Prohibition	<u>Prohibition!</u> Identifies imminent a prohibition. If you do not avoid the prohibition, death and severe injury, or damage to property will result.

6.2 Safety Marking

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

6.3 Definition skilled worker / specialist

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

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

- for mechanic
- for hydraulics
- for pneumatics

6.4 Personal safety requirements

- Only qualified, authorized certificated personal is allowed to operate the device and all devices which are connected (lifting equipment).



- Each operator must have read and understood the operating instructions.
- The manual guiding is only allowed for machines with handles.



6.5 Protective equipment

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

- Protective clothing
- Safety gloves
- Safety shoes

6.6 Accident prevention



Danger

- The operating range have to be covered for unauthorized persons, especially children.
- The workplace have to be sufficiently illuminated.
- The working with the device in case of atmospheric editions under 37,5° F is forbidden!
Because the goods could be fall down caused by dampness or freezing.



Attention



Danger

- Take care handling wet, dirty and not solidified components.
- Take care in case of thunderstorm!



Prohibition

6.7 Function Control

6.7.1 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 splits at carrying parts of the device, immediately stop using it.
- The operating instructions must be available at the workplace every time.
- Do not remove the data-plates of the machine.
- Unrecognisable data-plates must be replaced.

6.8 Safety procedures

6.8.1 General



- The use of the device is only permitted in proximity to the ground. Do not swing it over peoples heads.



- While using the device is the stay of persons in the working area forbidden. Except it is indispensable. Caused of the way of using the device, e.g. if the device must be leaded by hand.



- The device must never be subjected to a force acting in a lateral direction due to diagonal pulling.

- Do not use the device to jerk seized products.

- Do not lift any components off-centre, because that could fall down.



- While using the device be sure that there are no persons in the working area. ***Danger to Life!***

- 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)!

- 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.



- **The capacity and the nominal width the device are not allowed to cross over.**

- The manual guiding of is only allowed for devices with handles.

- Avoid quick or jerky movements with the device. E.g. caused through driving fast over uneven grounds/site is forbidden. Because the gripping good could fall down.

6.8.2 Unauthorized transportations



All unauthorized transportations with the device are not allowed!

- Transportation of people and animals.
- Transportation of other loads and material than described in this manual.
- Transportation of non rectangular goods, because they could fall down.
- Transportation of material with "feet", "bellies" and "blind spacers".

6.8.3 Unauthorized alterations



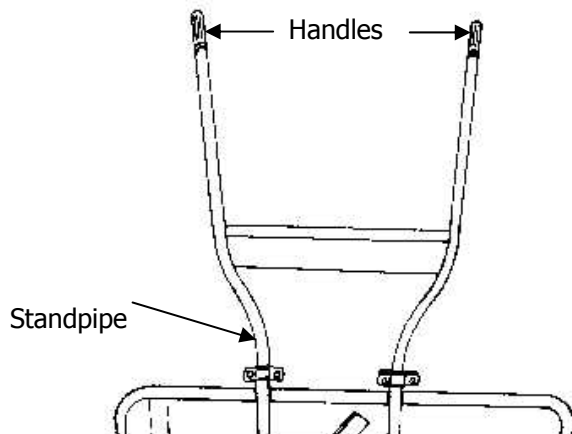
All unauthorized alterations of the device and the use of any self-made additional equipment could cause danger and are therefore forbidden!!

7 Installation

7.1 Assembly of the VTK-V

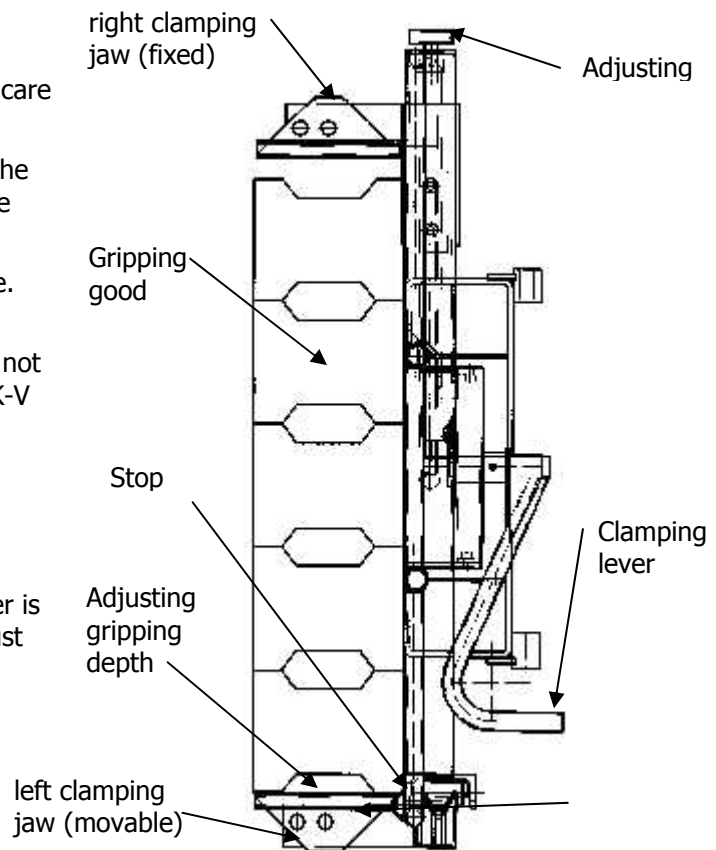
The VTK-V is prefabricated, only the handles have to be assembled as follows:

- Put the red handles onto the standpipe and fix it with the pipe clamp.



7.2 Adjusting the VTK-V

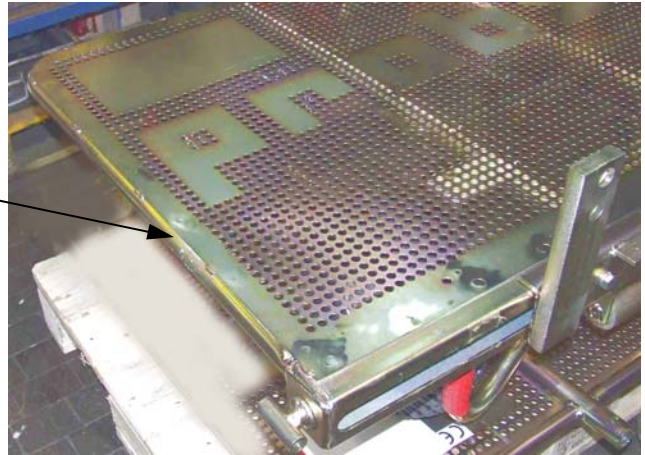
- Turn the clamping lever left (as shown)
→ left clamping jaw is in opened position
- Drive the VTK-V to the gripping good. Take care that the gripping good touches the stop.
- Turn the adjusting screw in clockwise until the right clamping jaw is in light contact with the gripping good.
- Turn the clamping lever about 90° clockwise.
- Be sur that the maximum power of 15kg is not exceeded, otherwise deformation of the VTK-V could occur
- → left gripping jaw touches the good and clamps.
- If the operating power for the clamping lever is to big or the gripping good is not fixed, adjust the VTK-V again.



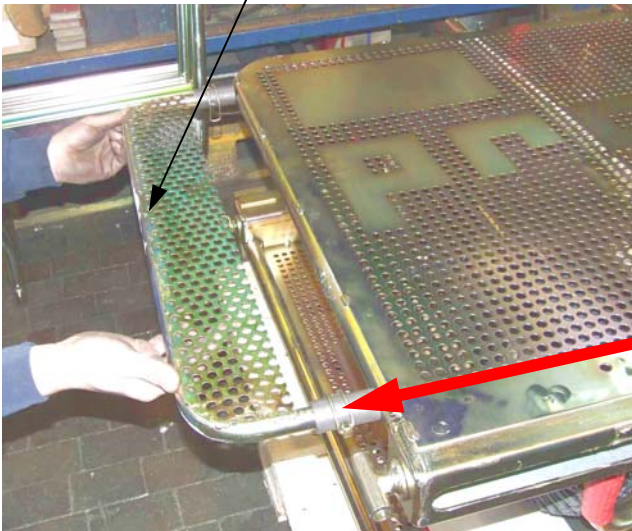
7.3 Assembly wider load support

With larger spans an additional „wider load support“ (4110.0031) can be welded to the device (VTK-V).

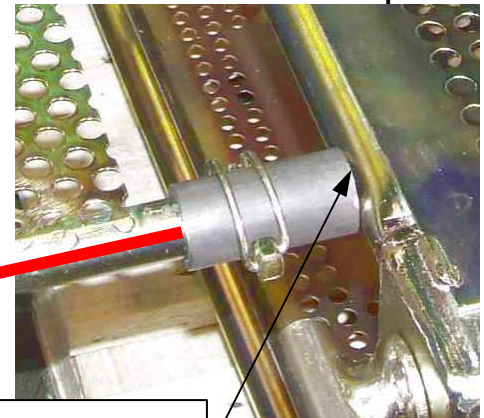
VTK-V without wider load support



VTK-V with wider load support



Detailpicture

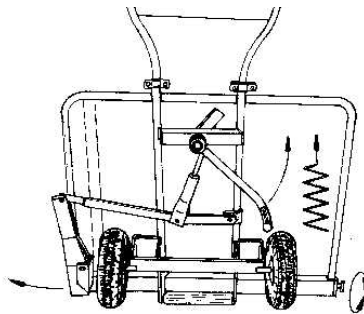


Welding position

8 Operating

8.1 Gripping good on solid ground

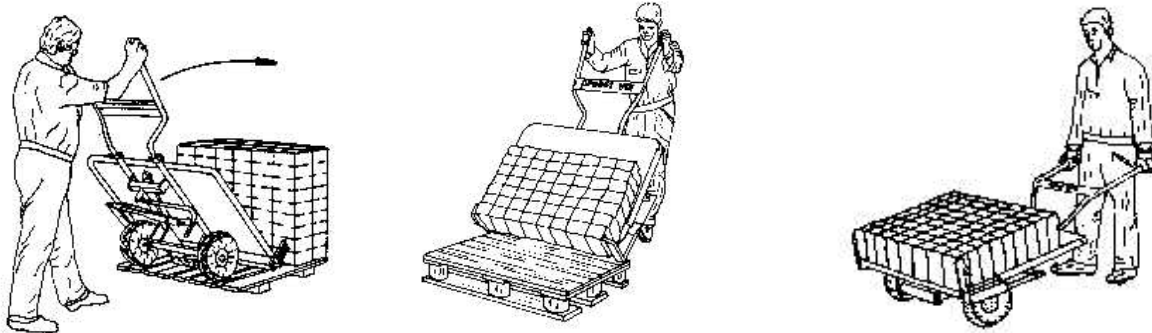
- Assemble the VTK-V.
- Adjust the VTK-V.
- Carefully drive the VTK-V to the gripping good.
- Bring the bottom plate and the stop in position (VTK-V in vertical position)
- Turn the clamping lever 90° clockwise to clamp the gripping good.



- Bring the VTK-V in horizontal position using the red handles and move the VTK-V carefully to the destination place.
- Bring the VTK-V in vertical position again and turn the clamping lever 90° counter clockwise.
- Now you can move the VTK-V without the gripping good.

8.2 Gripping good on a lift slab

- Drive the VTK-V on the lift slab using the bottom roller.
- Carefully drive the VTK-V to the gripping good.
- Bring the bottom plate and the stop in position (VTK-V in vertical position)
- Turn the clamping lever 90° clockwise to clamp the gripping good.



- Incline the VTK-V in direction of your body and pull it on the bottom roller to the end of the slab lift.
- Incline the VTK-V as far as the wheels touch the ground.
- Bring the VTK-V in horizontal position using the red handles and move the VTK-V carefully to the destination place.
- Bring the VTK-V in vertical position again and turn the clamping lever 90° counter clockwise.
- Now you can move the VTK-V without the gripping good.

9 Maintenance and care

9.1 Maintenance

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



Take care that for all maintenance services the device is completely shut down!!

MECHANICAL

Service interval

First inspection after
25 operating hours

After 50 operating hours

Minimum 1x per year
(at rough conditions
shorten the interval)

Maintenance work

- Control and tighten all screws and connection. (The implementation is only allowed by an expert).
- Tighten all screws and connection (Take care that the tightening torques according to the property class of the screws are observed).
- 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.
- Check of all the suspension parts, bolts and straps. Check for corrosion and safety by an expert.

9.2 Removing errors

ERROR	CAUSE	REPAIR
The clamping-power is not big enough, the load is slipping out		
(optional)	<ul style="list-style-type: none"> • The grippers are worn 	<ul style="list-style-type: none"> • Replace the grippers
(optional)	<ul style="list-style-type: none"> • The maximum load is exceed 	<ul style="list-style-type: none"> • Reduce the weight of. the load
(Adjustment of the opening width) (optional)	<ul style="list-style-type: none"> • The actual opening width is not correct 	<ul style="list-style-type: none"> • Adjust the opening width according to the load you want to transport
(Property of material)	<ul style="list-style-type: none"> • The surface of the material is dirty or the material is not suitable / allowed for this device. 	<ul style="list-style-type: none"> • Check the surface of the material or ask the manufacturer, if you the material is allowed for this device.

9.3 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.



For all repairs the device must be completely shut down!

9.4 Safety procedures

- It is the contractors responsibility to ensure that the device is checked by an expert in periods of max. 1 year and all recognized errors are removed (→ BGR 500).
- The corresponding 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)
- You can receive these badges from us.

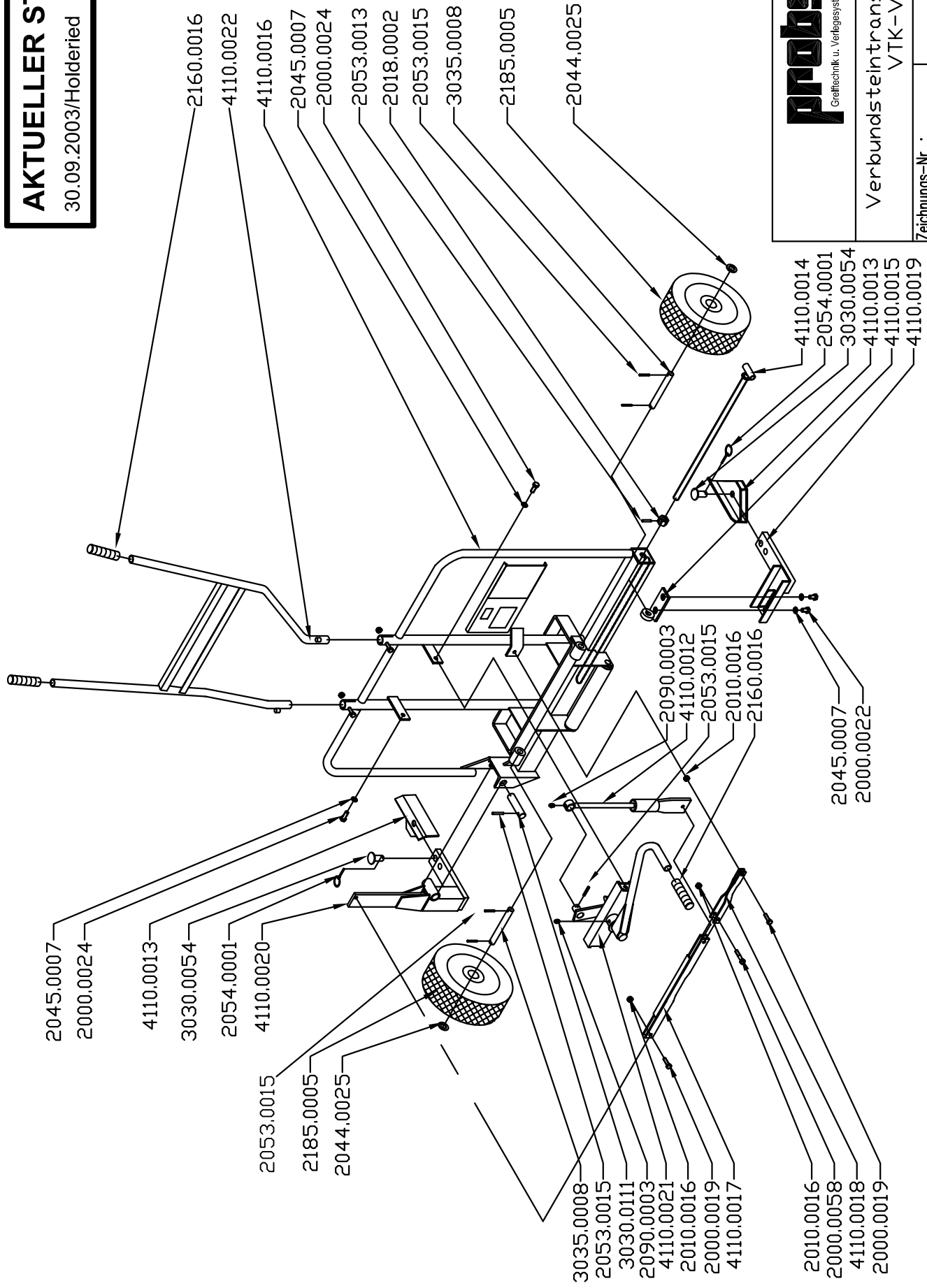


The check by an expert must be proved!

Device	Year	Date	Expert	Company
	2007			
	2008			
	2009			
	2010			
	2011			
	2012			
	2013			
	2014			
	2015			
	2016			

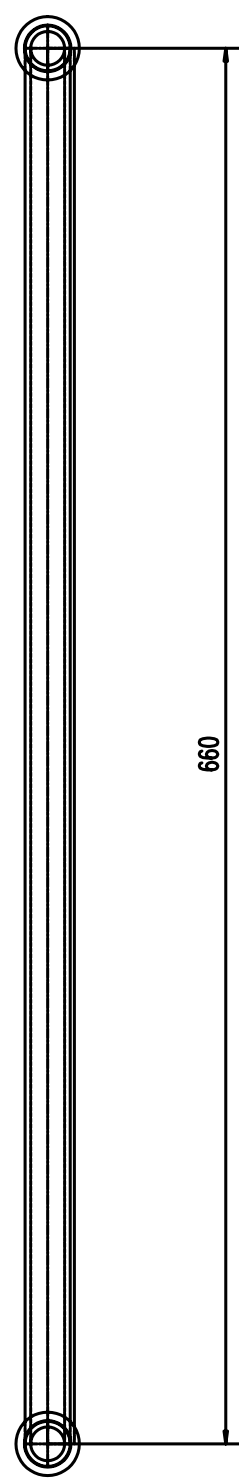
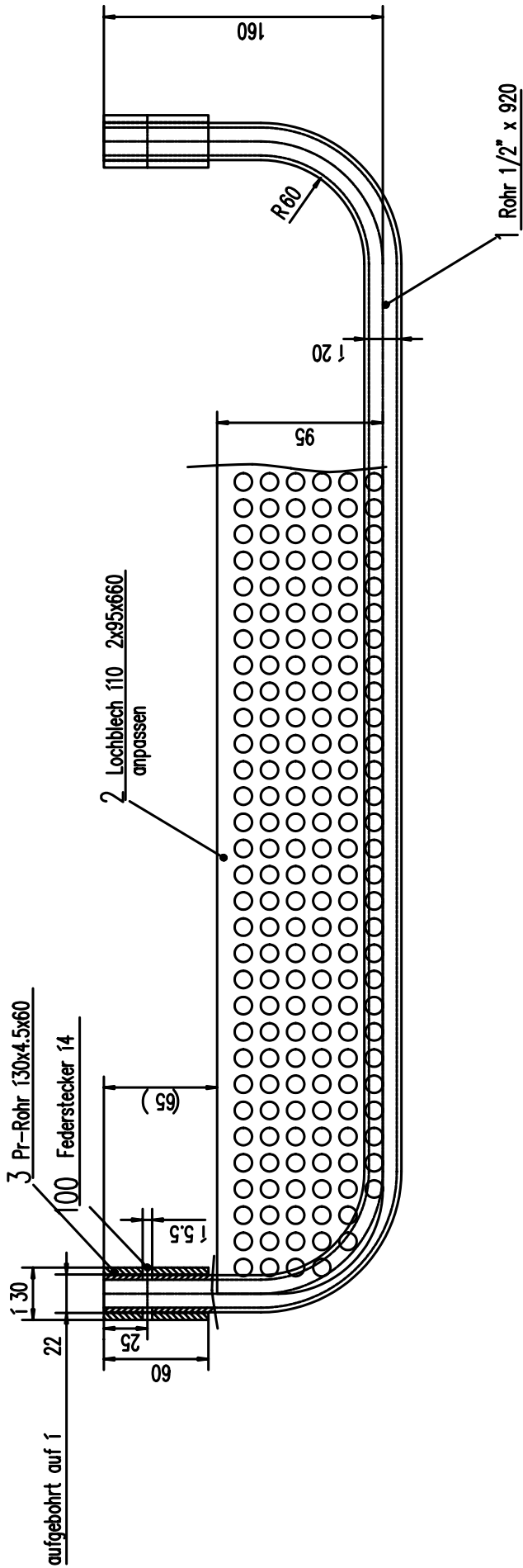
AKTUELLER STAND

30.09.2003/Holderied



Verbundsteintransportkarren
VTK-V

Zeichnungs-Nr. :	Blatt
5110.0004-001-b	04.2003



WA:		Bei Änderungen Rücksprache TB!	
(P) probst Greiftechnik u. Verlegesysteme		Bearbeitung	Maßstab 1 : 2,5 (Gewicht)
		IM 130 132	
		Diese Zeichnung bleibt unser Eigentum. Sie darf weder teilweise noch vollständig ververvielfältigt, verbreitet und zu Zwecken des Wettbewerbs unterlegt, verwendet, oder an andere abgegeben werden.	
		Maße ohne Toleranzangaben nach DIN 7160h	
		Datum	Name
		Bearb.	Ho
		Bearb.	Go/No
		Bearb.	Go
		Bearb.	Go
		Teile Nummer: 410.0031 Zeichn.-Nr. : EDV-Nr. : Blatt	
b	Pos.1, 1/2"/Pos.3, 22	21.08.00	Go
a	neue Art.-Nr.zug.	27.04.00	Grüpfähg
Zust. Zeichnung	Datum	Name	
		Auflegerweiterung f?r VTK	
		J052-30018	
		J0520018	
		Ersatz fr:	
		Ersatz durch:	

