



Operating Instructions

Translation of original operating instructions

Telescopic Screeding Bucket

TAK



Bitte beachten Sie, dass das Produkt ohne vorliegende Betriebsanleitung in Landessprache nicht eingesetzt / in Betrieb gesetzt werden darf. Sollten Sie mit der Lieferung des Produkts keine Betriebsanleitung in Ihrer Landessprache erhalten haben, kontaktieren Sie uns bitte. In Länder der EU / EFTA senden wir Ihnen diese kostenlos nach. Für Länder außerhalb der EU / EFTA erstellen wir Ihnen gerne ein Angebot für eine Betriebsanleitung in Landessprache, falls die Übersetzung nicht durch den Händler/Importeur organisiert werden kann.

Please note that the product may not be used / put into operation without these operating instructions in the national language. If you did not receive operating instructions in your national language with the delivery of the product, please contact us. In countries of the EU / EFTA we will send them to you free of charge. For countries outside the EU / EFTA, we will be pleased to provide you with an offer for an operating manual in the national language if the translation cannot be organised by the dealer/importer.

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1 Safety

1.1 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.



Important informations or useful tips for use.

1.2 Safety Marking

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:
	Each operator must have read and understood the operating instructions (and all safety instructions).	2904.0665	30 mm
		2904.0666	50 mm

INFORMATION SIGN

Symbol	Meaning	Order-No.:	Size:
	Scale to adjust a slope of $\pm 3\%$ for screeding of roof or pan profiles.	2904.0364	50x50 mm

1.3 Definition skilled worker / specialist

Only skilled workers or specialists are 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

1.4 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 device/carrier).



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

1.5 Protective equipment

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

- Protective clothing
- Safety gloves
- Safety shoes

1.6 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.

1.7 Function Control

1.7.1 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 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 General

2.1 Authorized use

The device **TAK 350** and **TAK 750** is universally suitable for precise preparation of laying courses on both, large and small building sites.

TAK-DP is suitable for screeding of roof or pan profiles ($\pm 3\%$).

For the machine use (wheel loader) two pulling chains must be used to pull the device.

These device is available in the followings versions:

- TAK 750 (5100.0013) → working width between 1200 mm and 7000 mm.
- TAK 350 (5100.0018) → working width between 1750 mm and 3500 mm.
- TAK-DP (4100.0042) → Adjustable intermediate part for roof or pan profiles ($\pm 3\%$), length 1500 mm

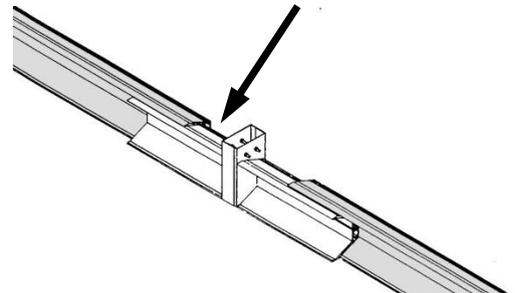
The device consisting of the following components:

- Separate telescopic aluminium screeding profiles and universal height adjustable roller units (on either side).
- 2 handling systems for operating (for transport and displace the TAK) with wheel loader (loading shovel).
- 2 side parts consisting of: height adjustable roller units, wiper and baffle plate with fixing of each segment.
- 1 pair pulling chains including fixing elements for wheel loader etc.

2.1.1 Accessoire TAK-DP

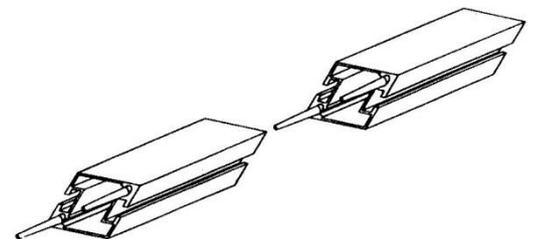
TAK-DP (👉) for screeding of roof or pan profiles ($\pm 3\%$).

Order-Nr.: 4100.0042



2.1.2 Accessoire screeding rails AZL

Screeding rails (AZL) as support elements for the roller unit at the TAK (right hand and left hand of the facing bedding sand). Screeding rails (ASZ) are universal prolongable.





- 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.



NOT ALLOWED ACTIVITIES:

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

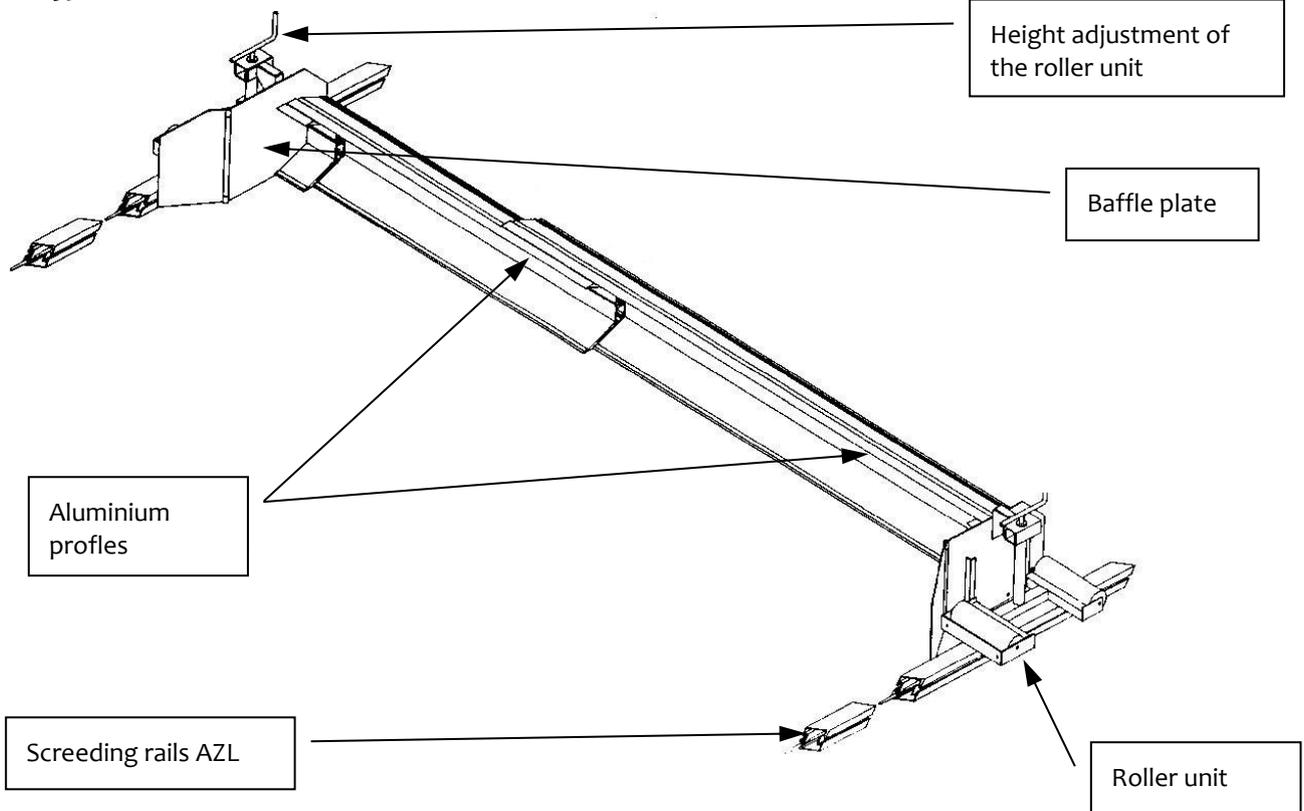
Never exceed the **carrying capacity** and the **nominal width/nominal size** of the device.

All unauthorized transportations with the device are not allowed:

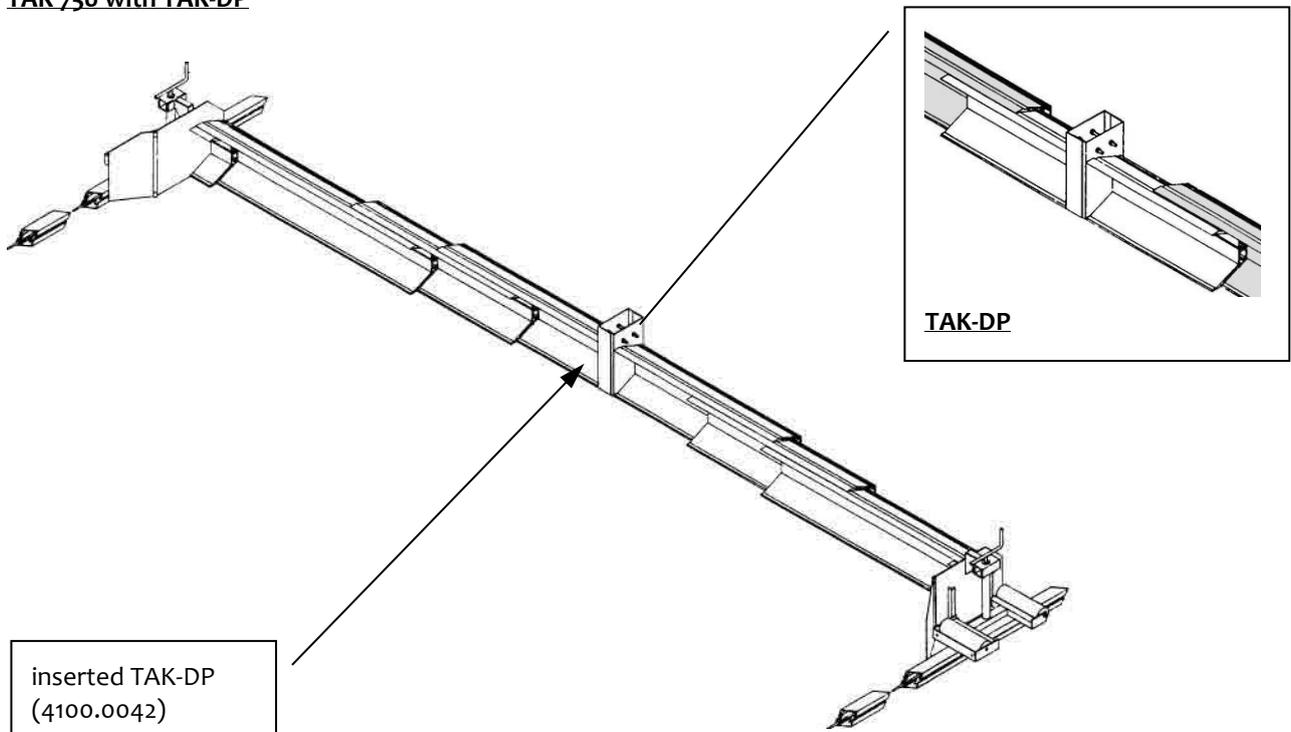
- Transportation of people and animals.
- Transportation of other loads and materials than described in this manual.
- Never suspend any goods with ropes, chains or similar at the device.

2.2 Survey and construction

TAK 350



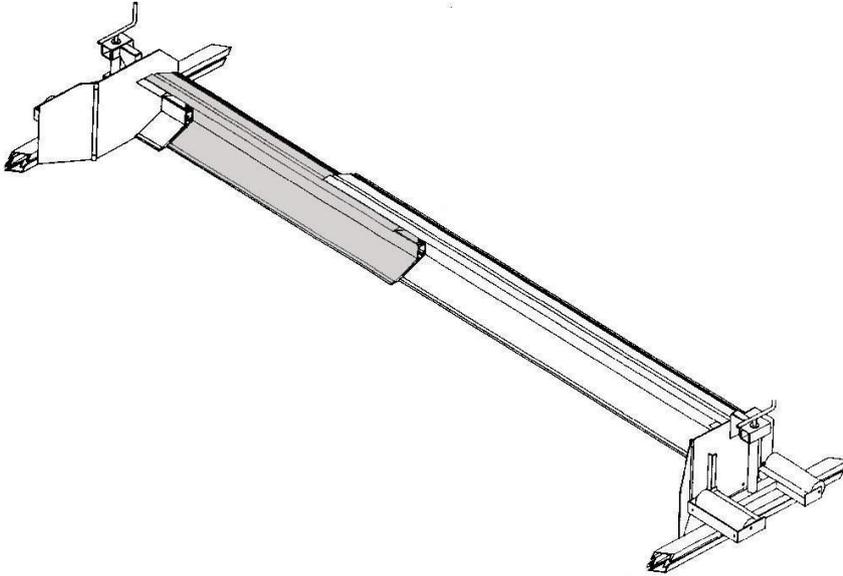
TAK 750 with TAK-DP



3 Installation

3.1 Assembly variants

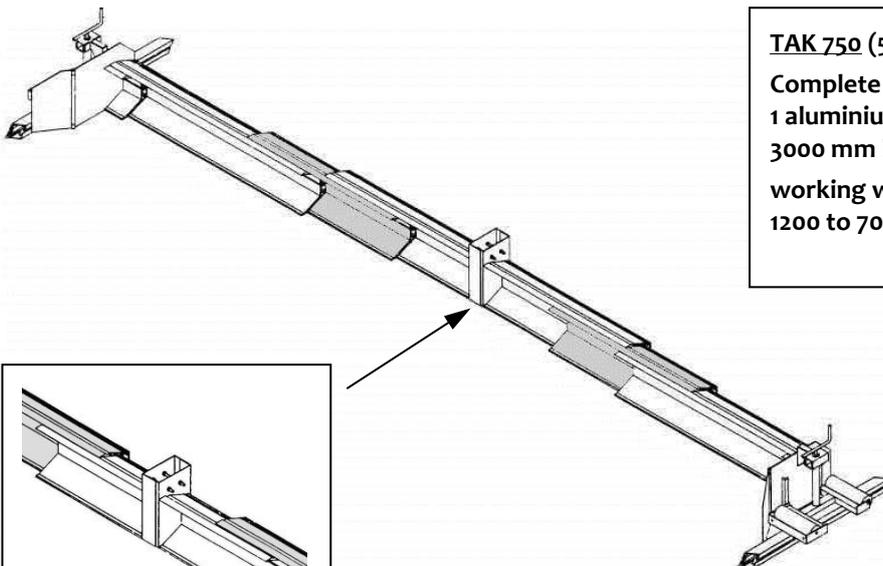
3.1.1 TAK 350



TAK 350 (5100.0018)

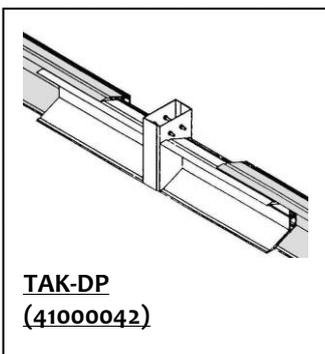
2 aluminium profiles each 1700 mm
working width (stepless) between
1750 to. 3500 mm

3.1.2 TAK 750 with TAK-DP



TAK 750 (5100.0013)

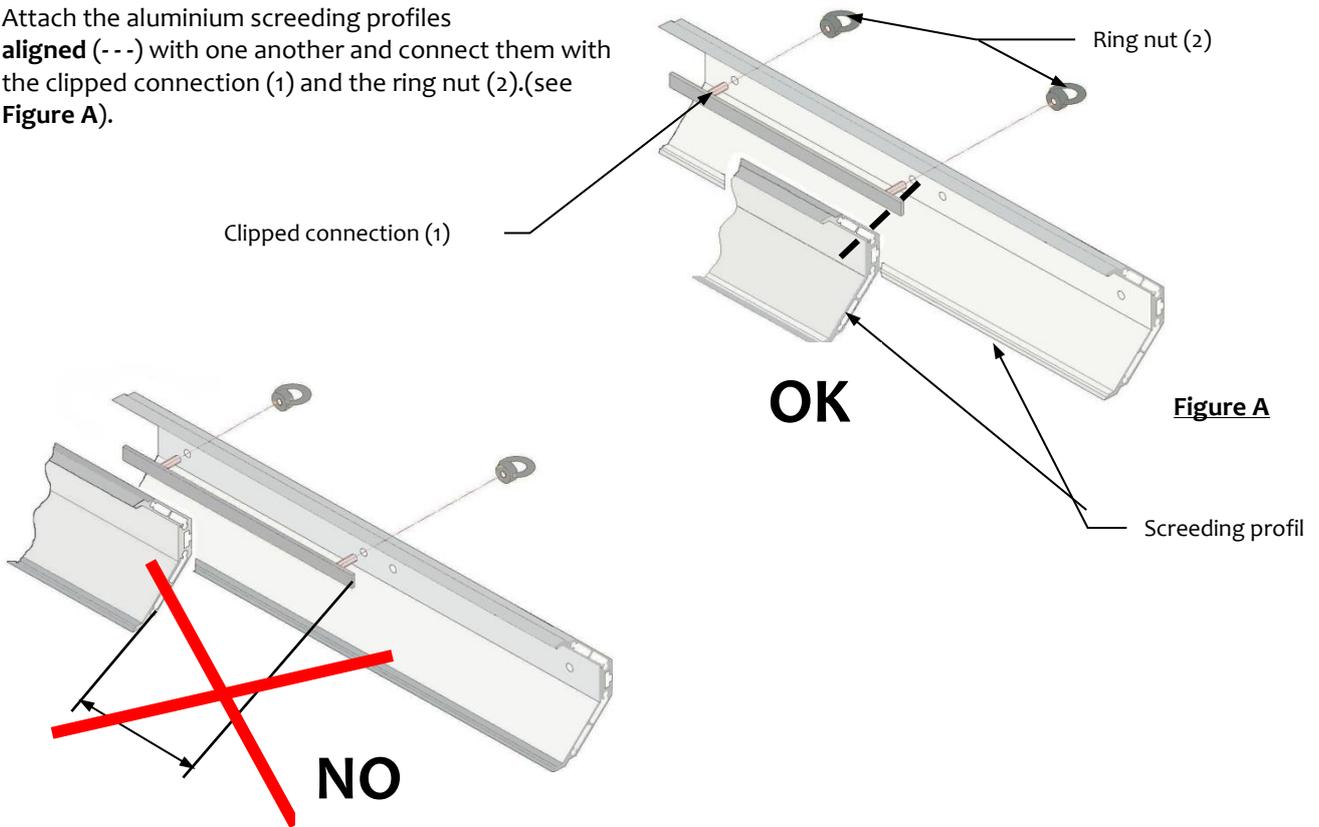
Complete equipment consisting of:
1 aluminium profiles each 1100, 1700, 2700,
3000 mm long.
working width (stepless) between
1200 to 7000 mm



TAK-DP (41000042)

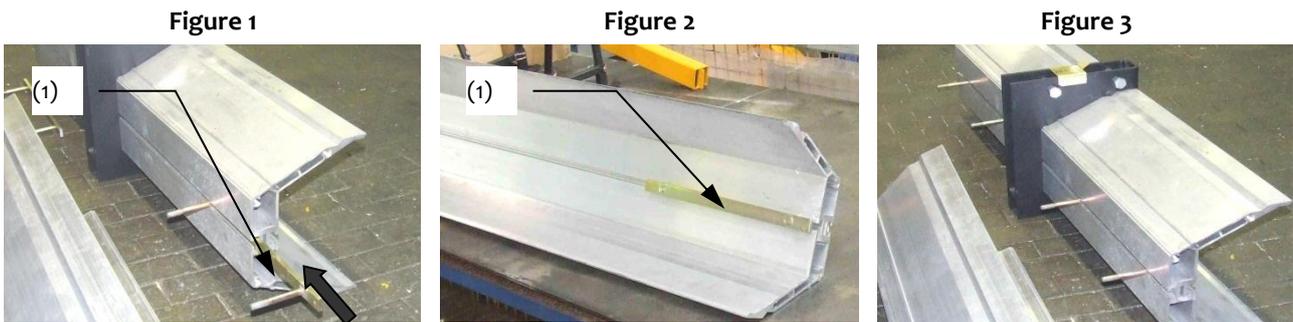
3.1.3 Assembly of the single Aluminium profiles

Attach the aluminium screeding profiles **aligned** (---) with one another and connect them with the clipped connection (1) and the ring nut (2). (see **Figure A**).



Insert the clipped connection (1) in the respective aluminium profiles (→ **Figure 1**)

Position the clipped connection (1) aligned at the end of the aluminium profiles (→ **Figure 2, Figure 3 and Figure A**)



Assembly with TAK-DP

Position aluminium profile (3) at the opposing aluminium profile (here: TAK-DP (4)) (→Figure 4)
Telescope aluminium profile (3) and TAK-DP (4) (→Figure 5 and Figure 6).

Figure 4

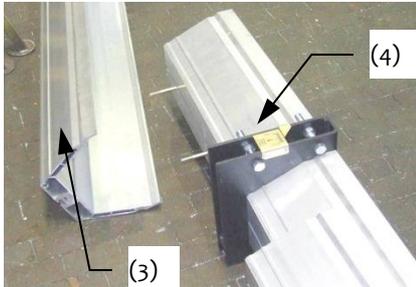


Figure 5

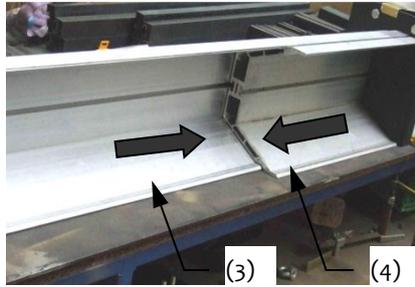
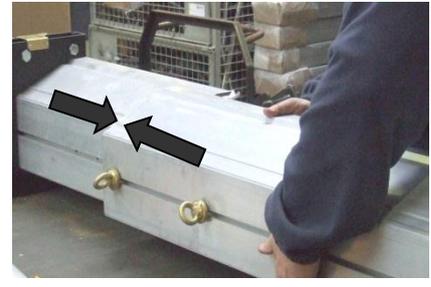


Figure 6



The measure of **500 mm (19.6")** of the minimum overlapping of the aluminium profiles (to each other) is not allowed to under-run!!! → see Figure B
Otherwise the aluminium profiles becoming unstable and could be bent.

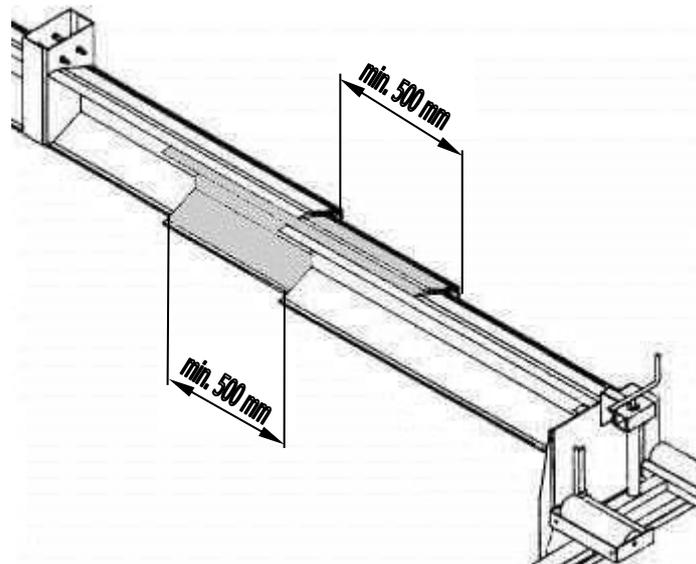


Figure B

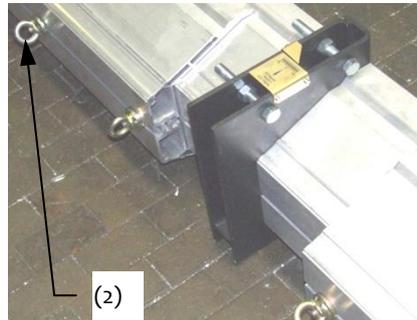
Assemble the aluminium profiles tight with the clipped connection (1) and the ring nuts (2) (→**Figure 7** and **Figure 8**)

HINT: Retighten the ring nuts (2) with a iron bar or similar.

Figure 7



Figure 8



Telescope aluminium profile (3) and TAK-side part (5) (→**Figure 9** and **Figure 10**).

Assemble aluminium profile (3) and TAK-side part (5) tight with the clipped connection and the ring nuts (2) (→**Figure 11**).

Figure 9

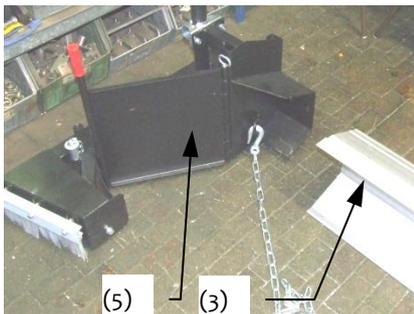


Figure 10

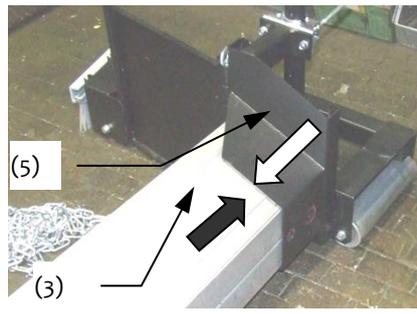
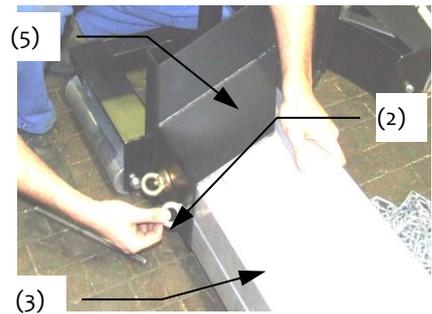


Figure 11



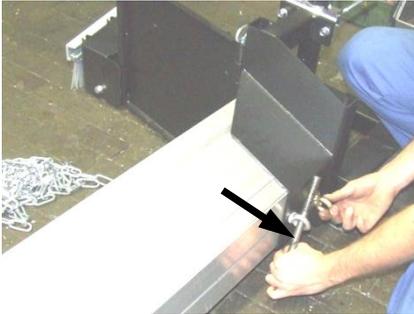
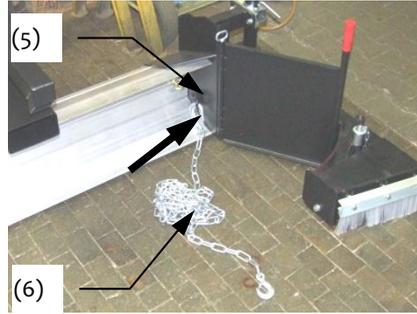
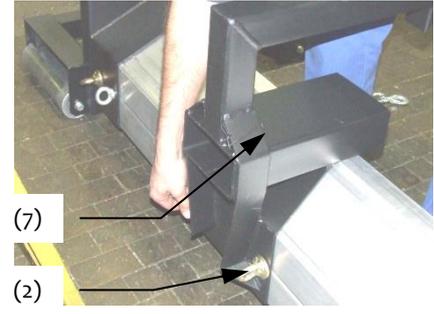
HINT: Retighten the ring nuts (2) with an iron bar or similar. (see ) (→ **Figure 12**).

Fix pulling chains including fixing accessories (6) at the suspension lug (left and right hand) at the TAK-side part (5) (see ) . → **Figure 13**

Position both handling systems (7) (for operating with wheel loader shovel) in the same distance at the left and right hand of the TAK-side parts (5) → **Figure 14**.

The distance of the both handling systems (7) must be adjusted to the breadth of the wheel loader loading shovel (for transport and displace the TAK with loading shovel).

Secure the handling systems (7) with clipped connection and the ring nuts (2) → **Figure 14**.

Figure 12**Figure 13****Figure 14**

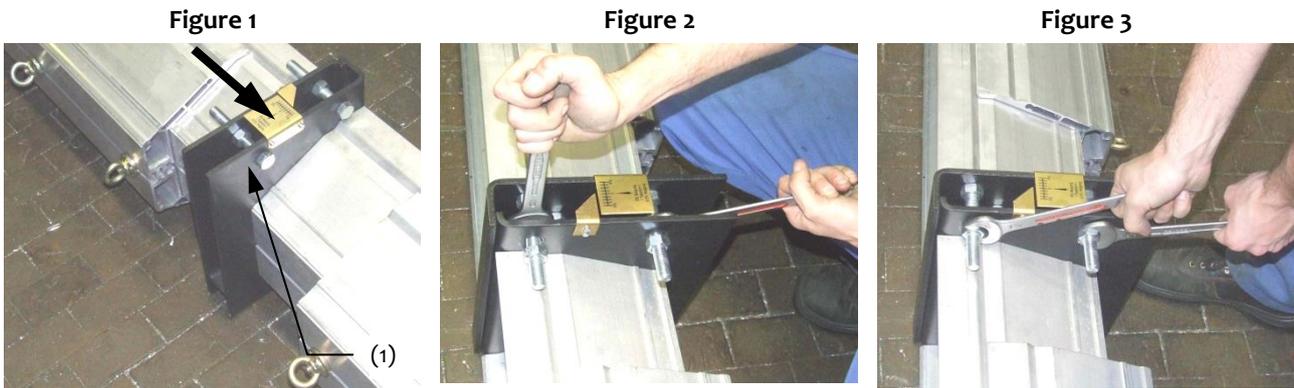
4 Adjustments

4.1 Adjustment of TAK-DP (roof and pan profiles)

The adjustable middle part TAK-DP (1) is suitable to prepare any roof or pan profiles ($\pm 3\%$) (see )
→ **Figure 1**.

Screw the nuts on the outer side at the TAK-DP $\hat{=}$ slope (%) for roof profile → **Figure 2** (see also **Figure A** on following page)

Screw the nuts on the inner side at the TAK-DP $\hat{=}$ slope (%) for pan profile → **Figure 3** (see also **Figure B** on following page)



4.1.1 Adjustment roof profile

Loosen both nuts (2) on the outer side at the TAK-DP. → **Figure 1**

Adjust the slope (e.g. 1%) with the both nuts (3) on the inner side at the TAK-DP. → **Figure 2**

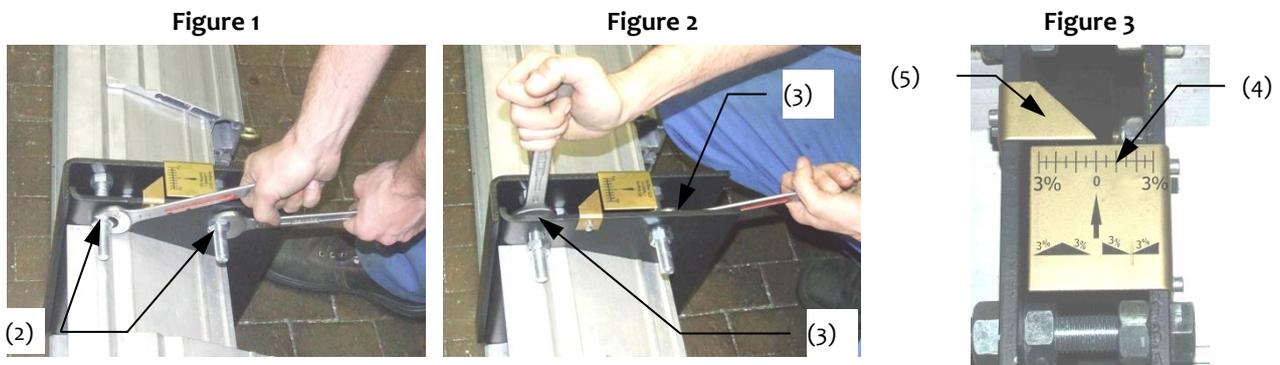
Slope (e.g. 1%) is viewable and adjustable on the scale (4) and indicator (5). → **Figure 3**

1 scale line on the scale (4) $\hat{=}$ 0,5 % slope. → **Figure 3**



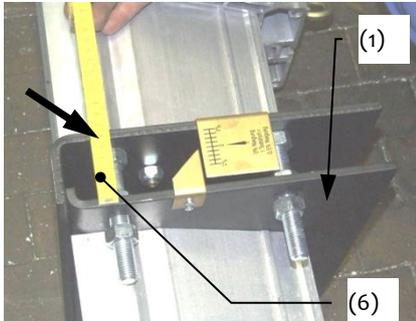
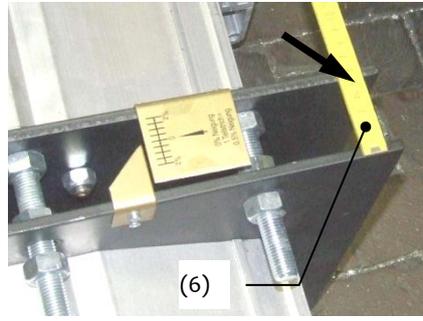
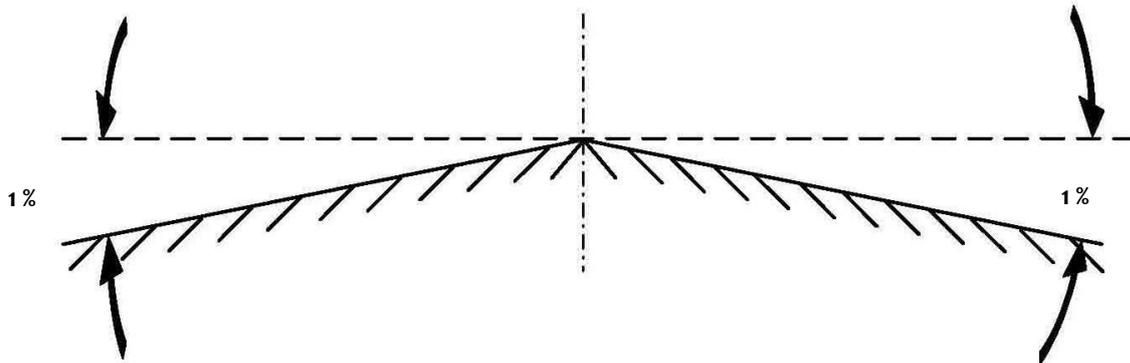
Attention

The indicated slope (%) on the scale is only for orientation.
The actually slope (%) must be measured again unconditional on the facing bedding sand!
See Figure A und A1 on the following pages.

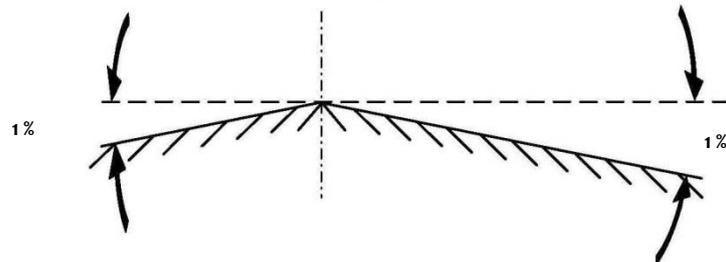


Measure the outer dimension at the TAK-DP (1) with a qualified measuring tool (6) e.g. yard stick (or slide gauge). These measure must be equal at the front side and back side (see ↘). → **Figure 4** and **Figure 5**.

Tighten both nuts again (tight) on the outer side at the TAK-DP. → **Figure 6**

Figure 4**Figure 5****Figure 6****Figure A (roof profile)**

Also a roof profile with different lengths of aluminium profiles is preparable.
→ see **Figure A1**

Figure A1

4.1.2 Adjustment pan profile

Loosen both nuts (2) on the inner side at the TAK-DP. → **Figure 7**

Adjust the slope (e.g. 1%) with the both nuts (3) on the outer side at the TAK-DP. → **Figure 8**

Slope (e.g. 1%) is viewable and adjustable on the scale (4) and indicator (5). → **Figure 9**

1 scale line on the scale (4) \triangleq 0,5 % slope. → **Figure 9**



The indicated slope (%) on the scale is only for orientation.

The actually slope (%) must be measured again unconditional on the facing bedding sand!

See Figure B und B1 on the following pages.

Figure 7

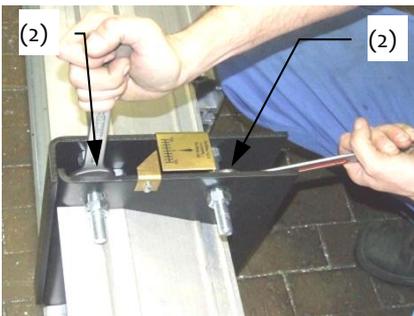


Figure 8

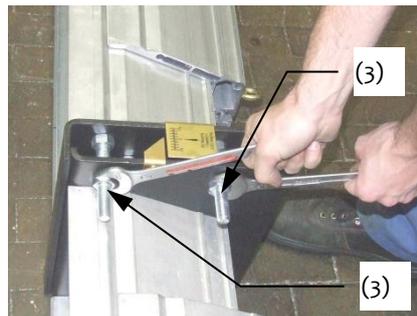
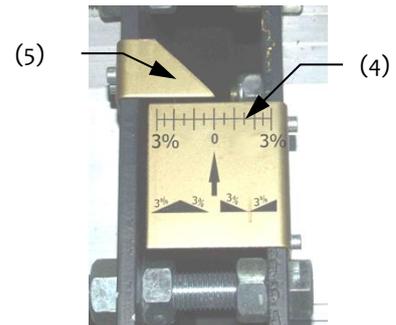


Figure 9



Measure the outer dimension at the TAK-DP (1) with a qualified measuring tool (6) e.g. yard stick (or slide gauge). These measure must be equal at the front side and back side (see ).

→ **Figure 10** and **Figure 11**.

Tighten both nuts again (tight) on the inner side at the TAK-DP. → **Figure 12**

Figure 10

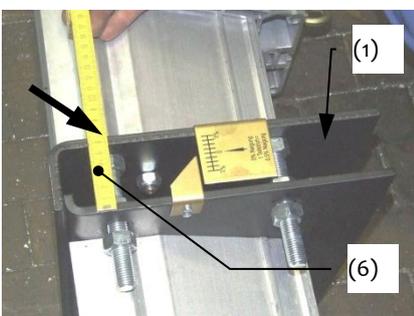


Figure 11

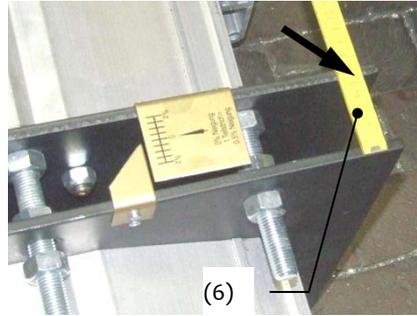
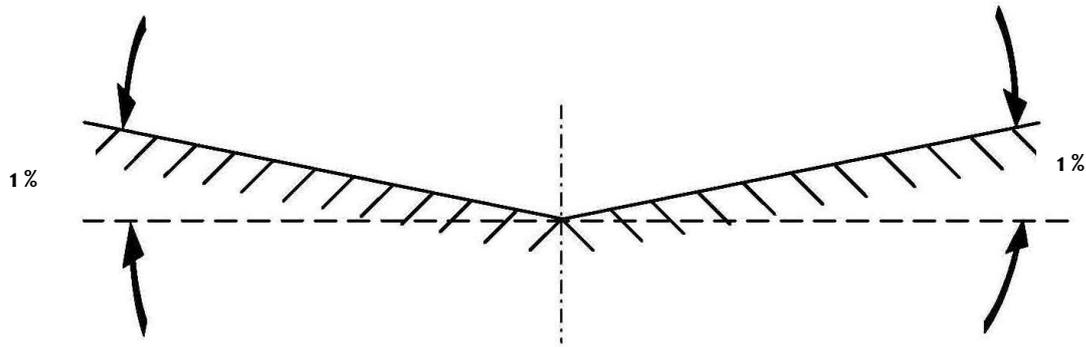


Figure 12

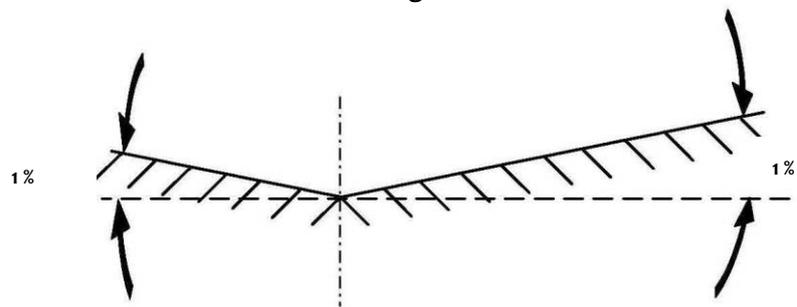


Figure B (pan profile)



Also a pan profile with different lengths of aluminium profiles is preparable.
→ see **Figure B1**

Figure B1



5 Operation

5.1 General

Using the device (TAK) with a wheel loader, use the 2 provided pulling chains and the 2 handling systems:

Attach both pulling chains (1) at the TAK – fix hooks and pulling chains (1) at the suspension lug of the TAK-side parts (A) (see ↘) → **Figure 1 und Figure 2**

Figure 1

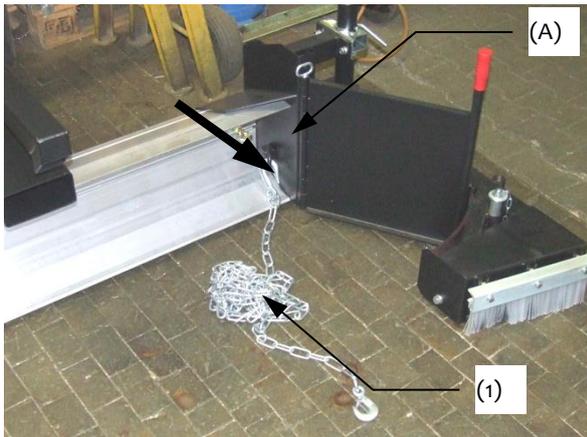


Figure 2



Fix the 2 pulling chains (1) safety at the wheel loader loading shovel (see ↘) → **Figure 3**

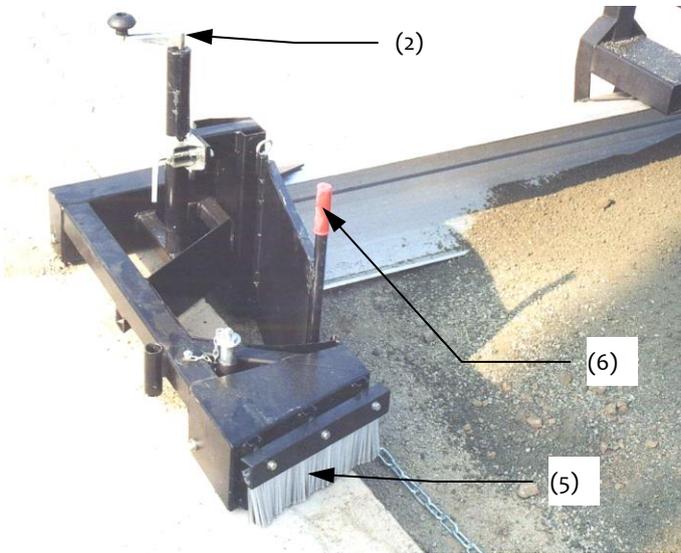
Figure 3



Adjust the height of the roller unit (4) at the hand crank (2). Release the clamping lever (3).
 Adjust the height of the roller unit (4) with the hand crank (2). Tighten clamping lever (3) again.
 → **Figure 4** und **Figure 6**

Adjust wiper (5) if necessary for automatically sweeping of sand. Loosen all 3 screws at wiper (5), adjust the required height and tighten all 3 screws at the wiper (5) again. (see ↓↓↓) → **Figure 5**

Figure 4



- (2) = Hand crank for height adjustment
- (3) = Clamping lever on (2)
- (4) = Roller unit
- (5) = Wiper (automatically sweeping)
- (6) = Hand crank

Figure 5

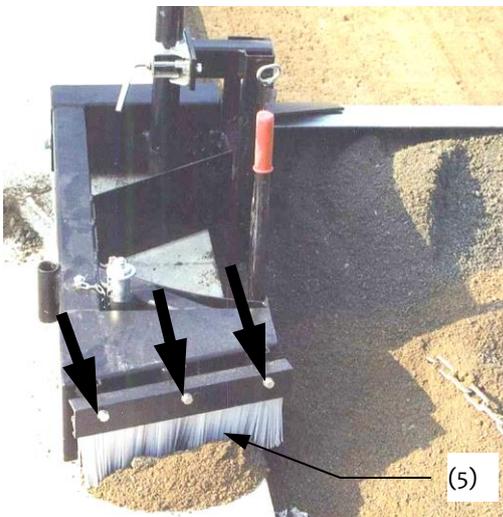
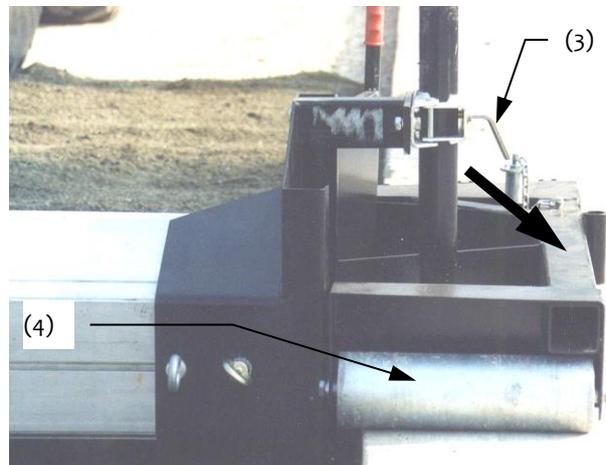


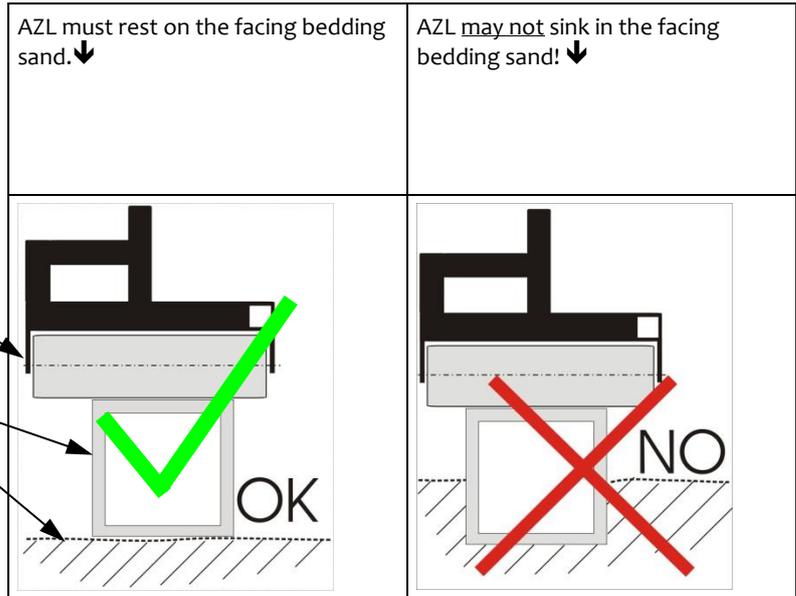
Figure 6



IMPORTANT

When using the screeding rails AZL as support elements for the roller unit (4) note the following informations → → →

Roller unit (4)
AZL
Facing bedding sand



For transportation and displacement of the device **TAK** the handling system (7) must be installed at the TAK. How to install the handling system (7) see chapter „Installation“ in this operating instructions.

Hang the device TAK together with the handling system (7) on the loading shovel of the wheel loader.

→ **Figure 7** und **Figure 8**



When transporting the device (TAK) any staying in the working area of the wheel loader is strictly forbidden. **Danger to life, cause the device could fall down!**



Figure 7



Figure 8

TAK without TAK-DP
Figure 2



TAK with TAK-DP
Figure 2



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.

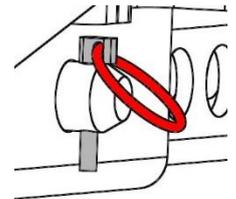
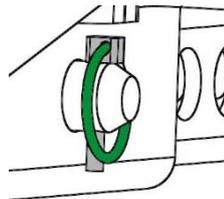


All operations may only be made in closed state of the device!

6.2 Mechanical

SERVICE INTERVAL	Maintenance work
First inspection after 25 operating hours	<ul style="list-style-type: none"> Control and tighten all screws and connections. (The implementation is only allowed by an expert).
All 50 operating hours	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Check of all the suspension parts, bolts and straps. Check for corrosion and safety by an expert.

1)



6.3 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.

6.5 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.

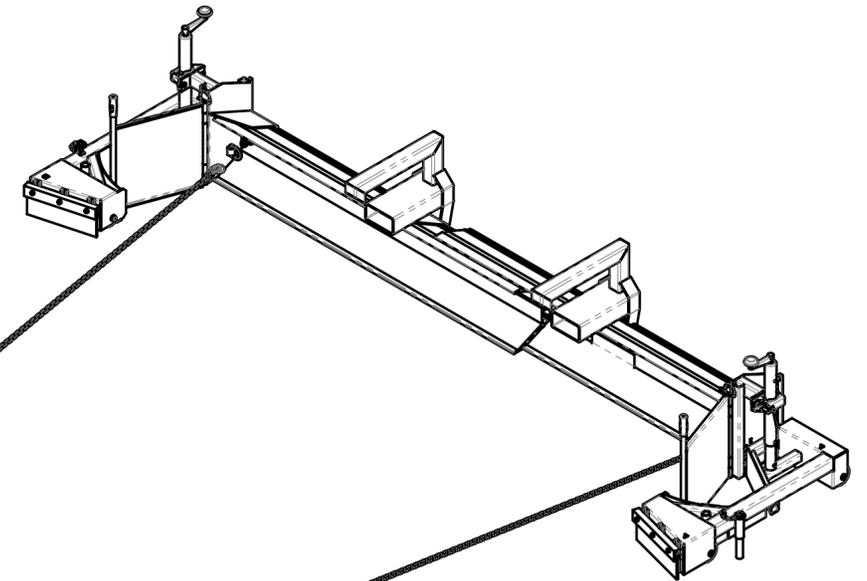
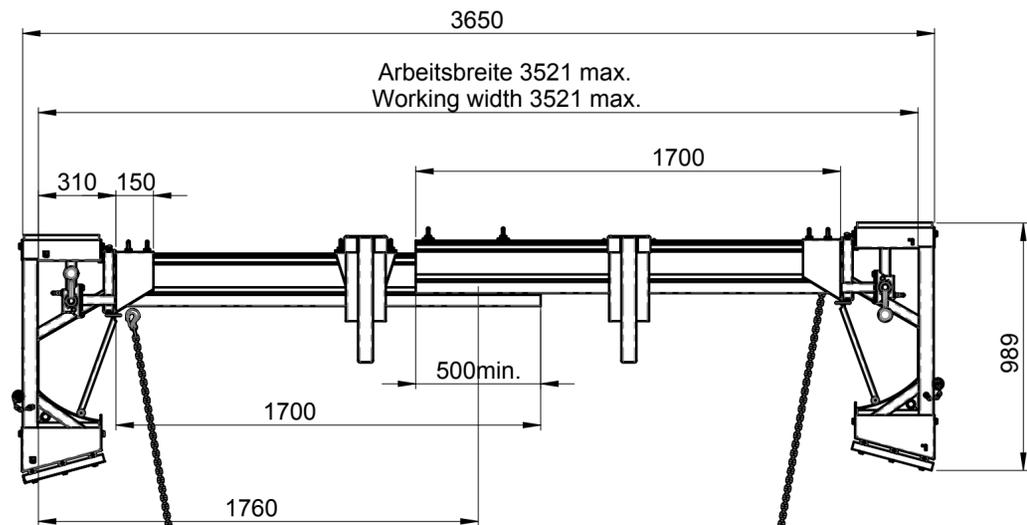
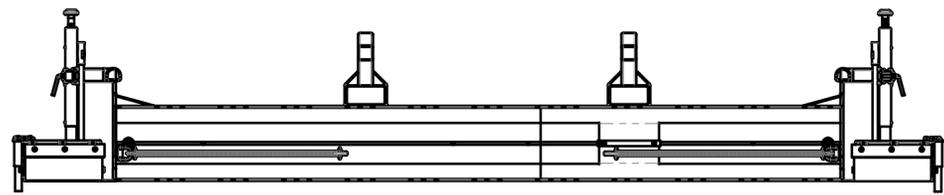


Example:

6.6 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)!



5 meter

Arbeitsbreite stufenlos / Working width stepless:
2470 - 3520 mm

Mindestprofilüberlappung / Minimum profile overlap:
500 mm

TAK 350 Telescopic Screeding Bucket

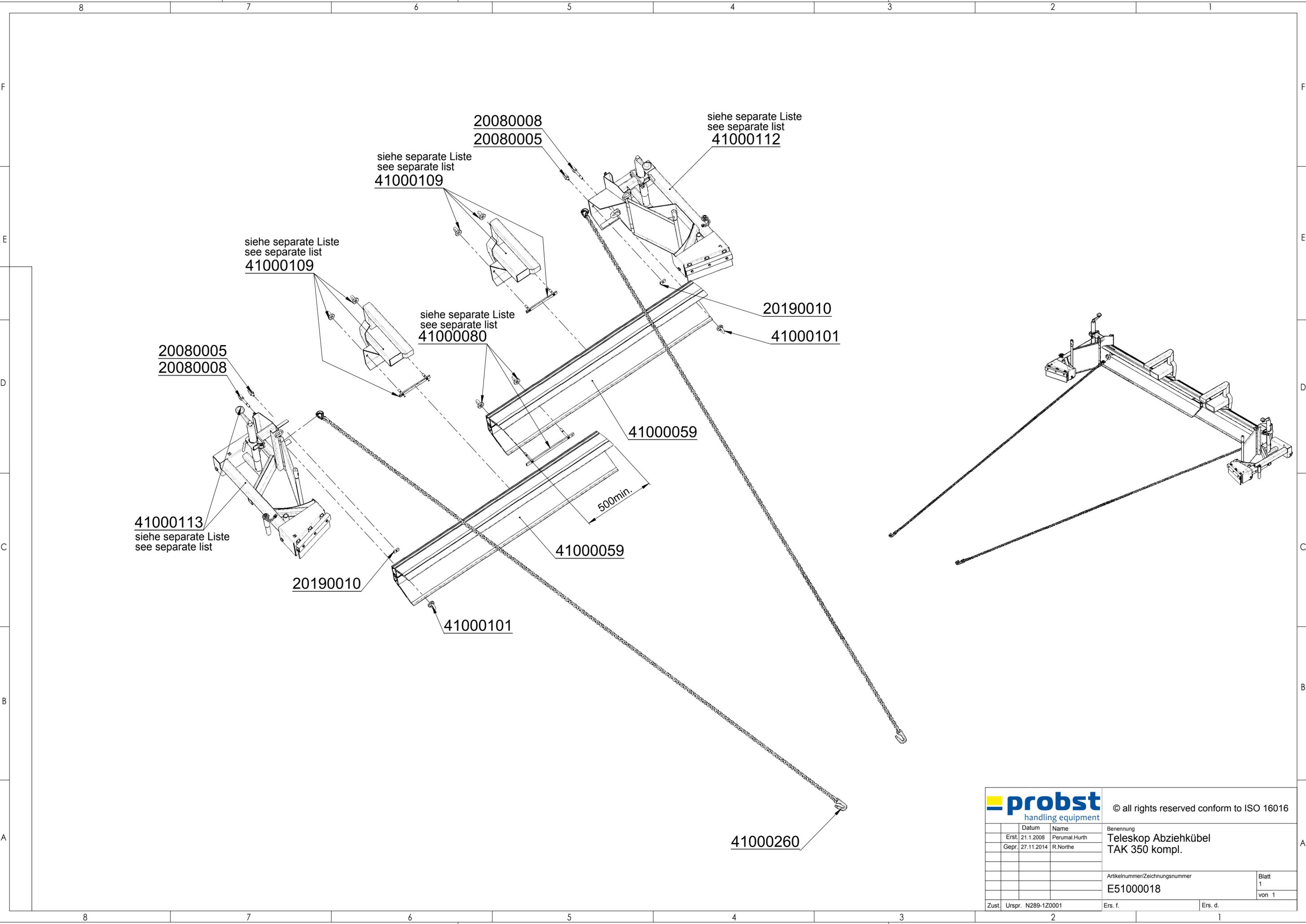
probst
handling equipment

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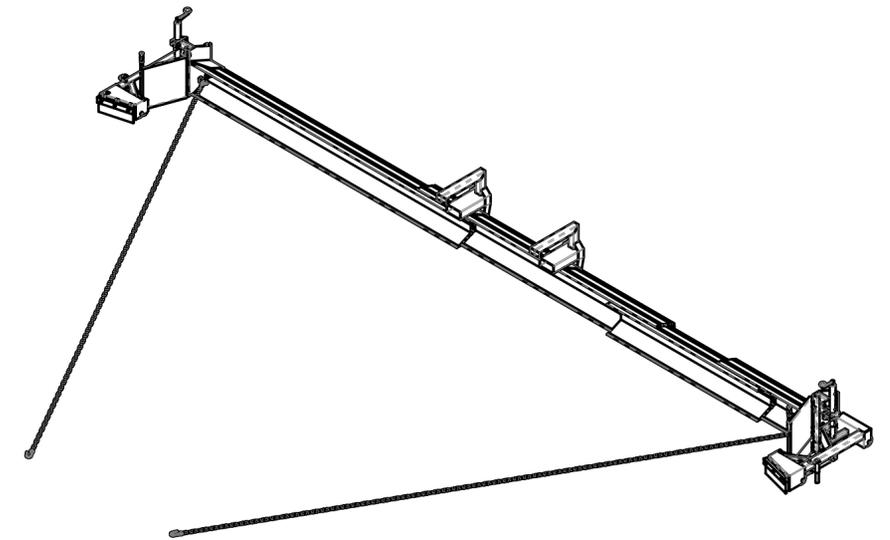
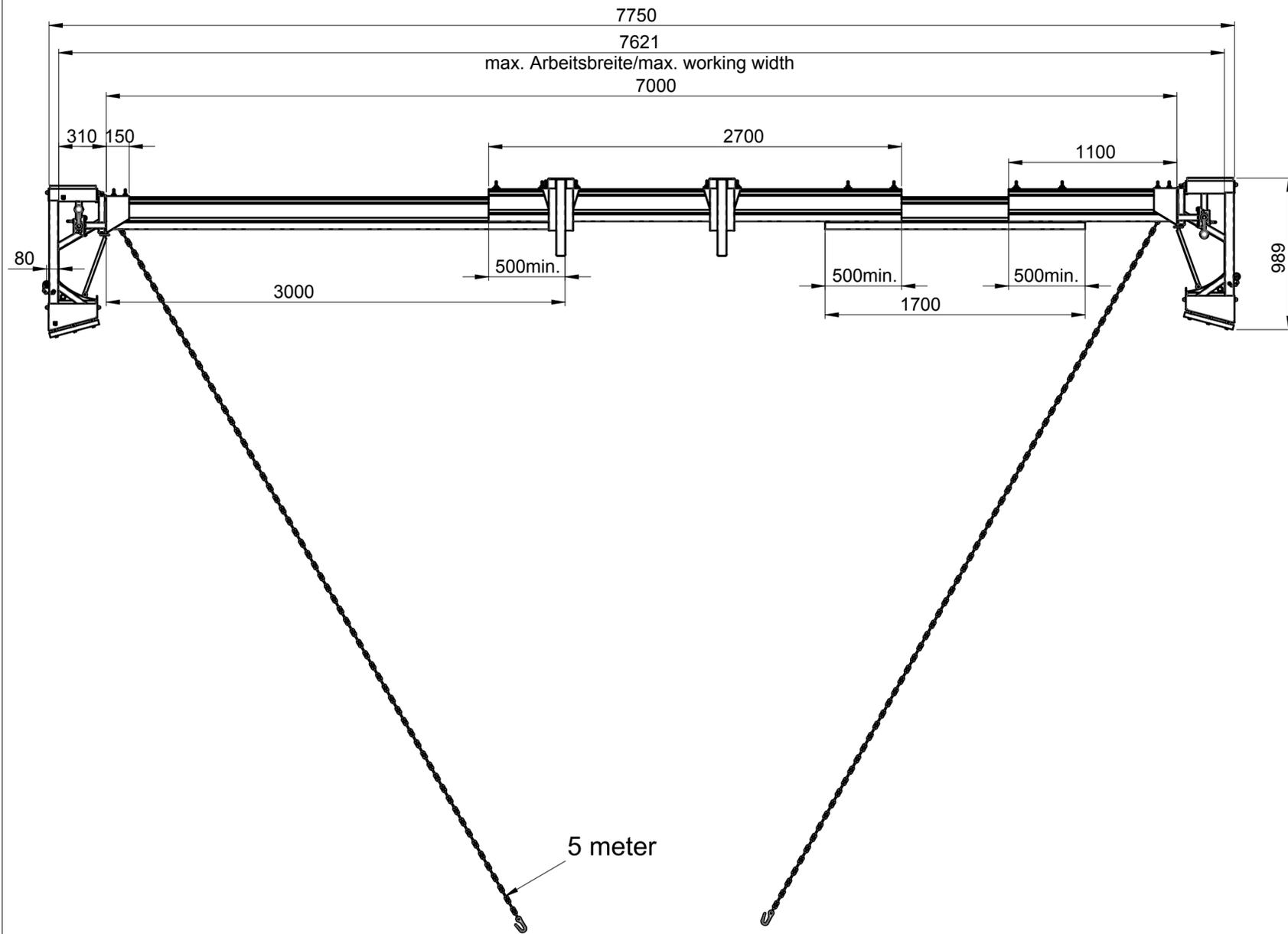
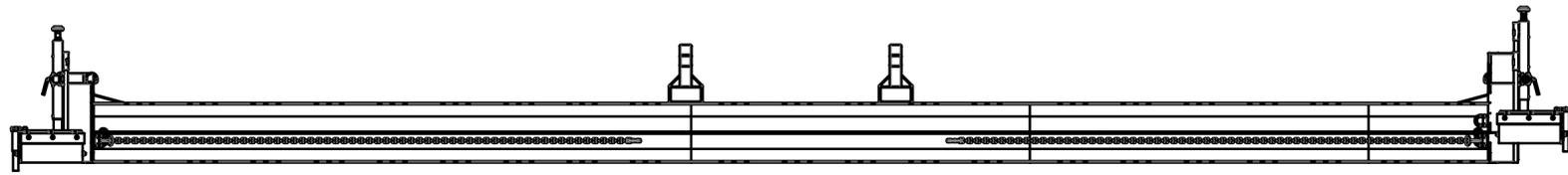
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Erst. 21.1.2008	Perumal.Hurth	Teleskop Abziehkübel
Gepr. 7.11.2017	I.Krasnikov	TAK 350 kompl.
Zust.	Urspr. N289-1Z0001	Ers. f.
		Ers. d.

Artikelnummer/Zeichnungsnummer
D51000018

Blatt
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von 1



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	Datum	Name	Benennung
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	Gepr. 27.11.2014	R.Northe	TAK 350 kompl.
			Artikelnummer/Zeichnungsnummer
			E51000018
Zust.	Urspr. N289-1Z0001	Ers. f.	Ers. d.
			Blatt 1 von 1



Arbeitsbreite stufenlos / Working width stepless:
2470 - 7620 mm

Mindestprofilüberlappung / Minimum profile overlap:
500 mm

TAK 750 Telescopic Screeding Bucket

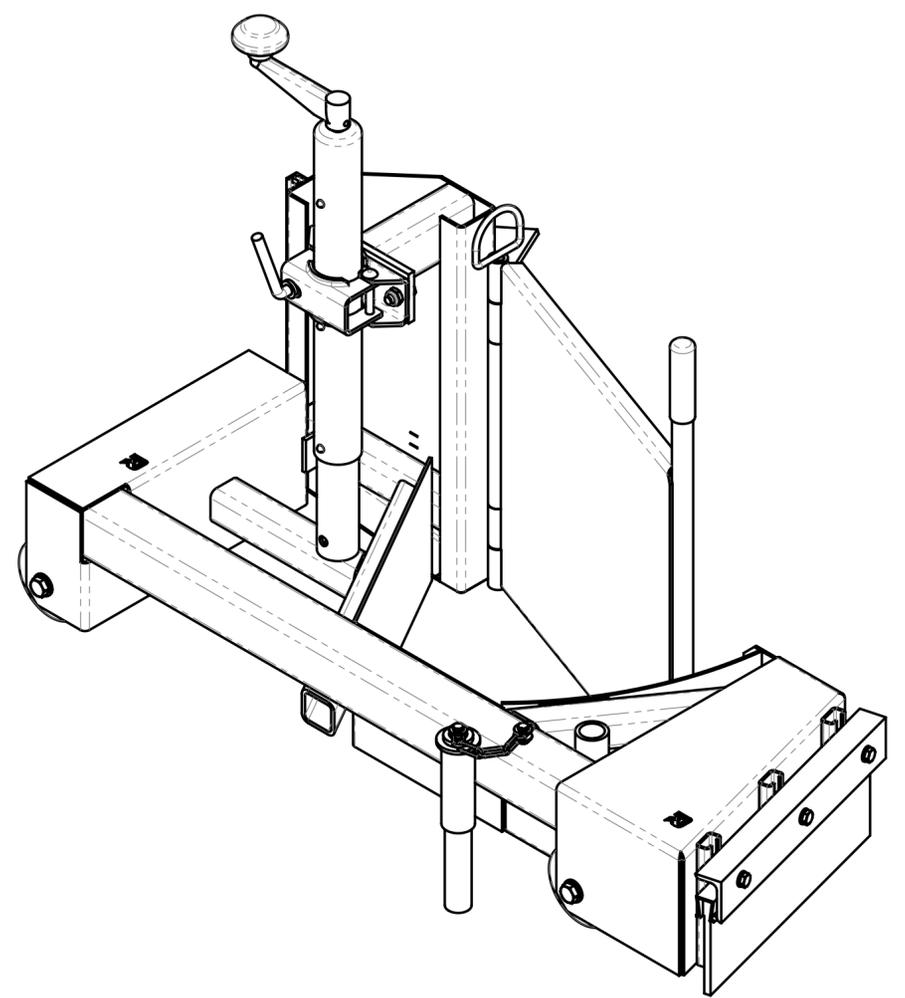
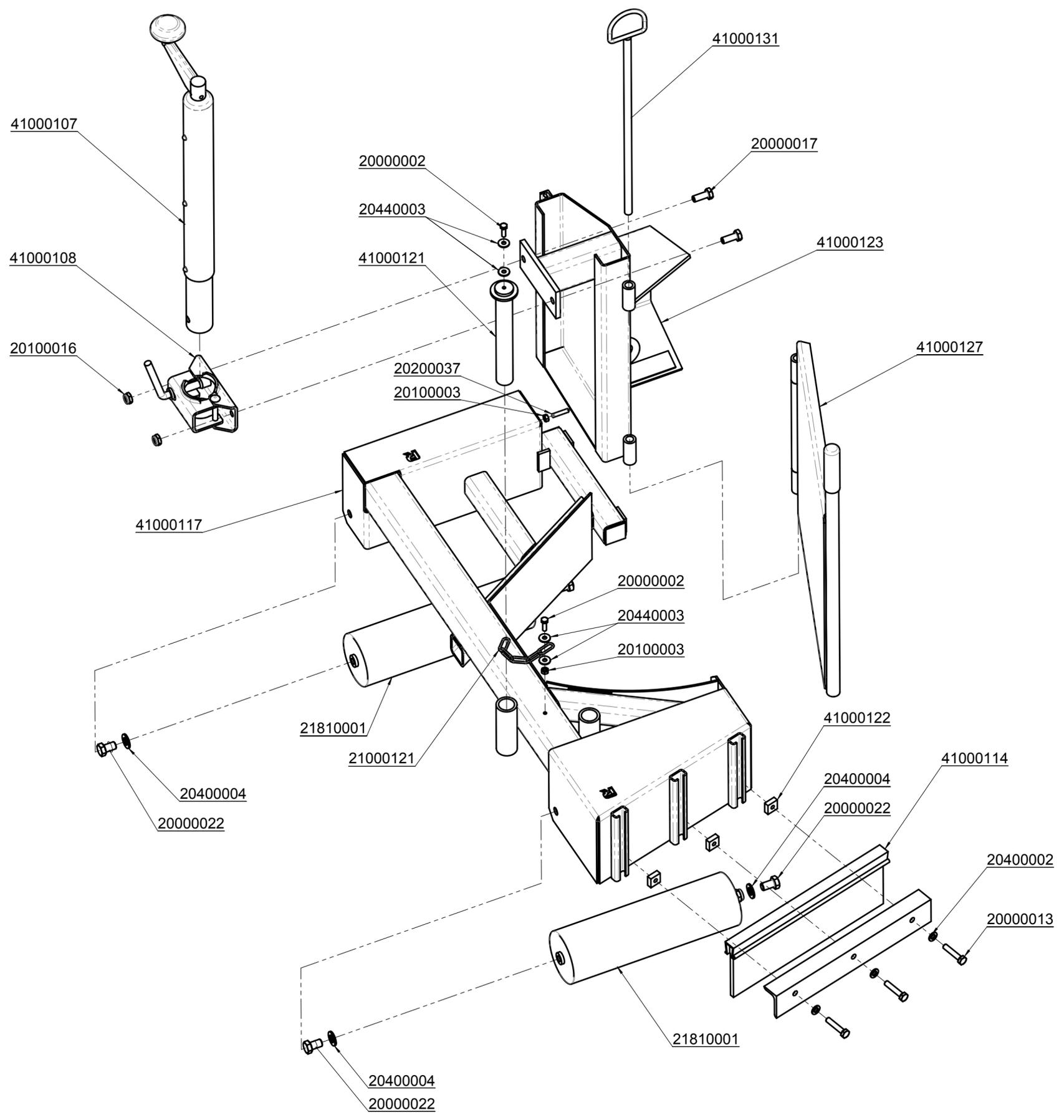


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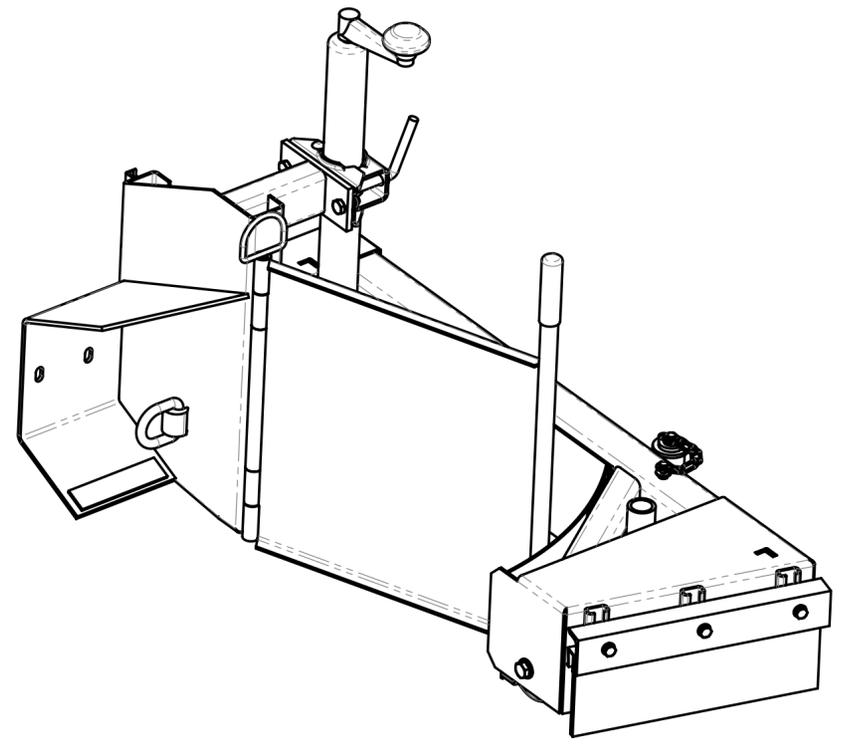
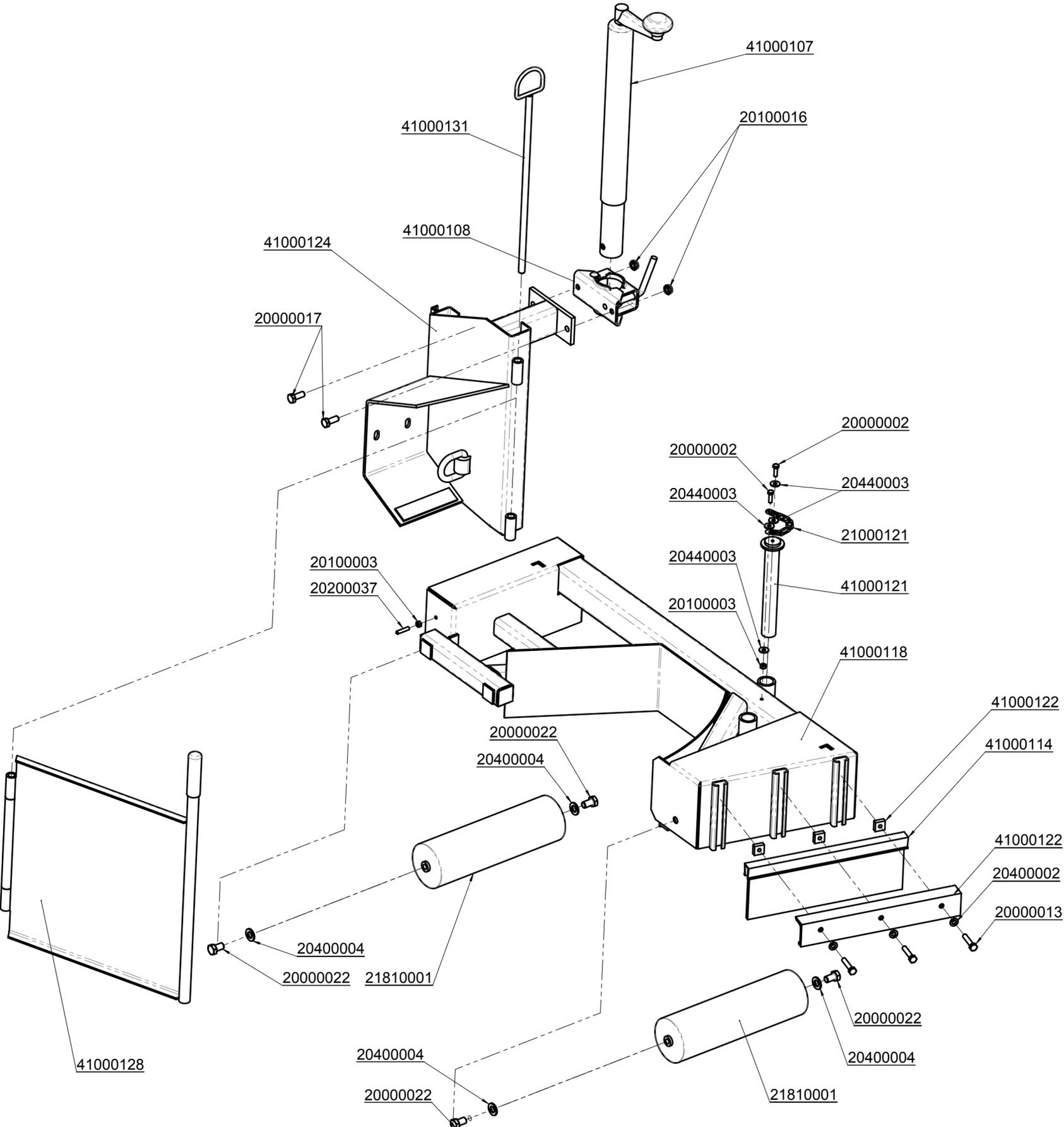
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	Gepr. 8.11.2017	I.Krasnikov	TAK 750 kompl.
Zust.	Urspr. N289-1Z001	Ers. f.	Ers. d.

Artikelnummer/Zeichnungsnummer
D51000013

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von 1



		© all rights reserved conform to ISO 16016	
Benennung		Höhenverstellbare Rolleneinheit, links für TAK	
Datum		Name	
Erst. 18.1.2008		Perumal.Hurth	
Gepr. 9.2.2016		R.Northe	
Artikelnummer/Zeichnungsnummer		Blatt	
E41000113		1	
Zust. Urspr. N289-1Z002		Ers. f. Ers. d.	
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probst handling equipment		© all rights reserved conform to ISO 16016	
Datum	Name	Benennung	
Erst. 18.1.2008	Perumal.Hurth	Höhenverstellbare Rolleneinheit, rechts für TAK	
Gepr. 9.2.2016	R.Northe		
		Artikelnummer/Zeichnungsnummer	Blatt
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Zust.	Urspr. N289-1Z002	Ers. f.	Ers. d.

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 see separate list



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Datum		Name		Benennung	
Erst.	18.1.2008	Perumal.Hurth		TAK Manipuliereinrichtung zur Aufnahme mit Schaufel oder Zinken (1 Paar)	
Gepr.	8.11.2017	I.Krasnikov			
				Artikelnummer/Zeichnungsnummer	
				E41000109	
				Blatt 1 von 1	
Zust.	Urspr. N188-30001		Ers. f.	Ers. d.	

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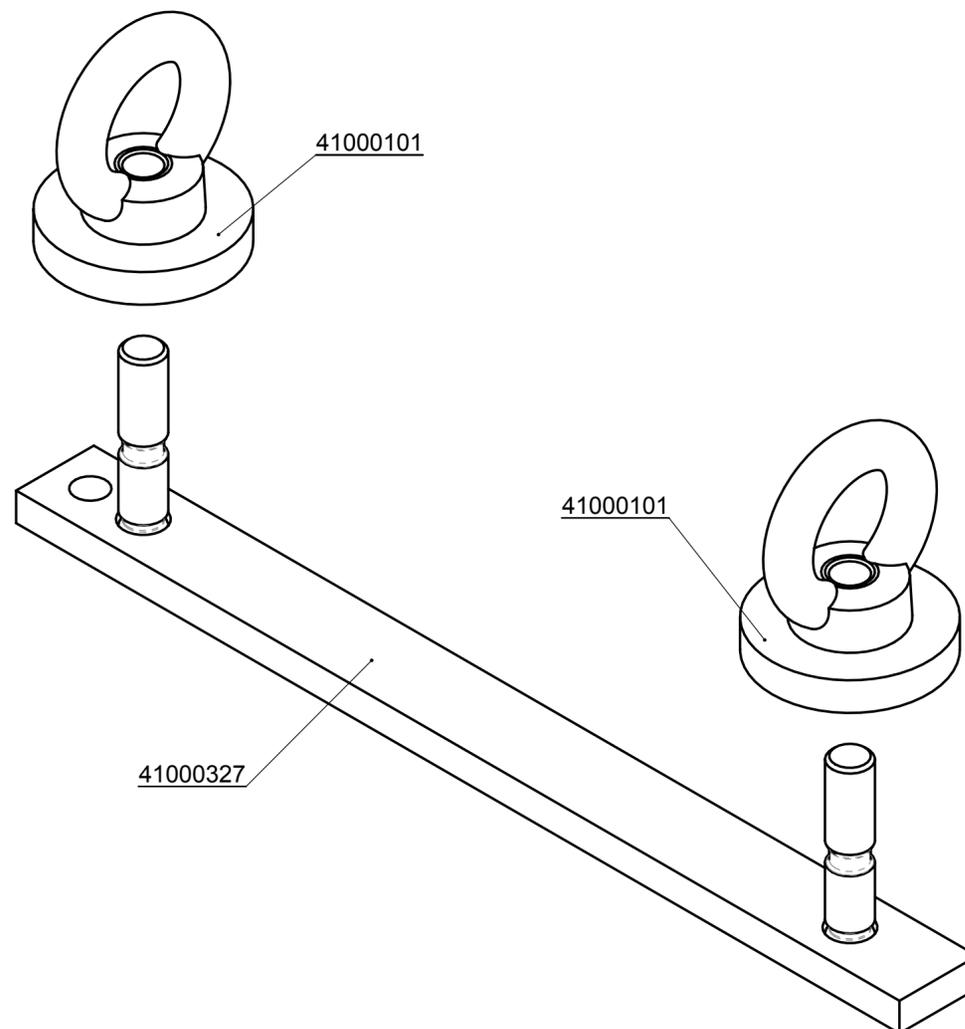
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	Datum	Name	Benennung
	Erst. 8.11.2017	I.Krasnikov	Klemmverstellung mit 2 Ringmuttern
	Gepr. 8.11.2017	I.Krasnikov	
			für TAK zu Manipuliereinrichtung (M10x40)
			Artikelnummer/Zeichnungsnummer
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Zust.	Urspr. N187-452	Ers. f.	Ers. d.

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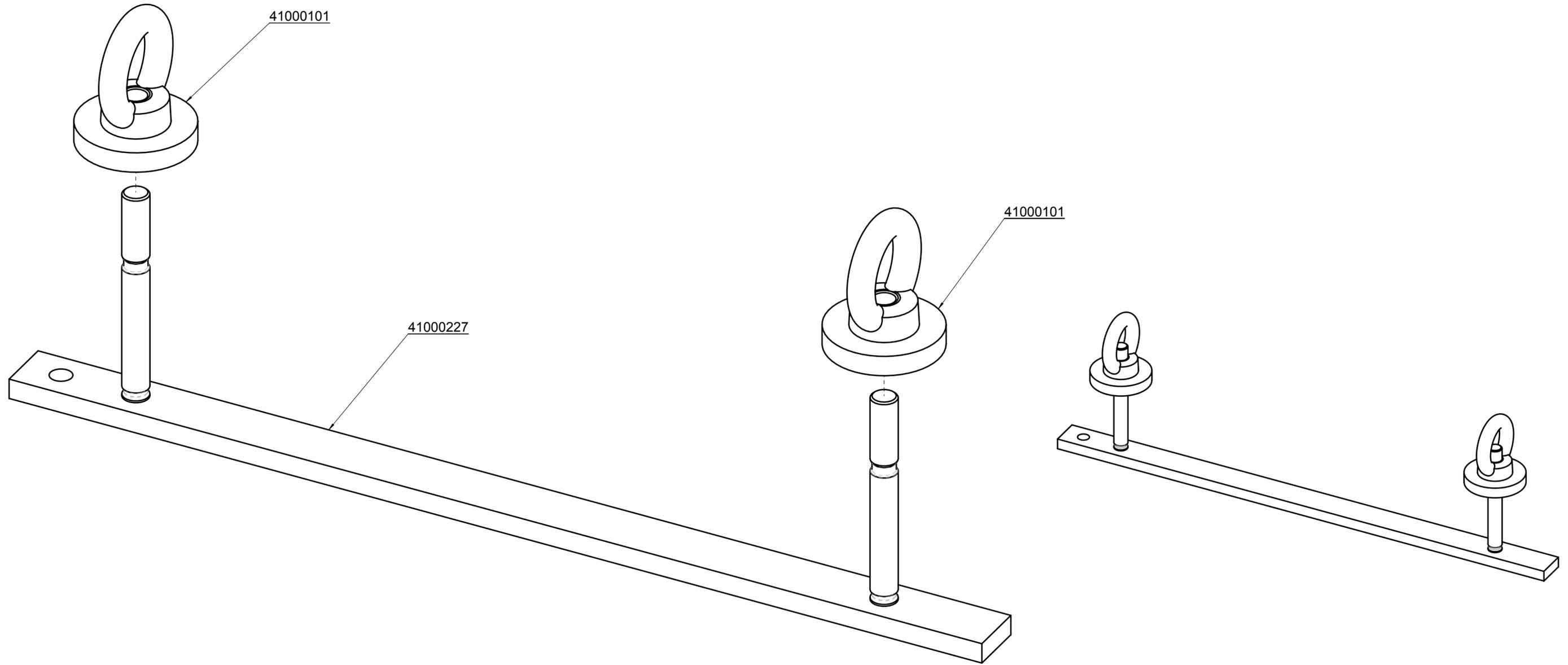
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handling equipment

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	Datum	Name	Benennung
Erst.	15.5.2014	Ralf.Northe	Klemmverstellung mit 2 Ringmuttern für TAK
Gepr.	15.2.2016	R.Seidel	
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Zust.	Urspr. N187-452	Ers. f.	Ers. d.

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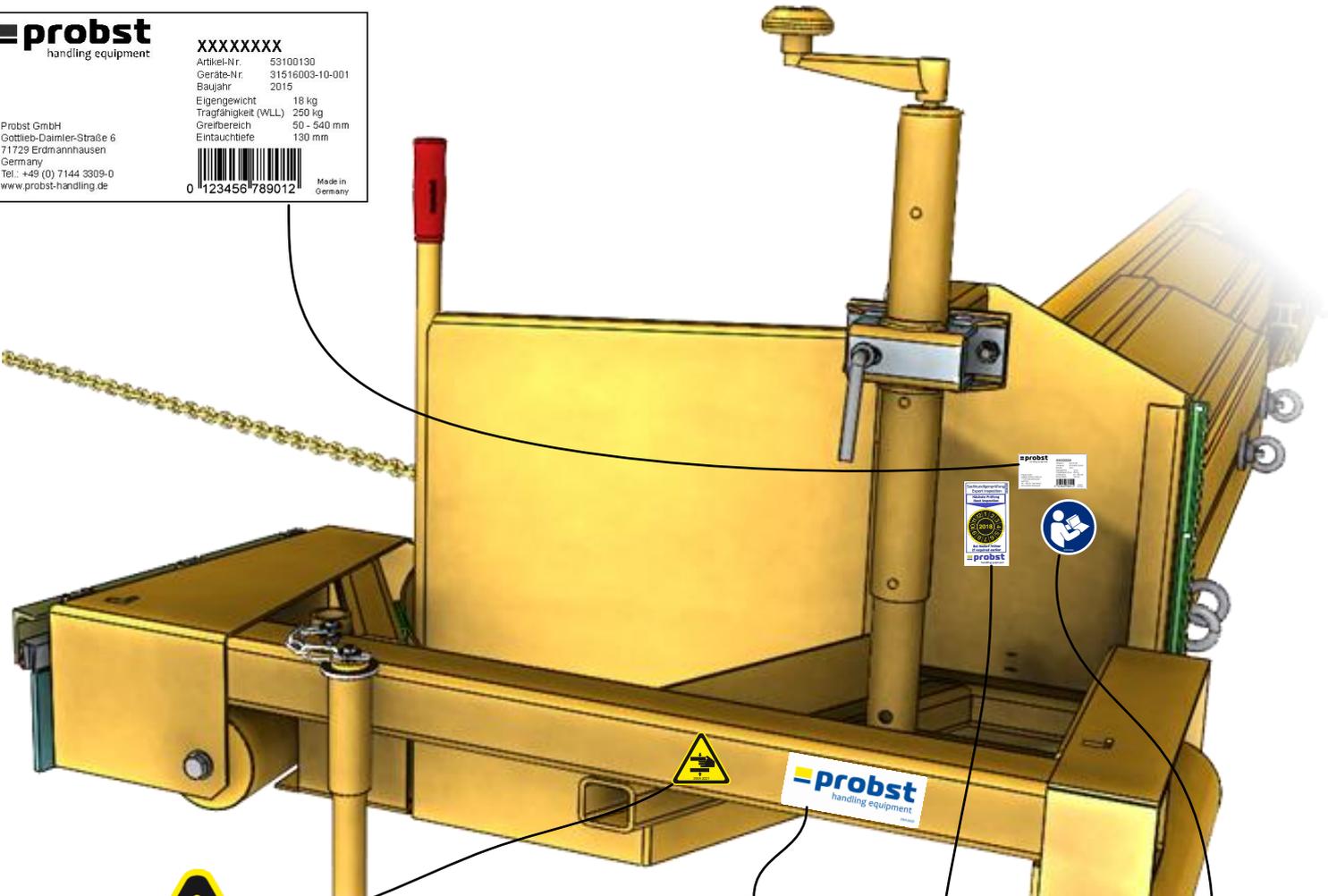
probst
handling equipment

XXXXXXXXX
 Artikel-Nr. 53100130
 Geräte-Nr. 31516003-10-001
 Baujahr 2015
 Eigengewicht 18 kg
 Tragfähigkeit (WLL) 250 kg
 Greifbereich 50 - 540 mm
 Einbauchtiefe 130 mm

Probst GmbH
 Gottlieb-Damler-Strasse 6
 71729 Erdmannhausen
 Germany
 Tel.: +49 (0) 7144 3309-0
 www.probst-handling.de



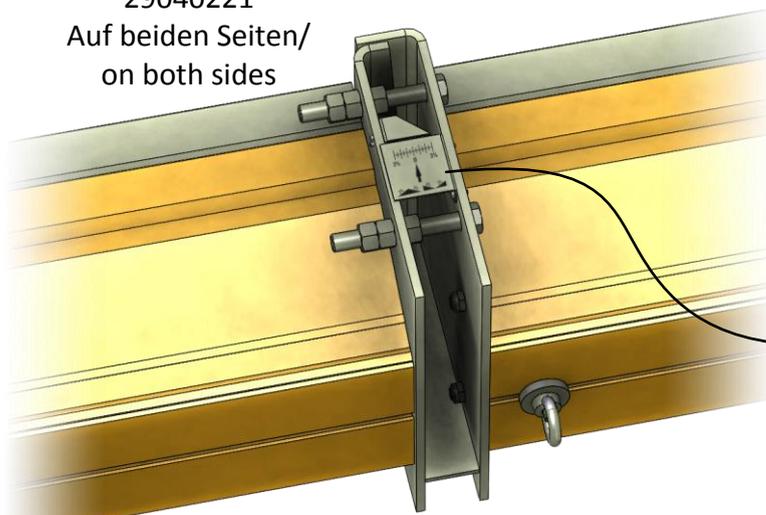
Made in Germany



29040221
Auf beiden Seiten/
on both sides



29040028
Auf beiden Seiten/on
both sides



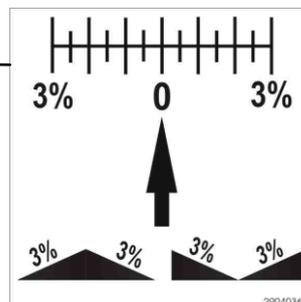
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29040364

