



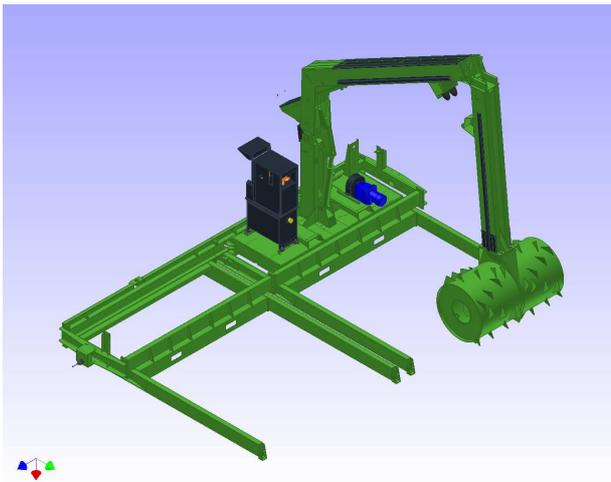
# Roll-Packer Transfer-Station

RP 7700 VS

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## 1. General Description



The Roll-Packer Transfer-Station is a compaction machine that can be displaced to several open containers. The machine breaks and tears up the waste in a row and compacts it layer by layer in a very effective way. Due to the heavy drum with special teeth the machine is able to compact even high quantities of waste within shortest time to a minimum of the original volume.

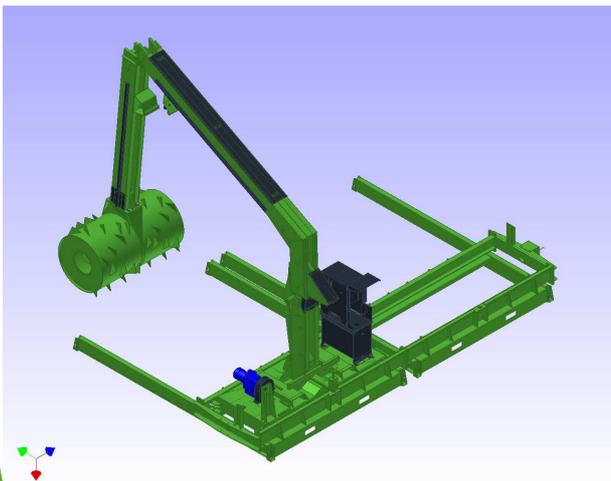
The Roll-Packer Transfer-Station is particularly suited for bulky and voluminous waste as wooden boxes, pallets, big cardboard, bulky waste, green waste etc. which is collected separately in different containers.

It is possible to use open containers up to a length of 7,000 mm and a height of 1,900 to 2,700 mm. With a special construction, it will be possible to reach containers up to a height of 3,100 mm

hydraulic motors and a helical gear box are inside the compaction drum. The motors are driven by a hydraulic system which controls automatically that the drum is alternately going forward and backward. With this movement the waste is compacted layer by layer.

The movement of the compaction unit from one container to the other is effected electrically by means of a gearbox motor and a robust chain tension.

The machine is allowed to be operated on a flat or gently inclined underground. The underground has to be paved (blacktop, pavement, firm gravel etc.). The electrical connection can be mounted optionally on left or right hand side of the track (32 A CEE plug). The power supply of the basic machine is carried out by a cable retractor with a cable length of up to 15 m (optionally different cable lengths are possible).

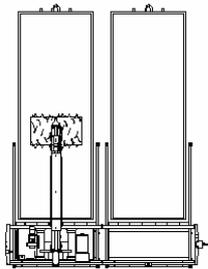


## 2. Technical data

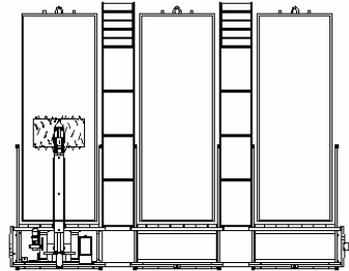
<p><b><u>hydraulic aggregate</u></b></p> <p>drive power</p> <p>compaction unit    5,5 kW / 1.500 rpm</p> <p>traversing unit     0,75 kW / 1.500 rpm</p> <p>operating pressure up to 210 bar</p> <p>drum speed          6 rpm</p> <p>oil volume            100 litre</p> <p>hydraulic oil        HLP according to DIN 51 524, part 2</p> <p>viscosity             of 46 mm<sup>2</sup>/s at 40°C</p> <p>temperature range -10°C to +60°C</p> <p>oil cooler            110 W</p>		<p><b><u>dimensions approx. (without container)</u></b></p> <p>machine width        3.100 mm (per container track)</p> <p>machine height       6.650 mm</p> <p>machine length       4.200 mm</p> <p>drum diameter        1.150 mm</p> <p>container height     1.900 mm to 2.700 mm</p> <p>compacting length   approx. 6.600 mm, adjustable</p>	
<p><b><u>gear box</u></b></p> <p>oil volume            drum gear box: 6,0 litre</p> <p>oil description       CLP according to DIN 51 517, part 3</p> <p>viscosity             of 320 mm<sup>2</sup>/s at 40°C</p> <p>temperature range -10°C to +60°C</p>		<p><b><u>dimensions container track approx. (without container)</u></b></p> <p>length                 4.200 mm</p> <p>height                 600 mm</p> <p>width                  3.100 mm</p>	
		<p><b><u>electrical details</u></b></p> <p>electrical connection customer specific</p> <p>input voltage         220-240 V / 380-415 V</p> <p>frequency             50 Hz</p> <p>control voltage       24 V</p> <p>pre-fuse on site     3 x 25 A</p> <p>degree of protection IP 54 according to DIN 40 050</p>	
		<p><b><u>further details</u></b></p> <p>traversing             manual</p> <p>noise level            approx. 72 dB(A) according to DIN ISO 3746 (5 m distance)</p> <p>compaction weight   1.200 kg</p> <p>effective load         1.550 kg</p> <p>overall weight        4.250 kg</p>	

Subject to technical changes

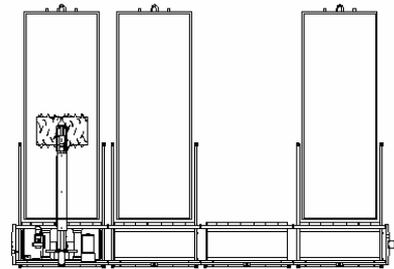
### 3. Examples for positioning of containers



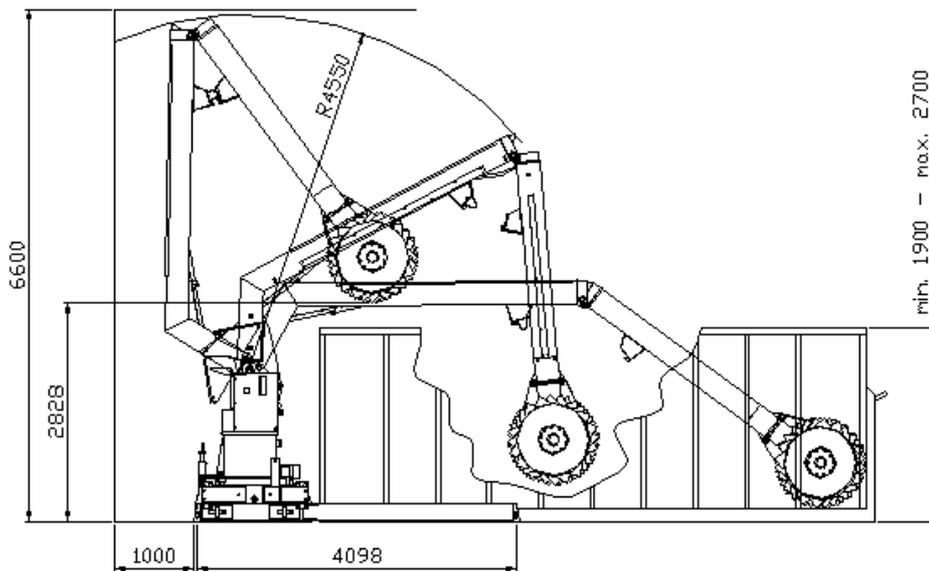
2 Plätze



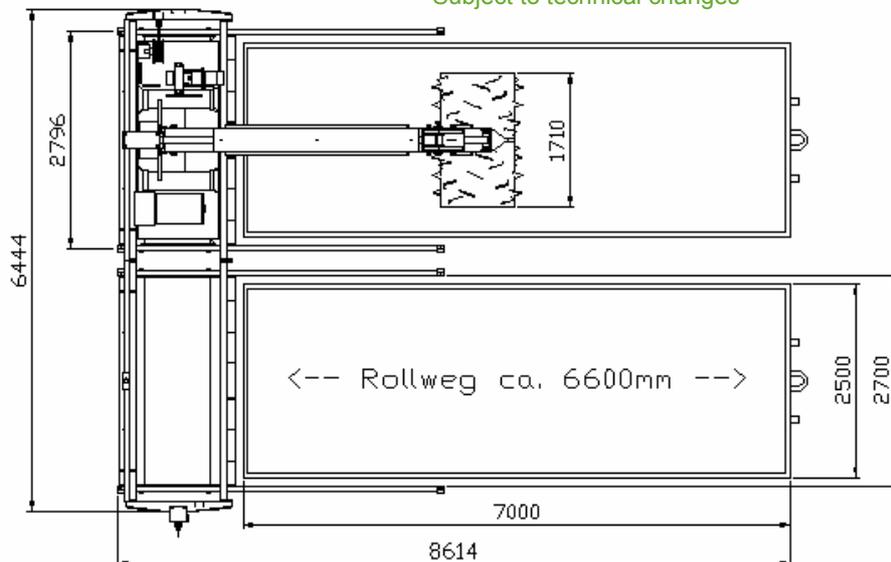
3 Plätze mit Laufsteg



4 Plätze mit Rangierplatz  
für Gabelstapler



Subject to technical changes



#### 4. Compaction results (customer specification)

	<u>Type of waste</u>	<u>without Roll-Packer VS</u>	<u>with Roll-Packer VS</u>	<u>Savings of disposal trips</u>
	chip-board	approx. 4 tons	approx. 8 tons	50 %
	card-board	approx. 0,9 tons	approx. 4 tons	75 %
	residual waste	approx. 6 container necessary	approx. 3 container necessary	50 %
	timber, pallets	approx. 4 tons	approx. 9 tons	55 %
	metal	approx. 5 container necessary	approx. 2 container necessary	60 %
	green waste	approx. 2,5 tons	approx. 7 tons	64 %

## 5. References

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Berliner Städtereinigung, Berlin</li> <li>• BMW, München</li> <li>• Daimler-Chrysler, Stuttgart</li> <li>• Lufthansa, Hamburg</li> <li>• Audi</li> <li>• Recyclinghof, Bad Kissingen</li> <li>• Pirelli</li> <li>• Faber Kabel, Han. Münden</li> </ul> | <ul style="list-style-type: none"> <li>• Vestforbraending/Gladsaxe, Copenhagen (DK)</li> <li>• Vestforbraending, Taastrup (DK)</li> <li>• FORD, St. Petersburg (RUS)</li> <li>• Marlborough Household Recycling-Centre, Warminster (GB)</li> <li>• Pitlochry Recycling Center, Perth &amp; Kinross Council (GB)</li> <li>• Kinross Recycling Centre, Perth &amp; Kinross Council (GB)</li> <li>• Norris Way Recycling Centre, Birmingham (GB)</li> <li>• Westsussex County Council, Horsham (GB)</li> <li>• Westsussex County Council, East Grinstead (GB)</li> <li>• Zimmermann AG, Tirol (A)</li> <li>• Stmoid AG, Eglisau (CH)</li> <li>• Gemeente Arnhem (NL)</li> </ul> |
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## 6. Characteristics of Roll-Packer Transfer-Station



### Limit switch for lifting of drum

A safety switch controls the position of the compaction drum. With this it is assured that the machine can only be moved laterally when the compaction drum is lifted (the pictures show the limit switch in not activated and in activated condition).



When the drum is lifted completely out of the container the limit switch is activated. Only now it is possible to move the compaction unit laterally to the next container



### Lateral traversing by chain drive

An electro gear motor with chain drive makes it possible to move the Transfer-Station laterally. The construction is very robust and impassible against harmful environmental influences.



### Detailed view

The picture shows the end stop of the chain tightener and the electrical connection.



**Safety arrangement  
Emergency-stop device via rope pull switch**

A steel rope with a pull switch is fixed along 3 sides of the compaction unit and secures a quick release of the emergency device.



**Manual locking**

The Transfer-Station owns a locking bolt on each container position which has to be plugged manually.

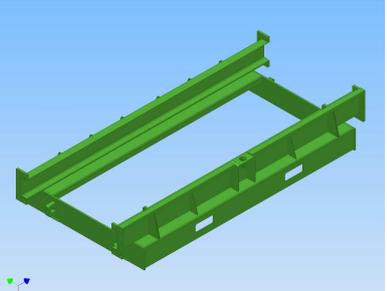
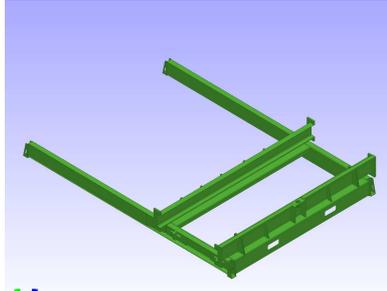
It is only possible to lower the compaction drum and to operate it inside a container when the locking bolt is plugged in the correct container position.

(picture shows the pulled and plugged in locking bolt)



## 7. Additional equipment

### 7.1 Constructive design

EDV-Code	Description	Scope of Delivery
<p>40406101</p> 	<p style="text-align: right;">111208</p> <p><b>Track segment max. 2 m</b></p> <p>When using these segments an additional space for e.g. a catwalk or similar is made. The track segments do have a length of max. 2m.</p> <p>To stabilize a track segment exceeding 2m a track segment with substructure is requested (sales number 40406109).</p> <p>The required length has to be communicated from the customer or they have to be checked on site with a technician.</p>	<p>track segments (2 units) fasteners</p>
<p>40406109</p> 	<p style="text-align: right;">111208</p> <p><b>Track segment 3 – 6 m</b></p> <p>This track segment can be used as shunting area between two container ranges for e.g. forklift trucks. The length between 3 to maximum 6 meter is possible.</p> <p>The track segment is equipped with an additional substructure for stability.</p> <p>The required length has to be communicated from the customer or they have to be checked on site with a technician.</p>	<p>track segments (2 units) fasteners</p>
<p>40406426</p> 	<p style="text-align: right;">111208</p> <p><b>Track segment container</b></p> <p>Additional track segment for one further container place with a length of 3.100 mm</p> <p>This extension consists of the basic construction including tracks and the centring device for container.</p> <p>With this segment it is also possible to expand the machine afterwards on a modular design basis with the needed quantity of container ranges.</p>	<p>track segment side beams (2 units) fasteners</p>

<p>40406470</p> 	<p><b>Catwalk LS 1500</b></p> <p>The basic model of the catwalk contains stairs, galvanized grids, safety handrails and a safety end rail.</p> <p>Dimensions:</p> <table border="0"> <tr> <td>total length</td> <td>approx. 3.000mm</td> </tr> <tr> <td>total width</td> <td>approx. 1.100mm</td> </tr> <tr> <td>height (incl. handrails)</td> <td>approx. 2.200mm</td> </tr> <tr> <td>length accessible area</td> <td>approx. 1.500mm</td> </tr> <tr> <td>height accessible area</td> <td>approx. 1.150mm</td> </tr> <tr> <td>height safety handrail</td> <td>approx. 1.000mm</td> </tr> </table> <p>The catwalk can be extended optionally with sales number 40 406 471.</p>	total length	approx. 3.000mm	total width	approx. 1.100mm	height (incl. handrails)	approx. 2.200mm	length accessible area	approx. 1.500mm	height accessible area	approx. 1.150mm	height safety handrail	approx. 1.000mm	<p>stairs catwalk grids handrails</p>
total length	approx. 3.000mm													
total width	approx. 1.100mm													
height (incl. handrails)	approx. 2.200mm													
length accessible area	approx. 1.500mm													
height accessible area	approx. 1.150mm													
height safety handrail	approx. 1.000mm													

<p>40406471</p> 	<p><b>Extension of catwalk</b></p> <p>In addition to the basic model of the catwalk. The length of the accessible area is 1.500mm.</p>	<p>catwalk grids handrails</p>
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<p>40406102</p> 	<p><b>Cabin incl. stairs</b></p> <p>The cabin is mounted on the carriage of the compaction unit.</p> <p>The operator is protected from ingressing rain by a panorama glazing and the cabin door.</p> <p>The electrical control panel and the manual locking of the compaction unit are inside the cabin.</p>	<p>Cabin with lockable door, panorama glazing incl. one sliding window and a safety guard for the windscreen Control panel Stairs with handrails Folding seat</p>
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40406111



**Additional compaction unit**

Traversing-Stations with a high amount of container positions can be equipped with an additional compaction unit to increase the efficiency. Both units are working completely autonomic from each other. A later on re-fitting of the second unit is possible.

Complete compaction-unit incl. hydraulic aggregate

40406361

**Fixing kit for anchorage on ground**

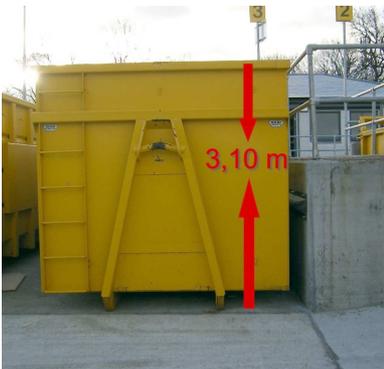
A flexible fixing kit for the machine's anchorage on the ground will be supplied. This fastening reduced the transfer of the machine vibration to the construction. The fixing is to be carried out in front or at rear on the side beams of the machine.

**NOTICE:**

The ground has to be flat and has to be out of concrete.

heavy-duty dowel (2 units)  
steel disk (2 units)  
rubber disks (4 units)

40406441



**Compaction unit for container with a height of 3.100 mm**

In case the compaction shall take place into container higher than 2.700 mm, the construction can be adjusted accordingly.

The maximum lifting height of the drum is changed from 2.720 mm to 3.100 mm.

**NOTICE:**

The required free space in height for the operation of the machine amounts to 7.100 mm.

special design of the floor

40406444



**Automatic lubrication system**

With this electrical driven central lubrication system all six hinged joints are supplied automatically with grease.

The system is connected with the electrical control of the Roll-Packer and can be programmed independently.

programmable lubrication pump  
rack for pump  
pipe for lubricant  
point of lubrication  
screw connections

## 7.2 Electric accessories

EDV-Code	Description	Scope of delivery
40406355	<p style="text-align: right;">200207</p> <p><b>Signal via horn</b></p> <p>An acoustic signal transmitter is mounted in the aggregate control cabinet. The horn blows as long as the incoming signal transmits a signal for e.g. during the movement of the compaction unit.</p> <p>The volume of the acoustic signal is 87 dBA.</p>	<p>horn rectifier various electrical parts</p>
40406451	<p style="text-align: right;">140109</p> <p><b>Rotating flashing beacon during machine operation</b></p> <p>A rotating flashing light is mounted on the cabin and blinks as soon as the compaction operation has started.</p>	<p>rotating flashing light various electrical parts</p>
40406485	<p style="text-align: right;">070109</p> <p><b>Working place light</b></p> <p>For the better illumination of the container a working place light is mounted on the compaction unit.</p> <p>The neon lamp is protected by a casing that is not susceptible to shocks.</p>	<p>neon lamp with casing fasteners</p>

40406104



**Safety foot switch**

050406

The operation of transfer station is only possible when the safety foot switch is pressed. As soon as the foot switch is released the machine switches off automatically.

safety foot switch

40406105



**Cable retractor up to 26 m**

081208

The cable retractor for a cable with a maximum length of 26 meter prevents the cable for power supply from being knotted and lying on the floor.

The cable retractor is required for traversing systems with a length exceeding 15 m or if the traversing system shall be extended to more than 15 m.

cable retractor with winder drive

40406106



**Cable retractor up to 50 m**

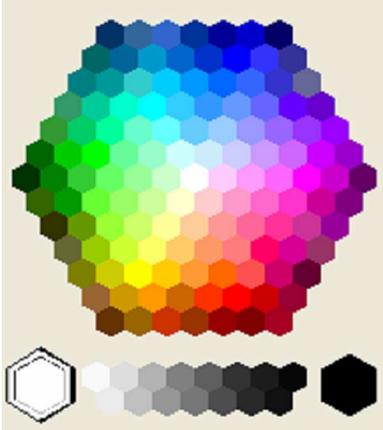
121208

The cable retractor for a cable with a maximum length of 50 meter prevents the cable for power supply from being knotted and lying on the floor.

The cable retractor is required for traversing systems with a length exceeding 15 m or if the traversing system shall be extended to more than 15 m.

cable retractor with winder drive

### 7.3 Miscellaneous

EDV-Code	Description	Scope of delivery
<p>50000894</p> 	<p style="text-align: right;">071206</p> <p><b>Organic hydraulic oil</b></p> <p>All machines are equipped with an oil deficiency switch which switches off the machine in case of an oil leakage. The use of organic hydraulic oil is recommended in areas where ground water has to be specially protected.</p> <p>It will be established in consultation with the factory which oil is ideal for the respective location.</p>	<p>Organic hydraulic oil</p>
<p>50000906</p> 	<p style="text-align: right;">191005</p> <p><b>Paintwork in the C3M corrosion class - DIN EN ISO 12944-5 Regulation</b></p> <p>The machine will be primed and then painted in any user-defined RAL colour. But in some cases a special paintwork to protect against harmful environmental influences can be necessary.</p> <p>This paintwork with a total layer thickness of 160 µm is intended for use in the following fields of application in moderate/temperate climates:</p> <p>external: coastal areas internal: buildings and areas with a virtually constant level of condensation.</p> <p>Initially the machine will be sandblasted. After this procedure has taken place, the following paint layers are applied:</p> <p>1<sup>st</sup> layer: zinc dust base - 40 µm 2<sup>nd</sup> layer: epoxy resin primer - 80 µm 3<sup>rd</sup> layer: two component paint - 40 µm</p> <p>The duration of protection of the paint amounts to between approximately 8 and 10 years.</p> <p><b>NOTICE:</b> The length of protection is not a guarantee time. This is a technical term which can assist the customer in specifying a maintenance program.</p>	<p>sandblasted sheet units quadruple priming two component top coat</p>



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