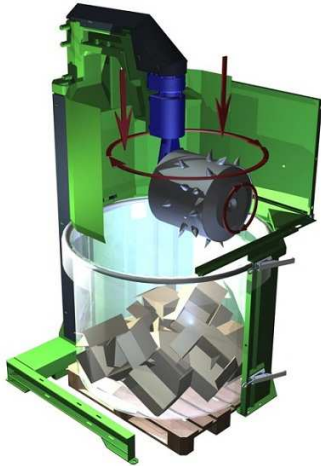




# BERGMANN ROTO-COMPACTOR APS 1100-E Typ 183



**The principle of the BERGMANN APS 1100-E is similar to the principle of the PS Roto-Compactors! Though the compaction is taking place in a bin!**



picture shows a standard 1100 litre roller bin

### Idea and functional principle

The APS 1100-E Typ 183 belongs to the Bergmann rotating waste compactors. The basic idea is to compact waste/recyclable material directly where it will be produced. This leads to savings of disposal trips, reduces the costs and saves the environment.

A left and right turning and rotating compaction drum „steamrolls“ every material and grabs it into a bin. By means of the specially equipped drum the waste will be compacted in layers. Idea, conception and implementation come from Bergmann and the more than 30-year-old experience in this technique.

### Easy handling due to continuous filling

After inserting the 1100 litre bin the machine is ready for operation. After the start button has been activated the compaction unit sinks and the waste/recyclable material can be thrown in.

**Waiting for the end of the compaction cycles or filling rhythms is not necessary!**

The compaction operation takes place automatically. The system will be controlled in a way so that the drum moves forward and backward in permanent change. Just throwing in the material and attend to work again afterwards!

An installation below waste chutes or conveyor belts is also possible.

### Compaction in layers

The compaction is taking place in a 1100 litre bin. The compaction drum grabs the material in layers until the full signal will be activated. Solely in view of cartonnage a compaction weight between 200-300 kg will be attained.

### Example:

**Out of 8m<sup>3</sup> make 1,1m<sup>3</sup> in one bin!**

# **BERGMANN** Machines for Waste Management



## Usage

The APS 1100-E Typ 183 is particularly suitable for recyclable material, such as paper, cardboard and the like as well as residual waste and wet waste. The typical usage of this machine takes place in supermarkets, hospitals, retirement homes and also in the industry, such as the food and packaging industry.

The APS 1100-E can be filled optionally via chute or faceplate. If the machine will be installed in a high-rise building two possibilities for filling are available. On the one hand the machine could be filled by means of the chute from the ground floor. Apart from that a simultaneously filling from a overlying floor via a waste chute is possible as well. This is only possible with the APS 1100-E!



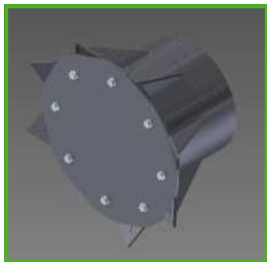
## Simple logistics

The bins can be tilted and afterwards emptied with the common waste collection vehicles.

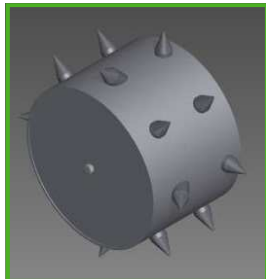
## Safety

The Bergmann APS correspond to the European Machinery Directive CE and are equipped with the latest safety technology as standard. For example the attendance of a bin will be requested with a safety limit switch. Without the attendance of a bin, the machine cannot be started.

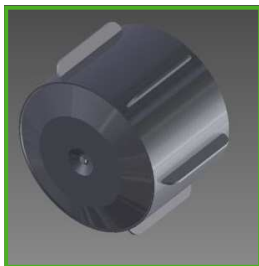




standard drum



special drum with  
steel cones



special drum with  
parallel bars



clear and simple control panel



### More than 30 years of experience

From the hydraulical system via the individual gear-box through to the electrical steering the machine is based on the experience of more than 30 years. This experience is attributed to the different operating ranges and uses of our customers, which are reflected in all parts of the serial machine. Moreover, the possible additional accessories are based on **longtime experience!**

### Compaction operation

The compaction drum will be driven by a low-maintenance 3,0 kW motor. The lifting system is realized by a hydraulic cylinder. Additionally, the compaction operation of the machine is nearly scarcely audible due to the electromechanical driving. This saves the environment in view of noise and oil pollution.

For the most different materials various compaction drums are available.

### User-friendly

A solid PLC-control within the control cabinet takes over the control of the machine. The display permits the operator to read out operating hours as well as changes of the running time. In addition to that malfunction messages will be indicated there. Optional it is possible to mount this display externally or use a web-connection.

The **advantage** of this solution in the case of a big machine park is receiving all disturbances, full signals and maintenance intervals in the home office. **NEW!**

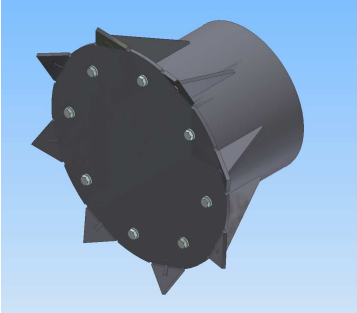
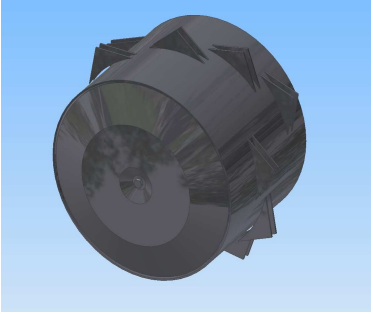
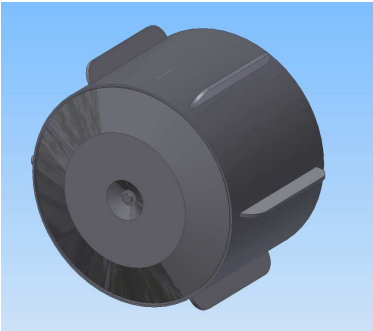
### Control panel

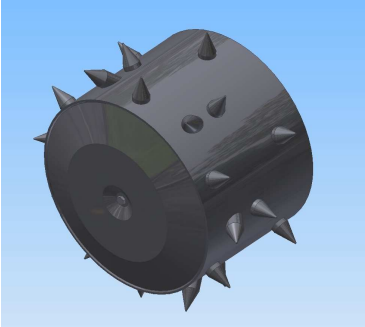
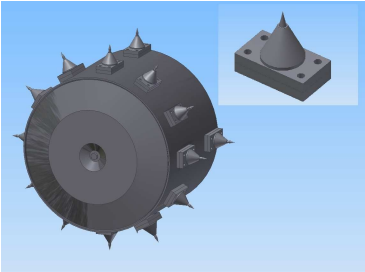
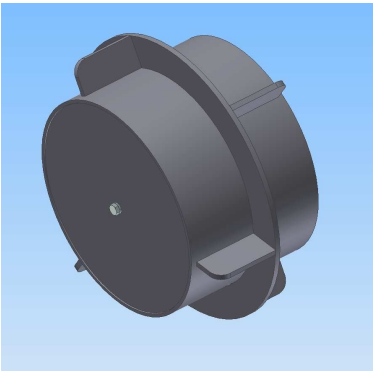
The clear control panel guarantees a reliable operation and easy handling of the machine. The programmes are individual available and therefore **for nearly every customer requirement adaptable.**

## Technical data of the APS 1100-E Typ 183





<p><b><u>Driving unit</u></b></p> <p>Driving power</p> <p>Compaction unit      3,0 kW / 1.400 U/min</p> <p>Lifting unit            1,1 kW / 1.400 U/min</p> <p>Rotation speed drum   approx. 20 U/min</p> <p><b><u>Gear</u></b></p> <p>Amount of gear oil</p> <p>Main gear unit        1,0 litre</p> <p>Angle                    1,30 litre</p> <p>Gear oil                CLP acc. to DIN 51 517, part 3</p> <p>Viscosity              from 320 mm<sup>2</sup>/s at 40°C</p> <p>Temperature range   -10°C to +60°C</p> <p><b><u>Hydraulic unit (Lifting)</u></b></p> <p>Hydraulic oil</p> <p>HLP 46                 5,0 litre</p> <p>Hydraulic oil        HLP according DIN 51 524, part 2</p> <p>Viscosity              from 56 mm<sup>2</sup>/s at 40°C</p> <p>Temperature range   -10°C to +60°C</p>	<p><b><u>Dimensions (without container)</u></b></p> <p>Width of the machine   1.450 mm</p> <p>Depth of the machine   1.730 mm</p> <p>Height of the machine   2.580 mm</p> <p>Max. required space for handling</p> <p>Width                    min. 1.450 mm</p> <p>Height                    min. 2.580 mm</p> <p><b><u>Electrical data</u></b></p> <p>Input voltage            400V / 3Ph +N</p> <p>Frequency               50 Hz</p> <p>Control voltage         24 V</p> <p>Preliminary fuse on site 3 x 16 A</p> <p><b><u>Further information</u></b></p> <p>Movement              manually with spec. equipment</p> <p>Noise level              approx. 59 dB(A) acc. to DIN 5045 (1m distance)</p> <p>Total weight            approx. 900 kg</p> <p>Subject to technical modifications.</p>
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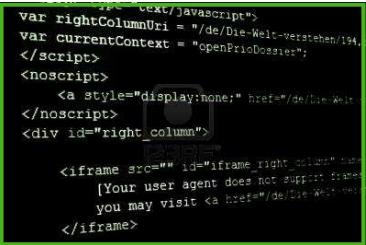

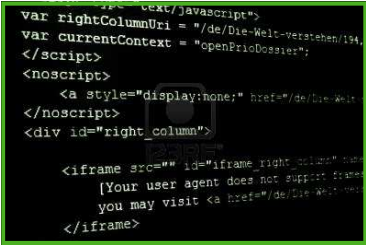

EDV-code	Description	Scope of delivery
<p>34311320</p> 	<p><b><u>Chute, pull down</u></b></p> <p>Chute pull down for an easier filling of the APS. The loading height will be reduced from approx. 1.890mm to 1.480mm. The safety distances are maintained through the foldable chute. This chute is made from aluminium and is supported by a gas spring.</p>	<p>chute, pull down</p>
<p>34311360</p> 	<p><b><u>Cover cap</u></b></p> <p>Cover cap on the APS which is mounted as a rain shelter.</p>	<p>cover cap</p>
<p>34311869</p> 	<p><b><u>Additional remote control</u></b></p> <p>Additional remote control with 5m cable.</p>	<p>remote control</p>



EDV-code	Description	Scope of delivery
<p>34311242</p> 	<p><b><u>Standard drum</u></b></p> <p>Compaction drum with special equipment for effective compaction of paper, cardboard or residual waste. The drum crushes, tears up and compacts the thrown in material by a continuous rolling movement. This special drum equipment can compact industrial waste, garbage, wooden boxes for fruits and vegetables and more and more!</p>	<p>Standard drum</p>
<p>34311340</p> 	<p><b><u>Special-drum double spikes</u></b></p> <p>Compaction drum equiped with double spikes for the compaction of the most types of plastic film or styrofoam. The drum crushes, tears up and compacts the thrown in material by a continuous rolling movement. On the backside of the gearbox is a cap installed. Two knives are fixed at the gearbox on the left and right side of the drum. The drum is also for compaction of material like hard plastics, waste of printing agency etc.!</p>	<p>Special drum</p>
<p>34311344</p> 	<p><b><u>Special-drum cross web</u></b></p> <p>Special drum for the compaction of Big-Bags, textile material or aluminium cans. The drum, equiped with steel cross beams, grip up and compacts the thrown in material layer by layer by a continuous rolling movement. Therfor it achieves optimal compaction results. The compaction drum is applicable for garbage in plastic bags, light package, Tetra Pak, cans, aluminium scap etc.!</p>	<p>Special drum</p>

EDV-code	description	scope of delivery
<p>34311349</p> 	<p><b><u>Special drum with spikes</u></b></p> <p>Compaction drum with spikes for effective compaction of strong material/waste. The drum crushes, tears up and compacts the thrown in material by a continuous rolling movement. This special drum can compact industrial waste, garbage, wooden boxes for fruits and vegetables, strong cardboard jackets, cardboard packaging, hard-plastic-waste, wood, light metal scrap, etc.!</p>	<p>Special drum</p>
<p>34311350</p> 	<p><b><u>Special drum convertible spikes</u></b></p> <p>Compaction drum with exchangeable spikes. The spikes are equipped with an adapter which are screwed on the compaction drum. This special drum crushes, tears up and compacts the thrown in material by a continuous rolling movement. The compaction drum is convenient for especially plastic bottles, foil with air cells, wooden boxes for fruits and vegetables, hard plastic waste, PVC-bottles, cardboard jackets!</p>	<p>Special drum</p>
<p>34311351</p> 	<p><b><u>Special drum middle rack</u></b></p> <p>Compaction drum equipped with middlejack and actuator plates. This special drum grip and compacts the thrown in material by a continuous rolling movement.</p> <p>The drum is convenient for compaction of trash bags, hospital/hotel waste at which the compaction material should not destroyed. On this way is the smell nuisance reduced!</p>	<p>Special drum</p>



EDV-code	Description	Scope of delivery
34311365	 <p><b><u>Water sprinkler (via main connection)</u></b> Water sprinkler for the connection to the main water supply.</p>	valves spray nozzle various equipment
34311366	 <p><b><u>Water sprinkler (via tank and pump)</u></b> Water sprinkling with tank (approx. 40l) and pump.</p>	tank pump spray nozzle various equipment
34311116	 <p><b><u>Ozone generator</u></b> Prevention of unpleasant odours and disinfection by means of the bactericidal, fungicidal and viricidal effect of ozone. Ozone is heavier as air and is generated without the need of operating resources from ambient air. After 20 minutes it will degrade to oxygen. The generator is adjustable from 0 to 200 mg/h.</p>	ozone generator various fixing material
34311356	 <p><b><u>Full signal via flashing light</u></b> An optical sign that advises the operator of the 100 % full signal.</p>	flashing light various electrical components

EDV-code	Description	Scope of delivery
<p>34311900</p> 	<p><b><u>Indication display on the machine for standard-PLC</u></b></p> <p>Indication of e.g. the following information:</p> <ul style="list-style-type: none"> <li>operating hours</li> <li>disturbance safety chain</li> <li>running time, reversing time</li> <li><b>optional</b> all information of sensors-packet A (s. EDV-Code 34 311 901)</li> </ul>	<p>external display</p>
<p>34311901</p>  	<p><b><u>Sensors packet A</u></b></p> <p>Prompts about the sensors which are connected to the control system, whereby disturbances, operating errors or operating information will be indicated.</p> <p>Information regarding the following:</p> <ul style="list-style-type: none"> <li>emergency stop button is activated</li> <li>motor protection function</li> <li>maintenance! greasing the gear</li> <li>indication accident prevention regulations „once a year“</li> </ul> <p><b><u>Please note:</u></b> <i>This sensors packet is available with the standard PLC-control and with the optional extendable PLC-control with LAN-connection!</i></p>	<p>sensors</p> <p>add-on programming</p> <p>various electrical equipment</p>
<p>34311902</p>  	<p><b><u>Sensors packet B</u></b></p> <p>Prompts about the sensors which are connected to the control system, whereby disturbances, operating errors or operating information will be indicated (e.g. „permanent indication of the filling level“).</p> <p>Additional information regarding:</p> <ul style="list-style-type: none"> <li>maintenance „lifting unit“</li> <li>indication of the current energy consumption</li> <li>Intelligent control system! The machine controls the filling level and the running time. If no change of the filling level will be registered (i.e. no material will be thrown in) the machine turns itself off automatically</li> </ul> <p><b><u>Please note:</u></b> <i>This sensors packet is ONLY available with the optional extendable PLC-control with LAN-connection (EDV-code: 34 311 903)!</i></p>	<p>sensors</p> <p>add-on programming</p> <p>various electrical equipment</p>

EDV-code	Description	Scope of delivery
<p>34311903</p> 	<p><b><u>Extended PLC-control with LAN-connection</u></b></p> <p>The PLC-control enables it to call up all information of the machine (see sensors packet A and B) through a web-connection in the home office or somewhere else. This function facilitates and reduces service operations and informs about operating condition of the machine. For the web-connection a power connection is required. The installation has to be done by an informatics-technician on site. The control has no display inside the control cabinet. The following information are visible respectively adjustable via the web-connection:</p> <ul style="list-style-type: none"> <li>• operating condition (off, standby, on)</li> <li>• energy consumption</li> <li>• times of the operating cycles (this is no longer possible on the machine)</li> <li>• permanent indication of the filling level</li> <li>• error safety chain</li> <li>• historic condition safe-keeping</li> <li>• <b>optional</b> all information of sensors-packet A</li> <li>• <b>optional</b> all Information of sensors-packet B</li> </ul>	<p>PLC-control with extendable functions but without integrated display</p>
<p>34311904</p> 	<p><b><u>Touchscreen-display for extended PLC-control with LAN-connection</u></b></p> <p>All time adjustments and functions of the machine can be started via the externally mounted touchscreen-display. This display also shows the operator the particular function as under EDV-code 34311903. In case of the optional available accessory sensors packet A respectively B those information are visible as well. The emergency stop button is according to conventional mechanical design.</p> <p><b><u>Please note:</u></b> <i>This touchscreen-display is <b>ONLY</b> available with the optional extendable PLC-control with LAN-connection!</i></p>	<p>touchscreen-display</p>



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