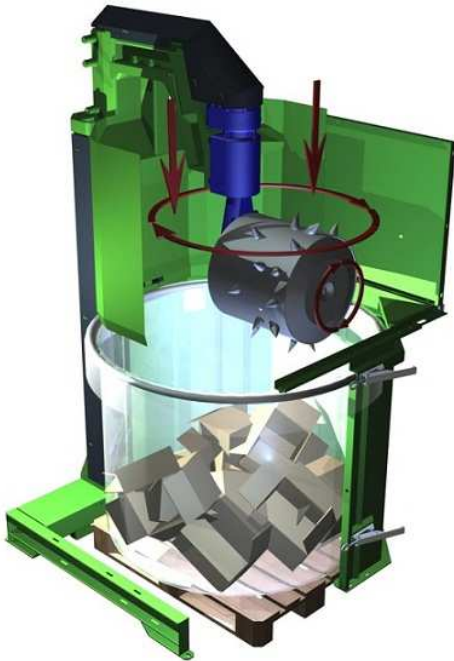




BERGMANN ROTO-COMPACTOR PS 1400-E

Typ 182

The principle of the BERGMANN Roto-Compactor PS 1400-E Typ 182



Idea and functional principle

The PS 1400-E Typ 182 (bag capacity of 1.400 litre) belongs to the electrically driven 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

Just add a euro-pallet or a one-way pallet (with similar measurements) to the stationary unit. In the second Step a 1.400 litre polythene sack will be inserted and the doors will be closed. 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!

Compaction in layers

The compaction takes place in a **1.400 litre PE-bag** statt. The compaction drum grabs the material in layers until the full signal will be initiated.

Solely in view of cartonnage a compaction weight between 300-400 kg will be attained. The PE-bag's share of foil attains a percentage share of only less than 1%. Therefore it fulfills the condition for further processing of the paper respectively the cartonnage.

Example:

of 10m³ make approx. **1,35m³=425kg cardboard!**



Result PS 1400-E with water sprinkling & 3,0 kW drive



Usage

The PS 1400-E Typ 182 is particularly suitable for recyclable material, such as paper, cardboard or similar packaging materials. The typical usage of this machine takes place in supermarkets, clothing stores, kiosks, but also in the industry, e.g. the packaging industrie.

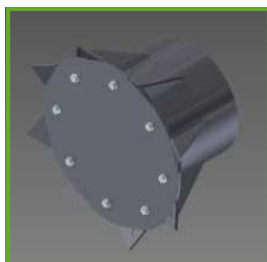
This machine can be filled optionally via chute or faceplate. If the machine will be installed in a high-rise building two possibilities for filling are available. On the one hand the machine could be filled by means of the chute from the ground floor. Apart from that a simultaneously filling from a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



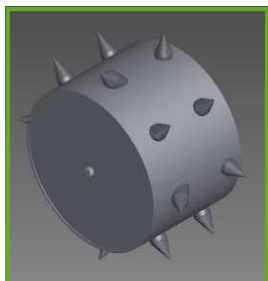
Safety

The Bergmann PS correspond to the European Machinery Directive CE and are equipped with the latest safety technology as standard. For example the doors are equipped with safety limit switches.

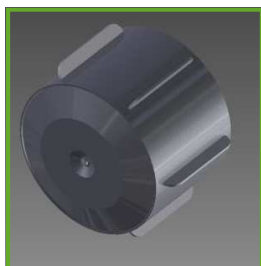




standard drum

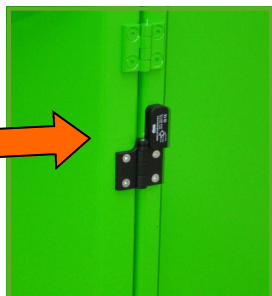


special drum with steel cones



special drum with parallel bars

safety limit switches
on the door



clear and simple control panel

More than 30 years of experience

From the individual gearbox through to the electrical steering the machine is based on the experience of more than 30 years. This experience is attributed to the different 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 1,5 kW motor. Optional is a **3,0 kW drive motor, higher output speed** (35 rpm instead 20 rpm) and **massive compaction drum** possible. This option increase the compaction results and decrease the compaction time. The lifting system is realize 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.

Safety limit switches on the door

Safety limit switches prevent the intervention into the security zone of the machine.

User-friendly

A solid PLC-control (incl. display) within the control cabinet takes over the control of the machine. The display makes it possible to read out the operating hours or change the running time of the machine. In addition to that various information will be indicated there. Optional it is possible to mount an additional 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 PS 1400-E Typ 182

Driving unit

Driving power

Compaction unit 1,5 kW / 1.400 U/min
optional 3,0 kW / 1.400 U/min

Lifting unit 1,1 kW / 1.400 U/min

Rotation speed drum approx. 22 U/min
optional 3,0 kW approx 35 U/min

Gear

Amount of gear oil

Main gear unit 1,0 litre

Angle 1,3 litre

Gear oil CLP acc. to DIN 51 517, part 3

Viscosity from 320 mm²/s at 40°C

Temperature range -10°C to +60°C

Hydraulic unit (Lifting)

Hydraulic oil

HLP 46 5,0 litre

Hydraulic oil HLP according DIN 51 524, part 2

Viscosity from 56 mm²/s at 40°C

Temperature range -10°C to +60°C

approx. dimensions (without options)

Width of the machine 1.200 mm

Depth of the machine 1.710 mm

Height of the machine 2.580 mm

Max. required space for handling

Width min. 1.330 mm

Height min. 2.580 mm

Electrical data

Input voltage 400 V / 3 Phases / 50 Hz **+N**

Frequency 50 Hz

Control voltage 24 V

Preliminary fuse on site 3 x 16 A

Further information

Movement manually with spec. equipment

Noise level approx. 59 dB(A) acc. to
DIN 5045 (1m distance)





Total weight approx. 930 kg



Subject to technical modifications.






EDV-code	Description	Scope of delivery
30310089	<p><u>Gear with 3,0 kW motor</u></p> <p>Gear motor with 3,0 kW power, massive compaction drum and higher drum speed (approx. 35 rpm). For continuous operation for strong material like multilayer cardboards, extremely strong boxes, etc.!</p> <p>By consistent filling of the Roto-Compactor, using of water spray system (approx. 15-25 liter/bale) the compaction result could be approx. 400-450 kg (cardboard bale approx. 1300-1400 liter)</p>	<p>3,0 kW motor</p> <p>Electrical components</p> <p>Massive drum</p>
30310320	<p><u>Chute, pull down</u></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>
50000392	<p><u>PE-bag 90µm, 1400 litre</u></p> <p>Transparent PE-bag with a capacity of 1400 litre and a thickness of 90µm. Available with 50 bags per one roll.</p>	<p>PE-bag</p>
30310869	<p><u>Additional remote control</u></p> <p>Additional remote control with 5m cable.</p>	<p>remote control</p>

EDV-code	Description	Scope of delivery
30310242	<p><u>Standard drum</u></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>	Standard drum
30310340	<p><u>Special-drum double spikes</u></p> <p>Compaction drum equipped 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>	Special drum
30310344	<p><u>Special-drum cross web</u></p> <p>Special drum for the compaction of Big-Bags, textile material or aluminium cans. The drum, equipped 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>	Special drum

EDV-code	Description	Scope of delivery
30310349	<p><u>Special drum with spikes</u></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>	Special drum
30310350	<p><u>Special drum convertible spikes</u></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>	Special drum
30310351	<p><u>Special drum middle rack</u></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. 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>	Special drum

EDV-code	Description	Scope of delivery
30310341 	<p><u>Knife equipment on the gearbox neck</u></p> <p>Additional knives on the gearbox neck which cut the material still more.</p>	knife equipment fixing components
30310360 	<p><u>Cover cap</u></p> <p>Cover cap on the APS which is mounted as a rain shelter.</p>	cover cap
30310356 	<p><u>Full signal via flashing light</u></p> <p>An optical sign that advises the operator of the 100% full signal. (picture shows flashing light mounted on the roof)</p>	flashing light various electrical components
30310116 	<p><u>Ozone generator</u></p> <p>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

EDV-code	Description	Scope of delivery
30310365	<p><u>Water sprinkler (via main connection)</u></p>  <p>Water sprinkler for the connection to the main water supply. The two lubrication spray valve are installed left and right side approach the compaction drum! This option increase the compaction weight of the bale. (approx. 15-20 liter water/bale increase the bale weight more than 100kg)</p>	<p>valves</p> <p>spray nozzle</p> <p>various equipment</p>
30310366	<p><u>Water sprinkler (via tank and pump)</u></p>  <p>Water sprinkling with tank (approx. 40l) and pump. The two lubrication spray valve are installed left and right side approach the compaction drum! (approx. 15-20 liter water/bale increase the bale weight more than 100kg)</p>	<p>tank</p> <p>pump</p> <p>spray nozzle</p> <p>various equipment</p>
30310439	<p><u>Additional emergency stop button</u></p>  <p>An additional emergency stop button on the frame of the machine gives additional safety if a second person recognizes danger.</p>	<p>additional emergency stop button</p>

EDV-code	Description	Scope of delivery
30310900 	<u>Indication display on the machine for standard-PLC</u> Indication of e.g. the following information: <ul style="list-style-type: none"> • operating hours • disturbance safety chain • running time, reversing time • optional all information of sensors-packet A (s. EDV-code 30 310 901) 	external display
30310901  	<u>Sensors packet A</u> Prompts about the sensors which are connected to the control system, whereby disturbances, operating errors or operating information will be indicated. Information regarding the following: <ul style="list-style-type: none"> • door limit switches left/right • emergency stop button is activated • motor protection function • maintenance! greasing the gear • maintenance! • indication accident prevention regulations „once a year“ <p><u>Please note:</u> <i>This sensors packet is available with the standard PLC-control and with the optional extendable PLC-control with LAN-connection!</i></p>	sensors add-on programming various electrical equipment
30310902  	<u>Sensors packet B</u> 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“). Additional information regarding: <ul style="list-style-type: none"> • maintenance „lifting unit“ • indication of the current energy consumption • Sensor for permanent filling level <p><u>Please note:</u> <i>This sensors packet is ONLY available with the optional extendable PLC-control with LAN-connection (EDV-code: 30 310 903)!</i></p>	sensors add-on programming various electrical equipment

EDV-code	Description	Scope of delivery
30310903	<p><u>Extended PLC-control with LAN-connection</u></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"> • operating condition (off, standby, on) • energy consumption • times of the operating cycles (this is no longer possible on the machine) • permanent indication of the filling level • error safety chain • historic condition safe-keeping • optional all information of sensors-packet A • optional all Information of sensors-packet B 	PLC-control with extendable functions but without integrated display
30310904	<p><u>Touchscreen-display for extended PLC-control with LAN-connection</u></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><u>Please note:</u> <i>This touchscreen-display is ONLY available with the optional extendable PLC-control with LAN-connection!</i></p>	touchscreen-display



BERGMANN
Machines for Waste Management
Von-Arenberg-Straße 7
49762 Lathen
Tel. +49 5933 955-0
Fax. +49 5933 955-294
info@bergmann-online.com