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MATERIAL SUBMITTAL

Hydraulic Compactor

Ostermeier HVC 600, chute-fed, with 1.1 m³ collection container

MANUFACTURER	Ostermeier FZE, Jebel Ali, Dubai, UAE
MODEL	HVC 600, top loaded (bottom loading available)
REVISION	Rev. 1
MANUFACTURER DATA	Datasheet issued 25.9.2026
SUBMITTED BY	CENTRA | Building Systems Machinery & Equipment Co.

SUBMITTAL INFORMATION

Project & **Team**

Project	
Client / Employer	
Consultant	
Main Contractor	
Submittal No.	
Specification Section	
Product	Hydraulic compactor HVC 600 (1 no.)
Manufacturer	Ostermeier FZE, P.O. Box 61378, Jebel Ali, Dubai, UAE
Manufacturer data	Ostermeier FZE datasheet, issued 25.9.2026
Supplier	CENTRA | Building Systems Machinery & Equipment Co., Riyadh

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CONSULTANT'S REVIEW

- ☐ A – Approved
- ☐ B – Approved as noted
- ☐ C – Revise & resubmit
- ☐ D – Rejected

Reviewed by _____

Signature _____

Date _____

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01

PRODUCT INTRODUCTION

Material Submittal | Hydraulic Compactor HVC 600

01 INTRODUCTION

Product **Introduction**

216 kN	4 : 1	12–16 m³/h	5.5 kW	1.1 m³
Compaction force	Compaction ratio	Handling capacity	Motor, 3-phase	Collection container

The Ostermeier FZE HVC 600 is a hydraulic compactor placed under the garbage chute in the ground floor collection room. It consists of a hydraulic power pack, an inlet hopper, a charging box, a compaction ram and a discharge outlet with a pressure (face) plate.

The compactor works on the extrusion principle. Waste from the chute falls through the hopper into the charging box. When the charging box is full, a photoelectric cell at its entry starts the ram. The ram pushes the waste through the constricted discharge outlet against the pressure plate, reducing its volume before it drops into the 1.1 m³ collection container.

The unit runs automatically and continuously, started by the light barrier. It is mounted on castors for easy movement and cleaning of the room. Where the ceiling height is limited, a bottom loading version is available, hooked directly to the container.

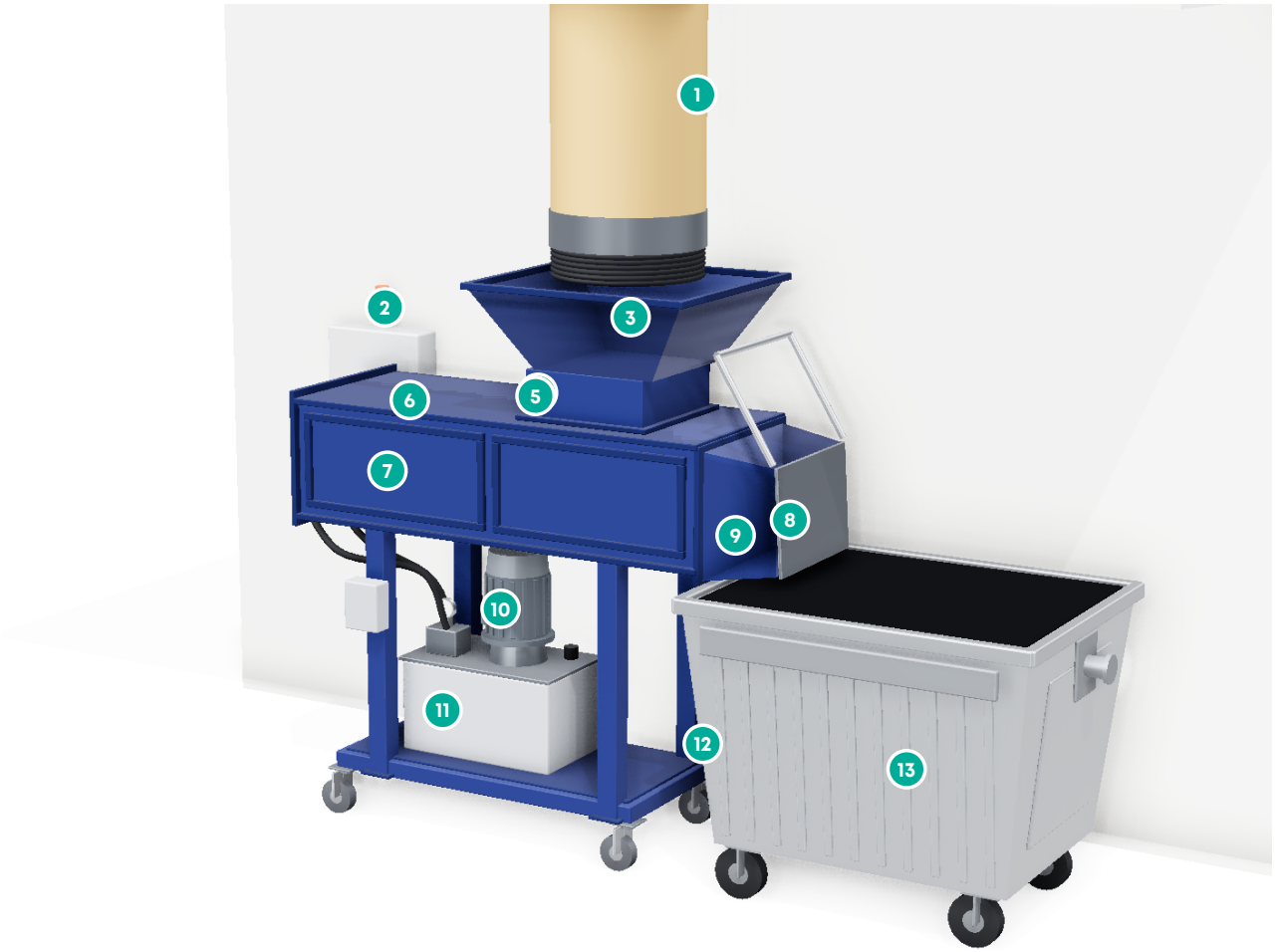
INTERFACE BY OTHERS

Power supply to the compactor panel (3-phase, 380 V, 32 A, 5 × 4 mm² cable), the drain point for the compactor drain hose, and the room finishes are by the main contractor.

SYSTEM OVERVIEW

How the compactor **works**

Waste from the chute drops into the hopper, is pushed by the hydraulic ram through the discharge outlet, and falls compacted into the 1.1 m³ container.



1. **Garbage chute**
   Ø600 mm, discharges into the hopper
2. **Three-colour status light**
   Running / warning / fault
3. **Inlet hopper**
   Made to suit the chute outlet
4. **Photo-electric cell**
   Starts the ram when the charging box is full
5. **Charging box**
   Receives waste under the hopper
6. **Control panel**
   Manual / auto, PLC control
7. **Compaction chamber**
   Ram inside; 16 mm floor plate
8. **Pressure (face) plate**
   Waste is compacted against it
9. **Discharge outlet**
   Constricted outlet, extrusion principle
10. **Electric motor**
    5.5 kW, ABB / Siemens
11. **Hydraulic power pack**
    14 L/min pump, on the frame
12. **Drain hose**
    To the floor drain
13. **Collection container**
    1.1 m³ steel container

Illustrative 3D view based on the Ostermeier HVC 600 general arrangement drawing.

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02

TECHNICAL SPECIFICATION

Material Submittal | Hydraulic Compactor HVC 600

02 SPECIFICATION

Technical **Specification**

GENERAL	
Manufacturer	Ostermeier FZE, Jebel Ali, Dubai, UAE
Model	HVC 600, top loaded type (bottom loading version available)
Principle	Extrusion: ram pushes waste through a constricted outlet against a pressure plate
Mounting	Wheel-mounted frame, castors

PERFORMANCE	
Compaction force	216 kN continuous (bottom loading drawing: 250 bar or 219 kN)
Compaction ratio	4 : 1
Cycle time	45 s (bottom loading drawing: 30 s)
Handling capacity	12–16 m³ per hour

CHARGING BOX & CHAMBER	
Charge box dimension	500 × 500 × 600 mm (see note 1)
Chamber width height	600 × 500 mm
Ram height	450 mm
Plates	Floor 16 mm, ram face 16 mm, chamber side 6 mm, ram top 6 mm, hopper 4 mm

HYDRAULICS	
Power pack	Mounted within the compactor frame (standalone on request)
Pump rate	14 litres / min
Hydraulic cylinder	100 mm bore, 50 mm rod, 760 mm stroke

ELECTRICAL & CONTROLS	
Motor	5.5 kW, ABB / Siemens (India)
Supply	3-phase, 380 V, 50 Hz, 32 A; supply cable 5 × 4 mm²
Control	Automatic by light barrier, continuous; Manual / Auto switch
Components	PLC OMRON; photo-eye AUTONICS; limit switch Schneider / OMRON; buttons Schneider; panel Schneider / Siemens

DIMENSIONS	
Top loaded	Length 2,140 mm; height to top of body 1,740 mm; underside of body 1,240 mm
Bottom loaded	Length 2,150 mm; body height 800 mm
Collection container	1.1 m³ steel container

NOTE 1 | TO BE CONFIRMED BY OSTERMEIER

The charging box size is given differently in the manufacturer documents: 500 × 500 × 600 mm (datasheet), 500 × 500 × 650 mm (top loaded drawing) and 600 × 600 mm or Ø600 (bottom loading drawing). The final size will follow the approved shop drawing.

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03

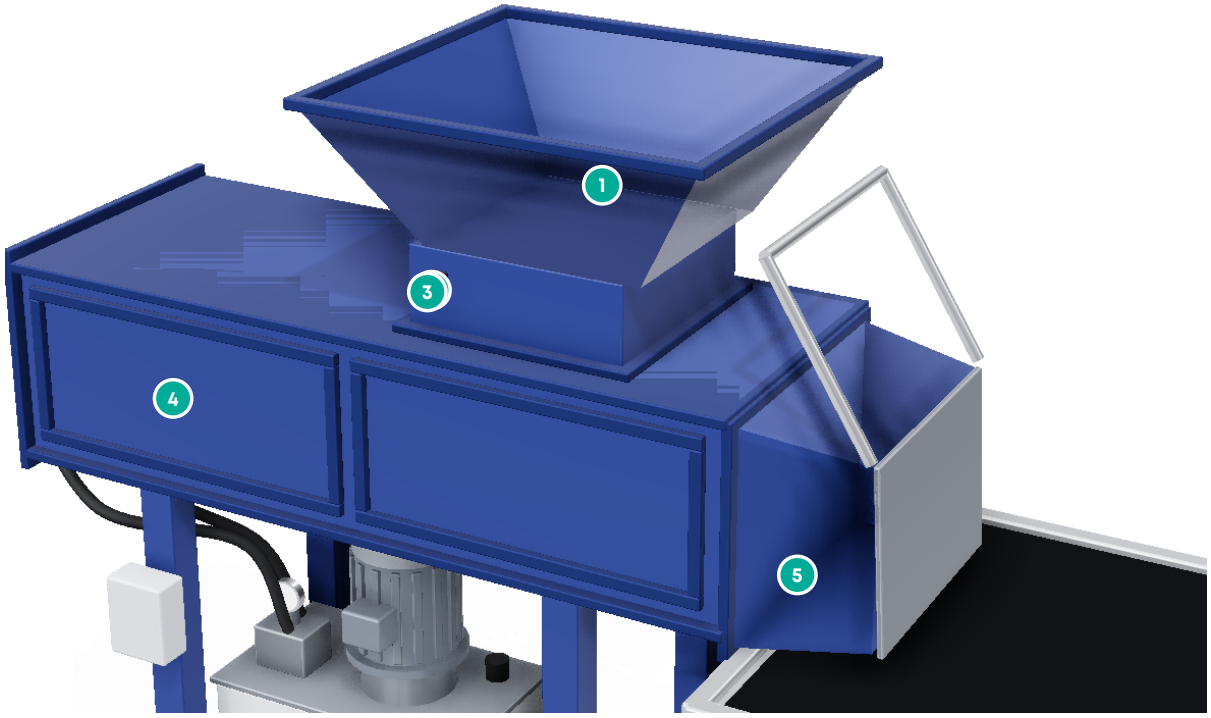
TECHNICAL DETAILS

Material Submittal | Hydraulic Compactor HVC 600

3.1 HOPPER & CHARGING BOX

Hopper & **Charging Box**

The hopper receives waste from the chute and guides it into the charging box. A photo-electric cell at the charging box entry senses when the box is full and starts the compaction cycle.



1. **Inlet hopper**
   Top fed; made to suit the chute and site
2. **Photo-electric cell**
   AUTONICS; starts the ram automatically
3. **Charging box**
   500 × 500 mm opening (see note 1, page 08)
4. **Compaction chamber**
   600 × 500 mm; 6 mm side plates
5. **Discharge outlet**
   Leads to the collection container

TECHNICAL DATA

Feed	Top feed from the chute
Hopper plate	4 mm
Charge box	500 × 500 × 600 mm (datasheet)
Start	Photo-electric cell at the charging box entry

KEY FEATURES

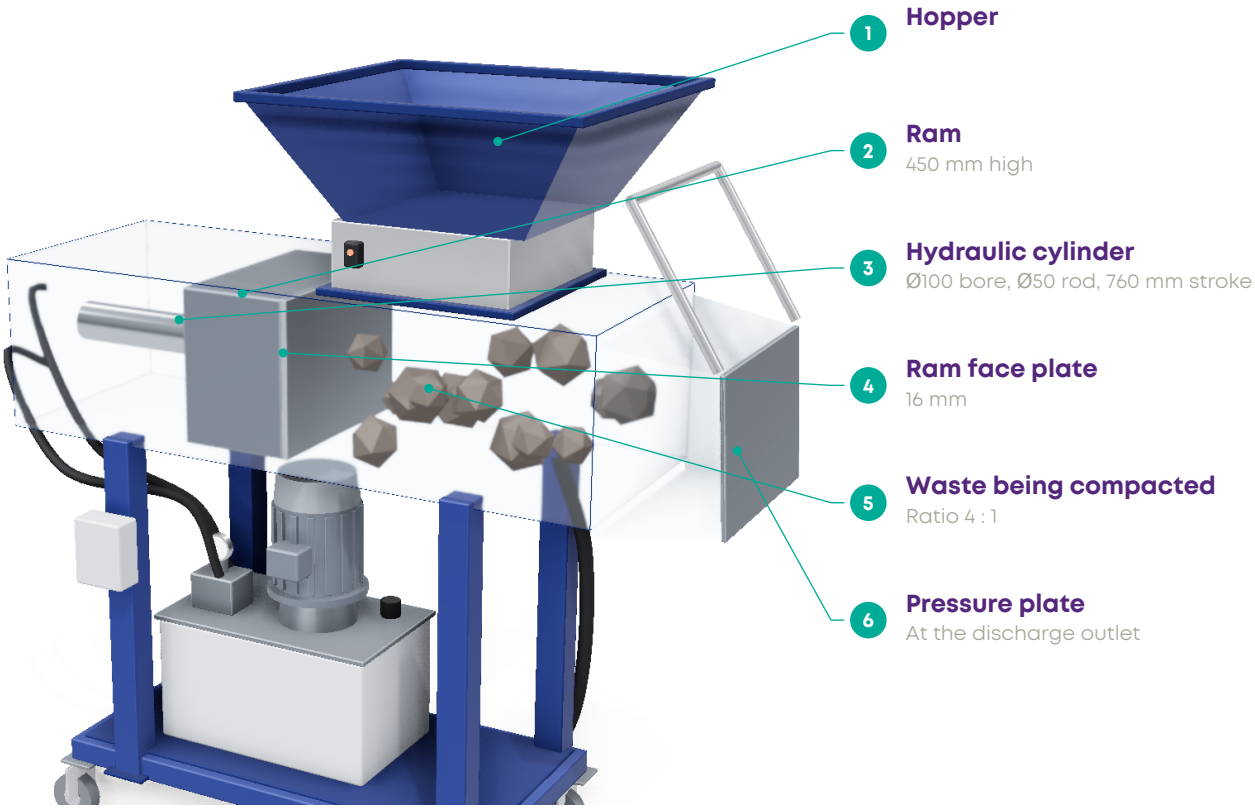
- **Bulky items**
  Large top opening accepts bulky bags.
- **Site fit**
  Hopper made to suit the chute outlet and the room.

Illustrative 3D view based on the Ostermeier HVC 600 datasheet and general arrangement drawing.

3.2 COMPACTION RAM

Ram & **Compaction**

The hydraulic ram pushes waste from the charging box through the constricted outlet against the pressure plate. The heavy ram plate, hinged at the face, also gives a prepress action. Chamber shown transparent.



COMPACTION CYCLE

01
Box fills
Waste from the chute fills the charging box.

02
Photo-eye starts
The light barrier detects a full box and starts the ram.

03
Extrusion
The ram pushes waste through the outlet against the pressure plate.

04
Return
The ram returns and stops, ready for the next cycle.

TECHNICAL DATA

Compaction force	216 kN continuous
Compaction ratio	4 : 1
Cycle time	45 s
Ram face plate	16 mm
Floor plate	16 mm

KEY FEATURES

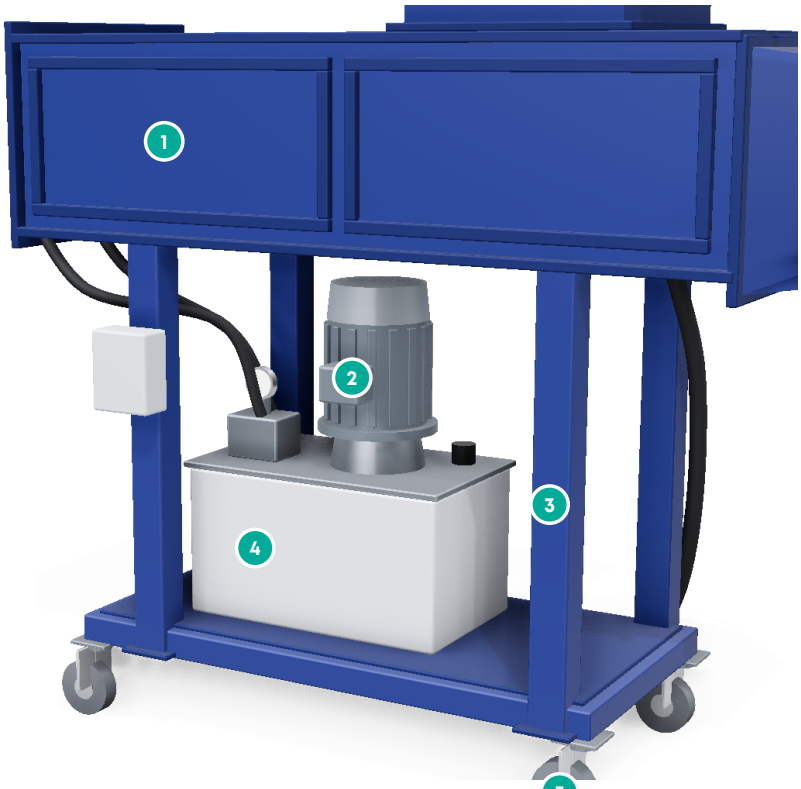
- **Prepress**
  The heavy ram plate, hinged at the face, gives a prepress action.
- **Extrusion**
  Waste is compacted against the pressure plate in the outlet, reducing its volume about four times.
- **Heavy duty**
  16 mm floor and ram face plates.

Illustrative 3D view based on manufacturer data.

3.3 HYDRAULIC POWER PACK

Hydraulic **Power Pack**

The hydraulic power pack sits on the shelf of the compactor frame. The electric motor drives the pump, which feeds the ram cylinder through the valve block.



1. **Compaction chamber**
   Above the power pack
2. **Electric motor**
   5.5 kW, 3-phase, ABB / Siemens (India)
3. **Frame**
   Painted steel, on castors
4. **Oil tank & pump**
   Pump rate 14 L/min
5. **Castors**
   For easy movement

TECHNICAL DATA

Motor	5.5 kW, 3-phase, 380 V, 50 Hz
Motor make	ABB / Siemens (India)
Pump rate	14 litres / min
Cylinder	100 bore, 50 rod, 760 stroke
Arrangement	Built into the frame; standalone on request

KEY FEATURES

- **Compact**
  Mounted within the compactor frame when supplied with the chute.
- **Standalone option**
  A standalone power unit can be provided on request.

Illustrative 3D view based on the Ostermeier HVC 600 datasheet and general arrangement drawing.

3.4 DISCHARGE

Discharge & **Collection**

Compacted waste leaves through the constricted discharge outlet and drops into the 1.1 m³ steel collection container, which is wheeled away when full.



1. **Charging box**
2. **Pressure (face) plate**
   Hinged, at the outlet end
3. **Discharge outlet**
   Constricted outlet
4. **Power pack**
   On the frame shelf
5. **Collection container**
   1.1 m³ steel, on castors

TECHNICAL DATA

Container	1.1 m³ trolley
Discharge	Directly into the container
Drain	Flexible hose to drain connection

KEY FEATURES

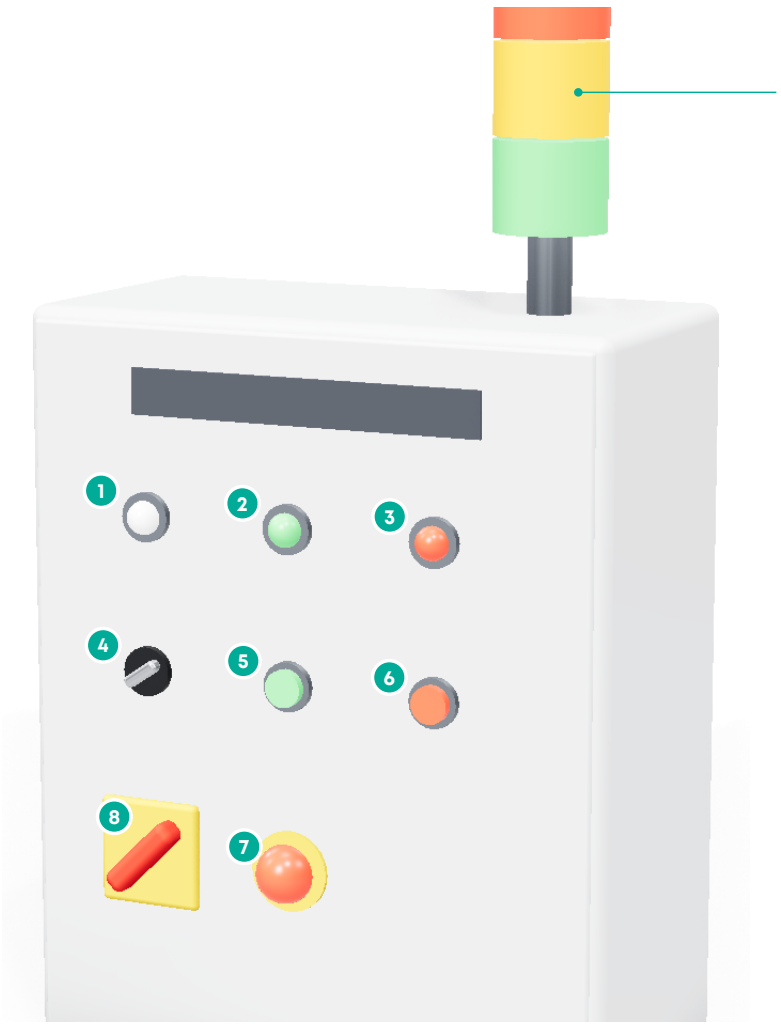
- **Direct discharge**
  Waste drops straight into the container; no transfer needed.
- **Container options**
  Steel or HDPE containers can be offered to suit the room.

Illustrative 3D view based on the Ostermeier HVC 600 datasheet and general arrangement drawing.

3.5 CONTROLS

Control **Panel**

The compactor runs automatically, started by the light barrier, with a Manual / Auto switch for service. A three-colour status light shows the operating state.



STATUS LIGHT

Green: running | Amber: warning | Red: fault

PANEL FRONT

1. Power on
2. Running
3. Motor overload / timeout alarm
4. Manual / Auto switch
5. Start (single stroke)
6. Stop
7. Emergency stop
8. Main isolator

COMPONENTS

PLC	OMRON, Japan
Photo-eye	AUTONICS, Korea
Limit switch	Schneider or OMRON
Buttons & switches	Schneider
Panel accessories	Schneider or Siemens

OPERATION

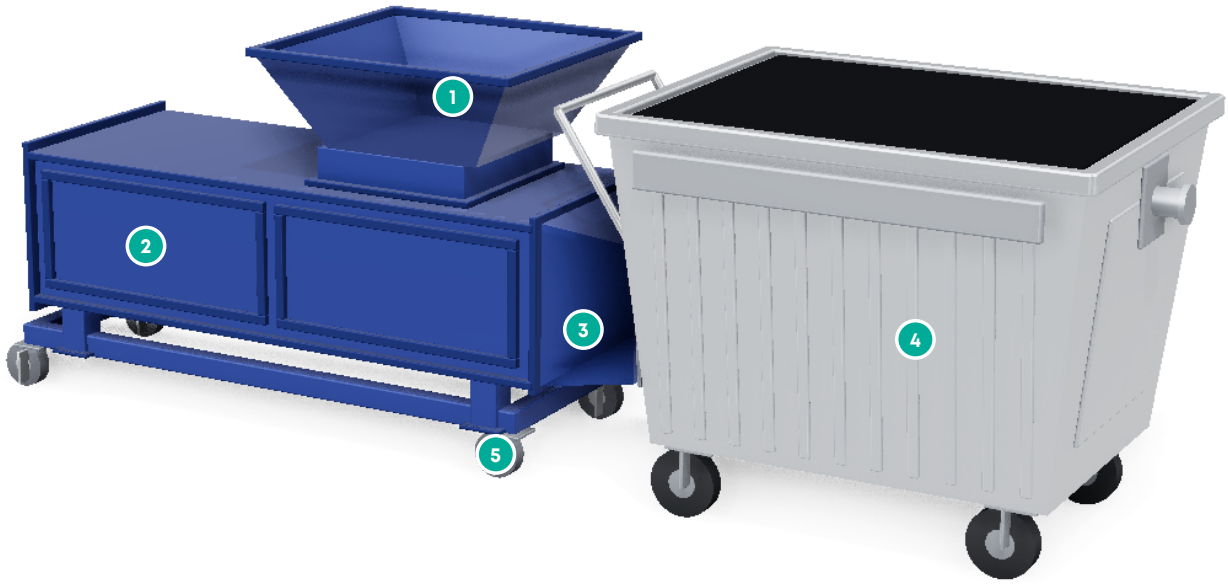
- **Automatic**
  Started by the light barrier; runs continuously.
- **Safety interlock**
  Photo-eye control with safety interlock; automatic shut-off after each cycle.
- **Alarm**
  Motor overload / timeout alarm light.

Illustrative panel; final layout per the manufacturer panel drawing.

3.6 BOTTOM LOADING VERSION

Bottom Loading **Compactor**

Where the collection room has a low ceiling, Ostermeier offers a bottom loading version. The body is only 800 mm high and the container is hooked directly to the outlet.



1. **Low hopper**
   Under the chute outlet
2. **Compactor body**
   Height 800 mm
3. **Outlet**
   Hooked to the container
4. **Collection container**
   1.1 m³ trolley
5. **Castors**

TECHNICAL DATA

Length	2,150 mm
Body height	800 mm
Charging box	600 × 600 mm or Ø600; 500 L
Compaction force	250 bar or 219 kN
Cycle time	30 s
Power	3-phase, 16 A
Control	Automatic by light barriers; single stroke by push button

KEY FEATURES

- **Low ceilings**
  Proposed wherever a short ceiling height is noted.
- **Trolley hooks**
  The container is tied to the compactor with hooks.

Illustrative 3D view based on the Ostermeier HVC 600 datasheet and general arrangement drawing.

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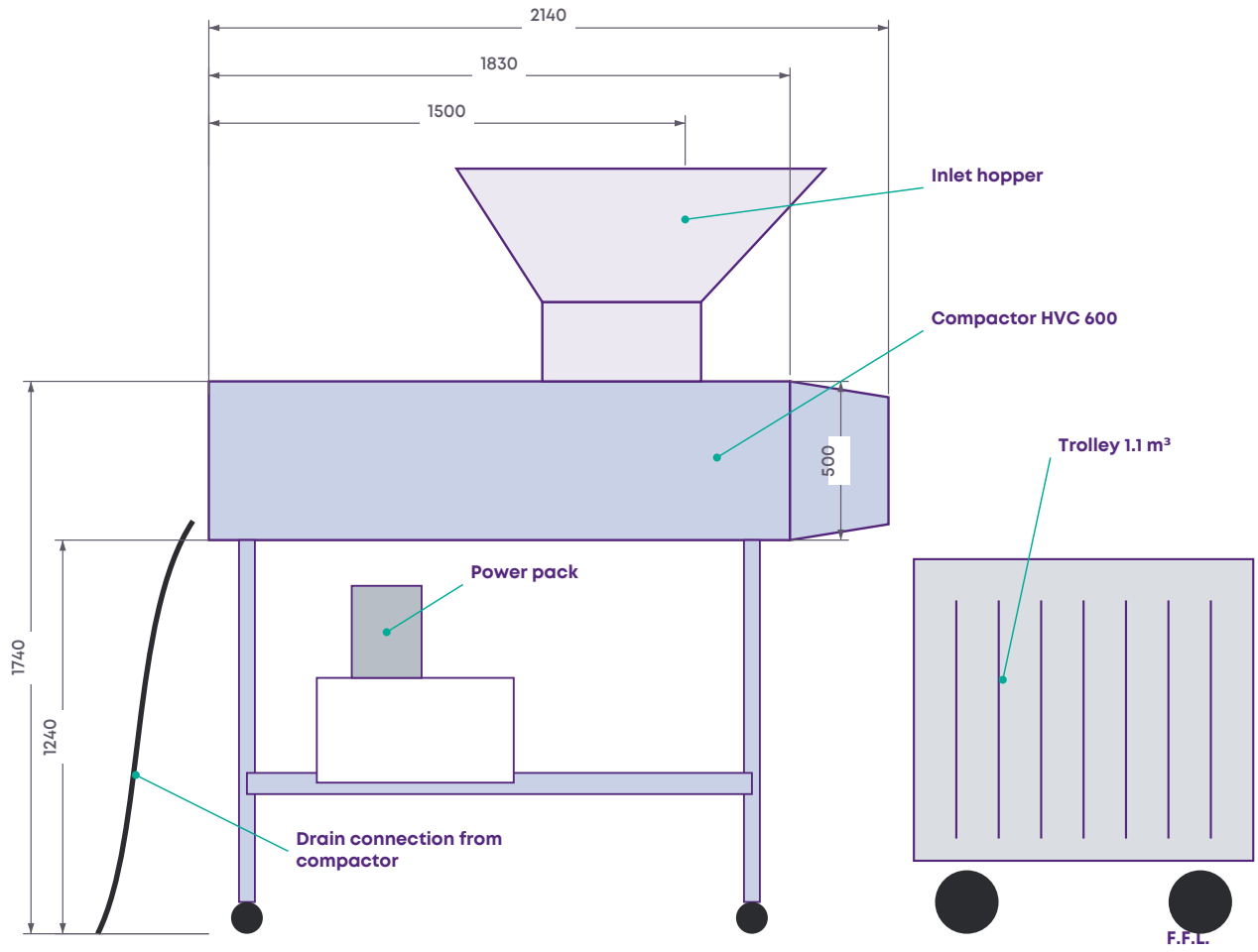
04

APPENDIX A

Material Submittal | Hydraulic Compactor HVC 600

APPENDIX A | TECHNICAL SHEET 1

General Arrangement | Top Loaded



MECHANICAL

Charging box	500 × 500 × 650 mm (drawing)
Compaction force	216 kN continuous
Cycle time	45 s
Handling capacity	16 m³ / hour

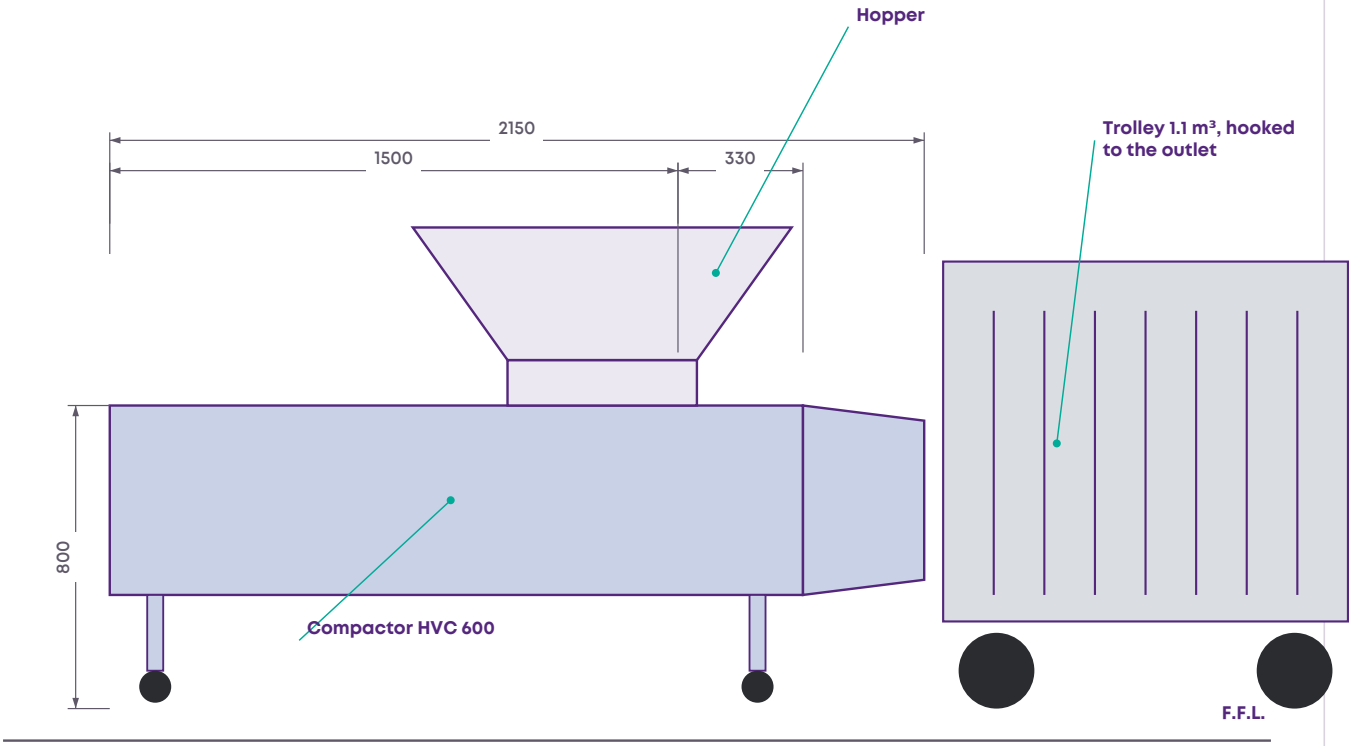
ELECTRICAL & HYDRAULIC

Motor	5.5 kW
Supply cable	5 × 4 mm²
Voltage	380 V / 3-phase / 50/60 Hz
Pump rate	14 L / min
Power	32 A
Control	Automatic by light barrier, continuous

SHEET	ITEM	MATERIAL	SUPPLIED BY	SCA	SOURCE
A-1	**Compactor HVC 600, top loaded type**	Steel body and frame, painted	Ostermeier FZE	NTS	Ostermeier FZE GA drawing

APPENDIX A | TECHNICAL SHEET 2

General Arrangement | Bottom Loading



MECHANICAL	
Charging box	600 × 600 mm or Ø600
Box capacity	500 litres
Compaction force	250 bar or 219 kN
Cycle time	30 s

ELECTRICAL	
Power	3-phase, 16 A
Control	Automatic by light barriers; single stroke by push button

SHEET	ITEM	MATERIAL	SUPPLIED BY	SCA	SOURCE
A-2	**Compactor HVC 600, bottom loading type**	Steel body and frame, painted	Ostermeier FZE	NTS	Ostermeier FZE GA drawing

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