

**PRIMA**

Recycling technology

Process integration or standalone installation

compaction of large volume quantities

Conveyor technology

**Horizontal baling presses**

Process integration or standalone installation

Multifunction expansion system

**Horizontal bali**

Multifunction

Compaction of large volume quantities

# Horizontal baling press

Series

# PRIMA

## Robust and efficient

PRIMA series channel baling presses are used for the compaction of large volume quantities of recyclable materials of different fractions into firm, shape-retaining bales with a marketable bale weight.

The robust construction of the machine series guarantees high quality of use.

Feeding can be performed manually or with a wide variety of conveyor technologies. Constructed according to the standard requirements of the new Machinery Directive, and equipped with a PLC (Siemens S7), the PRIMA is optimally prepared for all application requirements. There is also a wide range of functional extensions for the PRIMA. Later optional adjustments have already been taken into consideration in the basic configuration of the machine.

## Time & cost advantages

PRIMA channel baling machines are quick to install and can be integrated into work processes in the short term.

Quick setup time with wire insertion, quick and safe repairing of cracked wires outside of the machine, quick cleaning due to enlarged base frame, time- and cost-saving machine maintenance and servicing options.

## Versatile customisation options

- Oil cooling/heating
- Pre-press flap
- Big-screen display for bale length
- Optional individual outlet hopper
- Material distributor (Wirbulator), e.g for use in print shops
- Elevating conveyor with feeding hopper (sliding belt) in underground and aboveground variants
- 3-time automatic/hydraulic channel adjustment
- Can be combined with upstream shredder
- Approved additional conveying technology
- Feeding conveyor/elevating conveyor (chain belt)

TECHNICAL DATA	PRIMA 60	PRIMA 80
Drive power	15 kW	37 kW
Pressing force	600 kN/ 60 t	800 kN/ 80 t
Material throughput *max.	5 t/ h	12 t/ h
Time per operating cycle	25 sec.	19 sec.
Throughput volume*	approx. 100 m <sup>3</sup> / h	approx. 250 m <sup>3</sup> / h
Specific compaction force	78 N/ cm <sup>3</sup>	92 N/ cm <sup>3</sup>
Operating pressure	250 bar	250 bar
Electrical connection	3x400 V, N, PE/ 50 Hz	3x400 V, N, PE/ 50 Hz
Control voltage	24V DC	24V DC
Channel adjustment	vertical/ automatic	vertical/ automatic
Setting	4 times vertical automatic	4 times vertical automatic
Bale weight*	up to 500 kg	up to 600 kg
Bale length	adjustable	adjustable
Bale size	B x H: 1,100 mm x 700 mm	B x H: 1,100 mm x 700 mm
Filling hopper cross section	B x L: 1,200 mm x 1,100 mm	B x L: 1,200 mm x 1,100 mm
Machine height	3,575 mm	3,575 mm
Machine width	2,155 mm	2,155 mm
Machine length	8,300 mm	8,300 mm
Empty weight (net)	approx. 10,500 kg	approx. 16,000 kg

\* depending on material

Volume to bulk density	PRIMA 60	PRIMA 80
35 kg/m <sup>3</sup> department store goods/paper and board	4,5 t/ h	6,5 t/ h
60 kg/m <sup>3</sup> mixed goods	7,0 t/ h	11,0 t/ h
100 kg/m <sup>3</sup> collected waste	10,0 t/ h	16,0 t/ h

\* depending on material

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## **Body/ base frame**

- Highly torsion-resistant body designed for pressures of up to 1,000 kN/ 100 t
- Maintenance-friendly and service-friendly basic construction

## **Hydraulics**

- Intelligent, compact hydraulic block
- Valve lock during setting; the hydraulic oil flows only in the tank circulation, no pump pressure
- Operation in overdrive and low gear (differential circuit)
- No pressure valves at the front and back for channel adjustment
- Quiet hydraulic pump (72 dB)

## **Press operation**

- Easy cleaning of the machine thanks to elevated feet (400 mm)
- Protected wire guides in pipe ducts
- Precise ram guidance due to adjustable Teflon guides
- Automatic cutting edges free rammer
- Short bale chute can be used as a backing plate for startup

## **Setting**

- Automatic 4-times vertical setting
- Wire shredders outside of the machine are eliminated, not in the pressing channel
- Increased safety and considerable time savings

## **Control**

- Simple and logical operation
- Digital Siemens S7 (PLC)
- Optional parameter retrieval via GPRS
- Optional remote maintenance/remote access

## **Maintenance/ service**

- Fast adjustment of the cutting blade (5 times individually replaceable)
- Wearing parts are quickly and easily replaceable
- Maintenance of the cylinder and the pressing plate from the rear is possible

**Hydraulics**  
Quiet hydraulic pump (72 dB), intelligent hydraulic block, easy-maintenance design

**Free rammer**  
Automatic cutting-edges free rammer

**Setting**  
Automatic, vertical, 4-times setting with convenient wire guidance. Wire pullers are eliminated outside of the machine, not in the baling channel. Increased safety and considerable time savings

**Maintenance/ service**  
Maintenance of the cylinder and baling plate possible from the rear

**Body/ base frame**  
Highly torsion-resistant base frame with basic construction that is easy to maintain and service

**Cutting knife**  
5x individually disassembled and replaceable

**Control**  
Control panel with S7 PLC

**Cleaning**  
Raised feet and easy-to-service design facilitate cleaning



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