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HVS-400
Horizontal form, fill,
and seal baler

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The **HVS-400** is a horizontal baler designed to package compressible bulk products such as natural fibres like wood shavings, cellulose, or materials with similar characteristics. Finished bale compression ratios can be as high as 6:1, depending on product characteristics and the customer's requirements. The system produces hermetic bales of very high quality. The compression chamber is fed by two feed screws. A vertical ram plate then pre-compresses the product. As the product enters

the second stage, a cylinder ram compresses it horizontally to its finished packaging size. When the product is ready for ejection, the compression chamber entry gate opens and the compressed material is pushed through the spout into the prepared bag. While the product is being ejected, the flat film is pulled through a bag former to make the next bag. The finished bag is then sealed at the same time as the back and bottom of the next bag.

Applications

The HVS-400 is designed to package compressible bulk products such as natural fibres like **wood shavings**, **cellulose**, or materials with similar characteristics.



Features and benefits

- Significant savings in packaging materials due to the use of flat film instead of pre-made bags
- Densification ratio up to 6:1 thus reducing packaging material and shipping costs
- Robust and simple construction including heavy-duty quality components
- No plastic waste to handle
- Complete hydraulic system with low-noise piston pumps
- Proportional hydraulic valve for smooth operation
- Dust collection ports strategically located for clean and dust-free operation
- Very long operating autonomy, with 30" diam. roll of film (approx. 6000 bales)
- Easy film loading and splicing for optimum operating efficiency
- Low-film detector automatically stops machine
- High performance sealer with temperature controller and pneumatic film-cutting module
- Allen Bradley CompactLogix control system installed in a NEMA 12 (IP 55) cabinet
- DeviceNet connectivity, allowing for easy wiring, commissioning and troubleshooting
- User-Friendly PV 600+ color touch screen interface, with comprehensive adjustment and troubleshooting



Production rate

Up to **7 BPM***

* Depending on product characteristics, method of feeding, bag size and thickness, etc.

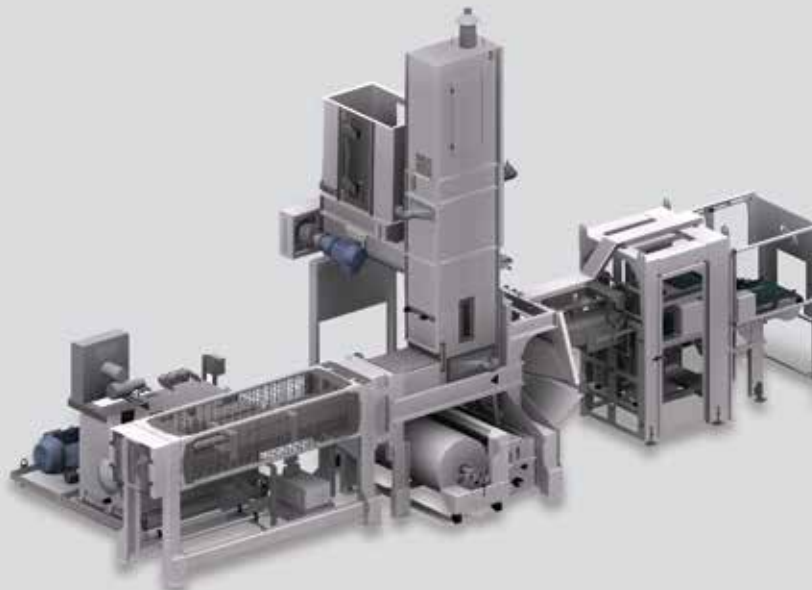
Technical data

Typical equipment dimensions:	Length: 411" (10449 mm) Width: 194" (4940 mm) Height: 248" (6304 mm)
Bag specifications**:	Heat sealable polyethylene flat film (registered print with I-mark or random print) Face width: 15" to 18.5" (380 mm to 470 mm) Gusset: 7.75" to 14.875" (197 mm to 378 mm) Length: 20" to 31.5" (510 mm to 800 mm) Maximum gusset + bag length: 43.5" (1100 mm) Thickness: 2.5 to 6 mils (64 µm to 152 µm) Film width: Maximum 70" (1778 mm) Film roll diameter: Up to 30" (760 mm)
Compression ratio***:	Up to 6:1
Dust collecting requirements:	3500 scfm @ 10" H ₂ O at baler connections
Air consumption:	Up to 26 scfm @ 100 PSIG (740 L/s @ 7 bar) (100 m ³ /min @ 250 mm H ₂ O)
Electrical requirements****:	460V / 3 Ph / 60 Hz/
Ambient temperature:	40°F to 95°F (5°C to 35°C)

** The machine is designed for one single bale module.

*** Compression ratio is dependent on product characteristics, method of feeding, bag size and thickness, etc.

**** Other voltages available, amperage to be confirmed



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