

Bollegraaf



HBC 110 **Baler**

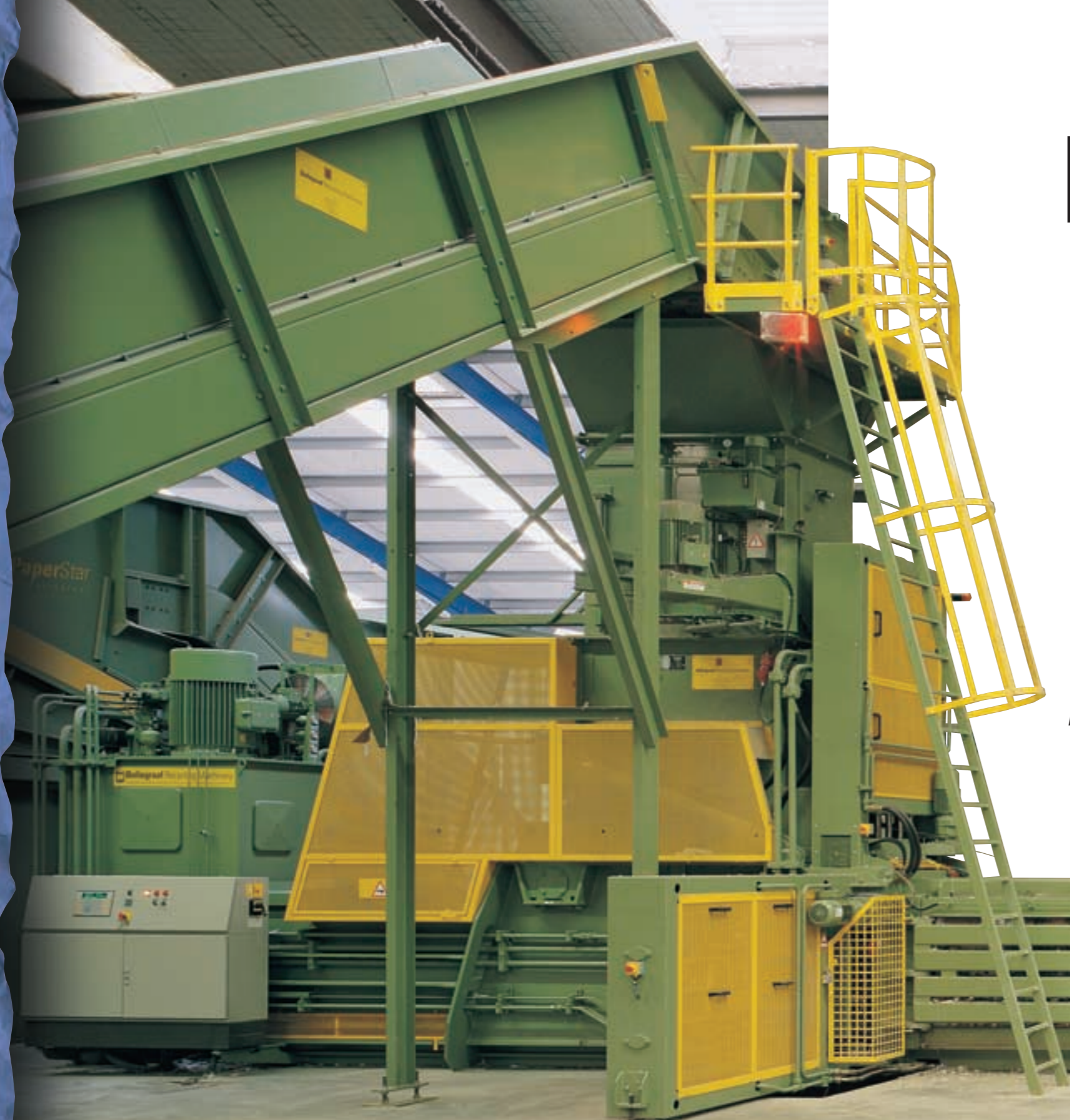


Bollegraaf. Big in making recyclables small.

HBC 110 Baler

Minimizes Handling through Optimal Bale Format

The HBC 110 is used for the processing of large quantities of waste paper or other wastes into uniformly sized bales. The favourable bale size guarantees the most efficient use of container transport and a minimum of handling. The HBC 110 achieves its great processing capacity using only modest motor power. The variable costs are scarcely higher than for a baler with a small bale height, but the capacity is approximately 40% higher.



Needle Head

Pre-Press Flap

The HBC 110 is equipped with a large quadrant-shaped pre-press flap. This allows optimal filling so that high capacity can be achieved at low motor power. The result is the formation of compacted, homogeneous bales. The pre-press flap makes the shearing of material unnecessary, so the question of replacing expensive cutter strips or blades never arises.



Hydraulic Cylinders

Patented Needle Heads

The HBC 110 is equipped with patented RotoClean needle heads which have a self-cleaning design and are therefore maintenance-friendly.

Hydraulic Cylinder

The universal joint suspension of the cylinder means no axial loads can occur. This prevents wear on the seals and guides and contributes greatly to a long service life.

Maximum Speed at Low Motor Power

The hydraulic unit is highly efficient and the ram cylinder has a differential travel when the compression force is not required. The piston rod has a larger diameter than that of a standard cylinder. These adjustments ensure that maximum travel speed is guaranteed for the ram cylinder at low motor power. The level and temperature of the hydraulic oil are monitored electronically.

Flexible Pre-Press Flap

During the return travel of the ram cylinder the pre-press flap opens simultaneously. This too ensures maximum baler speed at low power consumption. The cylinders are suspended in tension so that the pre-press flap can never jam. Sufficient compression force is available to open the flap, thereby eliminating the need for intervention.

Low-Noise Pump

The internal ring gear pumps are Swiss made and are part of the lowest noise pumps in the world.

Wear-Resistant Ram

The wheels of the ram are supported in bearings, thus ensuring minimal wear on the guides. This contributes to the HBC 110's long service life and low maintenance costs.

PLC

The electrical functions of the HBC 110 are controlled by the PLC. This ensures a trouble-free course of the production process. The HBC 110 is equipped with a control panel which indicates any faults in the production process. So a fault can easily be located.



Fully-automatic PLC control ensures a trouble-free baling process.



We provide our hydraulic balers with an AS interface (AS-I bus) to ensure better control of our machines. This AS interface is used to read the data collected by the sensors during the production process.



Tailor-made work of a high standard. The high-quality machines are designed by our specialists using an extensive network of CAD stations. The steel plate parts are flame cut by a CNC-controlled flame cutting machine. The combination of know-how and technological skills produces high standard tailor-made work.



Optimal use of loading space. Speeding up loading and unloading. The HBC 110 is calculated to achieve this.



HBC

Five Options for Specific Requirements



◀ TurboPress (Patented)

The capacity of the HBC 110 can be greatly increased by the TurboPress. This results in faster and more economical operations. The TurboPress compacts the material in the feed hopper. The feed hopper volume is therefore used to its maximum. This increases the capacity by no less than 300%. The Turbo-Press is particularly indispensable when processing low bulk materials such as shop cartons, pre-shredded or destructed materials.
Motor power: 2.2 kW (3 HP).



◀ W'hopper

For processing larger waste items (TV boxes, for example) the HBC 110 can be fitted with a wider feed opening, the W'hopper. This allows even extremely bulky materials to be compacted without pre-processing in a shredder. The W'hopper for the HBC 110 has a width of 2,000 mm (6'7").
Motor power: 4 kW (5.5 HP).



◀ Ruffler

The 'Ruffler' ensures uniformly composed bales during the supply of high bulk density material into the feed hopper. As soon as materials such as magazines, newspapers, computer paper, etc. are discharged into the feed hopper, a rotating impeller uniformly distributes these materials in the feed hopper. In that way the ruffler ensures rectangular, evenly composed and homogeneous bales.
Motor power: 11 kW (15 HP).



▲ Cross-Wires

The HBC 110 baler can be equipped with an advanced cross-wire unit in which, as well as from the standard five vertical wires, five horizontal wires can also be pulled around the bales. This is important when materials, which are difficult to compress, are processed, such as coated and laminated types of paper and plastics. The HBC 110 produces perfect bales with cross-wires and material waste is kept to a minimum.

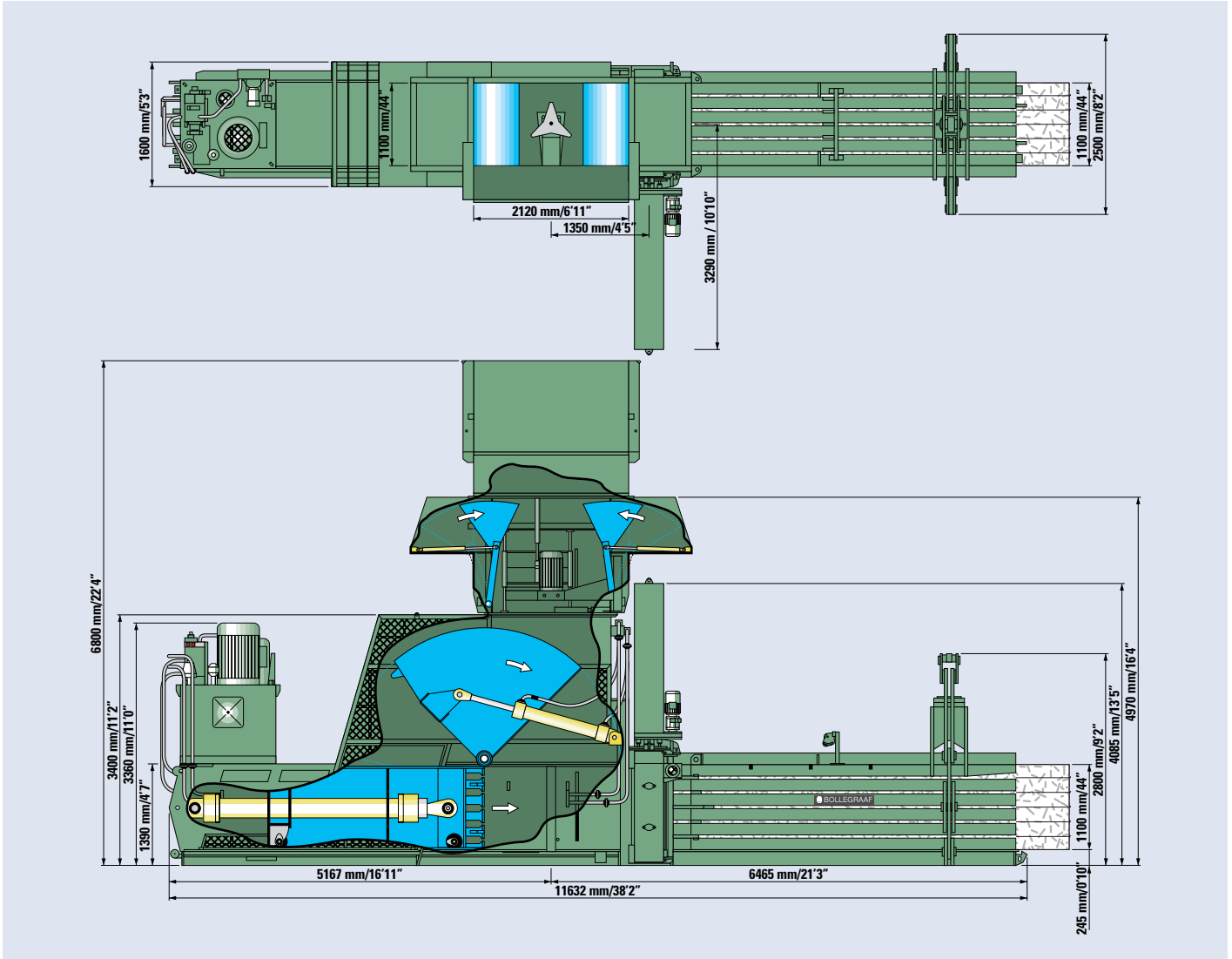
Knotter motor: 2.2 kW (3 HP).

▼ B.I.O.S. & Display

The HBC 110 baler can be equipped with the Bollegraaf Information & Operating System (B.I.O.S.). This allows specific preferred settings to be programmed. Moreover, the B.I.O.S. control display provides relevant information about the production process, such as power consumption, wire consumption, compaction force, compaction time and actual capacity per type of material. This data is recorded, as is the data relating to maintenance and failures.



Technical Specifications



HBC 110

Hopper size	1,600x1,100 mm (5'3"x3'7")
Feeding conveyor width	max. 1,600 mm (5'3")
Pre-press flap pressure	50 Mp/tonf (55 tonf)
Hydraulic motor	1x75 kW (1x100 HP)
Pressure force	100 Mp/tonf (105 tonf)
Capacity/cycle	4.3 m ³ (152 ft ³)
Cycle time with material	19 sec.
Knotter motor	2.2 kW (3 HP)
Baler weight	36 tons (40 tons)
Bale dimension WxH	1,100x1,100 mm (44"x44")
Bale length	adjustable
Bale weight	800-1,300 kg (1764-2866 lbs)
Capacity at a S.G. (specific gravity) of	
20 kg/m ³ (1.24 lbs/ft ³)	16.3 tons/hr. (18.8 tons/hr.)
50 kg/m ³ (3.1 lbs/ft ³)	33.8 tons/hr. (37.6 tons/hr.)
100 kg/m ³ (6.2 lbs/ft ³)	62.5 tons/hr. (69.4 tons/hr.)
Capacity when ruffler is used	35 tons/hr. (38.9 tons/hr.)

*Subject to modifications

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