

More profitable waste handling with



# Horizontal Balers

# Meeting the challenge with horizontal balers

Fully automated horizontal balers from Orwak meet the challenges presented by centralized waste handling in many businesses and organizations which produce large volumes of paper-based and plastic wrapping waste for recycling. They rapidly minimize the volume of waste material in a cost-effective way to help you improve internal logistics. The bales can be transported and handled in an efficient way, and sold directly as raw material to paper and plastic processing industries.

With numerous installations worldwide for large-scale waste handling, Orwak has built up a great deal of knowledge and experience with its horizontal balers.

## Keeping it clean

Typical waste compacted into high-density bales by Orwak horizontal balers comprises various types of paper, cardboard and plastic wrapping. Therefore our horizontal balers are found wherever such waste accumulates and needs removing, including:

<i>Larger shopping centers</i>	<i>Various industries</i>
<i>Supermarkets</i>	<i>Printers</i>
<i>Department stores</i>	<i>Bookbinders</i>
<i>Warehouses</i>	<i>Logistic centers</i>
<i>Local recyclers</i>	<i>Smaller municipalities</i>

## Continuous automated baling

Orwak horizontal balers have a recommended production of 0.5-6 tonnes cardboard per hour. A choice of feed systems covers manual, bin, air-transport system or conveyor belt with side or top feed. Baler operation is fully automated, although a manual mode is possible.

As the waste moves along the tunnel, it is compressed from both above and the sides until the baler senses the correct compaction has been achieved. Continuous baling allows multi-shift operation, and a bale counter keeps track of throughput. A comprehensive safety system minimizes risk, and our own service and maintenance personnel worldwide are ready to assist you if the need arises.

## Generating and saving money

Investing in an Orwak horizontal baler is profitable for you. Highly compacted waste means less internal transport and fewer container pickups, and sorting at source yields high-quality bales for recycling that warrant a good price. Generating and saving money through recycling leads to rapid system payback and helps you achieve the best total waste handling economy.

### **Making sure less is more**

Orwak waste handling solutions don't just produce less volume of waste, they yield a number of other reductions that give you a corresponding number of financial and other benefits.

Less transport	More money
Less disposal	More income
Less handling	More efficiency
Less clutter	More space
Less risk	More security
Less time	More productivity
Less mess	More hygiene
Less trouble	More satisfaction
Less energy	More savings
Less pollution	More cleanliness

Orwak is "making sure less is more" so that you can take control over your waste management activities at source to achieve the best total economy.



# The completely automated baler family

Orwak horizontal balers are available in several different sizes and models to satisfy virtually all your requirements for the cost-effective compaction of diverse paper-based and plastic wrapping waste. Common to all models is simple, safe and effective operation. After simple training, everyone can use

our completely automated horizontal balers to compact the relevant waste to high-density bales. A baler can be conveniently located for centralized handling of high-volume waste to minimize handling time and internal transport costs.

## **Orwak 2125 AT, 5.5 kW**

- Suitable for department stores and retailers.
- Compact and easily placed.
- Automatic operation.
- Large infeed: 1200 x 1100 mm takes care of most types of packaging.

## **Orwak 2130 AT, 6.2 kW**

- Suitable for department stores and retailers.
- Compact and easily placed.
- Recommended for paper and cardboard.
- Automatic operation.
- Large infeed: 1200 x 1100 mm takes care of most types of packaging.

## **Orwak 2140AT, 11 kW**

- Suitable for larger waste volumes typically found in warehouses, industrial facilities and shopping centers.
- Compact and easily placed with high capacity.
- Recommended for both cardboard and plastic wrapping.
- Large infeed: 1400x1100 mm.

## **Orwak 2140AT, 18 kW**

- Suitable for both cardboard and plastic packaging waste.
- Ideal for large, space-demanding packaging as found in logistics centers, and paper and cardboard industries.
- Effective and reliable.
- Very large infeed: 1600x1100 mm, can be fed with a conveyor belt.

## **Orwak 2150 AT, 18 kW**

- Suitable for larger industries and recycling companies.
- Produces high-density bales, up to 500 kg, for good transport economy.
- Ideal for large, space-demanding packaging.
- Effective and reliable.
- Very large infeed: 1600x1100 mm, can be fed with a conveyor belt.

## **Orwak 2150 AT, 22 kW**

The same as Orwak 2150 AT, 18 kW but with higher capacity

- Suitable for larger manufacturing industries and recycling companies.
- Produces high-density bales, up to 500 kg, for good transport economy.
- Ideal for large, space-demanding packaging.
- Effective and reliable.
- Very large infeed: 1600x1100 mm, can be fed with a conveyor belt.

## **Orwak 2150 SAT, 22 kW**

- Suitable for bookbinders, printers, and other industries producing paper-based offcuts.
- Small bales and 4 bale wires make it ideal for small batches.
- High capacity and high bale density.
- Air transport system can be used for infeeding.

## **Orwak 2160 SAT, 30 kW**

- Suitable for larger manufacturing industries, logistic centers and local recyclers
- Produces high-density bales, up to 550 kg, for good transport economy.
- Ideal for large, space-demanding packaging.
- Effective and reliable.
- Very large infeed: 1600x1100 mm, can be fed with a conveyor belt.



## Technical data

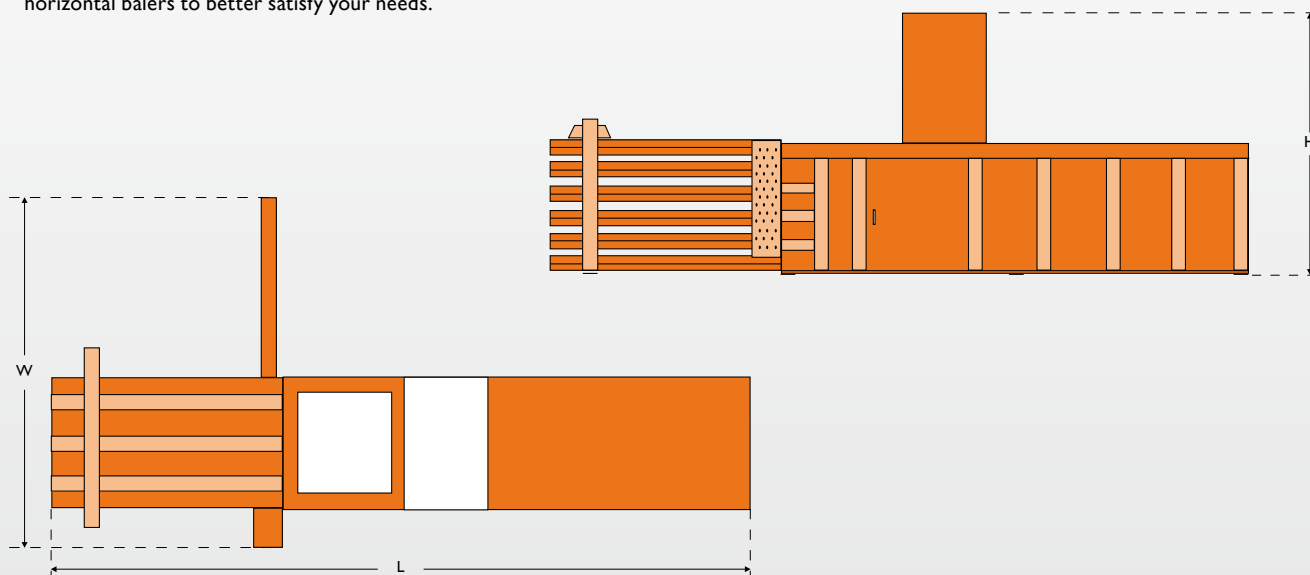
Machine	Dimensions (LxWxH mm)	Machine weight	Recommended production (cardboard)	Press power	Bale size (adjust. length)	Bale volume weight	Power supply
<b>Orwak 2125 AT, 5.5 kW</b>	5500x3900x2370	4 tonnes	0.5 t/h	25 tonnes	1100x800 mm	300 kg/m <sup>3</sup>	3x380-400 V, 50 Hz
<b>Orwak 2130 AT, 4/6.2 kW*</b>	5776x3801x2370	4.5 tonnes	1 t/h	30 tonnes	1100x800 mm	333 kg/m <sup>3</sup>	3 x380-400 V, 50 Hz
<b>Orwak 2140 AT, 11 kW</b>	6311x3749x1962	5.5 tonnes	3 t/h	40 tonnes	1100x800 mm	375 kg/m <sup>3</sup>	3x380-400 V, 50 Hz
<b>Orwak 2140 AT, 18 kW</b>	7200x3900x2500	7.0 tonnes	4 t/h	40 tonnes	1100x800 mm	375 kg/m <sup>3</sup>	3X380-400 V, 50 Hz
<b>Orwak 2150 AT, 18 kW</b>	7146x3749x2479	7.5 tonnes	3 t/h	50 tonnes	1100x800 mm	417 kg/m <sup>3</sup>	3X380-400 V, 50 Hz
<b>Orwak 2150 AT, 22 kW</b>	7200x3900x2000	8.0 tonnes	5 t/h	50 tonnes	1100x800 mm	417 kg/m <sup>3</sup>	3X380-400 V, 50 Hz
<b>Orwak 2150 SAT, 22 kW</b>	6400x3900x2000	7.0 tonnes	3 t/h	50 tonnes	800x800 mm	379 kg/m <sup>3</sup>	3X380-400 V, 50 Hz
<b>Orwak 2160 AT, 30 kW</b>	7200x3900x2000	8.5 tonnes	6 t/h	60 tonnes	1100x800 mm	520 kg/m <sup>3</sup>	3X380-400 V, 50 Hz

\* = 6.2 kW with bin skip

**Note:** Not to forget : the bales' output length: 1500 mm

### Handy accessories

A wide range of accessories and options helps to tailor Orwak horizontal balers to better satisfy your needs.







# Features that ensure high performance

**Special steel teeth** – tough and long-lasting teeth effectively cut the waste before it goes into the compression tunnel.



**Material selector** – this unit adjusts the compaction in the tunnel to ensure bales of maximum density.



**High compaction** – a pressure of 25-60 tonnes reduces voluminous waste to compact bales: (H) 800 mm x (W) 1100 mm x Adjustable length that ensures optimized payload.



**Simple control** – a user-friendly control panel facilitates automated operation, and manual control is available for testing bale lengths.



**Baling wire system** – 2.8-3.3 mm wire is used for baling. The horizontal needle package reduces machine height and enables unobstructed wiring.



**Oil heater/cooler** – an optional oil heater is available for demanding outdoor conditions, and an optional oil cooler is available for ambient temperatures above 30 °C.



**Photocells** – for automatic start of the baler as soon as there is waste in the infeed hopper.



**Bale counter** – allows you to keep track of bale throughput.



**Wide capacity** – 5.5 to 30 kW motors provide a wide capacity range with a recommended production of 0.5-6 t/h (cardboard).



**Bin lifter** – an option used with many different types of bin.





# Leader in compaction and baling solutions

Orwak is a world leader in compaction and baling solutions for solid waste material at source. We develop, manufacture and market a comprehensive range of waste compactors, baling systems and “Brickman” briquette presses for recyclable materials that make waste management more profitable.

This is where Orwak’s unequalled technology,

expertise and service support make all the difference. When you partner with Orwak, you also gain access to the vast experience we have built up since 1971.

Orwak is wholly owned by the Norwegian company Tomra, a leading global player in providing integrated solutions for recovering and recycling used packaging.



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