Orkel

INDUSTRIAL EDITION

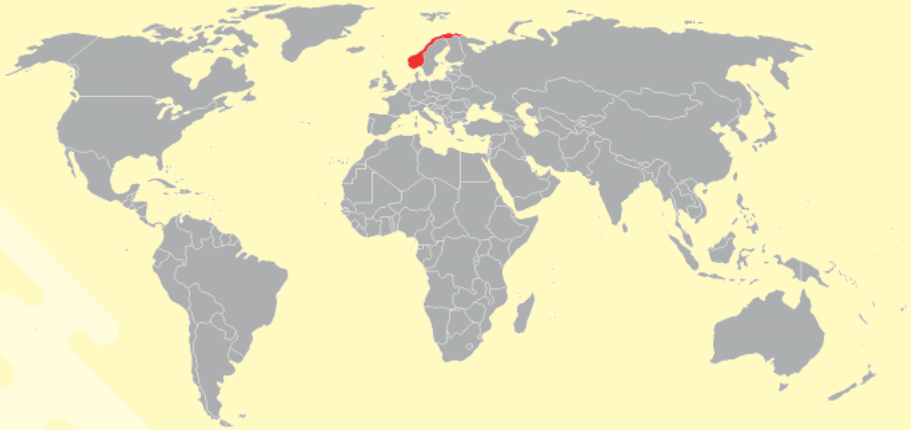
MP2000 COMPACTOR

ABOUT US

Orkel AS is situated in Fannrem, around 45 km southwest of Trondheim in central Norway, adjacent to the Orkla-river made famous for its excellent salmon fishing. The company is one of the biggest manufacturers of industrial machinery in Norway, and has earned critical acclaim and a reputation for high quality through experience and innovative design.

Orkel AS has come quite a long way from the humble origins of the countryside workshop of founder Johan Gjønnes established over 60 years ago. Today, the company has a considerable market presence, which is represented by a large international sales network in more than 40 countries.

Orkel AS has for a long time been an innovative market leader in the development of new products, enabling our highly valued customers to meet the challenges of the future, while remaining profitable.



Orkel

SIMPLY

THE BEST SOLUTION

FROM BULK TO BALE

Orkel's industrial compactors transform bulk material such as RDF, wastes, biomaterials and fine particle industrial materials into easy-to-handle round bales, using nothing but plastic wrap. Some materials can be reduced in volume by up to three times thus producing a compact and consistent unit package.

This in turn leads to several major advantages for your production needs;

- improved internal logistics,
- clean and simplified storage,
- long distance transport made easy,

and this is why baling is the ideal method for handling different types of materials.

RDF

BULK

3:1 VOLUME REDUCTION

BALE

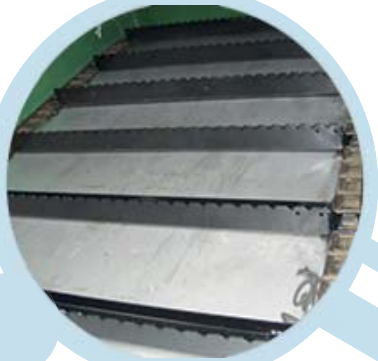
COMPOST

PLASTIC

COTTON

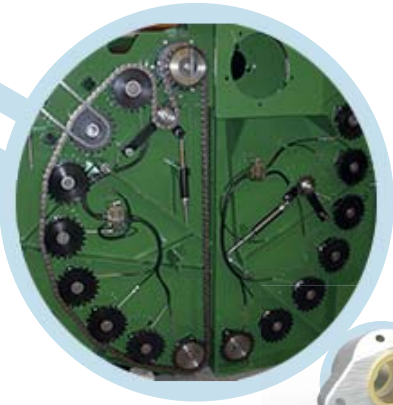
GRAPE MARK

SO
HOW DOES IT WORK?



COMPRESSION

Material is compressed in the chamber, while two specially designed belts inside the chamber prevent any kind of spillage. The compression chamber is of a high quality steel construction using Hardox® steel plates on both sides, preventing wear and tear.



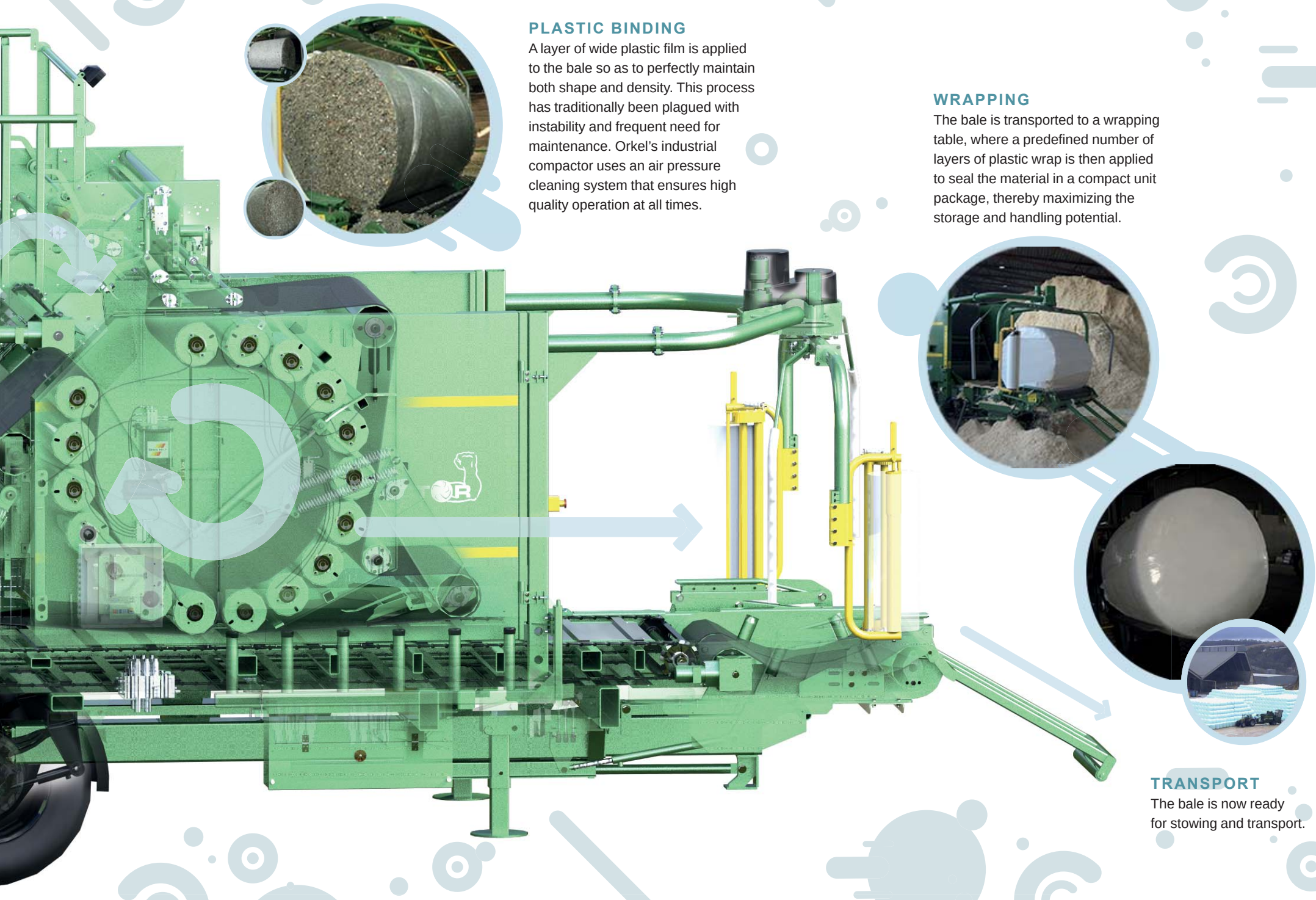
Furthermore, high quality automatically lubricated bushings are used for the fixed chamber, preventing both dust contamination and moisture damage. This innovative solution also has the added bonus of simple replacement and maintenance. This is a key technology, as they are a much more robust method of torque transfer, have a longer product life and is much easier and more cost efficient to replace than traditional bearings.

TRANSPORT TO CHAMBER

Material is transported by an elevator into a compression chamber using a robust chained conveyor system with steel carriers. Stainless steel plates line the conveyors guaranteeing long life and low maintenance.

LOADING

Bulk material is loaded either directly from a factory conveyor belt or by using a front-end loader.



PLASTIC BINDING

A layer of wide plastic film is applied to the bale so as to perfectly maintain both shape and density. This process has traditionally been plagued with instability and frequent need for maintenance. Orkel's industrial compactor uses an air pressure cleaning system that ensures high quality operation at all times.

WRAPPING

The bale is transported to a wrapping table, where a predefined number of layers of plastic wrap is then applied to seal the material in a compact unit package, thereby maximizing the storage and handling potential.

TRANSPORT

The bale is now ready for stowing and transport.

HIGHLY CUSTOMIZABLE

TAILOR MADE

We recognize the fact that not every customers needs will be the same.

We take great pride in offering highly customized machines tailor made to meet your specific needs, and will not hesitate to make new configurations or even adding entirely new features.

COMPLETELY INTEGRATED

When we say customized, we are not talking about just specifications, as we also facilitate the adaption to your existing production line.

We offer completely integrated solutions that slot seamlessly into your existing facilities, conveyor belts, etc.

BUILT TO LAST

Orkel's compactors are made using strong and sturdy materials, which combined with our strong focus on quality ensures a long product life.

In fact, depending on type of material and the level of maintenance, Orkel's industrial compactors can produce in excess of four hundred thousand bales during its lifetime.

We are highly commited to making exceptionally durable products.

ENGINEERING EXCELLENCE

Orkel's in-house staff of highly skilled engineering professionals are working relentlessly to continuously improve both new and existing products.

24H COMPLETE SUPPORT

We have knowledgeable and experienced technical consultants stationed in all 6 continents and more than 40 countries, ready to assist you 24/7.

DON'T BE SUCH A

SQUARE

Orkel round bales have a huge advantage compared to conventional square bales in that they only use a single material for wrapping; polyethylene plastic. This makes removing the wrap, in situations where the bales need to be split open, both easy and problem-free, as there are no metal bands or netting to get stuck in machinery components.

Another advantage is that it is a lot easier to handle round as opposed to square bales when loading onto a ship or other storage container. This is partly due to the fact that no extra space between the bales is required, and also because when stowed, the round bales interlock holding each other together preventing unstable loads.

MAKE IT

ROUND BALES

TRANSPORT &

Just 15 minutes required for changeover from transport to working positions.

LOGISTICS

Baling enables bulk material to be compressed into smaller units, thereby simplifying internal logistics for a smoother workflow.

The volume reduction in the compressing process means that it is possible to transport as much as three times the amount of material as that of traditional methods.

A waterproof plastic wrap is applied to keep the bale sealed and intact, preventing spillage and damage caused by moisture.

Put simply; baling is a clean and efficient way to handle compressible bulk material.

Having a standardized eurobale means that there already exists a wide variety of machinery such as cranes, fork lifts or telehandlers that are able to handle the loading of bales into a ship, container, lorry or similar.

Storage is also made easier by the possibility of stacking bales vertically - as much as 8 bales high - for example in pyramid-shaped stacks or rows. Stacking 6-8 levels high can be managed thanks to the dense and well-shaped bales.

Bales may be stored for months or even years, ready for use at your convenience.

OPTIONAL EQUI

ORKEL POWERPACK PP55

The Orkel compactor is operated using hydraulics, with power being supplied by either a tractor or a powerpack (electric motor). We have developed our own optional and fully integrated powerpack, the PP55, which offers several strong advantages:

- High output efficiency.
- Long life expectancy.
- Simple setup using a forklift for lifting, loading and unloading.
- Safe and low cost operation (for both low and high temperatures).

SPECIFICATIONS

Fundation:	Concrete on rubber blocks
Voltage (V):	380-480
Frequency range (Hz):	50-60
Motor:	55 kW - 8 poles
Torque (Nm):	535
Effect (kW):	55
Automatic RPM regulation:	Temperature dependent
Frequency control:	380-850 RPM
Maximum AMP required:	125 AMP, 3 sec at end of bale
Nominal AMP:	50-80 AMP
Transformer:	12V/50 AMP connector
Cooling of components:	Integrated cooling system
Electrical cable connector:	400V/125 AMP (included)
PTO connection:	1 3/8” - Z6
No gearbox:	Direct drive from the motor
Liquid ingress protection:	IP54

PMENT

DRAWBAR EYE COUPLERS

BALL EURO TURNABLE

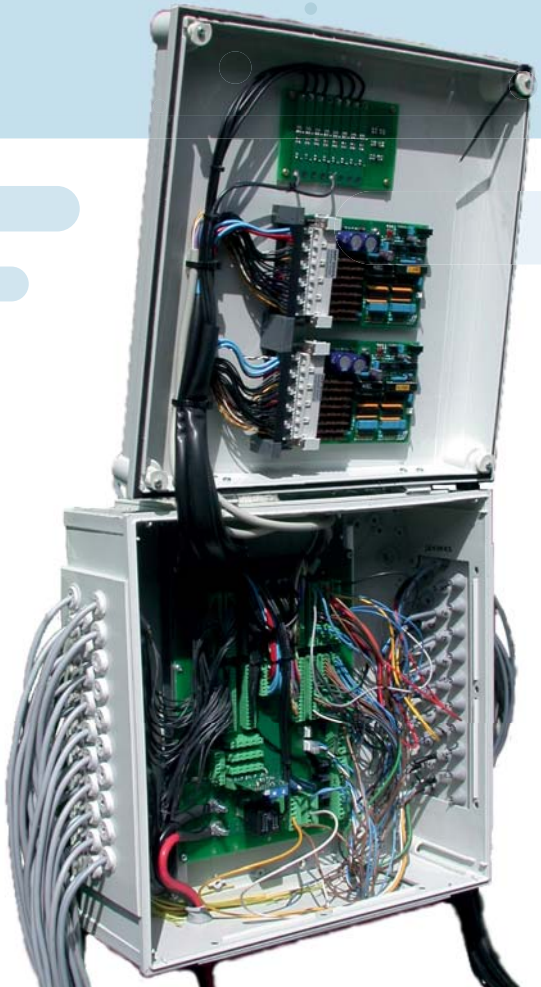
REQUIRED CONNECTIONS

M22X1,5 PALM COUPLING CONNECTION FOR 2-WAY AIR BRAKE SYSTEM

HYDRAULIC 3/8" CONNECTION FOR BRAKES (MALE)

7-PIN ELECTRICAL CONNECTION (FEMALE)

2-PIN 12V ELECTRICAL CONNECTION



CONTROL SYSTEM

Intelligent control system with an intuitive and user-friendly interface.

STILL NOT CONVINCED?

DON'T JUST TAKE OUR WORD FOR IT

LISTEN TO WHAT OUR CUSTOMERS HAVE TO SAY

"The Orkel machines have been a safe and profitable investment."

YELSPA LTD.

HENRY DE VAL DU BEULIEAU

"We are amazed about the superior quality of the Orkel bales."

ALFACOTRADE

FADI EL KHOURY

「実際に使って、これは

本当にいい機械

だと思って、導入しました。」

有限会社下川フィードサービス

松岡孝幸様

"The Orkel compactors are important for us in order to achieve better logistics, saved transport costs and easy market access."

EASTERN SHORE FOREST PRODUCTS INC.

TOM JOHNSON

"Orkel bales have better

QUALITY."

NOBRE NUTRICÃO ANIMAL

PABLO BORG

"OUR CUSTOMERS ASK FOR ORKEL BALES."

NEW EARTH SOLUTIONS

PETER MILLS

「長い目で見て、毎年の機械の

メンテナンスや消耗を考えると、

何万個も巻けるし、

良い機械は

良い物ができる

のかなと。」

株式会社TMR

永谷俊様

"Für unsere Firma sind die Vorteile des Orkel Compactors;

ZUVERLÄSSIGKEIT

einfache Wartung, und hocher Gebrauchtwert."

TSHCARNER FARM-SERVICE

SIMON TSCHARNER

”High density baling is win-win.”

JT JOHNSON & SONS

DENIS JOHNSON

”Compared to competitors, the Orkel has the best packing quality with fine chopped materials. The Orkel Compactor is the preferred type of baler-wrapper combination.”

ENKA TEKNIK A.Ş.

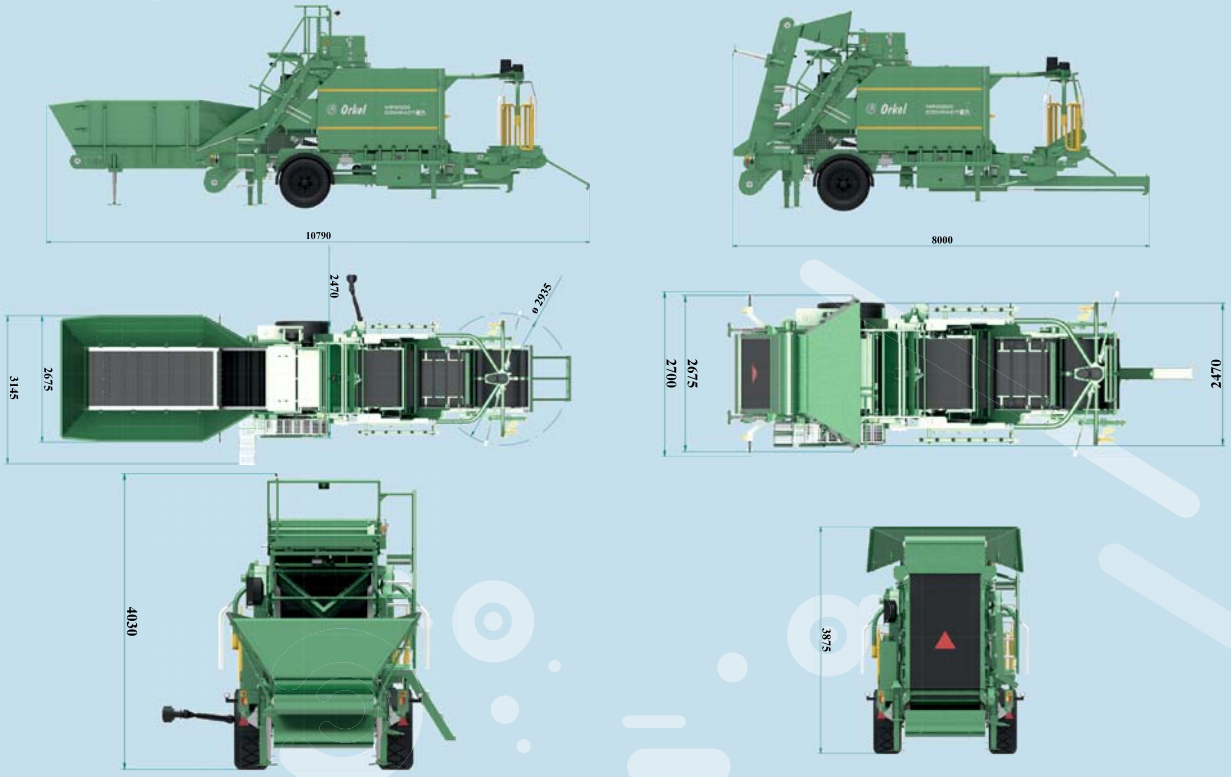
AHMET YENISHERIRLI

TECHNICAL DETAILS

Required power:	55 kW (120 HP)
Capacity:	up to 60 bales/hour
Total weight:	7800 kg
Tires:	D385/65R22,5
PTO speed:	850 RPM

Bale volume:	1,25 m³
Hopper volume:	7 m³
Bale diameter:	115 cm
Bale width:	120 cm
Bale weight:	300-1200 kg

MEASUREMENTS



Working position

Width:	3150 mm
Length:	10790 mm
Height:	4030 mm

Transport position

Width:	2700 mm
Length:	8000 mm
Height:	3880 mm

ORKEL
COMPACTION AS

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