

FACTSHEETBOOK

# Baling & Debaling



## Products of APOLLO ISC

Big Bale Press  
Coco Block Debaler  
Coco Block Loader





A world map with a light blue background and dark blue landmasses. Three locations are highlighted with red dashed boxes and connected to text labels by dotted lines. The locations are: Apollo Group in the Netherlands, Apollo VTS France in France, and Apollo VTS Spain in Spain. Ryson International Inc. is also mentioned in the USA.

**APOLLO GROUP**  
Coevorden, The Netherlands  
→ Head office and factory

**APOLLO VTS France**  
→ Sales office

**APOLLO VTS Spain**  
→ Sales office

**Ryson International Inc.**  
Yorktown, Virginia, USA  
→ Sales office and factory

# About the Apollo Group

Every day we strive to develop and deliver products and services that help our customers grow. Because standing still brings you nowhere, it might even move you backwards. Especially when it comes to the production lines of our customers.



**ALWAYS MOVING DREAMS TO REALITY**  
Standing on the shoulders of her ancestors, Claudia is the 6th generation of the Van den Pol family. A family of entrepreneurs that grew from a blacksmith that started in 1847 into a worldwide player in a niche market.

Being a worldwide player, means being close to our global customers. Claudia and all Apollo employees are determined to realize the long-term goals of Apollo and their customers with energy, drive and vision.

## Products



**BIG BALE PRESS**



Heavy Version



Light Version



**COCO BLOCK DEBALER**



CBD5



CBD10



CBD60



**COCO BLOCK LOADER**



## Designed to handle...

### BIG BALE PRESS



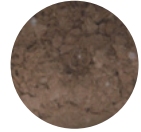
Mulch



Bark



Coco Coir



Coco Fibre



Compost



Wood Fibre



Wood Shaving



Wood Chips



Refuse derived Fuel



Cellulose insulation



Corn Silage



Rice Husk



Straw Fibre



All kinds of Peat  
and Substrates

The Big Bale Presses are ideal for compressing, packing and palletizing bulk products. The Big Bale Presses are used for many types of compressible and cohesive products as indicated in the pictures above.

The three-in-one installation of the Big Bale Press reduces capital outlay. The Big Bale Press keeps foil consumption to a minimum by stretching the wrapping foil around the bale.



## Big Bale Press Heavy Version

**A compact and fully automatic installation for compressing, packing and palletizing bulk products. The Big Bale Press is used for many types of compressible and cohesive products. This three-in-one installation reduces capital outlay. The Big Bale Press keeps foil consumption to a minimum by stretching the wrapping foil.**

Apart from a variable Big Bale volume of 2 m<sup>3</sup> up to 7 m<sup>3</sup> and a Big Bale height of 1 meter up to 2.5 meter, the Big Bale Press has a production capacity up to 30 bales per hour in one compression cycle, depending on the infeed capacity and the type of product. By using the patented press table, it is possible to achieve high pressures - up to 65 tons - without damaging the pallet.

The Big Bale is stable and sealed at the top and the bottom side. This limits overheating to the minimum, prevents contamination of the product and working area and will make outdoor storage possible. Thanks to compaction and the flexible Big Bale dimensions, your product can be transported, delivered and stored in the most efficient way.

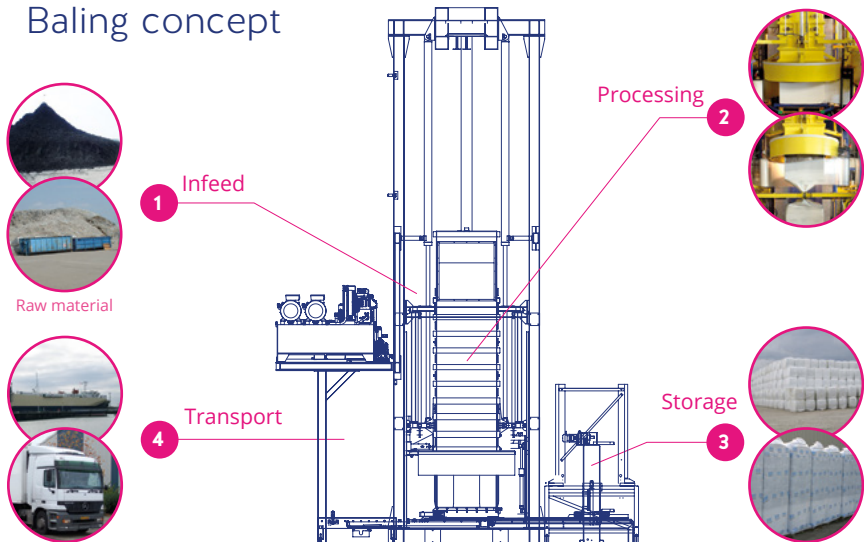


## Characteristics

- Can be used for all compressible and cohesive bulk products with a bulk weight of 150 to 900 kg per m<sup>3</sup>
- Variable compression of 1.5:1 to 5:1\*
- Weight of Big bales of 250 up to 2,000 kg\*
- Can be processed automatically
- Can be stored horizontally or vertically
- Bales produced with or without pallet
- Can be easily released without loss of structure and volume\*
- Savings on foil by the pre-stretch mode and savings on the fully automatic mode

\*Depending on the product

## Baling concept





## Big Bale Press Light Version

**If the Big Bale Press Heavy Version is too “heavy” for your capacity needs, the Light Version is a better solution. The Light Version of the Big Bale Press, is created for companies with lower production capacity. Therefore the investment costs will be lower compared to the Heavy Version.**

The production capacity of the Light Version is up to 17 bales per hour in one compression cycle and 11 bales per hour in two compression cycles.

If there is a constant need of higher production capacity, it is possible to upgrade the Light Version to the Heavy Version by changing the hydraulic and electrical power pack. After the upgrade, the fully equipped Big Bale Press Heavy Version can produce up to 30 bales per hour.





## Characteristics

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\*Depending on the product

## Technical Specifications

Aspect		Specs Light Version	Specs Heavy Version
Pressure		65 tons / 200 bar	65 tons / 200 bar
Capacity		Up to 17 Big bales per hour * (in one compression cycle)	Up to 30 Big bales per hour * (in one compression cycle)
Electrical supply		400V / 3-phase / 50Hz / 125A (or different)	400V / 3-phase / 50Hz / 160A (or different)
Dimensions	Press	3.0 x 3.0 x 10.3 m	3.0 x 3.0 x 10.3 m
	Roller conveyor	2.2 x 1.3 x 1.5 m	2.2 x 1.3 x 1.5 m
	Pallet stacker	1.7 x 1.9 x 2.1 m	1.7 x 1.9 x 2.1 m
Total weight of press		Approx. 19 tons	Approx. 19 tons
PLC		Siemens	Siemens

\*Depending on the product



## Upgrade from light to heavy

- Low investment costs with the machine quality of APOLLO ISC
- Possibility to upgrade from light to heavy without changing the basis structure of the press
- No need to buy an extra bunker and infeed conveyor to upgrade the production capacity
- No extra production surface needed

## 2 Step investment

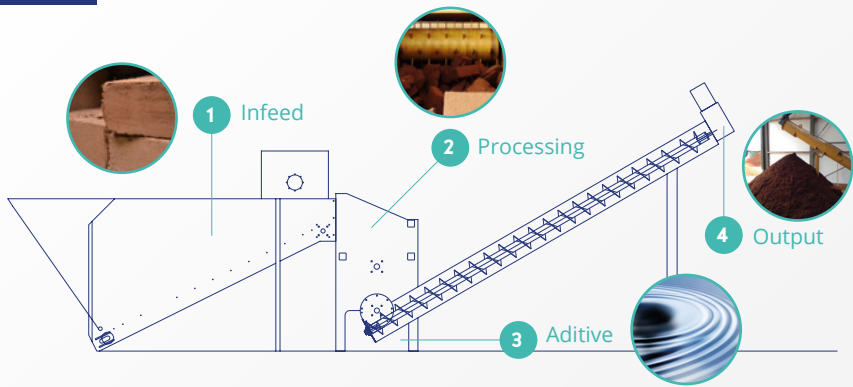


Start your Big Bale activity with low investment costs at your required production capacity. When your sales has grown: Bring your existing machine to the next

capacity level by changing the hydraulic and electric power pack. This results in the Big Bale Press Heavy Version, known for its reliability and quality.



## Debaling concept



## Coco Block Debaler

**Coco coir is used more and more in the Horticultural business. Some refer to this product as coconut coir, coir pith or coco peat. Due to the importance of the shipping costs, the coir is compressed into blocks. The Coco Block Debaler has been developed to break compressed coir blocks, bales or slabs apart.**

All the material goes through a sizing screen (size can be determined by customer). To bring the coir back into a voluminous product, water will be added on the exit of the machine through water bars in the auger. After this treatment the material is ready to use. Due to the design the Coco Block Debaler gently debales the blocks apart with minimum damage to the fibres. Unlike hammer mills that use high RPM, the Coco Block Debaler moves the block material in a figure eight cycle that gently rubs the blocks apart in a dry state.



## Coco Block Debaler CBD5

The CBD5 will process one pallet of compressed raw material in about one hour. The water consumption of the machine will be between 10 to 30 litres of water per minute. This is depending on the moisture content that you require for your process. The Coco Block Debaler CBD5 works with compression ratios of 4:1 all the way up to 10:1.



### Ideal conditions

The CBD5 will work best when the body is full. The Coco Block Loader is a perfect infeed system to keep the CBD5 at a maximum output. It is also possible to build an automatic loading unit so that a complete pallet can be fed into the Coco Block Debaler CBD5. This will reduce the labour costs. We can supply an incline conveyor as well to stockpile your processed coir.

### Technical Specifications

Aspect	Specifications
Electricity	230 / 400V / 3 phase / 50Hz / 16.6 A / 4.5 kW
Measurements	Approx. 4.50 x 1.20 x 2.60 m
Water usage	10 to 30L / min.
Weight	Approx. 1.2 tons



# Coco Block Debaler CBD10

The CBD10 will process one pallet of compressed material in about 45 minutes. This will generate around 12 cubic meters of ready to use product. The water consumption of the machine will be between 40 to 50 litres of water per minute. This is depending on the moisture content that you require for your process. The CBD10 works with compression ratios of 4:1 all the way up to 10:1.



## Ideal conditions

Just like the CBD5 the CBD10 will work best when the body is full. The Coco Block Loader is a perfect infeed system to keep the CBD10 at a maximum output. It is also possible to build an automatic loading unit so that a complete pallet can be fed into the CBD10. This will reduce the labour costs. We can supply an incline conveyor as well to stockpile your processed coir.

## Technical Specifications

Aspect	Specifications
Electricity	400V / 3-phase / 50Hz
Measurements	Approx. 4.40 x 2.25 x 2.10 m
Water usage	Approx. 40L to 50L / min
Weight	Approx. 2 tons



Ideal  
conditions

Just like the CBD5 and the CBD10, the Coco Block Debaler CBD60 will work best when the body is full. The Pallet Loader is a perfect feed system to keep the CBD60 at a maximum output.

## Coco Block Debaler CBD60

This machine works the same as the smaller Coco Block Debalers, but has a far higher capacity. The Coco Block Debaler CBD60 will process one ton of compressed material in about 12 minutes. This will generate around 60 cubic meters of ready to use product. The CBD60 works with compression ratios of 4:1 up to 10:1. The water usage of the machine will be around 200 litres of water per minute.

## Technical Specifications

Aspect	Specifications
Electricity	400V / 3-phase / 50Hz
Measurements	Approx. 9.75 x 3.15 x 2.40 m
Water usage	Approx. 200L / min.
Weight	Approx. 4 tons



# Coco Block Loader

To make the coco block debaling process even more efficient we have developed the Coco Block Loader.

Add the Coco Block Loader to your Coco Block Debaler CBD5 or CBD10 and place the coco blocks on the Coco Block Loader. The Coco Block Loader automatically fills the Coco Block Debaler.



## Performance

A fully loaded Coco Block Loader fills the Coco Block Debaler CBD5 during 30 to 35 minutes. For the Coco Block Debaler CBD10 this will be 15 to 20 minutes.

## Technical Specifications

Aspect	Specifications
Electricity	230/400V / 3 phase / 50Hz / 4.08A / 1kW
Measurements	Approx. 4.5 x 2 x 3 m
Weight	Approx. 1.2 tons

# Contact

EVERY DAY WE STRIVE TO DEVELOP AND DELIVER PRODUCTS AND SERVICES THAT HELP OUR CUSTOMERS GROW. DO YOU WANT TO KNOW MORE ABOUT OUR BALING & DEBALING CONCEPT? GET IN TOUCH WITH US, WE ARE HERE TO HELP.

APOLLO ISC

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The APOLLO GROUP consists of:  
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LS and APOLLO Service

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