







MACPRESSE PRODUCTS, OUR DISTINCTIVE VALUES

PRODUCTION EFFICIENCY

cutting efficiency and power production optimisation (m3/h), high output specific weight.

REMOTE SOFTWARE SUPPORT integrated troubleshooting modem.

ENERGY SAVING

first class hydraulic pumps.

MACPRESSE TYING

highly customisable system using plastic wire, steel wire or double steel wire.

HIGH WEAR RESISTANCE

Patented HARDOX steel liners.

HIGH EFFICIENCY MOTORS

simple and safe maintenance.

MACPRESSE QUALITY PROCESS

LIFE CYCLE OF MACPRESSE PRODUCTS, FROM DESIGN TO ON-SITE ASSEMBLY

STEP 1



STEP 2
COMPUTER NUMERICAL
CONTROL (CNC)







STEP 3
STRUCTURAL STEEL
CYCLE







STEP 4
PAINTING



STEP 5



STEP 6
STORAGE



STEP 7



STEP 8

ON-SITE ASSEMBLY



STEP 9



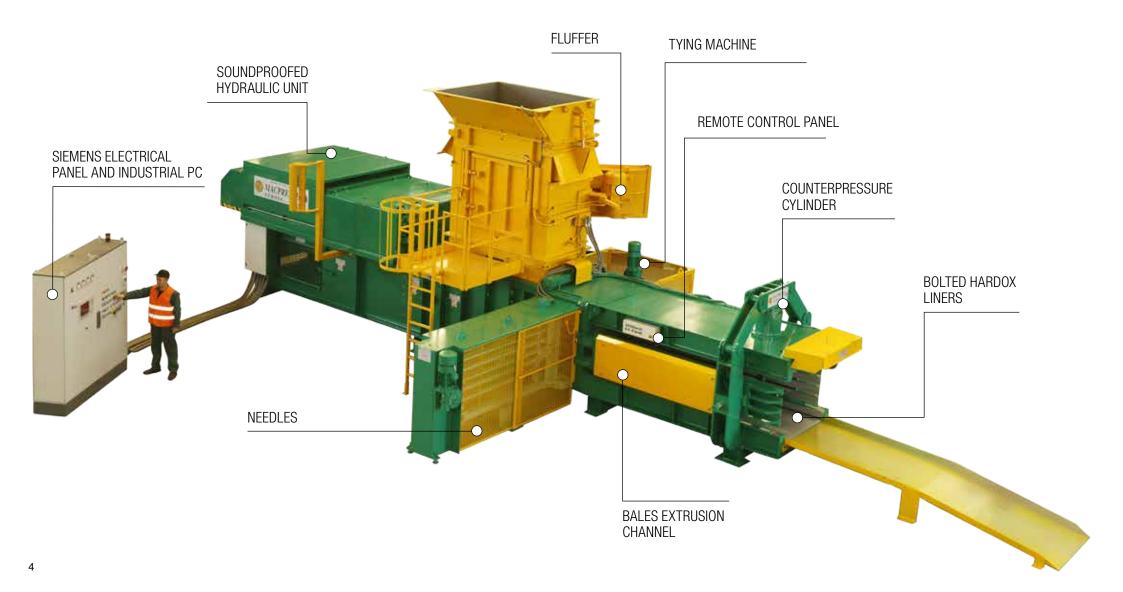
STEP 10 LOCAL TECHN



STEP 11



RECOVERY OF SECONDARY RAW MATERIALS



MATERIALS PROCESSED AND PERFORMANCE



25/30 kg/m³

1.56/1.87 lb/ft3



70/80 kg/m³



MIXED PAPER

100/120 kg/m³

4.37/4.99 lb/ft³ 6.24/7.49 lb/ft³

Mac 108/1

EUROPE

USA

PET 8 TON/H
OCC 16 TON/H
MIX PAPER 25 TON/H

USA

PET 8.8 TON (US)/H
OCC 17.6 TON (US)/H
MIX PAPER 27.6 TON (US)/H

Mac 110/1

PET 10 TON/H
OCC 18 TON/H
MIX PAPER 30 TON/H

USA

PET 11 TON (US)/H
OCC 20 TON (US)/H
MIX PAPER 33.1 TON (US)/H

Mac 111/1

PET 12 TON/H
OCC 22 TON/H
MIX PAPER 35 TON/H

USA

PET 13.2 TON (US)/H OCC 24.3 TON (US)/H MIX PAPER 38.6 TON (US)/H

Mac 111AS/1

EUROPE

PET 14 TON/H
OCC 25 TON/H
MIX PAPER 40 TON/H

LICA

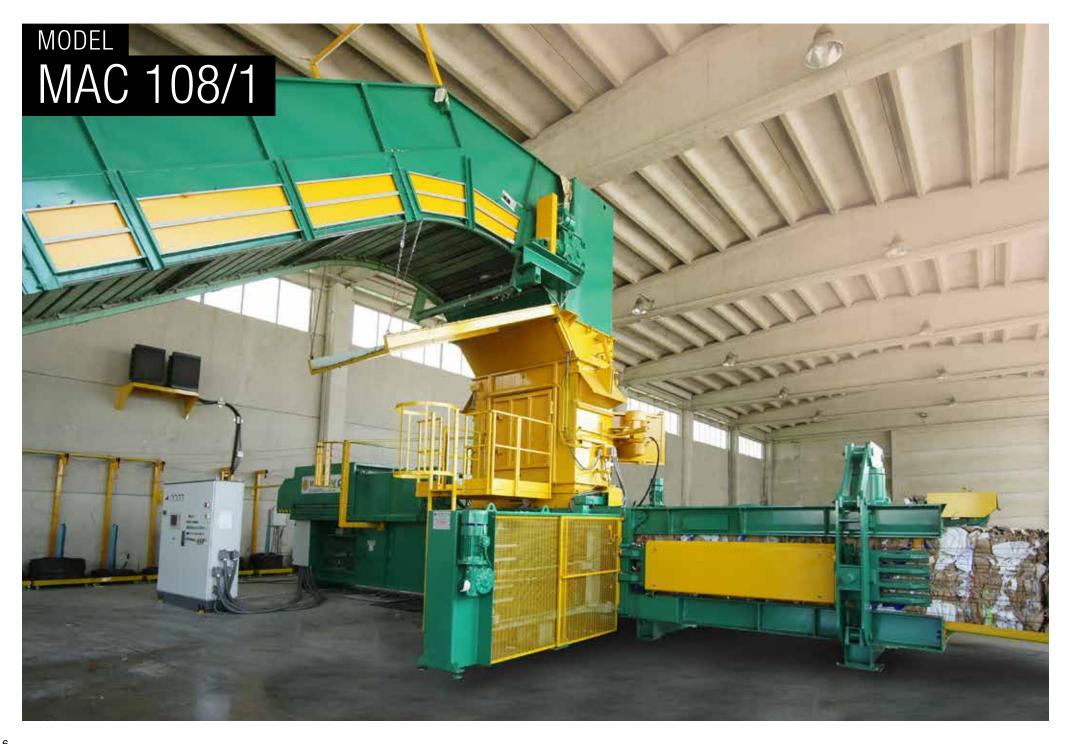
PET 15.4 TON (US)/H OCC 27.6 TON (US)/H MIX PAPER 44.1 TON (US)/H Mac 112XL

PET 16 TON/H
OCC 27 TON/H
MIX PAPER 44 TON/H

. . . .

EUROPE

PET 17.6 TON (US)/H
OCC 29.8 TON (US)/H
MIX PAPER 48.5 TON (US)/H



MOTOR POWER

CUTTING AND THRUST POWER 120 TON / 264.500 LB

NO LOAD PERFOMANCE

EUROPE	2,5 m ³	525 m ³ /h	3.5	17 sec
USA	88 ft ³	18.540 ft ³ /h	3.5	17 sec
	LOADING VOLUME	VOLUMES PER HOUR	CYCLES PER MINUTE	CYCLE TIME

GENERAL SPECIFICATIONS EUROPE (MM) USA (FT) **OVERALL LENGTH** 11.745 38'6" MAXIMUM WIDTH 5.835 (AT TIER STATION) 19'21'' 13'4" **OVERALL HEIGHT** 4.055 (AT FLANGE HOPPER) **FEED OPENING** 71"x 37" 1800 x 950 1100 x 1000 (dimens. WxH) **BALE CHANNEL** 43" x 39" **BALER WEIGHT WITHOUT FLUFFER** 35.850 Kg (less oil) 79.036 lbs **BALER WEIGHT WITH FLUFFER** 40,650 Kg (less oil) 89.618 lbs NUMBERS OF WIRES 5 5

TECHNICAL DATA

MAIN MOTOR POWER

75 kw

MAIN HYDRAULIC **PUMP**

One "REXROTH" variable flow pump with full regenative circuit

PUMP FLOW **CAPACITY**

95 GPM/ 360 I/min

OPERATING PRESSURE

3200-4000 PSI (220-280 Bar) 4500 PSI (315 Bar)

MAIN **CYLINDER**

MODEL

EUROPE

USA

PET 8 TON/H OCC 16 TON/H

MIX PAPER 25 TON/H

PET 8.8 TON (US)/H OCC 17.6 TON (US)/H bore (8,67" - 220 mm)

RAM FORCE

264.500 lbs/ 120.000 kg

RAM FORCE PRESSURE

11 kg/ cm² 155 PSI

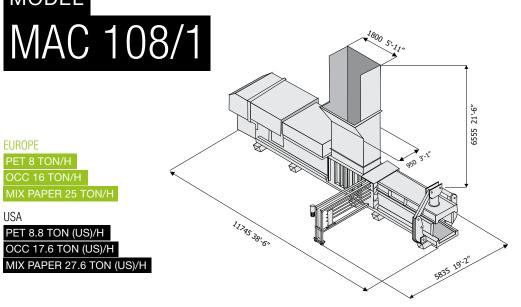
OIL RESERVOIR CAPACITY

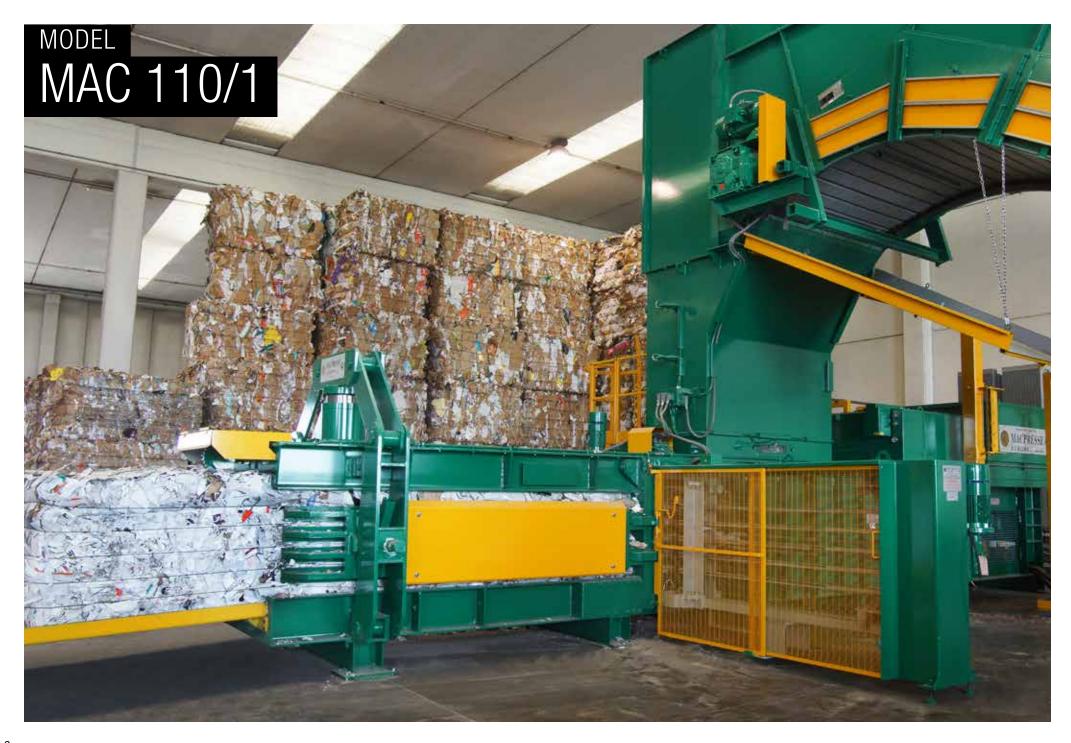
820 US Gal 3100 Lt

COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

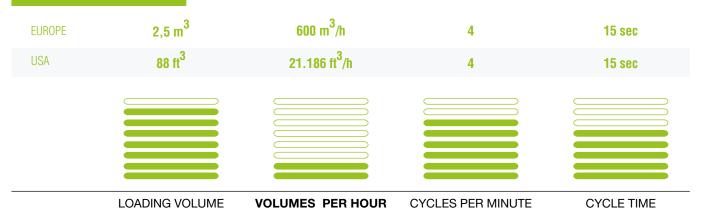
OPERATING CONTROL





CUTTING AND THRUST POWER 170 TON / 374.800 LB

NO LOAD PERFOMANCE



GENERAL SPECIFICATIONS EUROPE (MM) USA (FT) **OVERALL LENGTH** 11.485 37'8" MAXIMUM WIDTH 5.945 (AT TIER STATION) 19'6" 13'4" **OVERALL HEIGHT** 4.055 (AT FLANGE HOPPER) **FEED OPENING** 71" x 40" 1800 x 1020 **BALE CHANNEL** 1100 x 1100 (dimens. WxH) 43" x 43" **BALER WEIGHT WITHOUT FLUFFER** 38,100 Kg (less oil) 84.000 lb **BALER WEIGHT WITH FLUFFER** 43,100 Kg (less oil) 95,000 lb NUMBERS OF WIRES 5 5

TECHNICAL DATA

MAIN MOTOR POWER

90 kw

MAIN HYDRAULIC **PUMP**

One "REXROTH" variable flow pump with full regenative circuit

PUMP FLOW **CAPACITY**

153 GPM/ 580 I/min

OPERATING PRESSURE

3200-4000 PSI (220-280 Bar) 4500 PSI (315 Bar)

MAIN **CYLINDER**

bore (10,2" - 260 mm)

RAM FORCE

374.800 lbs/ 170.000 kg

RAM FORCE PRESSURE

14 kg/ cm² 200 PSI

OIL RESERVOIR CAPACITY

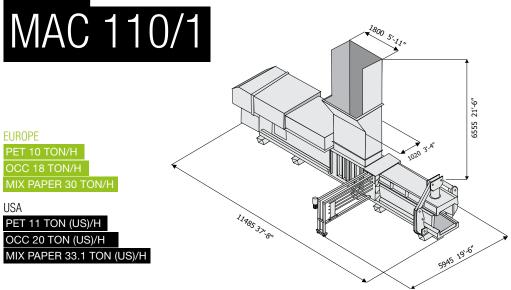
820 US Gal 3100 Lt

COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

OPERATING CONTROL

Siemens S7 300 programmable controller



MIX PAPER 30 TON/H

MODEL

EUROPE

PET 10 TON/H

MIX PAPER 33.1 TON (US)/H



MOTORS POWER

CUTTING AND THRUST POWER 170 TON / 374.800 LB

NO LOAD PERFOMANCE

EUROPE	2,5 m ³	750 m ³ /h	5	12 sec
USA	88 ft ³	26.500 ft ³ /h	5	12 sec
	LOADING VOLUME	VOLUMES PER HOUR	CYCLES PER MINUTE	CYCLE TIME

GENERAL SPECIFICATIONS EUROPE (MM) USA (FT) **OVERALL LENGTH** 11.485 37'8" 5.945 (AT TIER STATION) 19'6" MAXIMUM WIDTH 13'4" **OVERALL HEIGHT** 4.055 (AT FLANGE HOPPER) **FEED OPENING** 71" x 40" 1800 x 1020 **BALE CHANNEL** 1100 x 1100 (dimens. WxH) 43" x 43" **BALER WEIGHT WITHOUT FLUFFER** 39,100 Kg (less oil) 86.200 lb **BALER WEIGHT WITH FLUFFER** 44,100 Kg (less oil) 97,225 lb NUMBERS OF WIRES 5 5

TECHNICAL DATA

MAIN MOTOR POWER

2x55 kw

MAIN HYDRAULIC **PUMP**

Two "REXROTH" variable flow pump with full regenative circuit

PUMP FLOW **CAPACITY**

192 GPM/ 728 I/min

OPERATING PRESSURE

3200-4000 PSI (220-280 Bar) 4500 PSI (315 Bar)

MAIN **CYLINDER**

MODEL

EUROPE

USA

PET 12 TON/H OCC 22 TON/H bore (10,2" - 260 mm)

RAM FORCE

374.800 lbs/ 170.000 kg

RAM FORCE PRESSURE

14 kg/ cm² 200 PSI

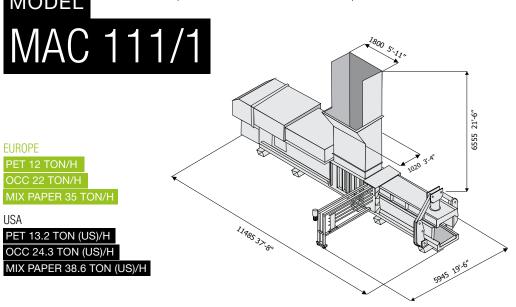
OIL RESERVOIR **CAPACITY**

820 US Gal 3100 L

COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

OPERATING CONTROL





MOTORS POWER

CUTTING AND THRUST POWER 170 TON / 374.800 LB

NO LOAD PERFOMANCE

EUROPE	3,2 m ³	960 m ³ /h	5	12 sec
USA	113 ft ³	33.900 ft ³ /h	5	12 sec
	LOADING VOLUME	VOLUMES PER HOUR	CYCLES PER MINUTE	CYCLE TIME

GENERAL SPECIFICATIONS EUROPE (MM) USA (FT) **OVERALL LENGTH** 12.495 40'128" 5.945 (AT TIER STATION) 19'6" MAXIMUM WIDTH 13'4" **OVERALL HEIGHT** 4.055 (AT FLANGE HOPPER) **FEED OPENING** 2100 x 1020 82½" x 40" **BALE CHANNEL** 1100 x 1100 (dimens. WxH) 43" x 43" **BALER WEIGHT WITHOUT FLUFFER** 40,000 Kg (less oil) 88.184 lb **BALER WEIGHT WITH FLUFFER** 45,300 Kg (less oil) 99,870 lb NUMBERS OF WIRES 5 5

TECHNICAL DATA

MAIN MOTOR **POWER**

2x75 kw

MAIN HYDRAULIC **PUMP**

Two "REXROTH" variable flow pump with full regenative circuit

PUMP FLOW **CAPACITY**

240 GPM/ 910 I/min

OPERATING PRESSURE

3200-4000 PSI (220-280 Bar) 4500 PSI (315 Bar)

MAIN **CYLINDER**

MODEL

EUROPE

USA

PET 14 TON/H OCC 25 TON/H bore (10,2" - 260 mm)

RAM FORCE

374.800 lbs/ 170.000 kg

RAM FORCE PRESSURE

14 kg/ cm² 200 PSI

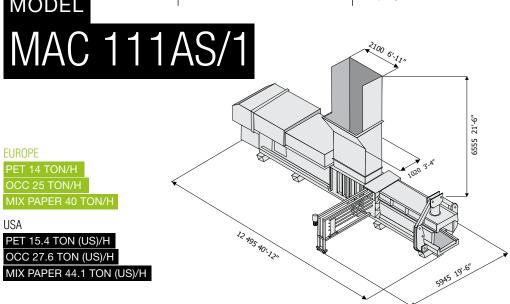
OIL RESERVOIR **CAPACITY**

792 US Gal 3000 L

COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

OPERATING CONTROL





MOTOR POWER

CUTTING AND THRUST POWER 200 TON / 414.000 LB

NO LOAD PERFOMANCE

EUROPE	2,6 m ³	702 m ³ /h	4,3	14 sec
USA	92 ft ³	24.791 ft ³ /h	4,3	14 sec
	LOADING VOLUME	VOLUMES PER HOUR	CYCLES PER MINUTE	CYCLE TIME

USA

GENERAL SPECIFICATIONS EUROPE (MM) USA (FT) **OVERALL LENGTH** 13.990 45'11'' 5.965 (AT TIER STATION) 19'7" MAXIMUM WIDTH **OVERALL HEIGHT** 4.275 (AT FLANGE HOPPER) 14'0" **FEED OPENING** 2000 x 1020 79" x 40" **BALE CHANNEL** 1100 x 1100 (dimens. WxH) 43" x 43" **BALER WEIGHT WITHOUT FLUFFER** 121.915 lb 55,300 Kg (less oil) **BALER WEIGHT WITH FLUFFER** 60,500 Kg (less oil) 133,380 lb NUMBERS OF WIRES 5 5

TECHNICAL DATA

MAIN MOTOR **POWER**

2x90 kw

MAIN HYDRAULIC **PUMP**

Two "REXROTH" variable flow pump with full regenative circuit

PUMP FLOW **CAPACITY**

273 GPM/ 1035 I/min

OPERATING PRESSURE

3200-4000 PSI (220-280 Bar) 4500 PSI (315 Bar)

MAIN **CYLINDER**

bore (11" - 280 mm)

RAM FORCE

414.000 lbs/ 200.000 kg

RAM FORCE PRESSURE

16,5 kg/ cm² 235 PSI

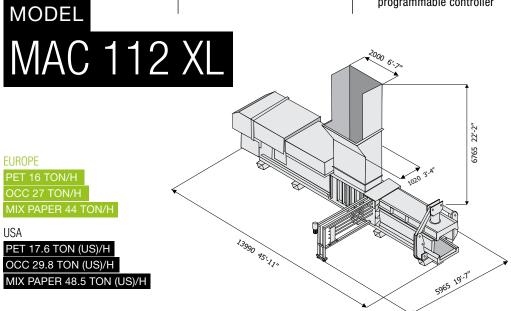
OIL RESERVOIR CAPACITY

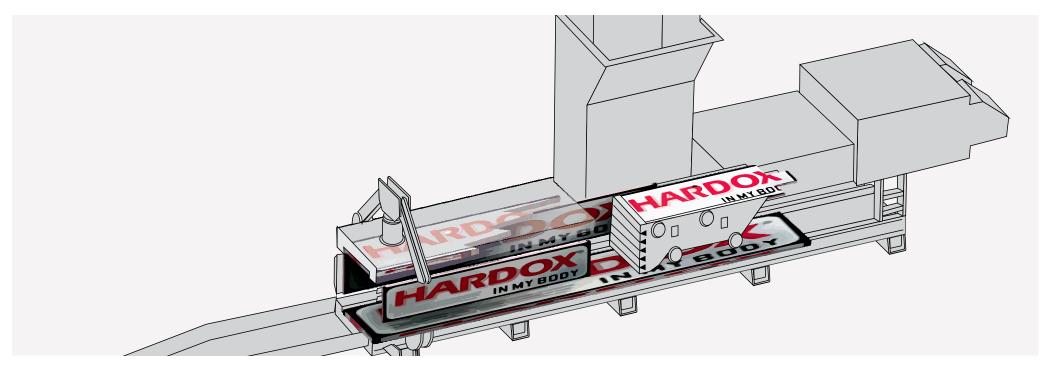
792 US Gal 3000 L

COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

OPERATING CONTROL





WEAR RESISTANT

CORE VALUE









HARDOX STEEL LINERS



Bolted liners made of HARDOX wear-resistant plates, which extends working life of the machines.

The HARDOX steel plates bolted in the counterpressure channels and in the compaction chamber and can be easily replaced.

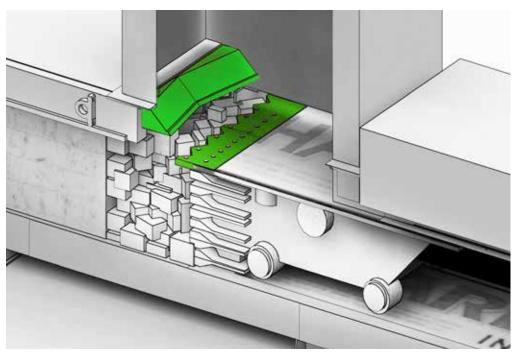
THIS WEAR RESISTANT SYSTEM PROTECTS THE MACHINE FROM ABRASION AND CORROSION.

- 1. RESISTANCE TO WEAR AND CHEMICAL AGENTS
- 2. FAST REPLACEMENT (PATENTED BOLTED FIXING SYSTEM)
- 3. MINIMIZE BALER DOWNTIME

400%

LONGER LASTING

THAN NORMAL STEEL







CUTTING SYSTEM

CORE VALUE







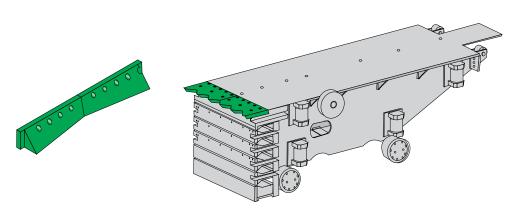
LOW ENERGY CONSUMPTION



LONG LASTING

HIGH EFFICIENCY BLADE

BLADES DESIGNED BY MACPRESSE TO OPTIMISE CUTTING OF EXCESS MATERIAL IN HOPPER. THE BLADE ARE TEMPERED TO ENSURE A LONGER SERVICE LIFE.



BACK PRESSURE DISCHARGE SYSTEM



HYDRAULIC DEVICE FOR FAST ZERO-SETTING OF COUNTERPRESSURE.





HYDRAULICS

CORE VALUE







HARSH ENVIRONMENTS



LOW ENERGY CONSUMPTION



EASY MAINTENANCE

SMART SYSTEM ADAPTABLE TO MATERIAL

THE HYDRAULIC UNIT CONSISTS OF A SERIES OF REXROTH VARIABLE FLOW RATE PUMPS WHICH ADJUST THE ADVANCE SPEED OF THE COMPACTING CARRIAGE AND THE THRUST ACCORDING TO THE MATERIALS TO BE BALED.

Pumps outside oil tank for a better performance and easier maintenance. Installation of variable flow rate pumps provides a better performance with reduced consumption.

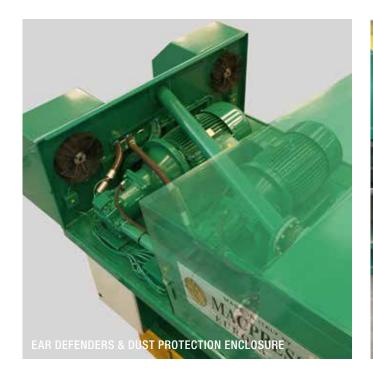
High efficiency IE3 electric motors are adopted, with a 30% energy saving compared with traditional motors.

30%

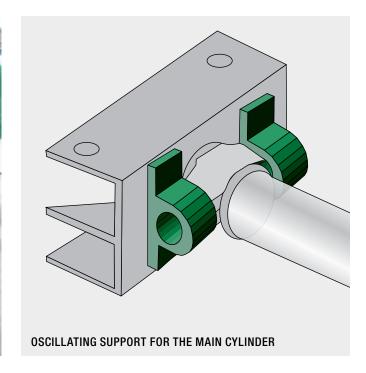
ENERGY SAVINGS

COMPARED TO TRADITIONAL ELECTRIC MOTORS

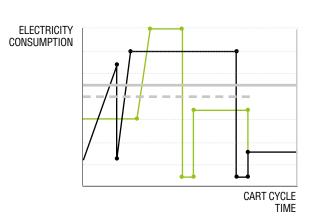








CONSUMPTION - CYCLE TIME DIAGRAM



CONSUMPTION

PRE-COMPACTION

TREND PRESS WITHOUT

CONSUMPTION

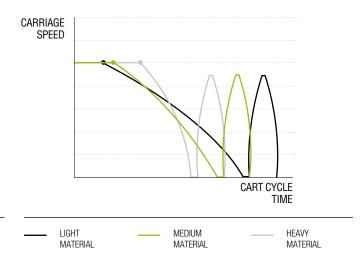
TREND PRESS WITH

PRE-COMPACTION

PRESSURE - CYCLE TIME DIAGRAM



CARRIAGE SPEED - CYCLE TIME DIAGRAM



CONSUMPTION

MEDIUM WITH

PRE-COMPACTOR

19









FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

ELECTROMECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

This system simplifies the cleaning process for the tying machine, guaranteeing greater safety for the operator. The maintenance and cleaning of the tying machine is carried out at floor level operations on the steel wire are not required beneath the machine.

TYING METHOD



 $5+3_{\text{WIRES}}$



 $5\,\text{wires}$



4 wires



3 WIRES



















ELECTRICAL COMPONENTS

CORE VALUE

SIEMENS



OPERATOR SAFETY



EASY MAINTENANCE

CONNECTION OF ELECTRICAL COMPONENTS

Connections using SCART leads and electrical cables protected by rodent-proof and fire-resistant sheaths





IMMEDIATE RECONFIGURATION OF MACHINE PARAMETERS FOR MULTI-MATERIAL PROCESSING

AUTOMATIC CONFIGURATION OF BALING PARAMETERS ACCORDING ON SELECTED INFEED MATERIALS, TO ACHIEVE MAXIMUM BALE DENSITY, REDUCTION OF TRANSPORT COSTS

PROCESSING ADVANTAGES:

OPTIMISED BALES WEIGHT ACCORDING TO MATERIAL TO BE BALED













STEEL PLATE CONVEYOR

OPTIONAL









DESIGN AND MANUFACTURE INTEGRATED WITH THE PRESS

Conveyor belts are designed and manufactured to match hourly productions rates for each baler model optimizing operating costs.

P MODEL 4-5,5-7,5 KW 200 MM CHAIN PITCH

RDF - RECYCLABLES







FLUFFER CONDITIONER

Mechanical device for processing paper materials, reduces infeed density prior to compaction, improves bale density and quality

- reduced electrical consumption
- greater density
- store more bales and more tons in less space





SHREDDERS

Electrical single shaft with fixed hammers. Allows high density, coated, fibrous materials to be pre-conditioned.

Allows appropriate mixing of different qualities of waste and reduces wear of press.
High productivity even with materials in packs.

MACPRESSE PRODUCES SPECIAL MACHINES FOR THE PAPER INDUSTRY, AUTOMATIC PRESSES WITH AN HOURLY OUTPUT OF BETWEEN 3 AND 60 TONS PER HOUR AS WELL AS OTHER ANCILLARY EQUIPMENTS







MAC SUPERVISOR SYSTEM MSS1 & MSS2

OPTIONAL

SIEMENS







OUTPUT OPTIMIZATION



DOWNTIME

OPTIMISATION OF PRODUCT OUPUT AND REDUCTION OF MACHINE STOPPAGE DOWNTIMES AND COSTS







FUNCTIONS:

- A. Setting of machine parameters according to material to be baled (combined with MDO system)
- B. Alarms management
- C. Remote assistance
- D. 5 languages

MSS1

- 20 SETTINGS
- REAL TIME PRODUCTION REPORT
- PHOTOGRAPHIC FAULT DISPLAY



MSS2

- 5 SETTINGS
- FAULT SIGNALLING







SAFETY COMPONENTS

OPTIONAL

OPERATOR SAFETY



OPERATOR SAFETY SYSTEM

MSB (MAC SAFETY BELT) IS A MACPRESSE PATENT

ALLOWS THE PLANT TO BE STOPPED IN THE CASE OF ACCIDENTAL FALLING OF THE OPERATOR IN THE PRESS FEED BELT



SAFETY KEYS

Installed on all machine access points.



PLASTIC BALES & STORAGE





PLASTIC MATERIALS













MULTI-MATERIAL BALES

BALES INTEGRITY













TRANSPORT EFFICIENCY







MARTIME TRANSPORT

RAIL AND ROAD TRANSPORT











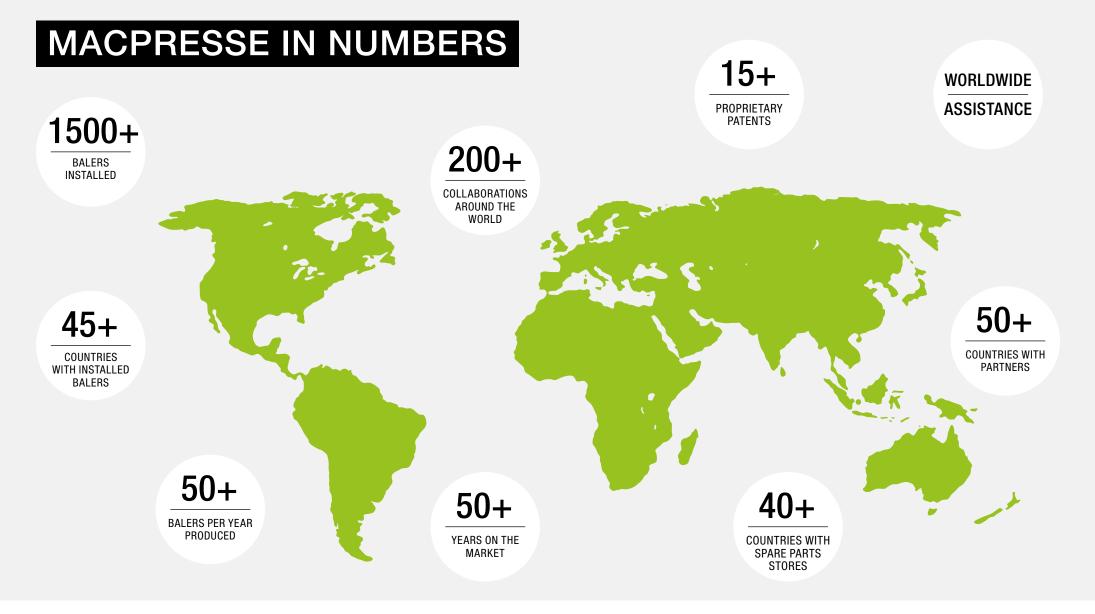


BALING PRESS AND SHREDDER



BALING PRESS AND FLUFFER CONDITIONER





CONTACTS

For futher information visit www.macpresse.com or contact us: e-mail info@macpresse.com tel. +39 02 905 24 20

SOLUTION FEATURES



DENSITY







STOWAGE



TRANSPORT



