

# MACPRESSE: A GLOBAL ITALIAN SUCCESS STORY Copyright © Macpresse Europa - P.IVA 04413130966





## MACPRESSE PRODUCTS, OUR DISTINCTIVE VALUES

#### PRODUCTION EFFICIENCY

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

#### REMOTE SOFTWARE SUPPORT

Integrated troubleshooting modem.

#### **ENERGY SAVING**

First class Bosch-Rexroth hydraulic pumps.

#### MACPRESSE TYING

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

#### HIGH WEAR RESISTANCE

Patented HARDOX steel liners.

#### HIGH EFFICIENCY MOTORS

High efficiency IE3 motors, reduced electricity consumption compared with traditional motors.

## MACPRESSE

TIMELINE



1970

FIRST AUTOMATIC PRESS



2010

Steel structural work PRODUCTION SITE 3.000 m<sup>2</sup>



1961

Meccanica Agricola Cartaria



1991

New facilities 11.000 m<sup>2</sup> COVERED SPACE



Established in Brescia, in a small workshop where the FIRST AGTRICULTURA MACHINERY WAS MANUFACTURED



1968

**FIRST PRESS** for baling paper



1996

Expansion of facilities 17.000 m<sup>2</sup> COVERED SPACE



MILAN FACTORY FOUNDED BY THE SCOTUZZI FAMILY IN 1805, MACPRESSE IS NOW DOING BUSINESS IN MORE THAN 50 COUNTRIES WORLDWIDE.

#### MACPRESSE QUALITY PROCESS

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





STEP 2

COMPUTER NUMERICAL CONTROL (CNC)







STEP 3
STRUCTURAL STEEL CONSTRUCTION







PRODUCTION AND ASSEMBLY







STEP 5
PAINTING



STEP 6
TESTING



STEP 7
STORAGE



STEP 8
DELIVERY



STEP 9

**ON-SITE ASSEMBLY** 



STEP 10

COMMISSIONING/ TRAINING



STEP 11

LOCAL TECHNICAL IN 40 COUNTRIES



STEP 12

SPARE PARTS INVENTORY



# WORKING WITH MACPRESSE RESEARCH

ALL NEW EQUIPMENT IS DESIGNED UTILIZING THE COMPANY'S MANY DECADES OF EXPERIENCE AND ENGINEERING EXPERTISE.

MACPRESSE IS ATTENTIVE TO MARKET NEEDS AND CUSTOMER INPUT.

MACPRESSE IS A GLOBAL LEADER IN EQUIPMENT DESIGN FOR THE TREATMENT OF WASTE AND RECYCLABLES.





### DESIGN

#### DESIGNED AND MANUFACTURED ENTIRELY IN MILAN (ITALY), AT THE MACPRESSE FACTORIES

- TECHNOLOGICALLY ADVANCED
- BUILT WITH EXTRA HEAVY CONSTRUCTION
- DESIGNED FOR LONG LIFE
- MADE WITH ATTENTION TO EVERY DETAIL WITH AUTOCAD DESIGN AND CNC MACHINERY
- MADE WITH THE BEST AVAILABLE COMPONENTS AND MATERIALS

### COMPUTER NUMERICAL CONTROL (CNC)

OUR RESULTING RESEARCH HAS ALLOWED US TO CREATE A TEAM OF ENGINEERS AND PROFESSIONALS FROM ALL PARTS OF THE WORLD WITH SUPERB TRAINING AND HIGHLY TECHNICAL EXPERIENCES.

OUR COLLECTIVE KNOWLEDGE ALLOWS US TO MAKE EVERY MACPRESSE MACHINE WITH DETAILED ATTENTION TO ALL CONSTRUCTION FEATURES USING AUTOCAD DESIGN AND CNC MACHINERY.













### STRUCTURAL STEEL CONSTRUCTION







# WE ARE CONSTANTLY EVALUATING NEW DESIGNS AND METHODS TO DEVELOP INNOVATIVE SYSTEMS AND EQUIPMENT DESIGNED TO EFFICIENTLY PROCESS AND TREAT VARIOUS KINDS OF WASTE AND RECYCLABLES.

THE SMALLEST DETAILS OF EVERY NEW PRODUCT ARE STUDIED, BRINGING TOGETHER THE COMPANY'S MANY YEARS OF EXPERIENCE, ENGINEERING EXCELLENCE AND CONTINUOUS AWARENESS OF THE NEEDS OF THE DEVELOPING MARKET, WITH SPECIAL ATTENTION TO THE PARTICULAR REQUIREMENTS OF EACH COUNTRY IN WHICH WE OPERATE.



REPLACEABLE BOLT-IN LINERS MADE OF HARDOX WEAR-RESISTANT STEEL, EXTENDS USEABLE LIFE OF THE BALERS. THE SPECIAL LINERS ARE BOLTED IN THE EXTRUSION CHANNELS AND COMPACTION CHAMBER IN CONTACT WITH RAW MATERIALS. THIS IS A TREND SET BY MACPRESSE.



### PRODUCTION AND ASSEMBLY



WE ARE CONSTANTLY EVALUATING NEW DESIGNS AND METHODS TO DEVELOP INNOVATIVE SYSTEMS AND EQUIPMENT DESIGNED TO EFFICIENTLY PROCESS AND TREAT VARIOUS KINDS OF WASTE AND RECYCLABLES.





# WORKING WITH MACPRESSE PAINTING

#### **USE OF WATER-BASED PAINT WITH LOW ENVIRONMENTAL IMPACT**











## DRY TEST AND QUALITY CONTROL

# OUR QUALITY GUARANTEE IS BASED ON A PROPRIETARY PROCESS DESIGNED IN-HOUSE THAT REQUIRES EXACTING TEST ON ALL MECHANICAL COMPONENTS, THEREBY ENSURING PROPER OPERATION BEFORE AND AFTER INSTALLATION.

Prior to releasing any Macpresse equipment to our customers, a comprehensive review is made on all hydraulic and mechanical pressures.







#### MACPRESSE REQUIRES OUR SUPPLIERS TO BE OF THE HIGHEST QUALITY AND GUARANTEE:

BOSCH REXROTH (FOR HYDRAULIC COMPONENTS), SIEMENS (FOR ELECTRONIC COMPONENTS) AND HARDOX (FOR ALL WEAR-RESISTANT LINERS).







# WORKING WITH MACPRESSE STORAGE & DELIVERY





# **OVER 50 YEARS**

MACPRESSE HAS A PROVEN REPUTATION FOR DESIGNING AND MANUFACTURING TECHNOLOGICALLY INNOVATIVE AND RELIABLE EQUIPMENT.

OUR PRESSES CAN BE USED IN DIFFERENT ENVIRONMENTS THANKS TO THE AVAILABILITY OF BOTH SMALL PRESSES, WHICH ARE IDEAL FOR LOGISTICS CENTRES, AND LARGE PRESSES WHICH ARE PERFECT FOR LANDFILL SITES.

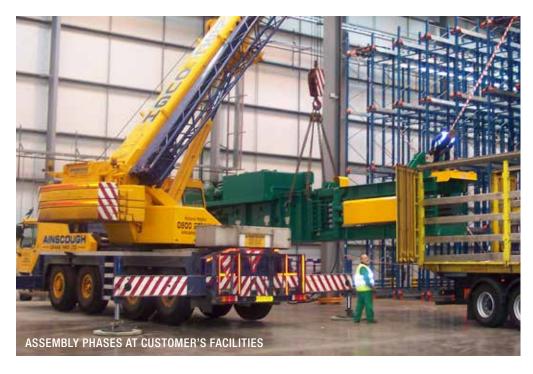
# WE DESIGN CUSTOM-MADE SYSTEMS AND SOLUTIONS, OFFERING COMPREHENSIVE CONSULTANCY FOR OUR CUSTOMERS.

WE AT MACPRESSE VIEW OUR CUSTOMERS AS AN ESSENTIAL RESOURCE, WE LISTEN TO THEM TO LEARN ABOUT THEIR RELEVANT NEEDS AND POTENTIAL INDUSTRY CHANGES. THIS IS ESSENTIAL TO ACHIEVE OUR GOAL IN PROVIDING SEAMLESS INTEGRATION PROCESS AND ASSIST WITH IMPROVED DAY-TO-DAY PLANT OPERATIONS.

### ON-SITE ASSEMBLY, TRAINING & START-UP

PRIOR TO RELEASING ANY MACPRESSE EQUIPMENT TO OUR CUSTOMERS, A COMPREHENSIVE REVIEW IS MADE ON ALL HYDRAULIC AND MECHANICAL PRESSURES. WE ALSO TEST THE COMPUTER SYSTEM MANAGEMENT AND SOFTWARE OPERATION.

START-UP AND TRAINING FOR OUR CUSTOMERS





# WORKING WITH MACPRESSE GLOBAL SUPPORT

# MACPRESSE IS PRESENT THROUGHOUT THE WORLD THANKS TO ITS SKILLS AND EXCELLENCE IN MANUFACTURING WASTE MATERIAL RECYCLING AND PROCESSING PLANTS

OUR CUSTOMERS CAN RELY ON AFTER-SALES SUPPORT THROUGHOUT THE 5 CONTINENTS. WE DESIGN CUSTOMISED SOLUTIONS AND THANKS TO OUR TEAM OF SKILLED TECHNICIANS THE AFTER-SALES NETWORK CAN GUARANTEE MINIMUM MACHINE DOWNTIMES.





MACPRESSE SPARE PARTS STORES ARE
PRESENT IN OVER 50 COUNTRIES WHERE
WE EXPORT. WE PROVIDE TRACKING
AND CODING OF ALL THE SPARE PARTS
TO GUARANTEE THAT STOCK IS ALWAYS
AVAILABLE. WE MAINTAIN OVER 3 MILLION
EUROS OF SPARE PARTS STOCK TO SUPPORT
CUSTOMERS IN 5 CONTINENTS.

#### MACPRESSE PRODUCT RANGE

THE COMPLETE MACPRESSE PRODUCT RANGE: BALERS FOR RECYCLABLE, BALERS FOR WASTE, CONVEYOR, SHREDDER, PLANTS.

PRODUCT 1

SMALL DIMENSIONS
BALER



PRODUCT 2

MEDIUM DIMENSIONS

BALER





PRODUCT 3
BALER FOR

RECYCLABLE















PRODUCT 4

BALER FOR WASTE









PRODUCT 5
CONVEYOR





PRODUCT 6
SHREDDER









PRODUCT 7
PLANTS

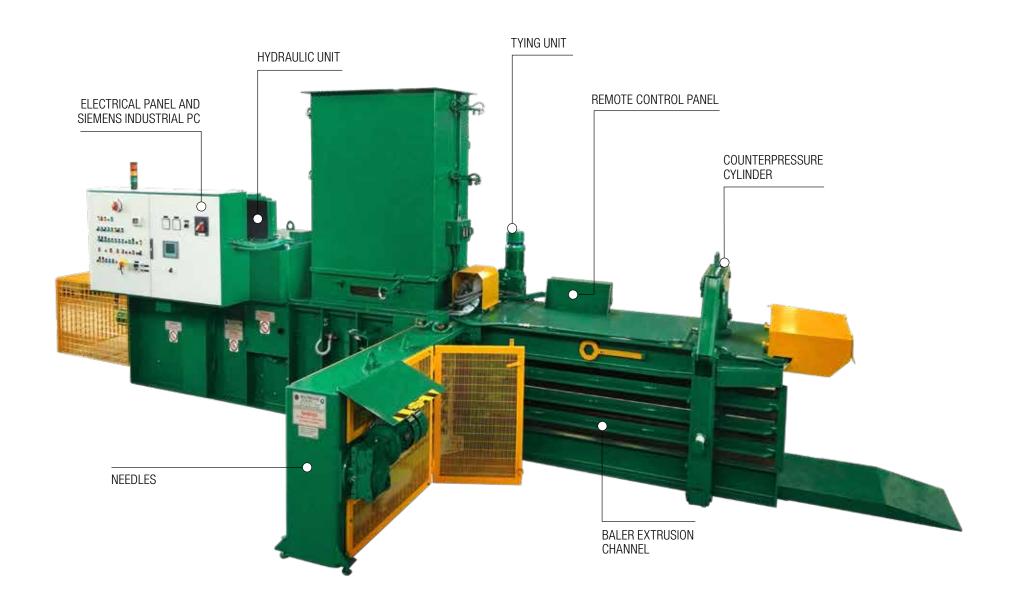




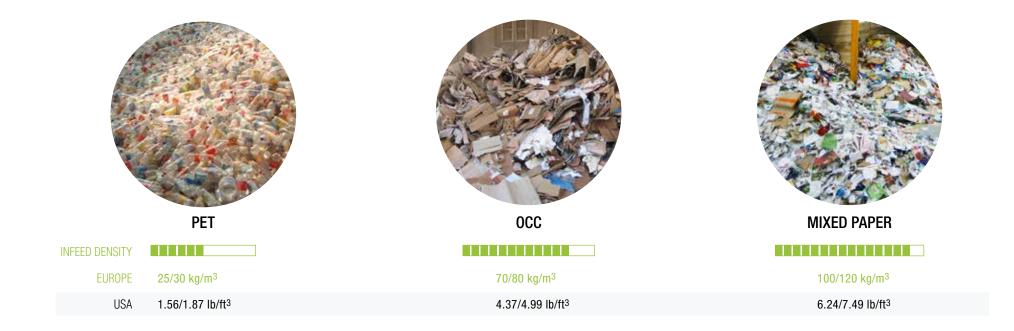
# MAC 102 A SMALL BALER WITH BIG PERFORMANCE



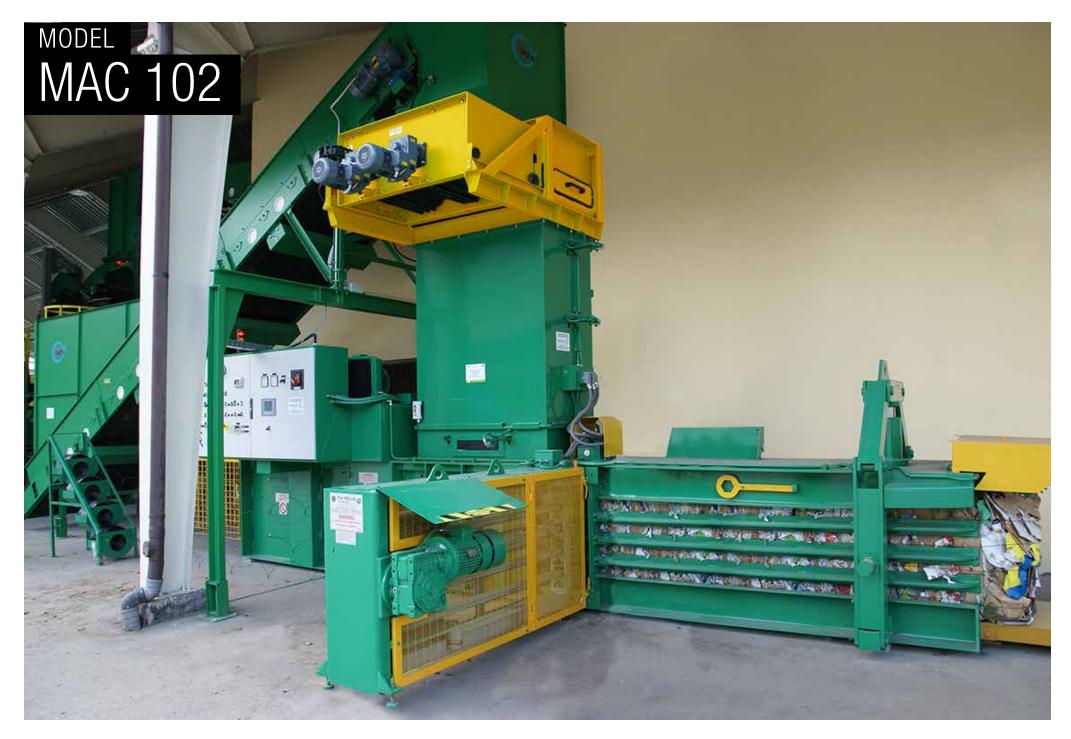
# MAC 102 GENERAL DESCRIPTION



# MATERIALS PROCESSED AND PERFORMANCE



PET 2 TON/H
OCC 5 TON/H
MIX PAPER 6 TON/H
USA
PET 2.2 TON (US)/H
OCC 5.5 TON (US)/H
MIX PAPER 6.6 TON (US)/H



# 30 HP MOTOR POWER

# 60 TON / 132 000 LB

#### NO LOAD PERFOMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPE	1,0 m <sup>3</sup>	272 m <sup>3</sup> /h	4,5	13 sec
USA	35.3 ft <sup>3</sup>	9 605 ft <sup>3</sup> /h	4.5	13 sec

LOADING VOLUME VOLUMETRIC PRODUCTION CYCLES PER MINUTE

#### TECHNICAL DATA

#### MAIN MOTOR POWER

22 kw

#### MAIN HYDRAULIC PUMP

Double vane pump

#### PUMP FLOW CAPACITY

184 L/min 48.6 US Gal/min

#### OPERATING CONTROL

CYCLE TIME

Siemens S7 1500 programmable controller

#### RAM FORCE

60 000 kg 132 000 lbs

#### RAM FORCE PRESSURE

9.3 kg/ cm<sup>2</sup> 133 Psi

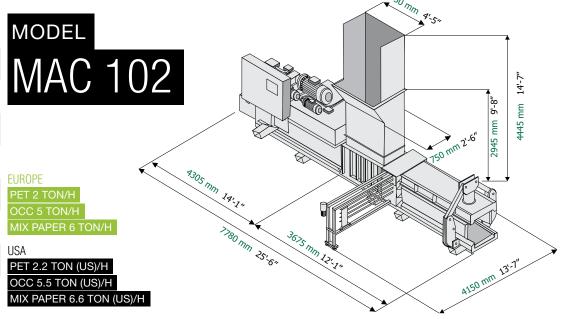
#### OIL RESERVOIR CAPACITY

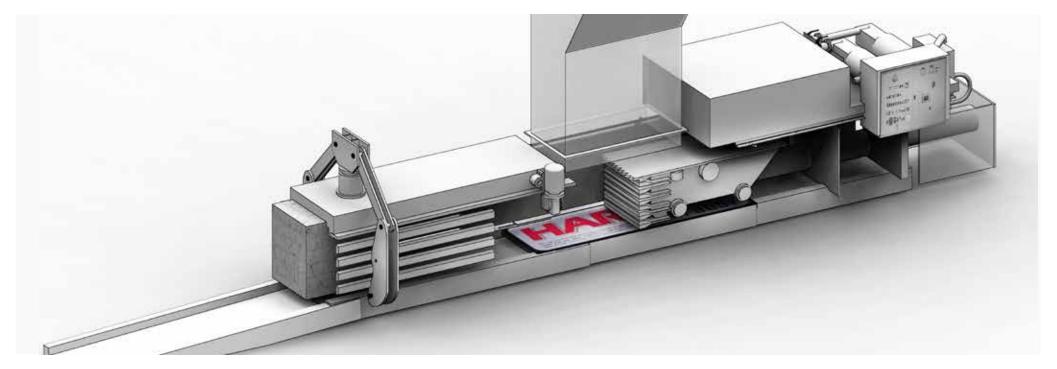
1 300 L 343 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	7780	25'6''
MAXIMUM WIDTH	4 150 (at tier station)	13'7''
OVERALL HEIGHT	2 945 (at flange hopper)	9'8''
FEED OPENING	1 350 x 750	53'' x 29'' ½
BALE DIMENSIONS W x H	800 x 800	31" ½ x 31" ½
BALER WEIGHT WITHOUT FLUFFER	10 700 Kg (without oil)	23 590 lbs
BALER WEIGHT WITH FLUFFER	13 200 Kg (without oil)	29 100 lbs
NUMBERS OF WIRES	4	4





WEAR RESISTANT

CORE VALUE









LONG SERVICE LIFE

HARDOX STEEL LINERS



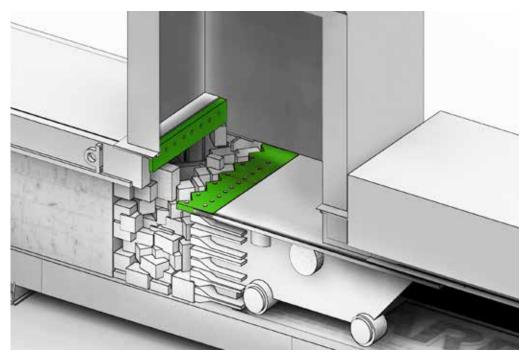
BOLT-IN WEAR LINER MADE OF HARDOX WEAR-RESISTANT STEEL, EXTENDS EQUIPMENT LIFE. BOLT-IN, REPLACEABLE WEAR LINERS ARE LOCATED ON FLOOR OF MAIN RAM.

This wear resistant system protects the baler from abrasion and corrosion.

- 1. RESISTANCE TO WEAR AND CHEMICAL AGENTS
- 2. RAPID REPLACEMENT (PATENTED BOLT-IN SYSTEM)
- 3. MINIMIZE BALER DOWNTIME

400%

LONGER LASTING
THAN STANDARD STEEL







#### **CUTTING SYSTEM**

CORE VALUE





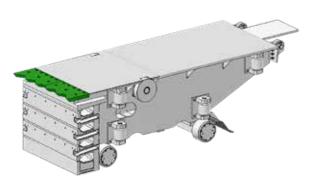


LONG SERVICE LIFE

#### HIGH EFFICIENCY BLADE

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





#### **COUNTER-PRESSURE SYSTEM**



HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF OUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.



#### HYDRAULICS SYSTEM

CORE VALUE











Y EASY ON MAINTENANCE

#### **SMART SYSTEM ADAPTABLE TO MATERIAL**

PUMPS POSITIONED OUTSIDE OF OIL TANK FOR A BETTER PERFORMANCE AND EASIER MAINTENANCE.

THE INSTALLATION OF VANE PUMP HIGH-LOW PRESSURE PROVIDES A BETTER PERFORMANCE WITH REDUCED ELECTRICAL CONSUMPTION.
HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL ELECTRIC MOTORS.

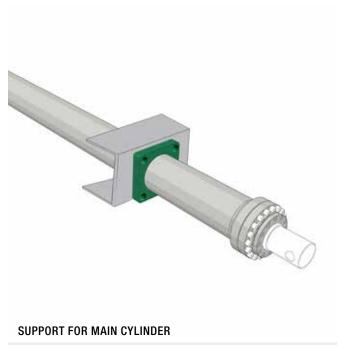
30%

#### **ENERGY** SAVINGS

COMPARED TO TRADITIONAL ELECTRIC MOTORS



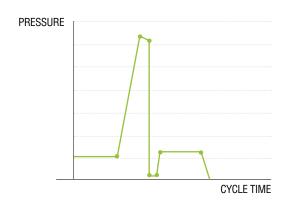




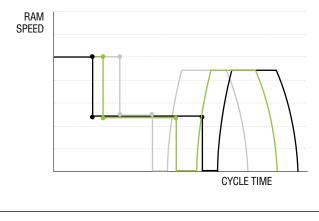
#### CONSUMPTION - CYCLE TIME DIAGRAM

# CYCLE TIME

#### PRESSURE - CYCLE TIME DIAGRAM



#### RAM SPEED - CYCLE TIME DIAGRAM







**ELECTRICAL COMPONENTS** 

CORE VALUE





HIGH CABLE RESISTANCE



OPERATOR SAFETY



**CONNECTION OF ELECTRICAL COMPONENTS** 

Electrical connections are made using SCART leads. Electrical cables are protected by rodent-proof and fire-resistant sheaths.









#### FLEXIBILITY OF USE AND REDUCED OPERATING COSTS

#### ELECTRO-MECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

This system simplifies the cleaning process for the tying unit, providing increased safety for the operator. The maintenance and cleaning of the tying unit is done at floor level; replacement of baling wire is at floor level, no pit needed.



**TYING METHOD** 



 $4_{\text{WIRES}}$ 







#### MULTI-MATERIALS BALES

**BALES INTEGRITY** 

#### TRANSPORT EFFICIENCY

ROAD TRANSPORT





SEA Transport

#### **ROAD TRANSPORT**



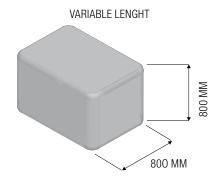






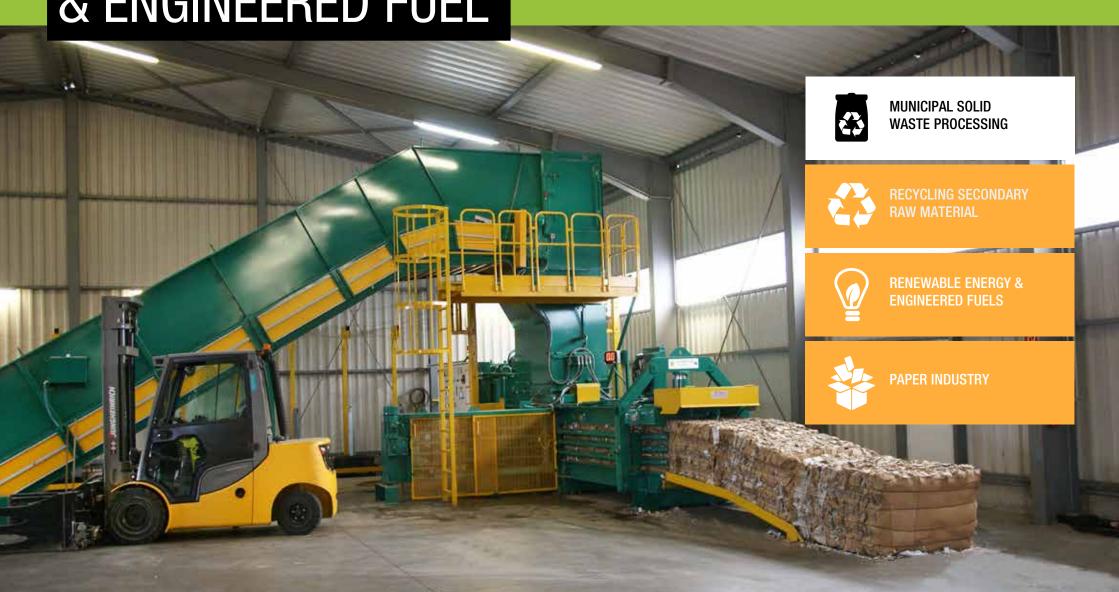






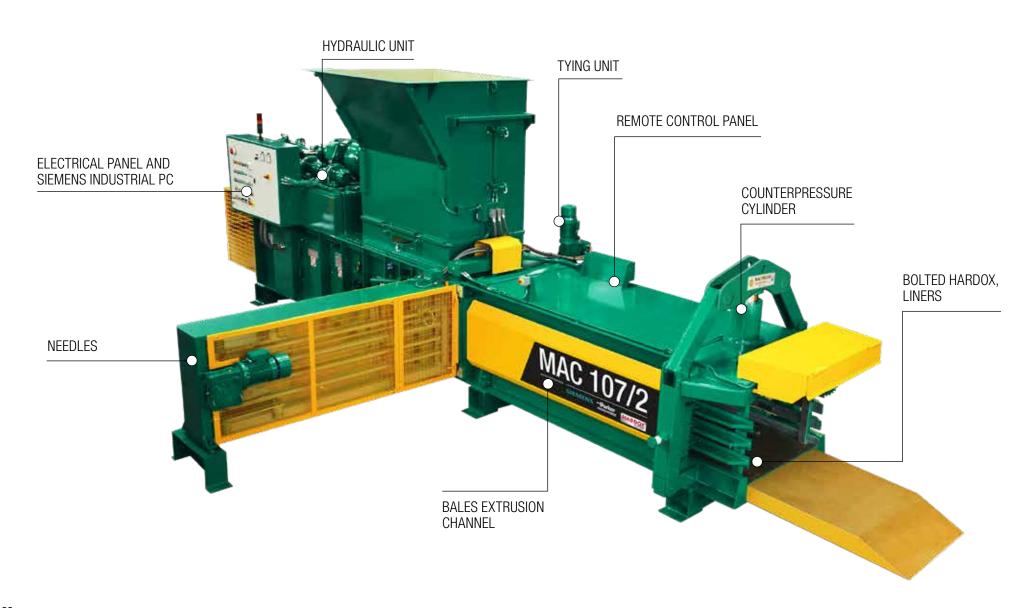
DIMENSIONS OF BALES ARE SUITABLE FOR OPTIMIZING LOADING OPERATIONS OF THE MOST COMMON LAND, SEA AND RAILROAD METHODS OF TRANSPORTATION.

## MAC 106/2 - 107/2 DESIGNED FOR MIDSIZE REYCLING PLANTS, SRF & ENGINEERED FUEL



# MAC 106/2 - 107/2

GENERAL DESCRIPTION



## MATERIALS PROCESSED AND PERFORMANCE



Mac 106/2

PET 6 TON/H
OCC 12 TON/H
MIX PAPER 20 TON/H
RDF 24 TON/H

USA

PET 6.6 TON (US)/H
OCC 13.2 TON (US)/H
MIX PAPER 22 TON (US)/H
RDF 26.4 TON (US)/H

Mac 107/2

EUROPE
PET 7 TON/H
OCC 13.5 TON/H
MIX PAPER 22 TON/H
RDF 26.5 TON/H
USA

PET 7.7 TON (US)/H
OCC 14.8 TON (US)/H
MIX PAPER 24.2 TON (US)/H
RDF 29.1 TON (US)/H



# **MOTOR POWER**

#### **CUTTING AND THRUST POWER** 75 TON / 165 500 LB

#### NO LOAD PERFOMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

**FUROPE** 

56.5 ft<sup>3</sup>

439 m<sup>3</sup>/h

15 503 ft<sup>3</sup>/h

4.6

13 sec

13 sec

4.6

1.6 m<sup>3</sup>







**VOLUMETRIC PRODUCTION CYCLES PER MINUTE** LOADING VOLUME

CYCLE TIME

#### TECHNICAL DATA

#### **MAIN MOTOR POWER**

45 kw

#### MAIN HYDRAULIC **PUMP**

Double vane pump

#### **PUMP FLOW CAPACITY**

309 L/min 81.6 US Gal/min

#### **OPERATING** CONTROL

Siemens S7 1500 programmable controller

#### RAM **FORCE**

75 000 kg 165 500 lbs

#### **RAM FORCE PRESSURE**

9 kg/ cm<sup>2</sup> 129 PSI

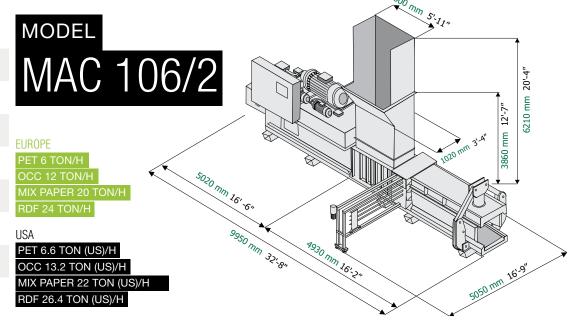
#### **OIL RESERVOIR CAPACITY**

1 400 L 370 US Gal

#### **COOLING** SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	9 950	32'8''
MAXIMUM WIDTH	5 050 (at tier station)	16'7''
OVERALL HEIGHT	3 860 (at flange hopper)	12'7"
FEED OPENING	1 800 x 1 020	71'' X 40''
BALE DIMENSIONS W x H	1 100 x 750	43" <sup>1</sup> /3 x 29"½
BALER WEIGHT WITHOUT FLUFFER	21 000 KG (without oil)	46 297 lb
BALER WEIGHT WITH FLUFFER	25 500 KG (without oil)	56 217 lb
NUMBERS OF WIRES	4	4





# 100 HP MOTOR POWER

# 95 TON / 209 450 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 1,6 m³ 478 m³/h 5 12 sec USA 56.5 tt³ 16 880 tt³/h 5 12 sec

#### TECHNICAL DATA

#### MAIN MOTOR POWER

75 kw

#### MAIN HYDRAULIC PUMP

Double vane pump

#### PUMP FLOW CAPACITY

434 L/min 114 US Gal/min

#### OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

95 000 kg 209 450 lbs

#### RAM FORCE PRESSURE

11.5 kg/cm<sup>2</sup> 163.5 PSI

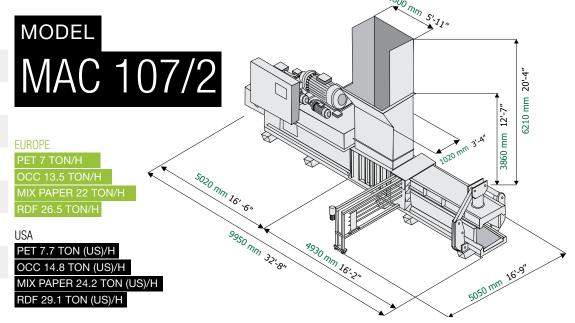
#### OIL RESERVOIR CAPACITY

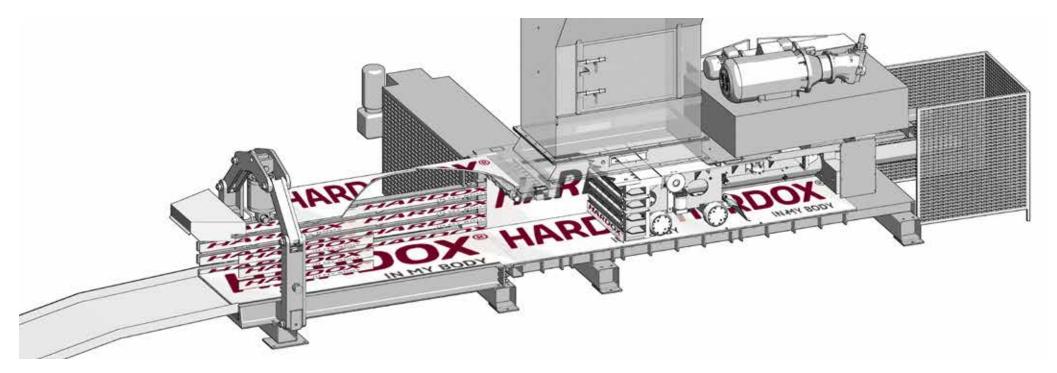
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FEED OPENING	1 800 x 1 020	71'' x 40''
BALE DIMENSIONS W x H	1 100 x 750	43" <sup>1</sup> / <sub>3</sub> x 29"½
BALER WEIGHT WITHOUT FLUFFER	22 000 Kg (without oil)	48 501 lb
BALER WEIGHT WITH FLUFFER	26 500 Kg (without oil)	58 422 lb
NUMBERS OF WIRES	4	4





WEAR RESISTANT

CORE VALUE









HARDOX STEEL LINERS



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

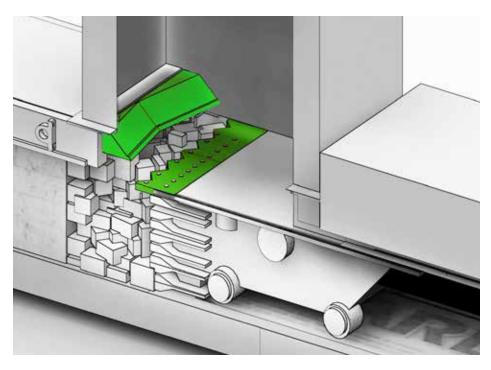
Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

- 1. RESISTANCE TO WEAR AND CHEMICAL AGENTS
- 2. RAPID REPLACEMENT (PATENTED ATTACHMENT SYSTEM)
- 3. MINIMIZE BALER DOWNTIME

400%

LONGER LASTING

THAN STANDARD STEEL







#### **COUNTER-PRESSURE SYSTEM**

HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.





LOW ELECTRICAL CONSUMPTION

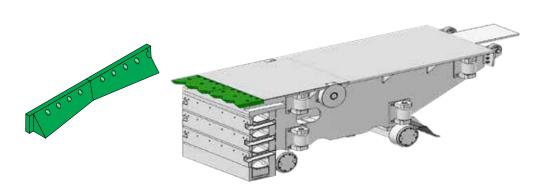


LONG SERVICE LIFE

#### HIGH EFFICIENCY BLADE

**CUTTING SYSTEM** 

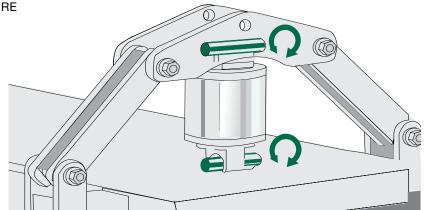
THE BLADES HAVE BEEN DESIGNED BY MACPRESSE TO OPTIMIZE THE CUTTING OF EXCESS MATERIAL IN THE HOPPER; THE BLADES ARE TEMPERED TO GUARANTEE A GREATER RESISTANCE TO WEAR.



CORE VALUE

#### TILTING COUNTER-PRESSURE CYLINDER

THE SYSTEM IS DESIGNED TO AVOID MECHANICAL STRESS TO THE CYLINDER OF OUNTERPRESSURE





#### **HYDRAULICS SYSTEM**

CORE VALUE











LOW ENERGY EA CONSUMPTION MAINTE

EASY MAINTENANCE

#### **SMART SYSTEM ADAPTABLE TO MATERIAL**

PUMPS POSITIONED OUTSIDE OF OIL TANK FOR A BETTER PERFORMANCE AND EASIER MAINTENANCE.

THE INSTALLATION OF VANE PUMP HIGH-LOW PRESSURE PROVIDES A BETTER PERFORMANCE WITH REDUCED ELECTRICAL CONSUMPTION.

HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL ELECTRIC MOTORS.

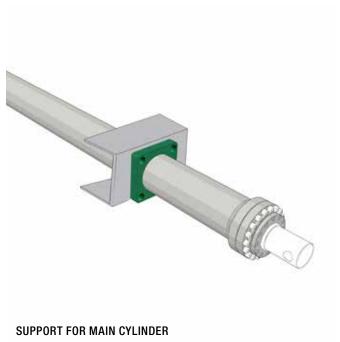
**30**%

**ENERGY SAVINGS** 

COMPARED TO TRADITIONAL ELECTRIC MOTORS



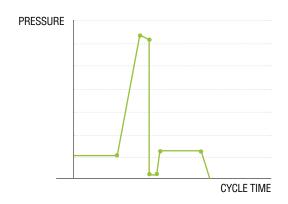




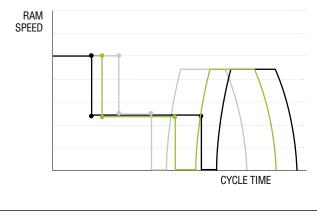
#### CONSUMPTION - CYCLE TIME DIAGRAM

# CYCLE TIME

#### PRESSURE - CYCLE TIME DIAGRAM



#### RAM SPEED - CYCLE TIME DIAGRAM







**ELECTRICAL COMPONENTS** 

CORE VALUE





ABLE O ANCE



OPERATOR SAFETY



### **CONNECTION OF ELECTRICAL COMPONENTS**

Electrical connections are made using SCART leads. Electrical cables are protected by rodent-proof and fire-resistant sheaths.









## FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

#### ELECTRO-MECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

This system simplifies the cleaning process for the tying unit, providing increased safety for the operator. The maintenance and cleaning of the tying unit is done at floor level; replacement of baling wire is at floor level, no pit needed.



#### **TYING METHOD**



 $4_{\text{WIRES}}$ 



3 WIRES









# MULTI-MATERIALS BALES

## TRANSPORT EFFICIENCY







SEA TRANSPORT

### **BALES INTEGRITY**





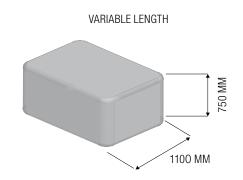










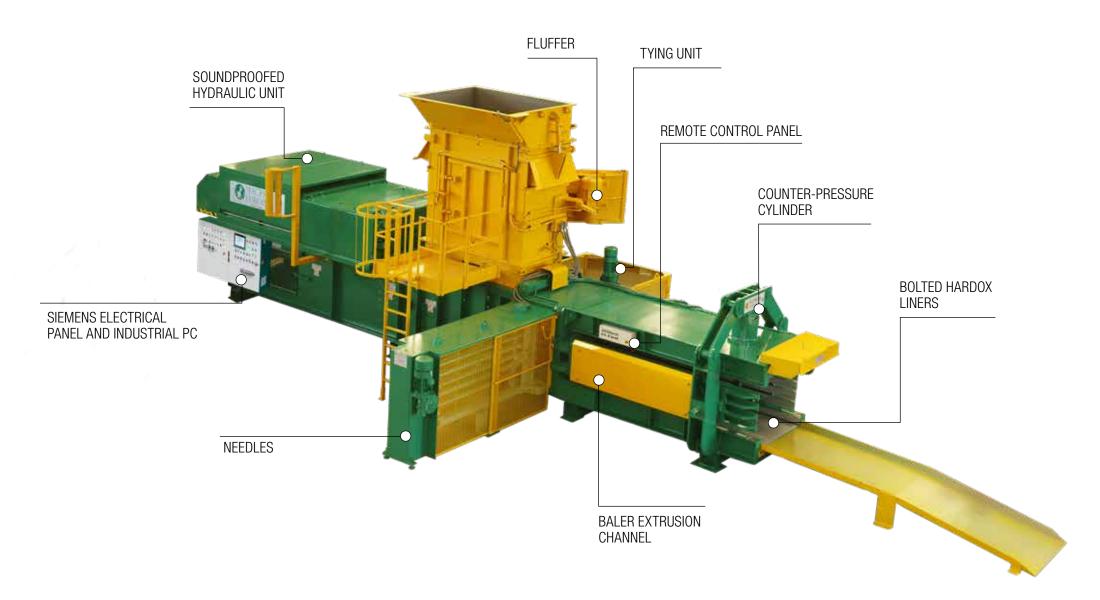


**DIMENSIONS OF BALES ARE SUITABLE FOR OPTIMIZING LOADING OPERATIONS OF THE MOST COMMON** LAND, SEA AND RAILROAD METHODS OF TRANSPORTATION.

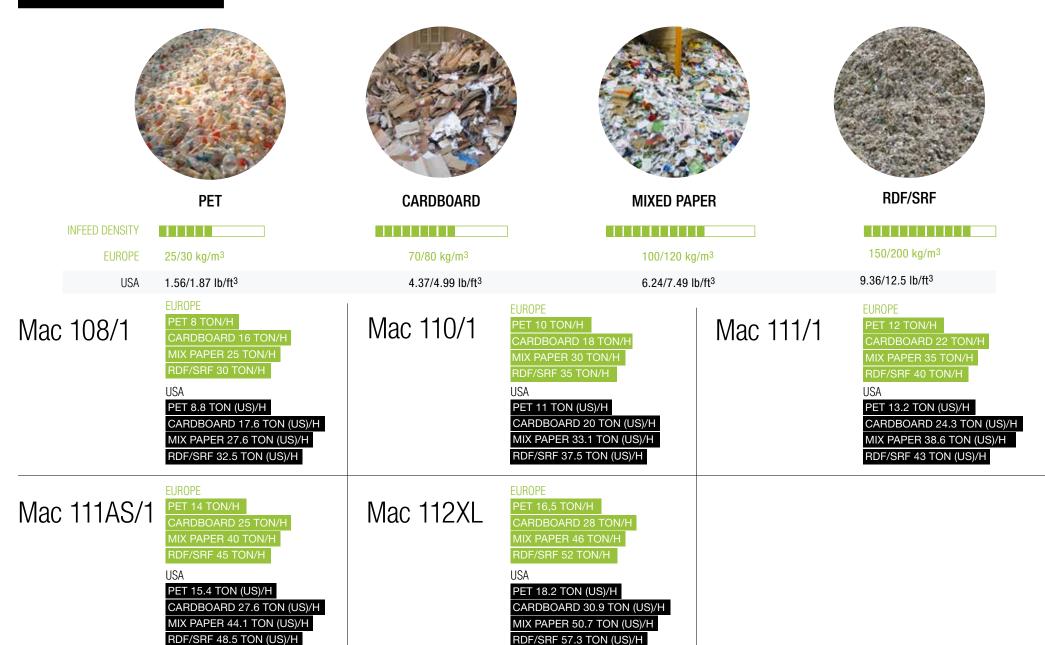
# SERIES MAC/1 EFFICIENCY OF BALERS FOR PROCESSING SECONDARY RAW MATERIALS



# MAC "/1" SERIES GENERAL DESCRIPTION



# MATERIALS PROCESSED AND PERFORMANCE





# 100 HP MOTOR POWER

# 120 TON / 264 500

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,6 m³ 545 m³/h 3,5 17 sec USA 91.8 ft³ 19 246 ft³/h 3.5 17 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

75 kw

#### MAIN HYDRAULIC PUMP

One "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

364 L/min 96 US Gal/min

## OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

120 000 kg 264 500 lb

# RAM FORCE PRESSURE

11 kg/cm<sup>2</sup> 155 PSI

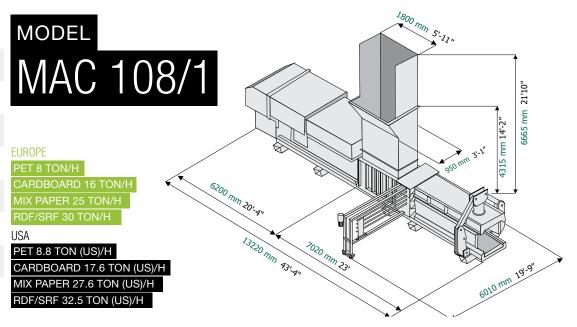
# OIL RESERVOIR CAPACITY

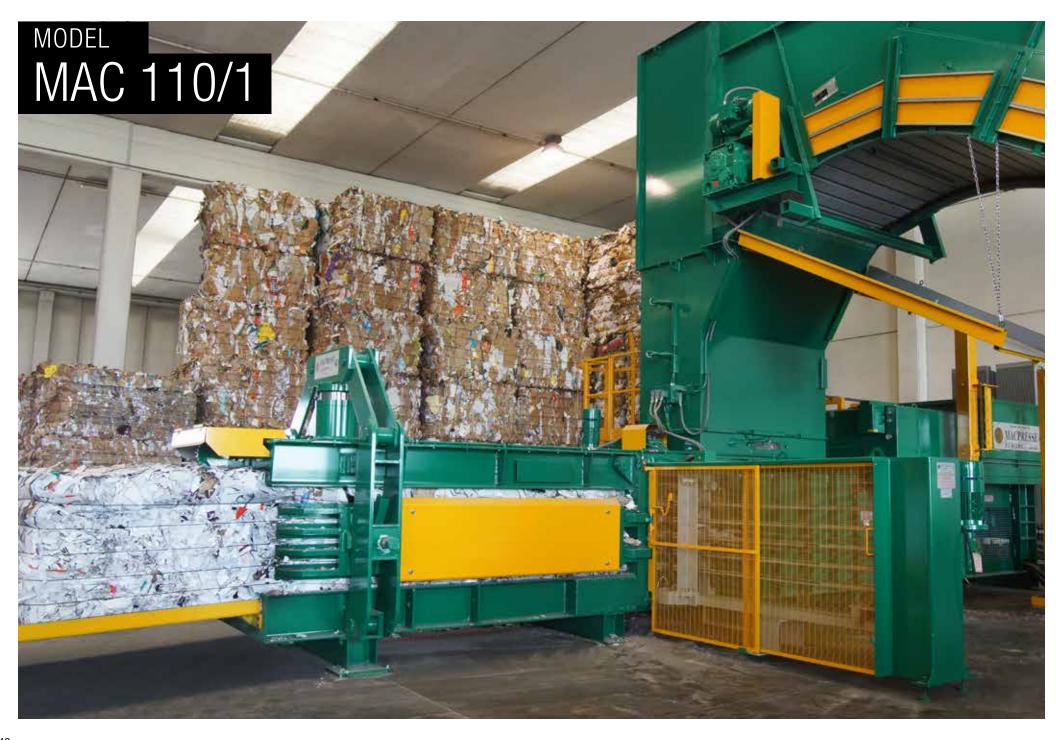
3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 220	43'4''
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
OVERALL HEIGHT	4 315 (at flange hopper)	14'2''
FEED OPENING	1 800 x 950	71''x 37''½
BALE DIMENSIONS W x H	1 000 x 1 100	39" ½ x 43"¹/3
BALER WEIGHT WITHOUT FLUFFER	38 650 Kg (without oil)	85 208 lb
BALER WEIGHT WITH FLUFFER	43 450 Kg (without oil)	95 790 lb
NUMBERS OF WIRES	5	5





# 120 HP MOTOR POWER

# 170 TON / 374 800 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,5 m<sup>3</sup> 610 m<sup>3</sup>/h 4 15 sec USA 88 ft<sup>3</sup> 21 541 ft<sup>3</sup>/h 4 15 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

90 kw

# MAIN HYDRAULIC PUMP

One "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

580 L/min 153 US Gal/min

# OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

170 000 kg 374 800 lb

# RAM FORCE PRESSURE

14 kg/ cm<sup>2</sup> 200 PSI

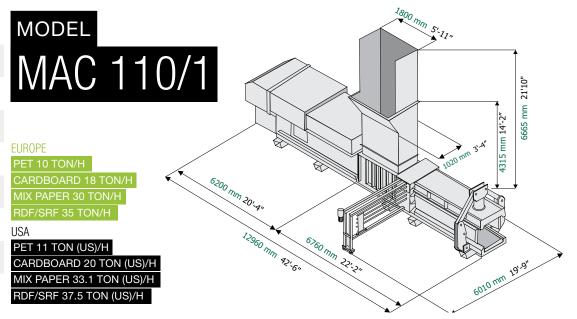
# OIL RESERVOIR CAPACITY

3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	12 960	42'6''
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
OVERALL HEIGHT	4 315 (at flange hopper)	14'2''
FEED OPENING	1 800 x 1 020	71" x 40"
BALE DIMENSIONS W x H	1 100 x 1 100	43'' <sup>1</sup> /3 x 43'' <sup>1</sup> /3
BALER WEIGHT WITHOUT FLUFFER	40 900 Kg (without oil)	90 169 lb
BALER WEIGHT WITH FLUFFER	45 900 Kg (without oil)	109 128 lb
NUMBERS OF WIRES	5	5





# 2X75 HP

# CUTTING AND THRUST POWER

# 170 TON / 374 800 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,5 m³ 686 m³/h 4,5 13 sec USA 88 ft³ 24 225 ft³/h 4,5 13 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

2 x 55 kw

# MAIN HYDRAULIC PUMP

Two "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

364 + 364 L/min 96 + 96 US Gal/min

## OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

170 000 kg 374 800 lb

# RAM FORCE PRESSURE

14 kg/ cm<sup>2</sup> 200 PSI

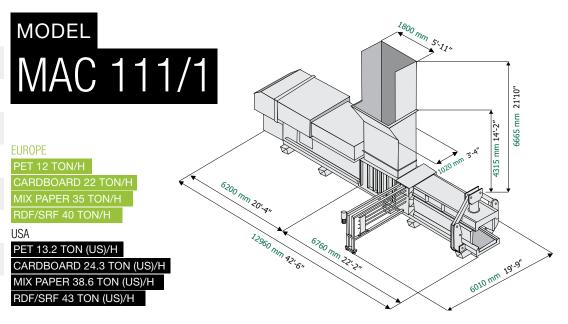
## OIL RESERVOIR CAPACITY

3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	12 960	42'6''
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
OVERALL HEIGHT	4 315 (at flange hopper)	14'2''
FEED OPENING	1 800 x 1 020	71'' x 40''
BALE DIMENSIONS W x H	1 100 x 1 100	43'' <sup>1</sup> /3 x 43'' <sup>1</sup> /3
BALER WEIGHT WITHOUT FLUFFER	41 900 Kg (without oil)	92 373 lb
BALER WEIGHT WITH FLUFFER	46 900 Kg (without oil)	103 396 lb
NUMBERS OF WIRES	5	5





# 2X100 HP

# 170 TON / 374 800 LB

# NO LOAD PERFOMANCE Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 3,2 m³ 966 m³/h 5 12 sec USA 113 ft³ 34 114 ft³/h 5 12 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

2 x 75 kw

#### MAIN HYDRAULIC PUMP

Two "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

455 + 455 L/min 120 + 120 US Gal/min

## OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

170 000 kg 374 800 lbs

# RAM FORCE PRESSURE

14 kg/cm<sup>2</sup> 200 PSI

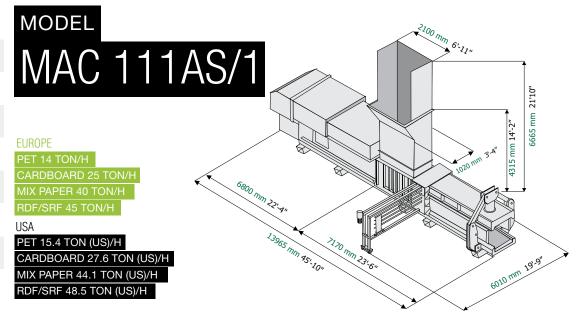
# OIL RESERVOIR CAPACITY

3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 965	45'10''
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
OVERALL HEIGHT	4 315 (at flange hopper)	14'2''
FEED OPENING	2 100 x 1 020	83'' x 40''
BALE DIMENSIONS W x H	1 100 x 1 100	43'' <sup>1</sup> /3 x 43'' <sup>1</sup> /3
BALER WEIGHT WITHOUT FLUFFER	43 200 Kg (without oil)	95 239 lb
BALER WEIGHT WITH FLUFFER	48 500 Kg (without oil)	106 924 lb
NUMBERS OF WIRES	5	5





# 2X120 HP

# 200 TON / 441 000 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,9 m³ 783 m³/h 4,5 13,5 sec USA 102.4 ft³ 27.651 ft³/h 4.5 13,5 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

2 x 90 kw

# MAIN HYDRAULIC PUMP

Two "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

455 + 580 L/min 120 + 153 US Gal/min

## OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

200 000 kg 441 000 lbs

# RAM FORCE PRESSURE

16,5 kg/cm<sup>2</sup> 235 PSI

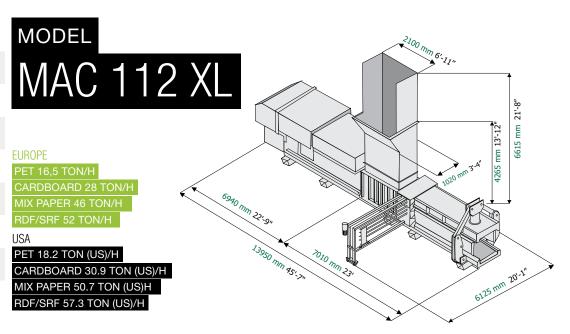
## OIL RESERVOIR CAPACITY

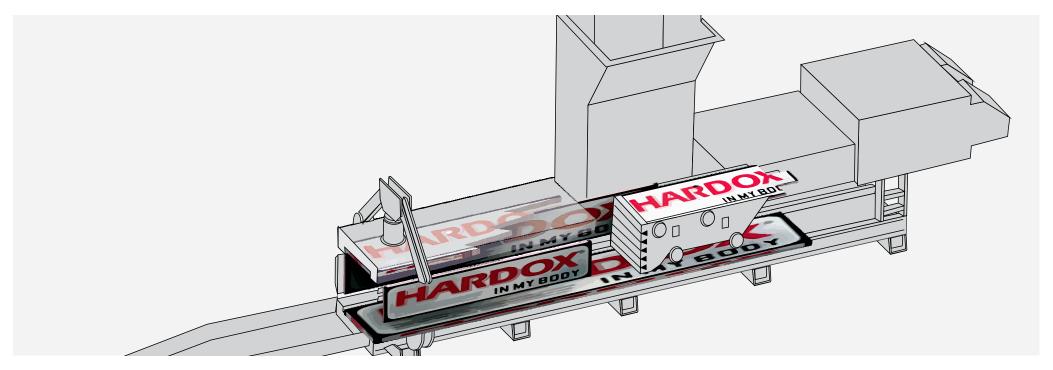
3 500 L 925 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 950	45'9''
MAXIMUM WIDTH	6 125 (at tier station)	19'7''
OVERALL HEIGHT	4 265 (at flange hopper)	13'12''
FEED OPENING	2 100 x 1 020	83'' x 40''
BALE DIMENSIONS W x H	1 100 x 1 100	43" <sup>1</sup> / <sub>3</sub> x 43" <sup>1</sup> / <sub>3</sub>
BALER WEIGHT WITHOUT FLUFFER	55 500 Kg (without oil)	122 356 lb
BALER WEIGHT WITH FLUFFER	60 600 Kg (without oil)	133 600 lb
NUMBERS OF WIRES	5	5





WEAR RESISTANT

CORE VALUE









HARDOX STEEL LINERS



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

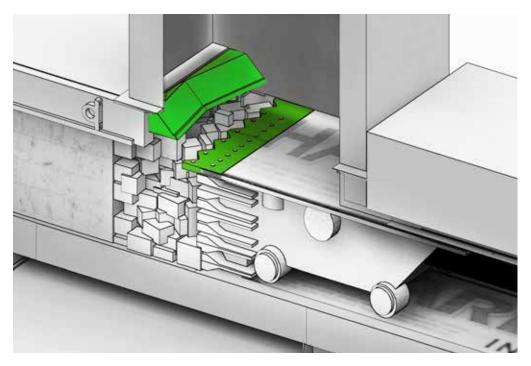
Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

- 1. RESISTANCE TO WEAR AND CHEMICAL AGENTS
- 2. RAPID REPLACEMENT (PATENTED ATTACHMENT SYSTEM)
- 3. MINIMIZE BALER DOWNTIME

400%

LONGER LASTING

THAN NORMAL STEEL







# **CUTTING SYSTEM**

CORE VALUE







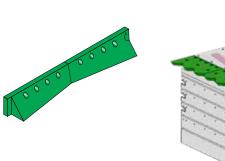


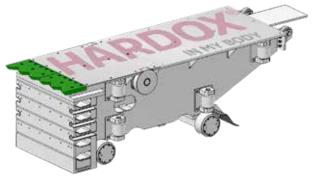
LONG SERVICE LIFE

## 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.

## **COUNTER-PRESSURE SYSTEM**







HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.





# HYDRAULICS

CORE VALUE



Rexroth Bosch Group



HARSH ENVIRONMENTS



LOW ENERGY CONSUMPTION



EASY MAINTENANCE

## **SMART SYSTEM ADAPTABLE TO MATERIAL**

PUMPS POSITIONED OUTSIDE OF OIL TANK FOR A BETTER PERFORMANCE AND EASIER MAINTENANCE.

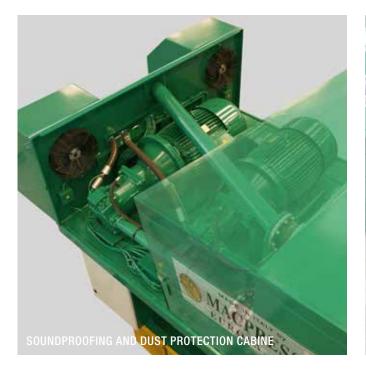
THE INSTALLATION OF VARIABLE FLOW PUMPS PROVIDES A BETTER PERFORMANCE WITH REDUCED ELECTRICAL CONSUMPTION. HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL MOTORS.

30%

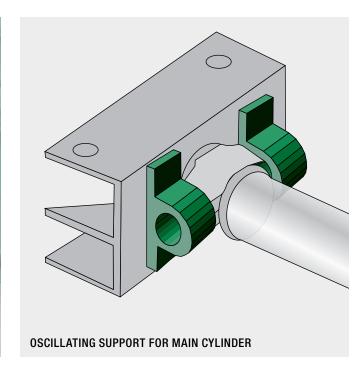
ENERGY SAVINGS

COMPARED WITH TRADITIONAL MOTORS

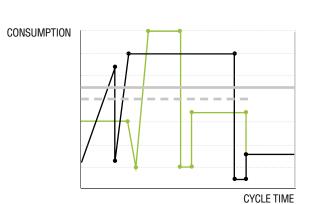




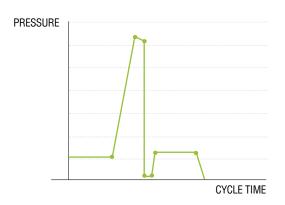




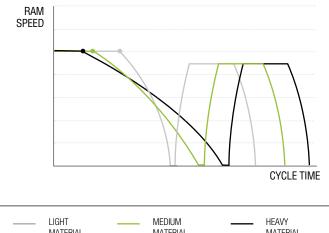
#### CONSUMPTION - CYCLE TIME DIAGRAM



#### PRESSURE - CYCLE TIME DIAGRAM



#### RAM SPEED - CYCLE TIME DIAGRAM



TREND PRESS WITH TREND PRESS WITHOUT PRE-COMPACTOR PRE-COMPACTOR

MEDIUM WITH PRE-COMPACTOR

CONSUMPTION MEDIUM WITHOUT PRE-COMPACTOR

MATERIAL

MATERIAL

MATERIAL









## 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



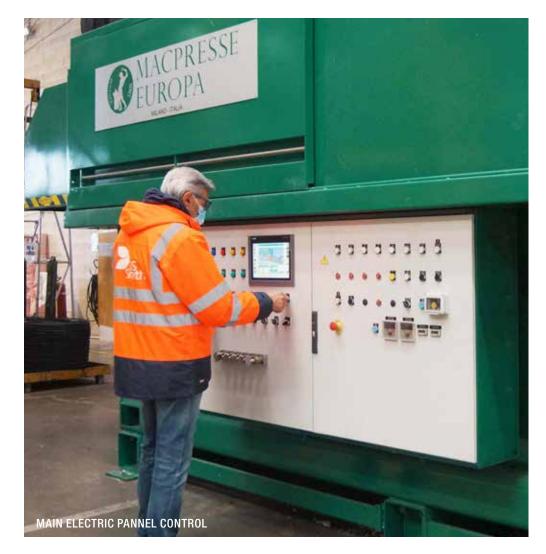
















# **ELECTRICAL COMPONENTS**

CORE VALUE

## **SIEMENS**



HIGH CABLE OPE RESISTANCE SA



OPERATOR SAFETY



## **CONNECTION OF ELECTRICAL COMPONENTS**

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

# MULTIMATERIAL BALES

#### BALES INTEGRITY













# PLASTIC BALES & STORAGE





**PLASTIC MATERIALS** 













# TRANSPORT EFFICIENCY



ROAD TRANSPORT



SEA TRANSPORT











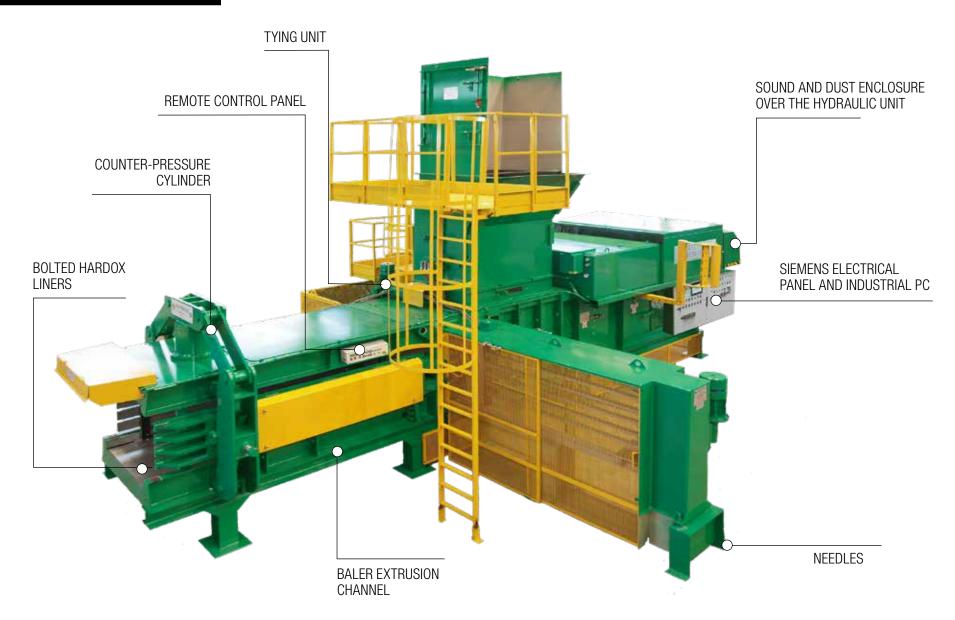




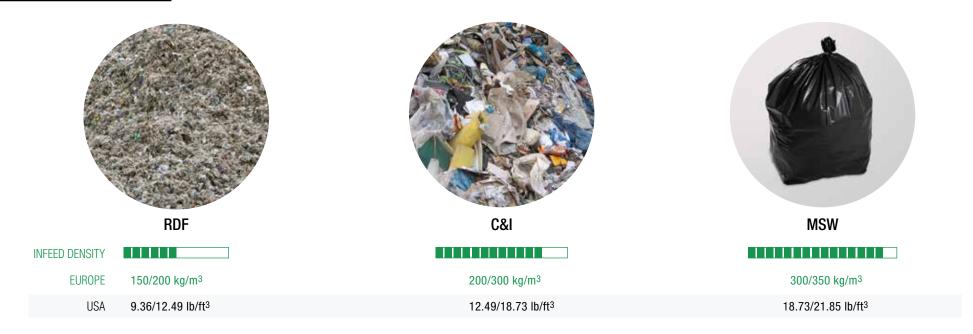
# SERIES MAC L/1 SPECIFICALLY DESIGNED FOR WASTE

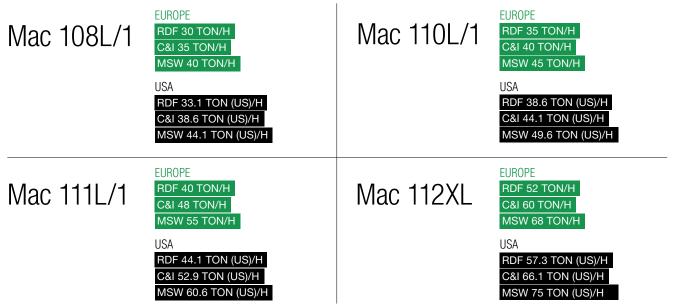


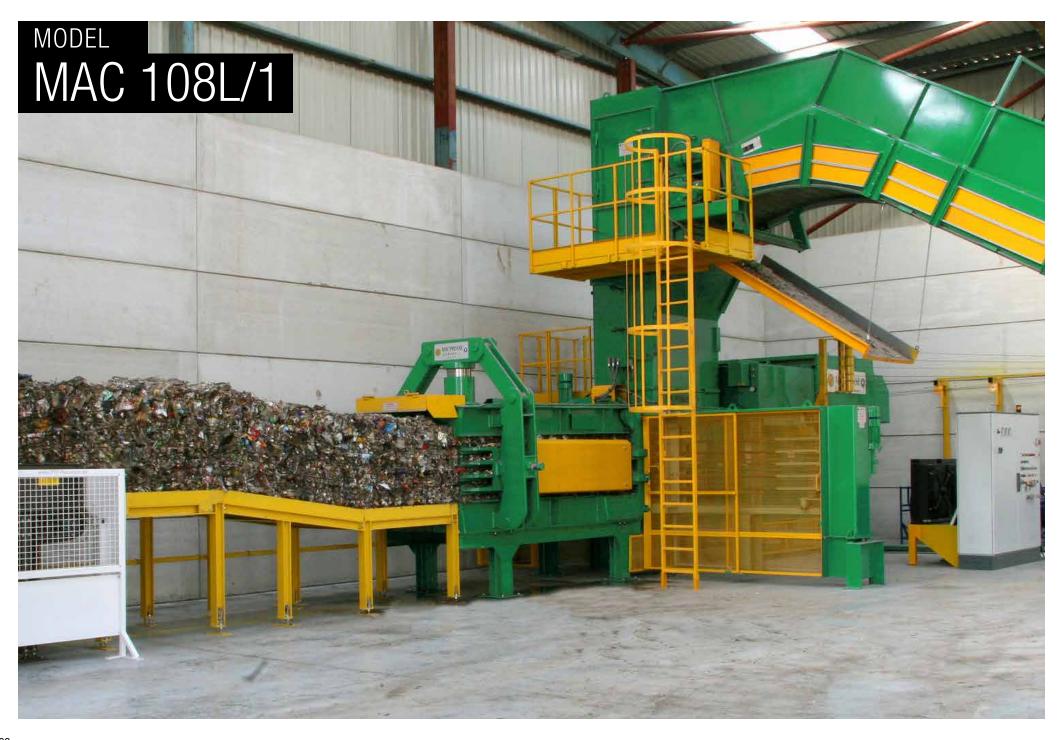
# MAC "L/1" SERIES GENERAL DESCRIPTION



# MATERIALS PROCESSED AND PRODUCTION







# 100 HP MOTOR POWER

# 120 TON / 264 500 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,6 m³ 545 m³/h 3,5 17 sec USA 91.8 ft³ 19 246 ft³/h 3.5 17 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

75 kw

#### MAIN HYDRAULIC PUMP

One "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

364 L/min 95 US Gal/min

# OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

120 000 Kg 264 500 Lbs

# RAM FORCE PRESSURE

11 kg/cm<sup>2</sup> 155 Psi

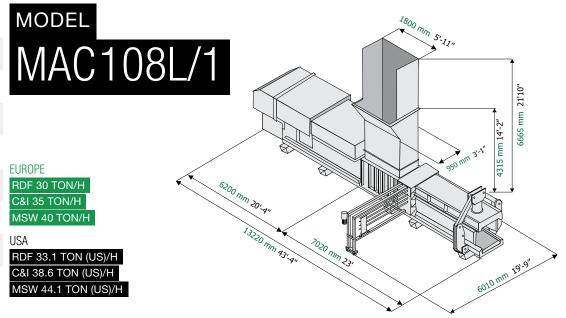
# OIL RESERVOIR CAPACITY

3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 220	43'4''
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
OVERALL HEIGHT	4 315 (at flange hopper)	14'2''
FEED OPENING	1 800 x 950	71'' x 37''½
BALE DIMENSIONS W x H	1 000 x 1 100	39''½ x 43'' <sup>1</sup> /3
BALER WEIGHT WITHOUT FLUFFER	39 650 Kg (without oil)	87 413 lbs
BALER WEIGHT WITH FLUFFER	43 350 Kg (without oil)	95 570 lbs
NUMBERS OF WIRES	5	5





# 120 HP

# 170 TON / 374 800 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,5 m³ 610 m³/h 4 15 sec USA 88 ft³ 21 541 ft³/h 4 15 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

90 kw

# MAIN HYDRAULIC PUMP

One"REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

580 L/min 153 US Gal/min

## OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

170 000 Kg 374 800 Lbs

# RAM FORCE PRESSURE

14 kg/cm<sup>2</sup> 200 Psi

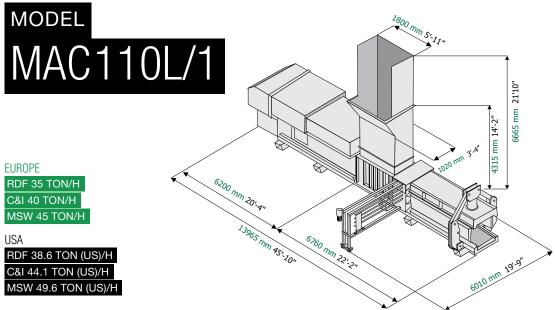
# OIL RESERVOIR CAPACITY

3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 965	45'10''
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
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FEED OPENING	1 800 x 1 020	71'' x 40''
BALE DIMENSIONS W x H	1 100 x 1 100	43''¹/3 x 43''¹/3
BALER WEIGHT WITHOUT FLUFFER	41 900 Kg (without oil)	92 373 lb
BALER WEIGHT WITH FLUFFER	46 900 Kg (without oil)	103 396 lb
NUMBERS OF WIRES	5	5





# 2X75 HP MOTORS POWER

# 170 TON / 374 800 LB

# Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling. EUROPE 2,5 m³ 686 m³/h 4,5 13 sec USA 88 ft³ 24 225 ft³/h 4.5 13 sec

#### TECHNICAL DATA

## MAIN MOTOR POWER

2 x 55 kw

#### MAIN HYDRAULIC PUMP

Two "REXROTH" variable flow pump with full regenerative circuit

# PUMP FLOW CAPACITY

364 + 364 L/min 96 + 96 US Gal/min

## OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

170 000 Kg 374 800 Lbs

# RAM FORCE PRESSURE

14 kg/cm<sup>2</sup> 200 Psi

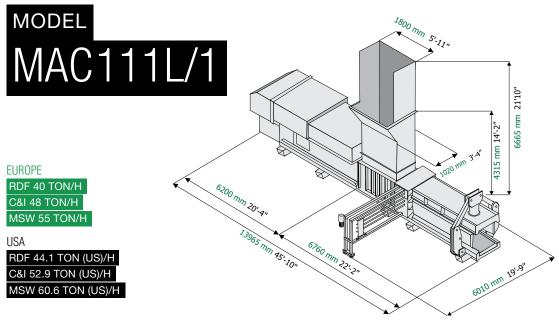
# OIL RESERVOIR CAPACITY

3 100 L 820 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 965	45'10'
MAXIMUM WIDTH	6 010 (at tier station)	19'9''
OVERALL HEIGHT	4 315 (at flange hopper)	14'2''
FEED OPENING	1 800 x 1 020	71' 'x 40''
BALE DIMENSIONS W x H	1 100 x 1 100	43''¹/3 x 43''¹/3
BALER WEIGHT WITHOUT FLUFFER	42 900 Kg (without oil)	94 578 lb
BALER WEIGHT WITH FLUFFER	47 900 Kg (without oil)	105 601 lb
NUMBERS OF WIRES	5	5





# 2X120 HP MOTORS POWER

# 200 TON / 441 000 LB

#### Note: Performance rates, bale weights and bale densities are subject to moisture content, material NO LOAD PERFOMANCE pre-bale densities, feed rates and other variables in baling. 783 m<sup>3</sup>/h $2.9 \,\mathrm{m}^3$ **EUROPE** 4,5 13,5 sec 27.651 ft<sup>3</sup>/h 102.4 ft<sup>3</sup> USA 4.5 13.5 sec LOADING VOLUME VOLUMETRIC PRODUCTION CYCLES PER MINUTE CYCLE TIME

#### TECHNICAL DATA

#### MAIN MOTOR POWER

2 x 90 kw

#### MAIN HYDRAULIC PUMP

Two "REXROTH" variable flow pump with full regenerative circuit

## PUMP FLOW CAPACITY

455 + 580 L/min 120 + 153 US Gal/min

#### OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

200 000 kg 441 000 lbs

#### RAM FORCE PRESSURE

16,5 kg/cm<sup>2</sup> 235 PSI

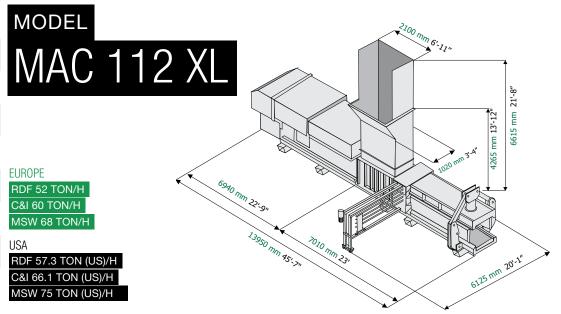
#### OIL RESERVOIR CAPACITY

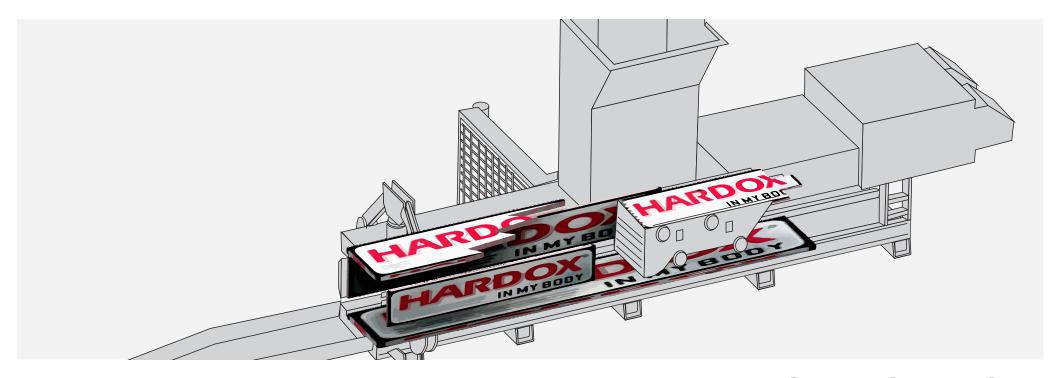
3 500 L 925 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	13 950	45'9''
MAXIMUM WIDTH	6 125 (at tier station)	19'7''
OVERALL HEIGHT	4 265 (at flange hopper)	13'12''
FEED OPENING	2 100 x 1 020	83'' x 40''
BALE DIMENSIONS W x H	1 100 x 1 100	43'' <sup>1</sup> /3 x 43'' <sup>1</sup> /3
BALER WEIGHT WITHOUT FLUFFER	55 500 Kg (without oil)	122 356 lb
BALER WEIGHT WITH FLUFFER	60 600 Kg (without oil)	133 600 lb
NUMBERS OF WIRES	5	5





WEAR RESISTANT

CORE VALUE









HARDOX STEEL LINERS



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

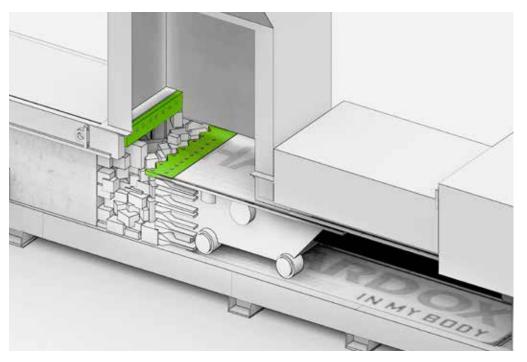
Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

THIS WEAR-RESISTANT SYSTEM PROTECTS THE BALER FROM ABRASION AND CORROSION.

1 RESISTANT TO WEAR AND ABRASIVE MATERIALS
2 QUICK REPLACEMENT (PATENTED FASTENING)
3 MINIMUM BALER DOWNTIME

400%

LONGER LASTING
THAN NORMAL STEEL







## CUTTING SYSTEM

CORE VALUE







#### **CUTTING BLADES DESIGNED FOR WASTE**

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





### **COUNTER PRESSURE SYSTEM**



HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.





## HYDRAULICS

CORE VALUE •



Rexroth Bosch Group



HARSH ENVIRONMENTS



LOW ENERGY CONSUMPTION



EASY MAINTENANCE

#### **SMART SYSTEM ADAPTABLE TO MATERIAL**

PUMPS POSITIONED OUTSIDE OF OIL TANK FOR A BETTER PERFORMANCE AND EASIER MAINTENANCE.

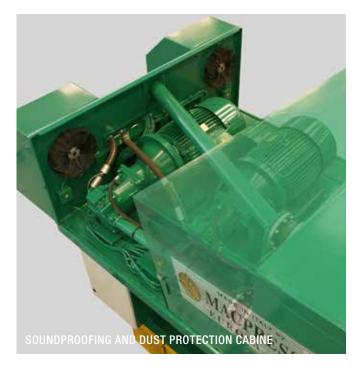
THE INSTALLATION OF VARIABLE FLOW PUMPS PROVIDES A BETTER PERFORMANCE WITH REDUCED ELECTRICAL CONSUMPTION. HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL MOTORS.

30%

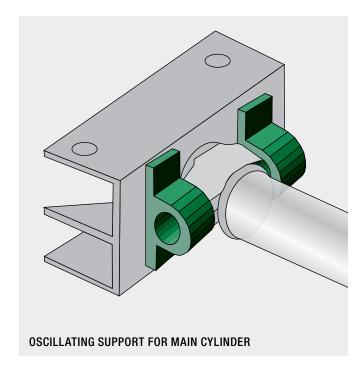
ENERGY SAVINGS

COMPARED WITH TRADITIONAL MOTORS

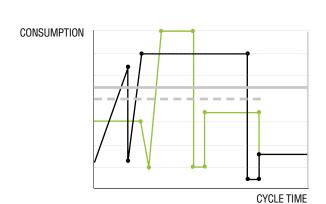




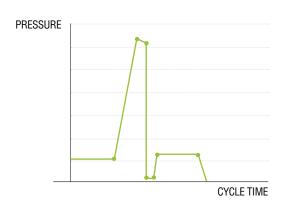




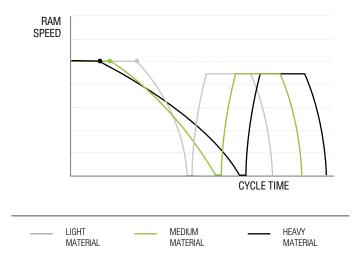
#### CONSUMPTION - CYCLE TIME DIAGRAM



#### PRESSURE - CYCLE TIME DIAGRAM



#### RAM SPEED - CYCLE TIME DIAGRAM



CONSUMPTION TREND PRESS WITH PRE-COMPACTOR

CONSUMPTION
TREND PRESS WITHOUT
PRE-COMPACTOR

CONSUMPTION MEDIUM WITH PRE-COMPACTOR

CONSUMPTION
 MEDIUM WITHOUT
 PRE-COMPACTOR









## FLEXIBILITY OF USE AND REDUCED OPERATING COSTS

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

This system simplifies the cleaning process for the tying machine, ensuring greater safety for the operator.

The maintenance and cleaning of the tying unit is all performed at floor level. There is no need for a maintenance pit below the floor.

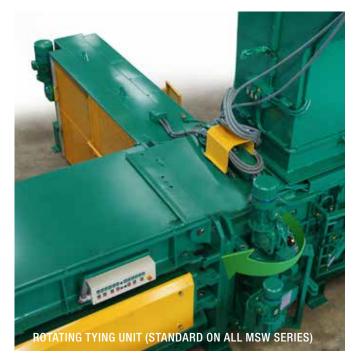
#### TYING METHOD

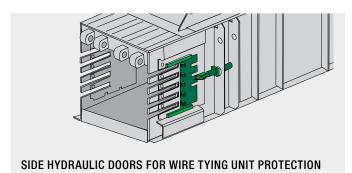


 $5\,\text{wires}$ 



4 wires

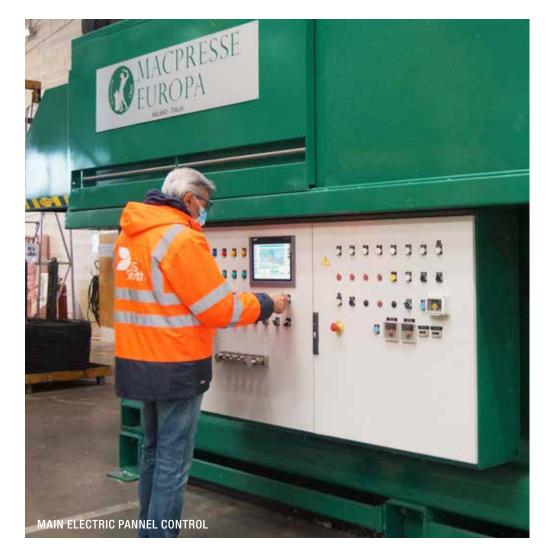
















## ELECTRICAL COMPONENTS

CORE VALUE

#### **SIEMENS**



BLE OPEF NCE SAI



OPERATOR SAFETY



**CONNECTION OF ELECTRICAL COMPONENTS** 

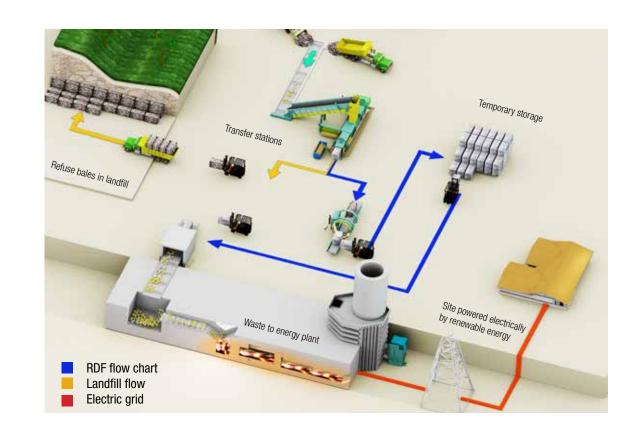
Connections use SCART leads and electrical cables protected by rodent-proof and fire-resistant sheaths

#### WASTE FLOW OVERVIEW

# BALES CAN BE EITHER STORED FOR INCINERATION OR SENT TO LANDFILL FOR A SAFE DISPOSAL IN ORDER TO INCREASE ITS LIFE.

WITH THE SAME SITE VOLUME THE LIFE OF THE LANDFILL IS INCREASED BY 30%

30%



#### TRANSPORT EFFICIENCY

#### **ROAD TRANSPORT**



#### **SEA TRANSPORT**



#### RAIL TRANSPORT



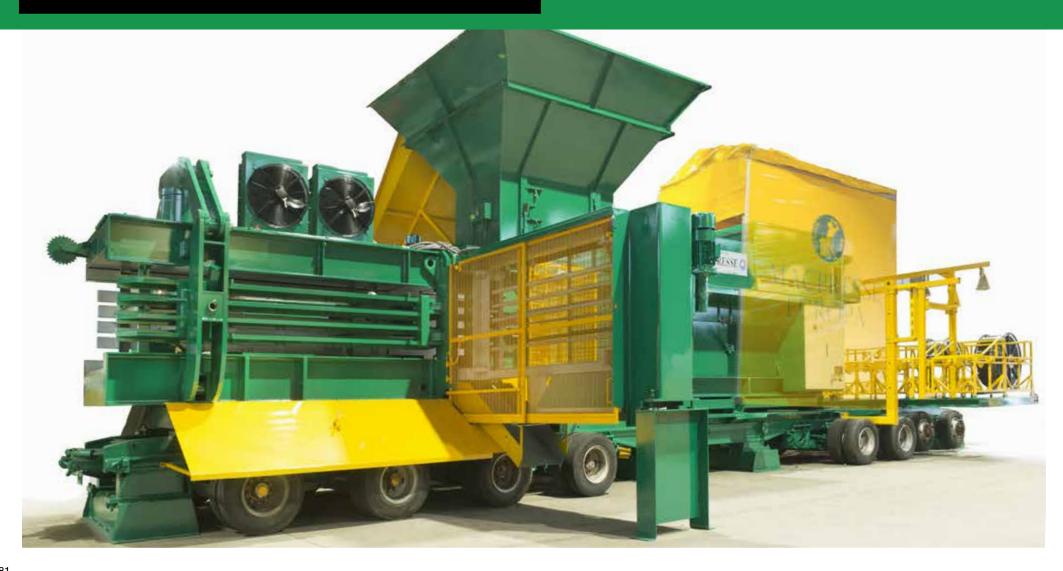
#### STORAGE AND DISPOSAL SITES

#### TEMPORARY STORAGE & DISPOSAL SITE CAPACITY





# MOBILE PRESSES OF MACPRESSE SERIES



## BALING & WRAPPING WASTE MATERIAL



# 20-50 BALES/HOUR

WE CAN SUPPLY PRESSES FOR BALING MUNICIPAL SOLID WASTE AND RDF/SRF WITH VARIOUS POWER RATINGS, WITH A PRODUCTION OF UP TO 50 TONS/HOUR

## ADVANTAGES OF PLASTIC FILM WRAPPING

- CLEAN AND TIDY STORAGE AND HANDLING
- REDUCED VOLUME OF 3 TO
- 4 TIMES FOR MSW
- NO FERMENTATION
- NO ODOR
- PRESERVES MATERIAL PROPERTIES
- NO ENERGY AND MASS LOSS
- NO FIRE RISK FROM SELF IGNITION
- WATERTIGHT OUTDOOR STORAGE
- TRANSPORT OF BALES DO NOT REQUIRE SPECIAL TRUCKS

## MACPRESSE HAS STUDIED A SPECIFIC LINE OF MOBILE PRESSESE AND WRAPPING MACHINES

#### MODELS OF PRESSES AND WRAPPING MACHINES SIZED ACCORDING TO PROJECT OUTPUT REQUIREMENTS

PLANT COMPOSED OF:

MAC 112 XL PRESS EQUIPPED WITH WHEELED PLATFORM
WRAPPING MACHINE EQUIPPED WITH WHEELED PLATFORM
GENERATING SET
SELF-PROPELLED HYDRAULIC LOADER OR CONVEYOR BELT (NO PHOTO)
FORKLIFT WITH CLAMPS

ADVANTAGES

COMPLETE MOBILITY OF MACHINERY
FAST COMMISSIONING

TYING UNIT WITH PLASTIC\_IRON WIRES

Bales bundled with plastic film, with features of leachate containment, odour reduction, keeping birds and rodents away, fire risk reduction, and allowing temporary storage for greater logistic flexibility.



#### THE SECTORS OF APPLICATION OF THE SERIES (MAC PLUG IN) ARE:

NON-COMPLIANT LANDFILL RECLAMATIONS
RECLAMATION OF TEMPORARY WASTE EMPLACEMENTS

TEMPORARY WASTE TREATMENT FACILITIES TO DEAL WITH EMERGENCIES IN LANDFILLS CSS PRODUCTION PLANTS IN LANDFILLS

INCINERATOR FURNACES: WASTE PACKAGING DURING PLANT DOWNTIME - MAINTENANCE BIOMASS BALING PLANTS

SEASONAL SERVICES FOR BALING AGRICULTURAL PRODUCTS

FOR THOSE WHO NEED TO PERFORM BALING JOBS, THE MAC PLUG MOBILE LINES ALLOW YOU TO GET TO THE WORKSITES QUICKLY, BALE THE PRODUCTS AND THEN MOVE THE MACHINERY TO THE NEXT WORKSITE WITHOUT THE NEED TO RE-INSTALL THE PLANT

#### THE MOBILE SYSTEM REDUCES THE TIME AND THE COST OF ASSEMBLY AND DISASSEMBLY AT THE WORKSITES.

THE PLANT REQUIRES 3 OPERATORS

- 1 FOR MACHINE LOADING
- 1 FOR PRESS AND WRAPPING MACHINE CONTROL
- 1 FOR BALE HANDLING

THE BALES CAN BE TIED WITH IRON OR PLASTIC WIRES. THE TYING UNIT HAS BEEN SPECIFICALLY DESIGNED TO ALLOW A VERY QUICK PASSAGE FROM ONE TYPE OF WIRE TO ANOTHER.

THE HANKS OF THE PLASTIC WIRES ARE MOUNTED ON SPECIAL DISPENSERS INSTALLED ON THE MOBILE PLATFORM OF THE PRESS



**WEAR RESISTANT** 

CORE VALUE







400%

**LONGER LASTING** 

THAN NORMAL STEEL

# HARDOX STEEL LINERS

THIS WEAR-RESISTANT SYSTEM PROTECTS THE BALER FROM ABRASION AND CORROSION.

The HARDOX wear-resistant liners are bolted in the extrusion channel and in the compaction box for easy replacement.

- 1 RESISTANT TO WEAR AND ABRASIVE MATERIALS
- 2 QUICK REPLACEMENT (PATENTED FASTENING)
- 3 MINIMUM BALER DOWNTIME

# ACCESSORIES OF BALERS

# **OPTIONAL**







SENSORS CONTROL



PRODUCTION REPORT

#### MAC SUPERVISOR SYSTEM MSS1





#### **SIEMENS**



INTERNET CONNECTIVITY



OUTPUT OPTIMIZATION



DOWNTIME REDUCTION

#### PRODUCTION MANAGEMENT



OPERATOR

**SIEMENS** 

PANEL

- BALE COUNTER PER TYPE
- TOTAL PRODUCTION IN TONS EACH GRADE MATERIAL
- DOWNTIME RECORDED
- PRODUCTION TIME
- PRODUCTION TIME TON/H
- PRODUCTION TIME TON/H SHIFT

- **ELECTRIC ENERGY CONSUMPTION KW/H**
- **ELECTRIC ENERGY CONSUMPTION COST PER TON**
- LABOR COST PER TON
- COST PER TON ON EACH GRADE PROCESSED.
- BALING WIRE COST PER TON
- RECORDS DIVIDED PER SHIFT (NR. 3 MAX AVAILABLE)
- A. 20 SETTINGS OR MORE OF MACHINE PARAMETERS ACCORDING TO MATERIAL TO BE BALED (COMBINED WITH MDC SYSTEM)
- B. ALARMS MANAGEMENT
- C. REMOTE ASSISTANCE
- D. 5 LANGUAGES





PRODUCTION REPORT

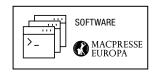


ALERT NOTIFICATION

#### MAC SUPERVISOR SYSTEM MSS2











INTERNET CONNECTIVITY



OUTPUT DO OPTIMIZATION RE

DOWNTIME REDUCTION

#### PRODUCTION MANAGEMENT

- BALE COUNTER TOTAL
- TOTAL ACTIVITY TIME
- BALE COUNTER PARTIAL RESETTABLE
- ACTIVITY TIME RESETTABLE

#### **FUNCTIONS**

- A. 5 SETTINGS AVAILABLE (COMBINED WITH MDC – MAC DENSITY CONTROL)
- **B. ALARMS MANAGEMENT**
- C. REMOTE ASSISTANCE
- D. 5 LANGUAGES

# OPTIMIZATION OF PRODUCT OUTPUT AND REDUCTION OF BALEF DOWNTIME AND OPERATING COSTS





## HYDRAULIC SYSTEM MDC

# 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









## FLUFFER FOR WASTE PAPER





PLANT CLEANING



OPERATOR SAFETY



FLUFFER FOR WASTE PAPER

MECHANICAL DEVICE FOR PROCESSING PAPER MATERIALS, TO REDUCE DENSITY PRIOR TO COMPACTION, OBTAINING:

- INTEGRITY OF IDEAL BALES
- REDUCED ELECTRICAL CONSUMPTION
- GREATER DENSITY
- EASY HANDLING



#### MAC POLY-TIE©

#### FLEXIBILITY OF USE AND REDUCED OPERATING COSTS

THE PATENTED MACPRESSE BINDING MACHINE CAN USE EITHER STEEL OR PLASTIC WIRE AS NEEDED. CHANGING FROM THE PLASTIC WIRE TO STEEL WIRE CAN BE DONE QUICKLY AND EASILY.

THE ELECTRO-MECHANICAL PLASTIC WIRE TYING UNIT HAS BEEN DESIGNED SPECIFICALLY FOR USERS THAT NEED TO BALE RDF WASTE TO BE SENT TO WASTE INCINERATION FACILITIES, IN ORDER TO AVOID METAL LEFTOVER IN ASH THAT INCREASE OPERATIONAL, MAINTENANCE AND DISPOSAL COST.

To prevent potential unwinding, suggested bale length is 1,4 - 1,6 METERS









FLEXIBILITY

EASY MAINTENANCE



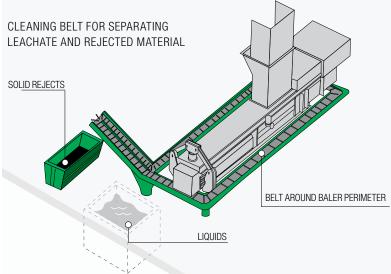


## COLLECTION OF LEACHATES AND REJECTS

#### ESSENTIAL FOR BALING MUNICIPAL SOLID WASTE WITH ORGANIC MATERIAL

It is essential to keep the workplace clean and free of leachate and residue to increase safety of personnel.











OPERATOR SAFETY

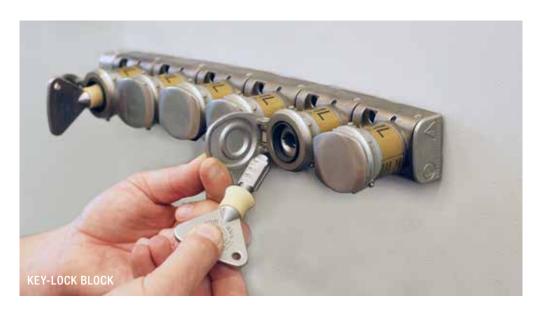


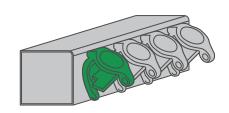
EASY MAINTENANCE

THE CLEANING CONVEYOR WITH CHAIN AND SCRAPERS IS INSTALLED AROUND THE PERIMETER OF THE BALER.
LEACHATE AND REJECTED MATERIALS ARE COLLECTED AND DISPOSED OF IN SPECIAL TANKS.



## SECURITY SYSTEM MSK





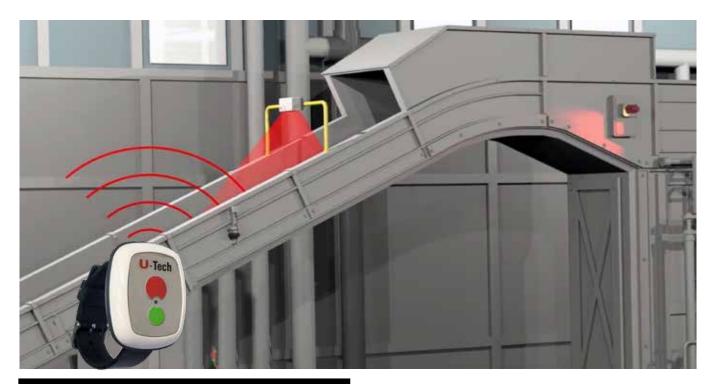


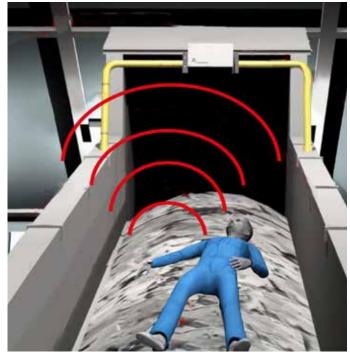
#### **MSK MAC SAFETY KEYS**

INSTALLED ON ALL EQUIPMENT ACCESS DOORS.

MSK MAC SAFETY KEYS SYSTEM HAS BEEN DESIGNED TO OFFER ENHANCED SAFETY DURING OPERATIONS IN COMPARISON WITH THE BASIC STANDARDS REQUIRED BY THE SAFETY REGULATIONS CURRENTLY IN FORCE.

THE MSK (MAC SAFETY KEYS) SYSTEM ALLOWS SAFE MACHINE MAINTENANCE AND CLEANING, ACTIVATING ACCESS DOOR OPENING BY MEANS OF CASTLE LOCK KEYS. THE KEYS ARE RELEASED ONLY WHEN THE ELECTRICAL CONTROL PANEL IS SWITCHED OFF.





#### **SECURITY SYSTEM MSB**

THE MSB SAFETY SYSTEM MONITORS A SELECTED AREA OF THE CONVEYOR BELT RESERVED FOR THE DETECTION OF A TAG, (WRISTBAND WORN BY THE OPERATOR), WHOSE PRESENCE SIGNALS A SITUATION OF SERIOUS DANGER AND AUTOMATICALLY STOPS THE BELT.





#### **MSB** - MAC SAFETY BRACELET

**OPERATOR SAFETY SYSTEM** 

THIS SPECIAL INNOVATION PROTECTS THE OPERATOR IN THE EVENT OF A FALL ON THE CONVEYOR BELT: THE SYSTEM STOPS AUTOMATICALLY, PREVENTING THE PERSON FROM FALLING INSIDE THE BALER AND PREVENTING THE BELT FROM BEING RESTARTED UNTIL THE DANGER HAS CEASED.

#### PRODUCT SERIES

# BALING & WRAPPING WASTE MATERIAL







#### FILM WRAPPERS CAN BE INTEGRATED WITH THE BALERS

Suitable models depending on the hourly production needed



# 20-50 BALES/HOUR

WE CAN SUPPLY PRESSES FOR BALING MUNICIPAL SOLID WASTE AND RDF/SRF WITH VARIOUS POWER RATINGS, WITH A PRODUCTION OF UP TO 50 TONS/HOUR

#### Bales/h

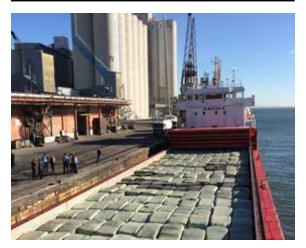
50-60 40-45 30-35

10-15

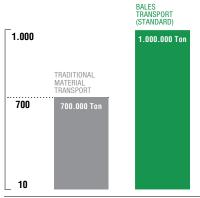
#### ADVANTAGES OF PLASTIC FILM WRAPPING

- CLEAN AND TIDY STORAGE AND HANDLING
- REDUCED VOLUME OF 3 TO 4 TIMES FOR MSW
- NO FERMENTATION
- NO ODOR
- PRESERVES MATERIAL PROPERTIES NO ENERGY AND MASS LOSS
- NO FIRE RISK FROM SELF IGNITION
- WATERTIGHT OUTDOOR STORAGE
- TRANSPORT OF BALES DO NOT REQUIRE SPECIAL TRUCKS

#### TRANSPORT EFFICIENCY



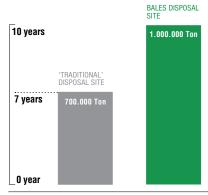
# HIGH FLEXIBILITY WHEN CHOOSING THE METHOD OF TRANSPORTATION



#### STORAGE AND DISPOSAL SITES

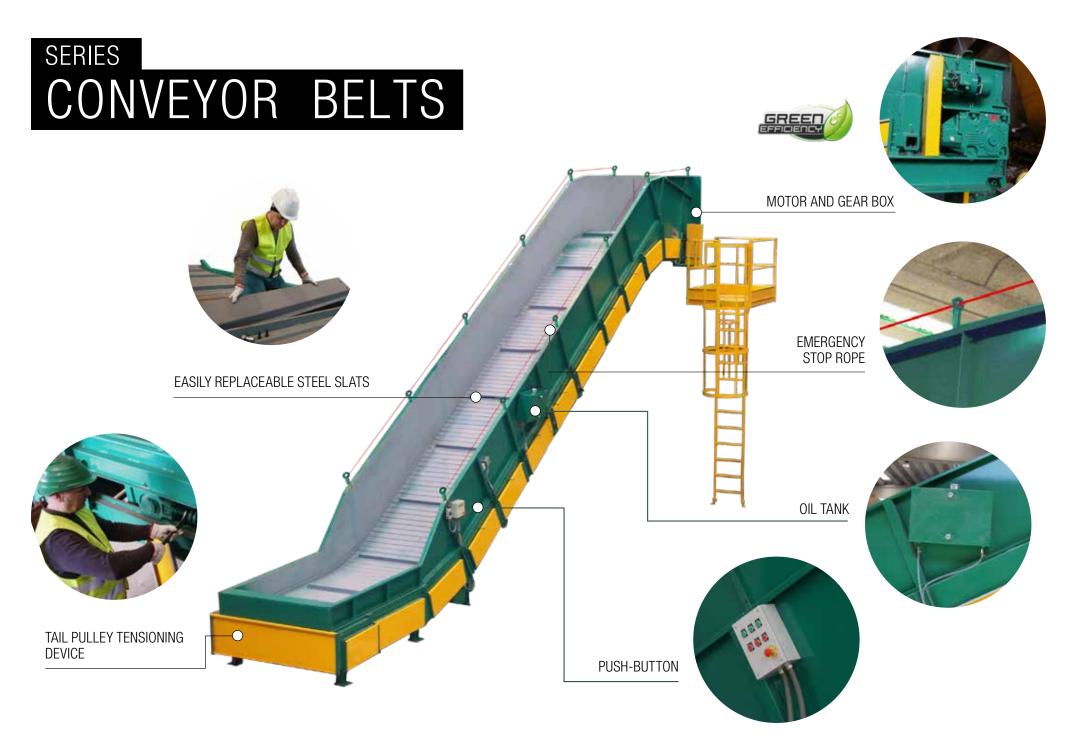


# CAPACITY OF DISPOSAL SITE OVER TIME FOR SAME VOLUME



# STEEL PLATE CONVEYORS BELTS DESIGNED FOR ALL MATERIALS





# MATERIALS PROCESSED AND PERFORMANCE



PLASTIC BOTTLES



CHAIN WIDTH



**CHAIN PITCH 100 MM** 



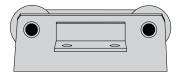


**HEAVY WASTE PAPER, RDF** 

P Series



**CHAIN PITCH 200 MM** 



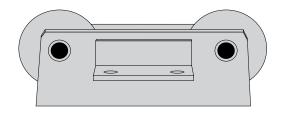


MUNICIPAL SOLID WASTE, INDUSTRIAL WASTE, DEMOLITION WASTE, RDF

PP Series



**CHAIN PITCH 250 MM** 







# CHAIN PITCH

### **MATERIALS** 100 mm 3" 15/16 PLASTIC MATERIALS AND LIGHT WASTE PAPER

GENERAL SPECIFICATIONS	EXTERNAL CONVEYOR WIDTH		LOADING WIDTH	
	EUROPE (mm)	USA	EUROPE (mm)	USA
1000 L	1 100	43"	850	33''
1500 L	1 550	61"	1 300	51''
1800 L	1 700	67"	1 450	57''
2100 L	2 000	79"	1 750	69''

# L SERIES: LIGHT LOADS

**MOTOR POWER** 

OUR CONVEYOR BELTS SERIES L ARE COMBINED WITH THE MAC 102, MAC 106/2 AND MAC 107/2 BALERS.

THESE MODELS ARE IN FACT IN LINE WITH THE CHARACTERISTICS OF THESE CONVEYOR BELTS BOTH FOR THE LEVEL OF PRODUCTIVITY REACHED BY THE BALERS AND FOR THE CHARACTERISTICS OF THE LOADING HOPPER IN FACT THE LOADING HOPPER OF THESE BALERS IS SLIGHTLY WIDER THAN THE USEFUL WIDTH OF THE CONVEYOR BELT.

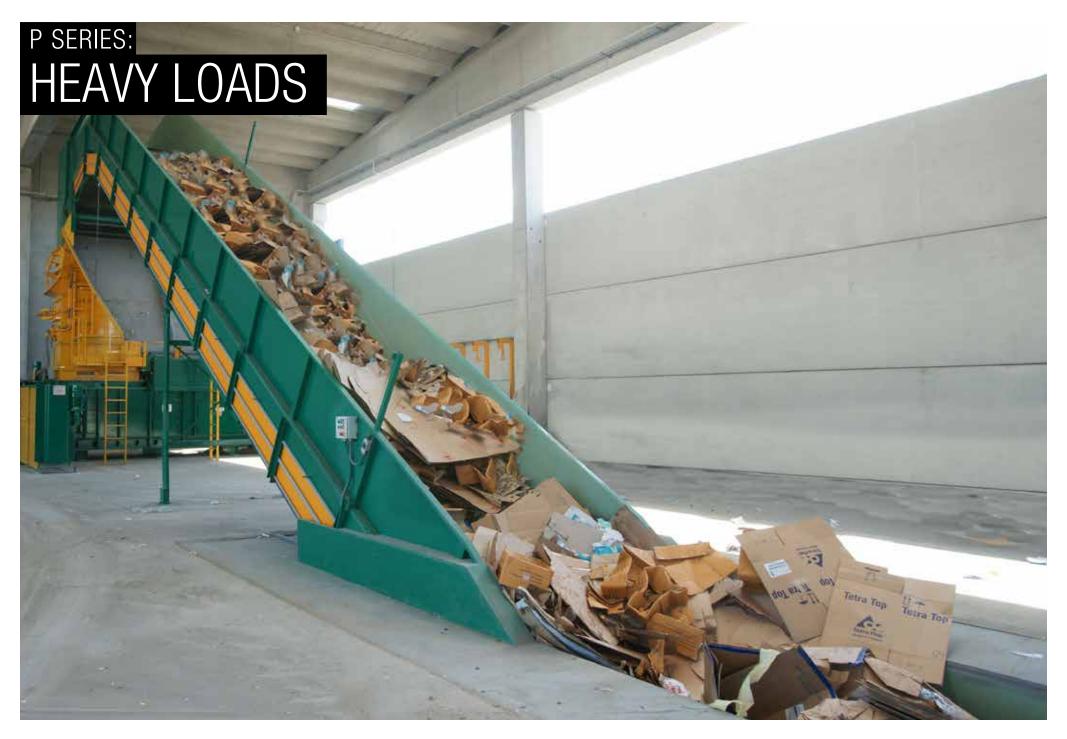
#### THESE CONVEYOR BELTS ARE DESIGNED FOR THE PLASTIC RECYCLING INDUSTRY AND FOR THE PROCESSING OF LIGHT WASTE PAPER LOADS.





## MAC 102 TO MAC 106/2-107/2 **BALING PRESS**





# 7,5 - 10 HP

# 200 mm 7" 7/8

# WASTE PAPER, BIOMASS, RDF-SRF

GENERAL SPECIFICATIONS	EXTERNAL CONVEYOR WIDTH		LOADING WIDTH	LOADING WIDTH	
	EUROPE (mm)	USA	EUROPE (mm)	USA	
1500 P	1 481	58''	1 181	47''	
1800 P	1 741	68''	1 441	57''	
2100 P	2 086	82''	1 786	70''	
2250 P	2 250	88''	1 950	76''	



THE P SERIES IS SUITED TO MATCH BALERS WITH VERY HIGH HOURLY PRODUCTION DEMANDS.

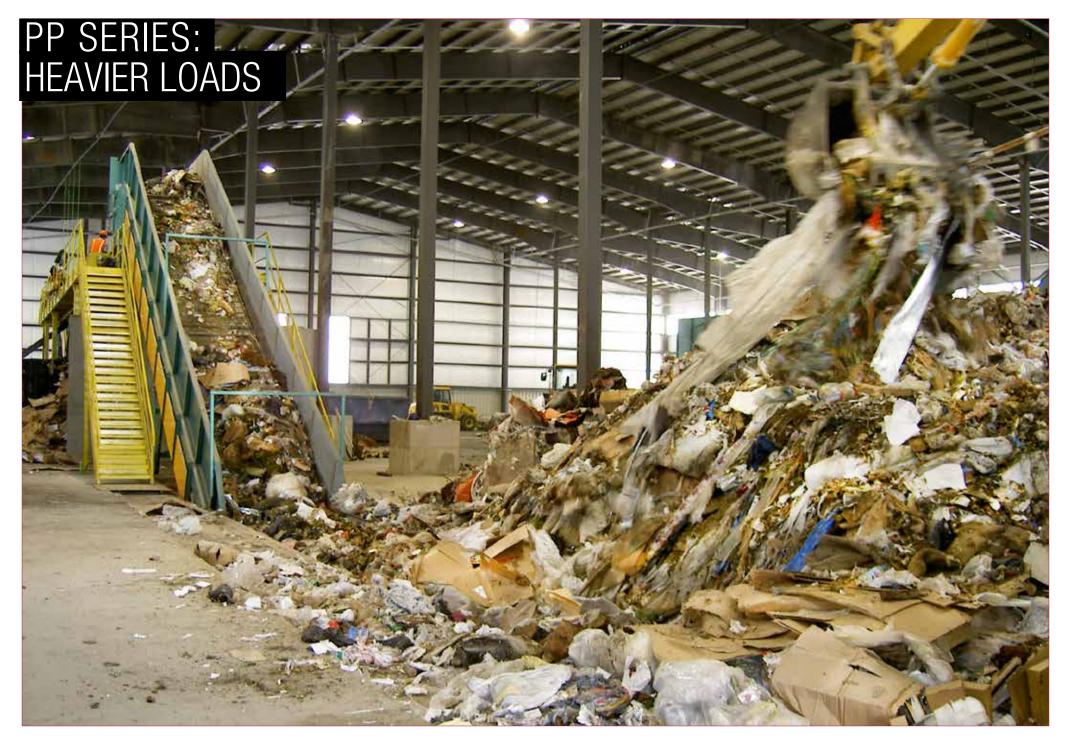
# THIS SERIES IS USED ALSO IN PAPER MILLS TO LOAD PULPERS BECAUSE THEY CAN TRANSPORT BALES WEIGHING SEVERAL TONS FOR THE WHOLE LENGTH WITHOUT ANY PROBLEM.





# MAC 107/2 TO MAC 112XL BALING PRESSES







# 250 mm 10"

# RDF-SRF, MUNICIPAL SOLID WASTE

GENERAL SPECIFICATIONS	EXTERNAL CONVEYOR WIDTH		LOADING WIDTH	LOADING WIDTH	
	EUROPE (mm)	USA	EUROPE (mm)	USA	
1500 PP	1 550	61''	1 170	46''	
1800 PP	1 825	72''	1 445	57''	
2100 PP	2 170	85''	1 790	70''	



**MOTOR POWER** 

7.5 KV

THE PP SERIES IS GENERALLY USED IN LARGE WASTE TREATMENT PLANTS AND MSW BALERS.

# THE MAC SERIES PP CONVEYOR BELTS HAVE CHARACTERISTICS WHICH DISTINGUISH THEM FROM THOSE OF COMPETITORS. THE CHAIN PITCH AND THE DRIVE UNITS ARE DESIGNED TO HANDLE EXCEPTIONALLY HARSH AND HEAVY LOADS.





## MAC 108L/1 TO MAC 112 BALING PRESS





## STEEL PLATE CONVEYORS BELTS CONFIGURATIONS

## STEEL BELTS FOR WASTE PAPER, RECYCLABLES PLASTIC, WASTE AND BALED WASTE PAPER

MACPRESSE ENGINEERING DEPARTMENT USES EXPERT TECHNICIANS WHO DESIGN EFFICIENT LAYOUT SOLUTIONS TO SATISFY THE NEEDS OF EACH CUSTOMER. DESIGNS ARE PREPARED RANGING FROM SIMPLE CONVEYOR UNITS WHICH FEED THE BALERS UP TO COMPLETE SORTING SYSTEMS.





#### CONVEYORS DISCHARGE SECTIONS

# MOTORIZED HEAD PULLEY SECTION WITH 0° INCLINATION



MOTORIZED HEAD PULLEY SECTION WITH 30° INCLINATION



MOTORIZED HEAD PULLEY SECTION WITH 45° INCLINATION



MOTORIZED HEAD PULLEY SECTION WITH 60° INCLINATION



**CONVEYORS LOADING SECTIONS** 



LOADING SECTION OUT OF PIT



LOADING SECTION OUT OF PIT















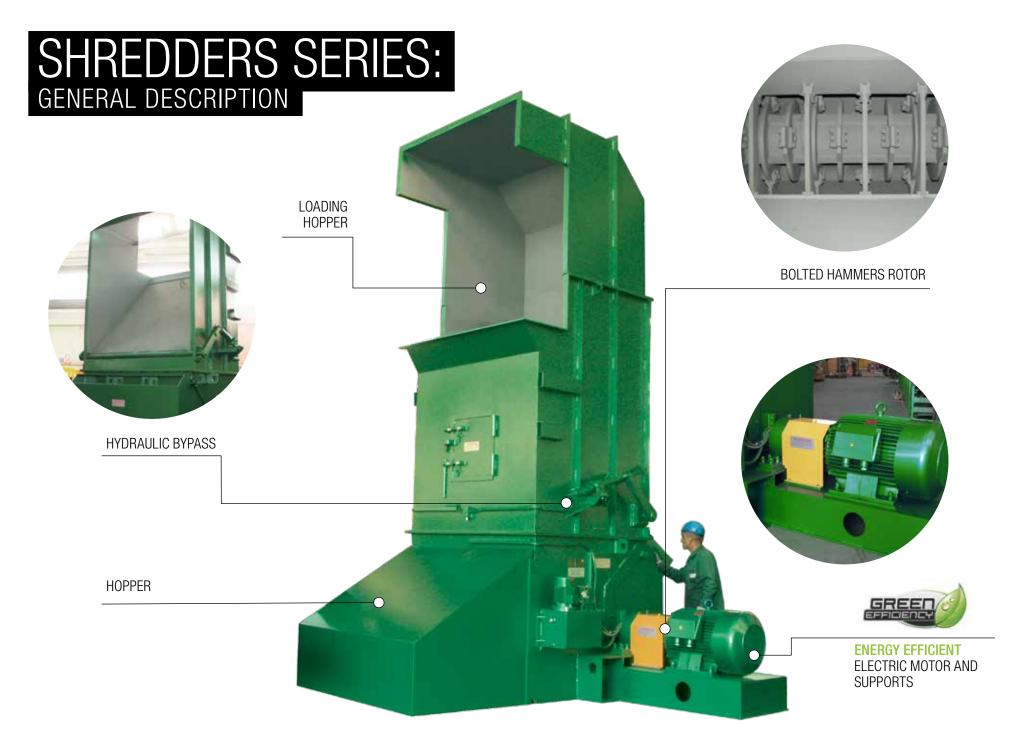






# SHREDDERS: DESIGNED FOR PAPER RECYCLERS & PAPER





### MATERIALS PROCESSED AND PRODUCTION





## 60 HP MOTOR POWER

# LOADING HOPPER 100 CM / 39"





GENERAL SPECIFICATIONS	EUROPE	USA
MOTOR POWER	45 KW	45 KW
DIMENSIONS OF LOADING HOPPER	1000 mm	39''
PRODUCTION	6-10 TON/H	6.6-11 TON(US)/H
SHREDDER WEIGHT	5.500 KG	12.000 lb

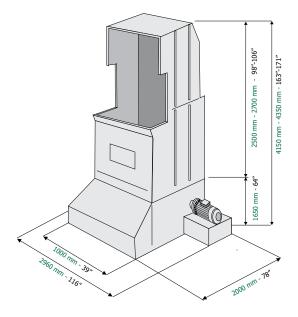
# MAC 1000

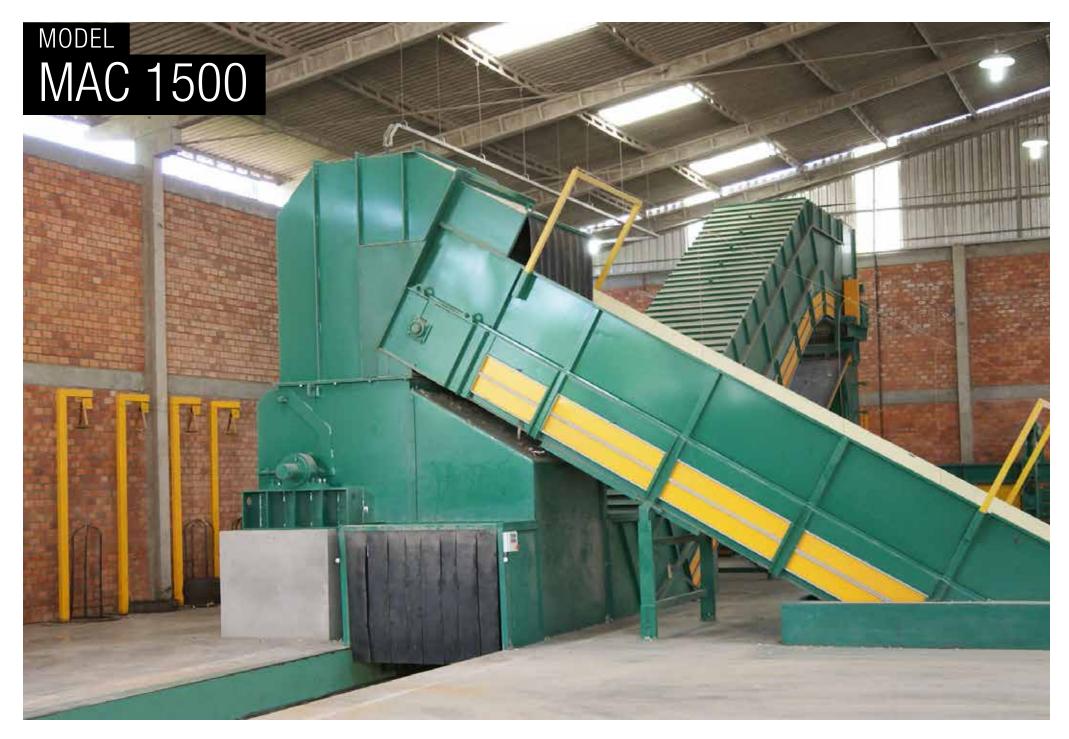
#### IDEAL FOR SHREDDING WASTE PAPER WITH A HIGH SPECIFIC WEIGHT

This model is designed with a single fast rotor and bolted hammers for high hourly production rates. Thick bulky packs such as magazines, newspapers, paper cores and books.

TO GET A BALANCED OUTPUT BETWEEN BALER AND SHREDDER WE RECOMMEND

## **MAC 106/2 MAC107/2 BALERS**





# 75-100 HP MOTOR POWER

# 150 CM / 59"





GENERAL SPECIFICATIONS	EUROPE	USA
MOTOR POWER	55-75 KW	55-75 KW
DIMENSIONS OF LOADING HOPPER	1500 mm	59''
PRODUCTION	11-15 TON/H	12-17 TON(US)/H
SHREDDER WEIGHT	7.500 KG	17.000 lb

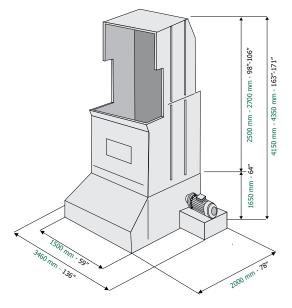
# MODEL MAC 1500

#### IDEAL TO SHRED WASTE PAPER

This model is designed with a single fast rotor and bolted hammers for high hourly production rates. Thick bulky packs such as magazines, newspapers, paper cores and books are easily shredded.

TO GET A BALANCED OUTPUT BETWEEN BALER AND SHREDDER WE RECOMMEND COUPLING THIS MODEL WITH

### MAC 108/1 MAC 110/1 BALERS





# 120-150 HP

# 200 CM / 78"





GENERAL SPECIFICATIONS	EUROPE	USA
MOTOR POWER	90-110 KW	90-110 KW
DIMENSIONS OF LOADING HOPPER	2000 mm	78''
PRODUCTION	18-22 TON/H	20-25 TON(US)/H
SHREDDER WEIGHT	8.500 KG	18.260 lb

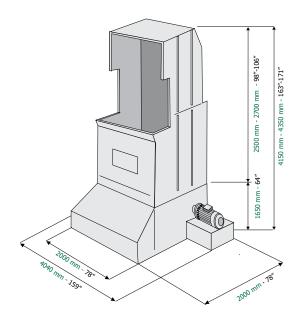
# MODEL 2000

#### IDEAL TO SHRED WASTE PAPER

This model is designed with a single fast rotor and bolted hammers for high hourly production rates. Thick bulky packs such as magazines, newspapers, paper cores and books are easily shredded .

TO GET A BALANCED OUTPUT BETWEEN BALER AND SHREDDER WE RECOMMEND COUPLING THIS MODEL WITH

### MAC 111/1 MAC 111AS/1 MAC 112XL BALERS



200 HP
MOTOR POWER

LOADING HOPPER 150 CM/59"

### CONFIDENTIAL DOCUMENTS DESTRUCTION

### MAC 1500D



ROTOR WITH PIVOTING HAMMERS

**ELECTRIC MOTOR AND SUPPORTS** 



SUCTION HOPPER

### DIMENSIONS AND PRODUCTIONS





### PROCESSING COMPARISON



PRIMARY SHREDDER DOUBLE SHAFT SLOW HYDRAULIC MULTI-MATERIAL

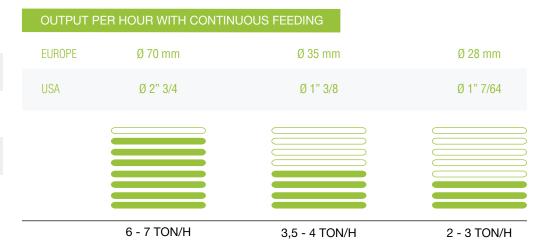


SHREDDER MAC 1500 D GRIDS 38 MM



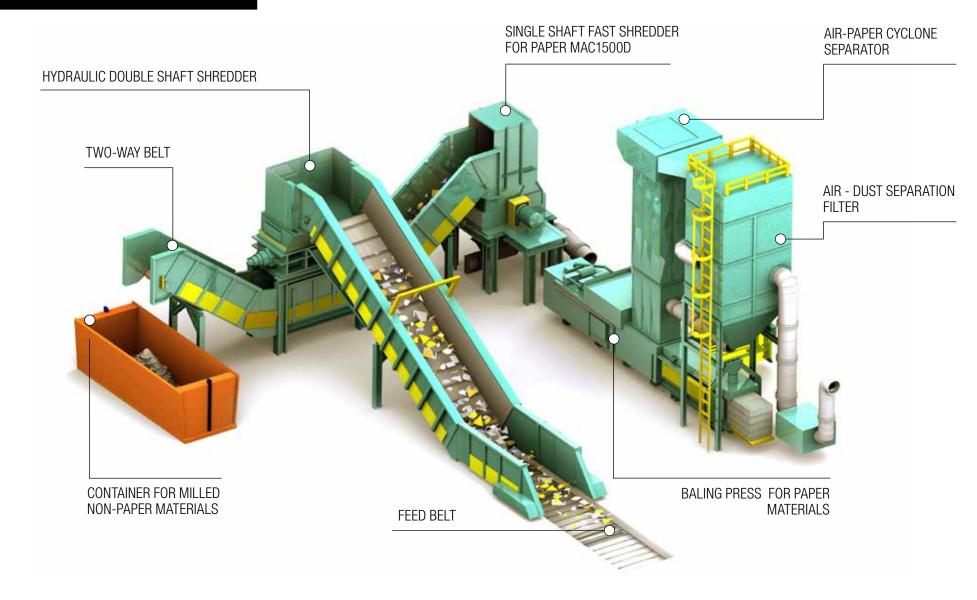
SHREDDER MAC 1500 D GRIDS 28MM

TECHNICAL DATA	EUROPE	USA
MOTOR POWER	150 KW	150 KW
ROTOR/MOTOR SPEED	1000 RPM	1000 RPM
LOADING HOPPER	1500 X 1403 mm	60" X 55"
SHREDDER WEIGHT	14000 KG	30800 LB



### CONFIDENTIAL DOCUMENTS DESTRUCTION

GENERAL DESCRIPTION









### ALL SHREDDERS CAN BE EFFICIENTLY SOUNDPROOFED AND EQUIPPED WITH DUST REDUCTION SYSTEMS.











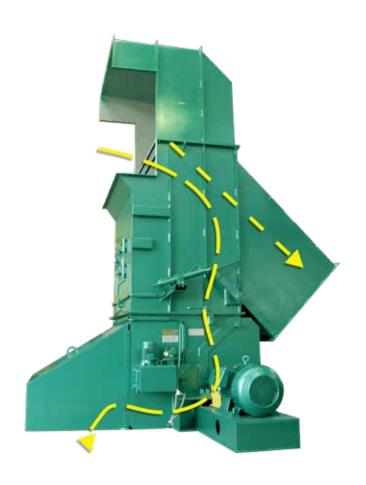
A SOLID SHREDDER PLANT WITH TREMENDOUS OUTPUT A LOW RUNNING COST.

THIS MACHINE HAS BEEN CONSTRUCTED TO SHRED CORES, THICK VOLUME BOOKS, TELEPHONE DIRECTORIES

THE MACPRESSE SHREDDER WILL SHRED REEL OF PAPER AND BUNDLES OF NEWSPAPERS (WITHOUT REMOVAL OF STRAPS) AND OTHER TYPE OF HEAVY WASTE PAPER.
THE CONTROLS FOR THE SHREDDER ARE LOCATED IN THE MAIN ELECTRIC PANEL.







### **BYPASS SYSTEM**

THE BYPASS SYSTEM INSTALLED INSIDE THE HOPPER ALLOWS THE MATERIALS ENTERING INTO THE MACHINE TO EXIT FROM AN ALTERNATIVE WAY (EG. A BIN) IN CASE OF MACHINE STOP (EG. FOR MAINTENANCE). IN THIS WAY A PLANT DOWNTIME WILL NOT OCCUR.







### **VARIOUS LAYOUTS**

### **TAYLOR MADE SOLUTIONS**











# THE QUANTITY OF BOLTED HAMMERS AND FLANGES DESIGNED AND CUSTOMIZED FOR THE CUSTOMER'S SPECIFIC REQUIREMENTS AND THE MATERIALS TO BE PROCESSED.

BOLTED SUPPORTS SPECIALLY MANUFACTURED BY MACPRESSE ARE CONSTRUCTED WITH HIGH RESISTANCE BEARINGS CONNECTING THE ROTOR OF THE SHREDDER TO THE MOTOR; HAMMERS ARE INTERCHANGEABLE AND BOLTED TO THE ROTOR AND ARE COATED WITH A HARD WEAR-RESISTANT METAL ALLOY.



30%

**ENERGY SAVINGS** 

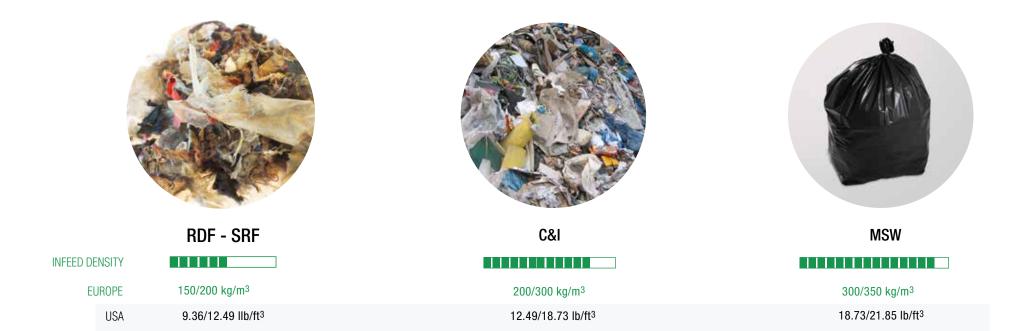
COMPARED TO TRADITIONAL MOTORS

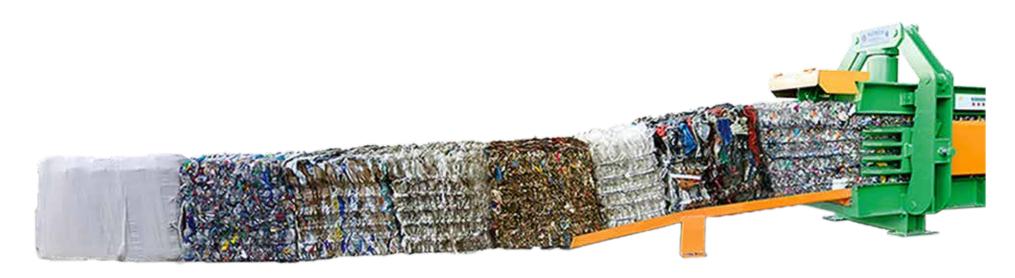
# SORTING PLANTS FOR WASTE PROCESSING





### PROCESSED MATERIALS





### AUTOMATIC SORTING PLANT FOR RECYCLABLES

### 25-30 TON/H











### STORAGE OF MULTI-MATERIAL BALES WITH PERFECT INTEGRITY AND OPTIMUM **BALES SPECIFIC WEIGHT OPTIMIZE** STORAGE COSTS AND HANDLING.











SEA TRANSPORT



OPTIMAL STORAGE



ROAD TRANSPORT





















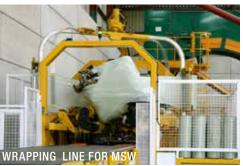














# PLANTS DESIGNED TO PROCESS ALL THE SECONDARY RAW MATERIALS, SUCH AS PET, PPT, HDPE, PAPER AND ALUMINUM, AND MORE.

MACPRESSE HAS PRODUCED PLANTS FOR THE SORTING OF WASTE RECYCLING FOR MORE THAN 50 YEARS WITH OUTPUTS VARYNG FROM 10 TO 50 TON/HOUR. WITH MORE THAN 1.000 PLANTS INSTALLED IN MORE THAN 50 COUNTRIES, CONTINUOS RESEARCH AND INNOVATION MAKES MACPRESSE YOUR RELIABLE PARTNER.















### UNSORTED MUNICIPAL SOLID WASTE OR INDUSTRIAL WASTE CONTAINS A HIGH PERCENTAGE OF RECYCLABLE MATERIALS.

The MACPRESSE sorting plants allow recyclable materials to be separated in an economical and efficient manner. The dry fraction of the remaining waste may be transformed into RDF (refuse derived fuel) with a high calorific value and sent to waste-to-energy plants or cement production plants, radically minimizing waste that cannot be reclaimed.

### SEPARATION OF WASTE FROM INERT MATERIALS: BALING AND WRAPPING MSW USING A

### SEMI-MOBILE PLANT FOR SANITARY LANDFILL REMEDIATION





MAC 111L/1 BALER FOR MUNICIPAL SOLID WASTE



WRAPPING BALES



TEMPORARY BALES STORAGE

#### NON-COMPLIANT LANDFILLS CAN BE RECLAIMED:

A high percentage of recyclable materials can be recovered from waste in landfills. the inert materials can be used for daily cover, all remaining material can be baled reducing the volume and tripling the capacity of the landfill.

### STORAGE AND DISPOSAL SITES

#### TEMPORARY STORAGE & DISPOSAL SITE CAPACITY





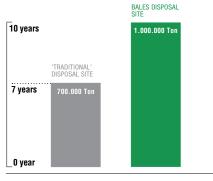




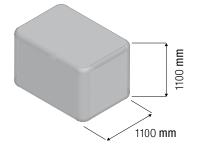


OPTIMAL STORAGE

HIGH DENSITY BALES



### CAPACITY OF DISPOSAL SITE OVER TIME FOR SAME VOLUME



#### WITH THE SAME SITE VOLUME

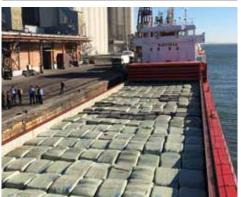
THE LIFE OF THE LANDFILL IS **INCREASED BY 30%** 

### TRANSPORT EFFICIENCY

### **ROAD TRANSPORT**



#### **SEA TRANSPORT**



RAIL TRANSPORT





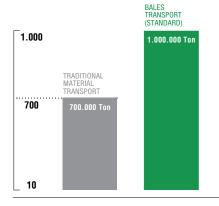
TRANSPORT



SEA TRANSPORT



TRANSPORT



### MACPRESSE IN NUMBERS 15+ **WORLDWIDE ASSISTANCE PROPRIETARY** PATENTS 1500 +200+ **BALERS INSTALLED COLLABORATION** AROUND THE WORLD 50+ 65+ **COUNTRIES WITH COUNTRIES WITH** INSTALLED BALERS **PARTNERS** 50+ 40+ 50+ **BALERS PER YEAR PRODUCED** YEARS IN THE **COUNTRIES WITH**



#### CONTACTS

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#### **SOLUTION FEATURES**

MARKET













SPARE PARTS **STORES** 



TRANSPORT





**TRANSPORT**