MACPRESSE EUROPA

WWW.MACPRESSE.COM

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

- MUNICIPAL SOLID WASTE PROCESSING
- RECYCLING SECONDARY RAW MATERIAL
- RENEWABLE ENERGY & ENGINEERED FUELS
- PAPER INDUSTRY

HEADQUARTER

SERVICE & MAINTENANCE

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 Parker 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 QUALITY PROCESS

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

STEP 1
DESIGN

STEP 2
COMPUTER NUMERICAL CONTROL (CNC)

STEP 3
STRUCTURAL STEEL CONSTRUCTION

STEP 4
PAINTING

STEP 5
TESTING

STEP 6
STORAGE

STEP 7
DELIVERY

STEP 8
ON-SITE ASSEMBLY

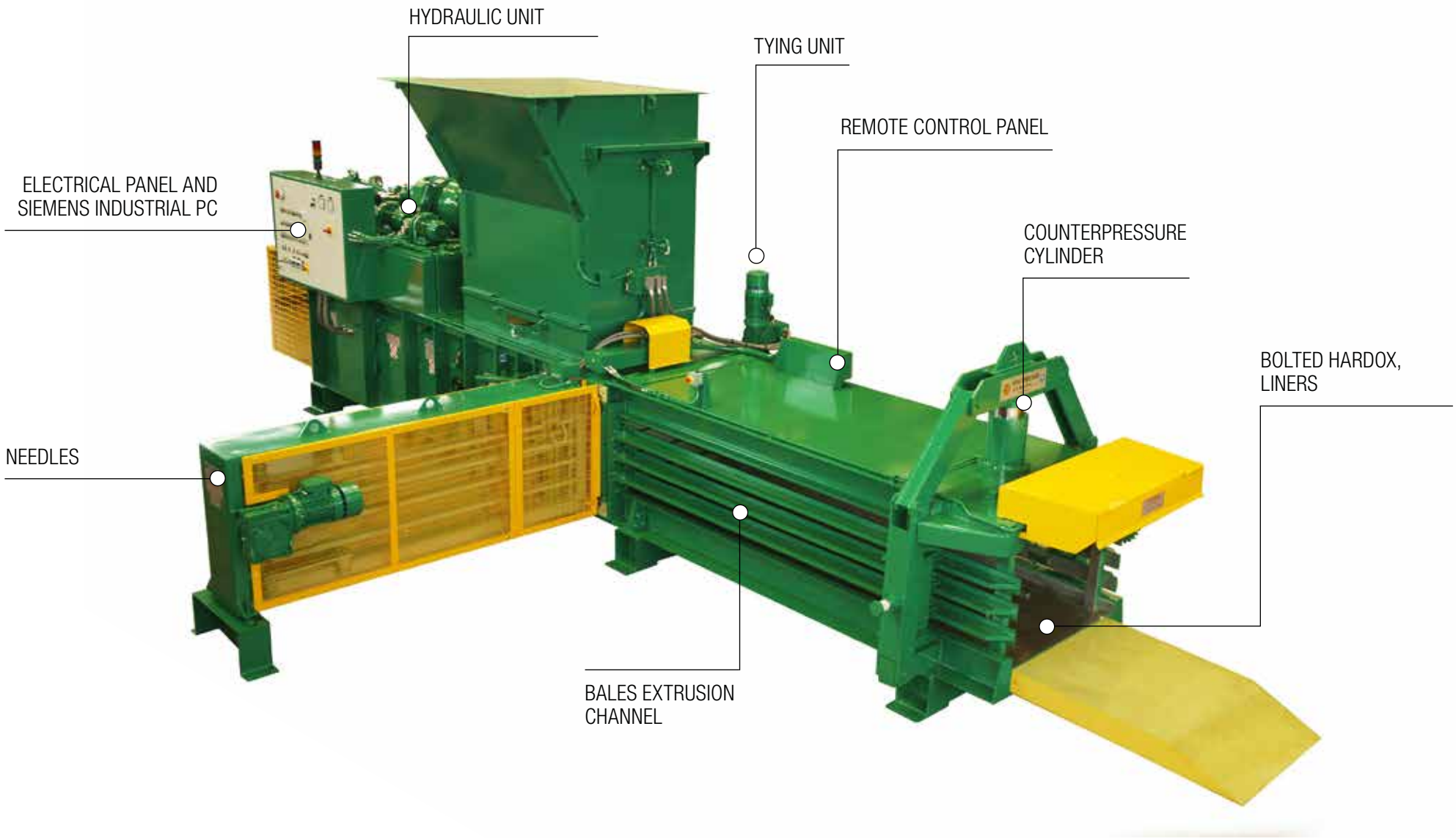
STEP 9
COMMISSIONING/ TRAINING

STEP 10
LOCAL TECHNICAL IN 40 COUNTRIES

STEP 11
SPARE PARTS INVENTORY

MIDSIZE FOR RECYCLABLES AND RDF

GENERAL DESCRIPTION



MATERIALS PROCESSED AND PERFORMANCE

PET

OCC

MIXED PAPER

RDF/SRF

INFEED DENSITY				
EUROPE	25/30 kg/m^3	70/80 kg/m^3	100/120 kg/m^3	150/200 kg/m^3
USA	1.56/1.87 lb/ft^3	4.37/5 lb/ft^3	6.24/7.5 lb/ft^3	9.36/12.5 lb/ft^3

Mac 106/2

EUROPE
- 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 6.5 TON/H
- OCC 13.2 TON/H
- MIX PAPER 21.5 TON/H
- RDF 26 TON/H

USA
- PET 7,1 TON (US)/H
- OCC 14.5 TON (US)/H
- MIX PAPER 23.5 TON (US)/H
- RDF 28.6 TON (US)/H

MODEL

MAC 106/2

60 HP
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.

	LOADING VOLUME	VOLUMETRIC PRODUCTION	CYCLES PER MINUTE	CYCLE TIME
EUROPE	1.55 m^3	428 m^3/h	4.6	13 sec
USA	55 ft^3	15 115 ft^3/h	4.6	13 sec

TECHNICAL DATA

MAIN MOTOR POWER
45 kw

MAIN HYDRAULIC PUMP
Double vane pump

PUMP FLOW CAPACITY
309 l/min
82 GPM

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

MAIN CYLINDER
Bore 180 mm -7”

RAM FORCE
75 000 kg
165 500 lbs

RAM FORCE PRESSURE
9 kg/ cm^2
129 PSI

OIL RESERVOIR CAPACITY
1 400 Lt
370 US Gal

COOLING SYSTEM
Thermostatically controlled air to oil heat exchanger

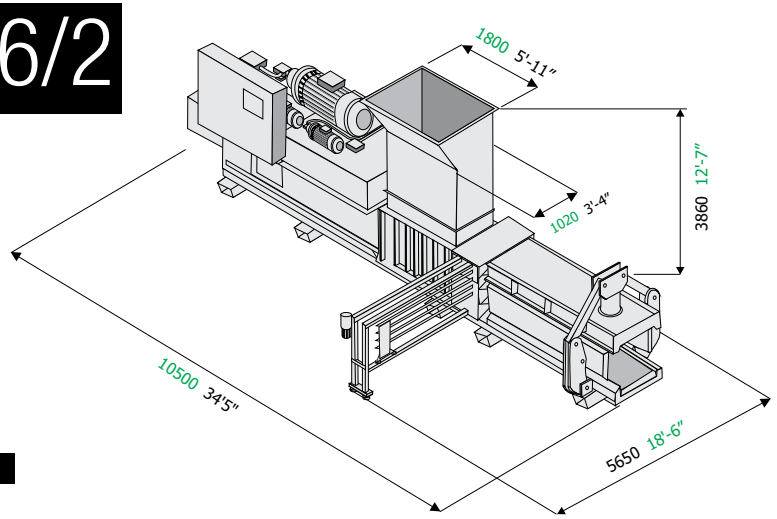
OPERATING CONTROL
Siemens S7 300 programmable controller

GENERAL SPECIFICATIONS	EUROPE (MM)	USA
OVERALL LENGTH	10 500	34’5’’
MAXIMUM WIDTH	5 650 (AT TIER STATION)	18’6’’
OVERALL HEIGHT	3 860 (AT FLANGE HOPPER)	12’7’’
FEED OPENING	1 800 x 1 020	71’’ X 40’’
BALE DIMENSIONS	1 100 x 750 (dimens. WxH)	43’’1/3 x 29’’½
BALER WEIGHT WITHOUT FLUFFER	21 000 KG (LESS OIL)	46 297 lb
BALER WEIGHT WITH FLUFFER	25 500 KG (LESS OIL)	56 217 lb
NUMBERS OF WIRES	4	4

MODEL
MAC 106/2

EUROPE
- 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



MODEL

MAC 107/2

100 HP
MOTOR POWER

CUTTING AND THRUST POWER
95 TON / 209 450 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.

	LOADING VOLUME	VOLUMETRIC PRODUCTION	CYCLES PER MINUTE	CYCLE TIME
EUROPE	1.55 m^3	465 m^3/h	5	12 sec
USA	55 ft^3	16 420 ft^3/h	5	12 sec

GENERAL SPECIFICATIONS

	EUROPE (MM)	USA
OVERALL LENGTH	10 500	34’5’’
MAXIMUM WIDTH	5 650 (AT TIER STATION)	18’6’’
OVERALL HEIGHT	3 860 (AT FLANGE HOPPER)	12’7’’
FEED OPENING	1 800 x 1 020	71’’ x 40’’
BALE DIMENSIONS	1 100 x 750 (dimens. WxH)	43’’1/3 x 29’’½
BALER WEIGHT WITHOUT FLUFFER	22 000 Kg (less oil)	48 501 lb
BALER WEIGHT WITH FLUFFER	26 500 Kg (less oil)	58 422 lb
NUMBERS OF WIRES	4	4

TECHNICAL DATA

MAIN MOTOR POWER
75 kw

MAIN HYDRAULIC PUMP
Double vane pump

PUMP FLOW CAPACITY
414 l/min
109 GPM

OPERATING PRESSURE
220-300 Bar (3200-4000 PSI)
315 Bar (4500 PSI)

MAIN CYLINDER
Bore 200 mm - 7,9”

RAM FORCE
95 000 kg
209 450 lbs

RAM FORCE PRESSURE
11.5 kg/cm^2
163.5 PSI

OIL RESERVOIR CAPACITY
1 400 Lt
370 US Gal

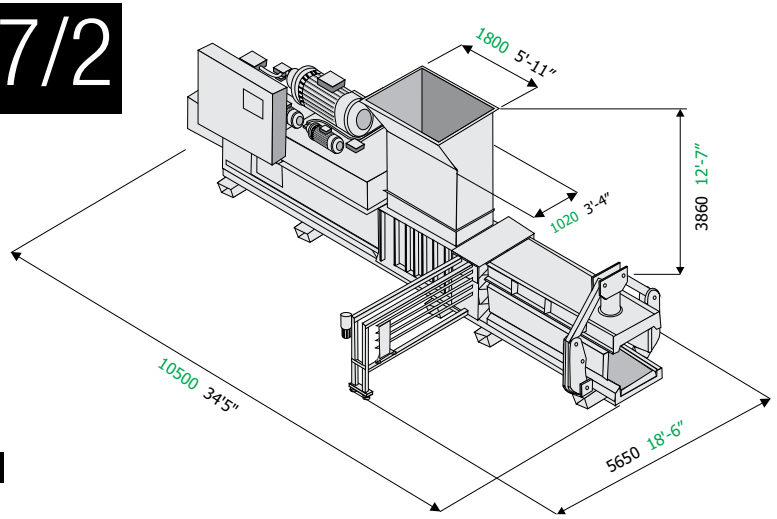
COOLING SYSTEM
Thermostatically controlled air to oil heat exchanger

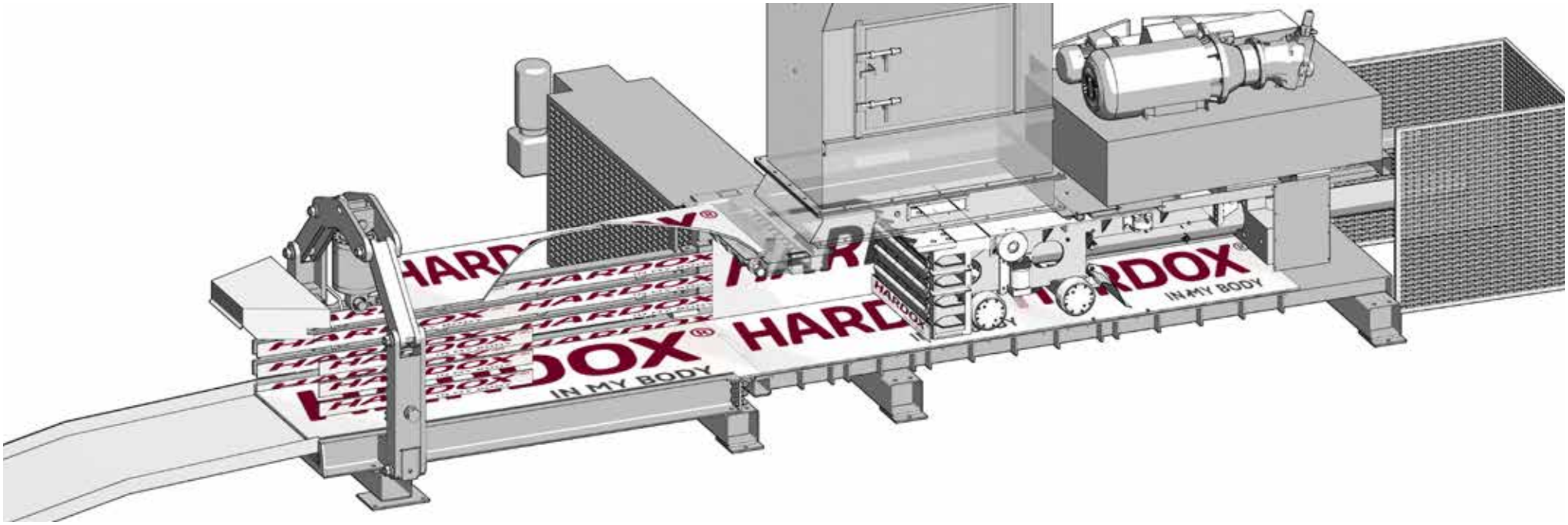
OPERATING CONTROL
Siemens S7 300 programmable controller

MODEL
MAC 107/2

EUROPE
- PET 6.5 TON/H
- OCC 13.2 TON/H
- MIX PAPER 21.5 TON/H
- RDF 26 TON/H

USA
- PET 7.1 TON (US)/H
- OCC 14.5 TON (US)/H
- MIX PAPER 23.5 TON (US)/H
- RDF 28.6 TON (US)/H





WEAR RESISTANT

CORE VALUE

HARDOX® IN MY BODY

LONG SERVICE LIFE

HEAVY CONSTRUCTION

EASY MAINTENANCE

HARDOX STEEL LINERS

HARDOX STEEL LINERS REPLACEMENT

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

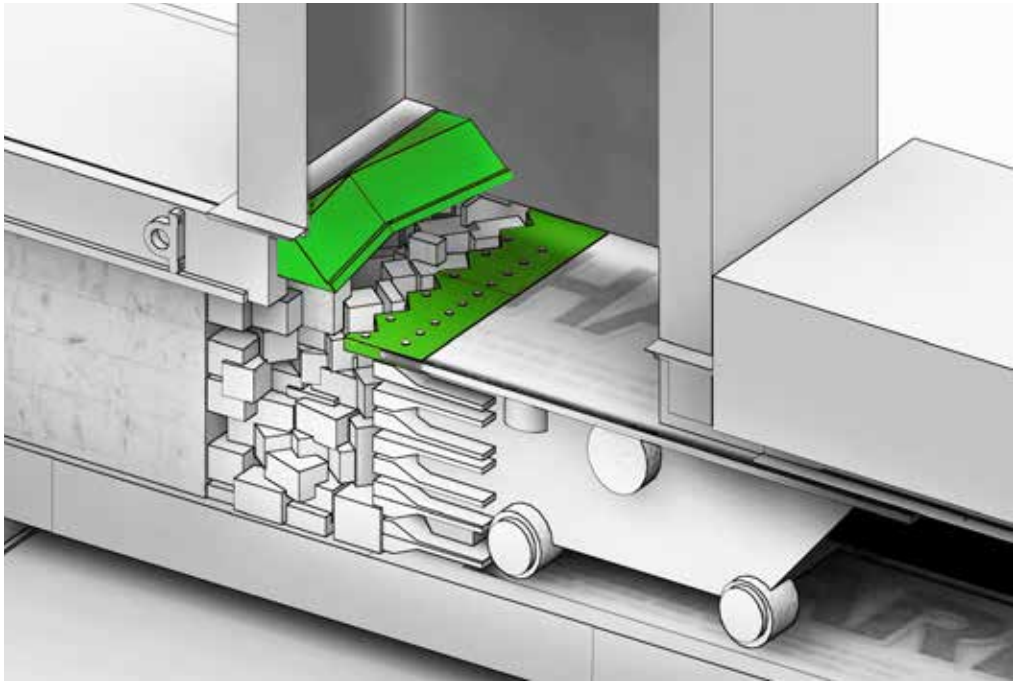
Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

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

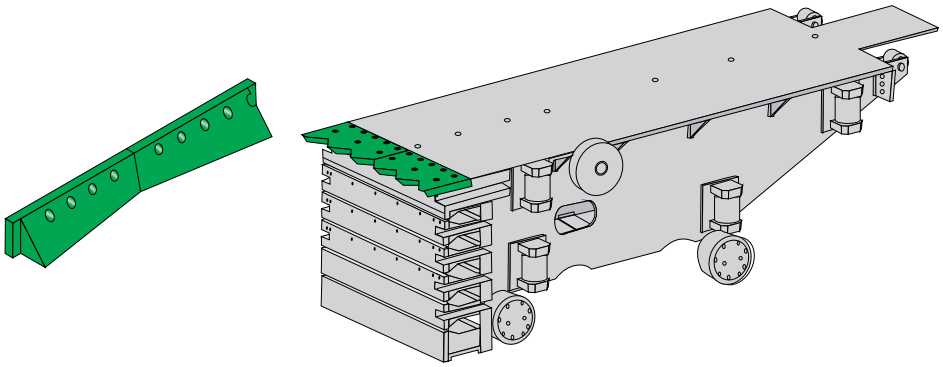
HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.

CUTTING SYSTEM

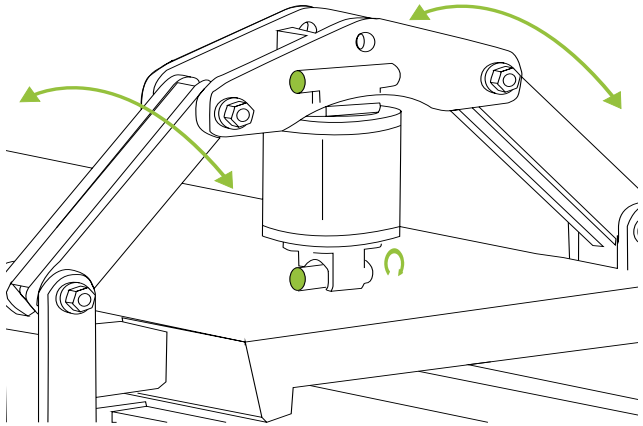
CORE VALUE

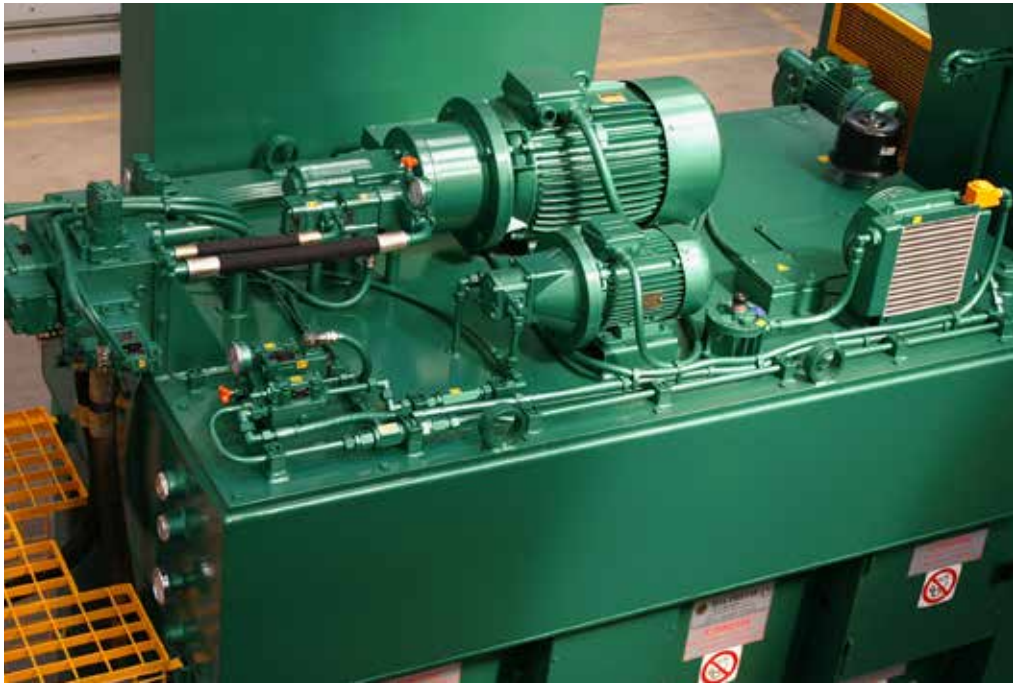
HIGH EFFICIENCY BLADE

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.



TILTING COUNTER-PRESSURE CYLINDER





HYDRAULICS SYSTEM

CORE VALUE

IE3 Electric Motor

Parker

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 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

TYING UNIT

CORE VALUE

RELIABILITY

HEAVY CONSTRUCTION

FLEXIBILITY

EASY MAINTENANCE

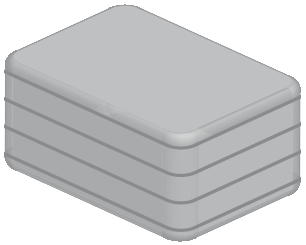
FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

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

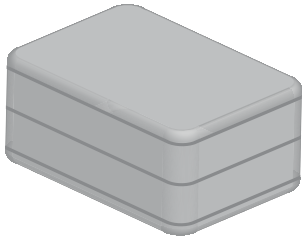
This system simplifies the cleaning process for the tying unit, providing increased safety for the operator. The maintenance and cleaning of the tying unit is done at floor level; replacement of baling wire is at floor level, no pit needed.

MOBILE TYING UNIT (OPTIONAL, AVAILABLE UPON REQUEST)

TYING METHOD



4 WIRES



3 WIRES

PLASTIC REELS

STEEL WIRE REELS

PLASTIC WIRE

TYING UNIT MAINTENANCE

SCART CONNECTIONS ON HOPPER

SCART PLUGS

ELECTRICAL COMPONENTS

CORE VALUE

SIEMENS

HIGH RESISTANCE CABLE

SAFETY OF OPERATOR

EASY MAINTENANCE

CONNECTION OF ELECTRICAL COMPONENTS

HOPPER AND TYING UNIT CONNECTED USING SCART LEADS. ELECTRICAL CABLES PROTECTED BY RODENT-PROOF SHEATHS AND RESISTANT TO HIGH TEMPERATURES.

PROPORTIONAL VALVE

OPTIONAL

PRODUCTION OPTIMISATION

LOW MANAGEMENT COST

IMMEDIATELY ADJUSTS HYDRAULIC PRESSURES ON THE BALER TO BEST PROCESS THE MATERIAL SELECTED.

AUTOMATIC CONFIGURATION OF HYDRAULIC PARAMETERS DEPENDING ON DIFFERENT TYPES OF MULTI-MATERIAL; THIS SYSTEM ENABLES OPERATING COSTS TO BE REDUCED AND WEIGHT OF BALES TO BE INCREASED

PROCESSING ADVANTAGES:

OPTIMIZED ON THE BASIS OF MATERIAL TO BE BALED

STEEL PLATE CONVEYOR

OPTIONAL

LOW COST

HEAVY CONSTRUCTION

HIGH PRODUCTION

EASY MAINTENANCE

CONVEYORS DESIGNED AND MANUFACTURED TO INTEGRATE WITH THE BALER

CONVEYOR BELTS ARE DESIGNED AND MANUFACTURED TO MATCH HOURLY PRODUCTION RATES FOR EACH BALER MODEL OPTIMIZING OPERATING COSTS.

P MODEL	4-5,5-7,5 KW MOTOR POWER	200 MM PITCH CHAIN PITCH
L MODEL	4 KW MOTOR POWER	100 MM PITCH CHAIN PITCH

DESIGNED AND CUSTOMIZED TO MATCH THE TYPE OF PLANT REQUIRED, TYPES OF MATERIALS TO BE PROCESSED AND AVAILABLE SPACE.

PRE-CONDITIONERS FOR WASTE PAPER

OPTIONAL

OUTPUT OPTIMISATION

OPERATOR SAFETY

EASY MAINTENANCE

CONDITIONER FOR WASTE PAPER

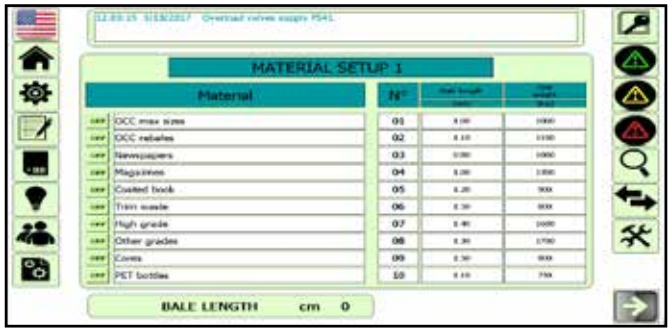
MECHANICAL DEVICE FOR PROCESSING PAPER MATERIALS, TO REDUCE DENSITY PRIOR TO COMPACTION, OBTAINING:
- INTEGRITY OF IDEAL BALES
- REDUCED ELECTRICAL CONSUMPTION
- GREATER DENSITY
- EASY HANDLING

SHREDDERS

ELECTRICAL HIGH SPEED SINGLE SHAFT WITH BOLTED HAMMERS.
ALLOWS APPROPRIATE BLENDING OF DIFFERENT QUALITIES OF WASTE PAPER AND REDUCES WEAR ON BALER.
HIGH PRODUCTIVITY EVEN WITH MATERIALS IN PACKS.

MACPRESSE PRODUCES SPECIAL EQUIPMENT FOR THE PAPER INDUSTRY, AUTOMATIC BALERS WITH AN HOURLY OUTPUT BETWEEN 3 AND 60 TONS PER HOUR, AS WELL AS, OTHER ANCILLARY EQUIPMENT.

SENSORS CONTROL



PRODUCTION REPORT

MAC SUPERVISOR SYSTEM
MSS1 & MSS2

OPTIONAL

SIEMENS

INTERNET CONNECTIVITY

PRODUCTION OPTIMIZATION

REDUCED BALER DOWNTIMES

OPTIMISATION OF PRODUCT OUTPUT AND REDUCTION OF BALER DOWNTIME AND OPERATING COSTS

OPERATOR PANEL SIEMENS + PROGRAMMABLE LOGIC CONTROLLER SIEMENS + SOFTWARE MACPRESSE EUROPA

FUNCTIONS:
A. Setting of baler parameters to match the material to be baled (combined with MDC MAC Dencity Control)
B. Alarms management
C. Remote service assistance
D. 5 languages available

MSS1

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

MSS2

- 5 SETTINGS
- FAULT SIGNALLING


MACPRESSE SAFETY BELT (MSB)


MACPRESSE SAFETY BELT (MSB)

SAFETY COMPONENTS

OPTIONAL

SAFETY OF OPERATORS

OPERATOR SAFETY SYSTEM

MSB (MAC SAFETY BELT) IS A MACPRESSE PATENT

THIS SPECIAL INNOVATION PROTECTS EMPLOYEES SHOULD THEY FALL ONTO THE CONVEYOR. THE EQUIPMENT IS IMMEDIATELY STOPPED AND AN ALARM IS SOUNDED TO ALERT OTHERS OF AN ACCIDENT. THE EQUIPMENT CANNOT BE RESTARTED UNTIL THE EMPLOYEE IS REMOVED FROM THE DANGER ZONE.

MSK MAC SAFETY KEYS

Installed on all equipment access doors.


KEY-LOCK BLOCK


KEY LOCK & MICROSWITCH

MULTI-MATERIALS BALES

BALES INTEGRITY


RIGID PLASTIC


CARDBOARD


100 LITERS DRUMS


RIGID PLASTIC


HDPE


PET

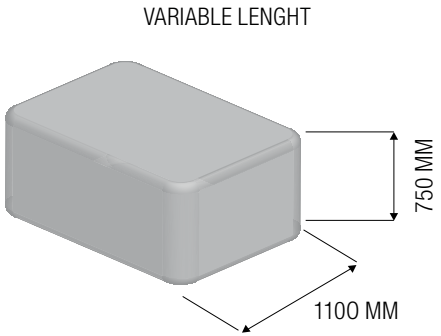
TRANSPORT EFFICIENCY

ROAD TRANSPORT

RAIL TRANSPORT

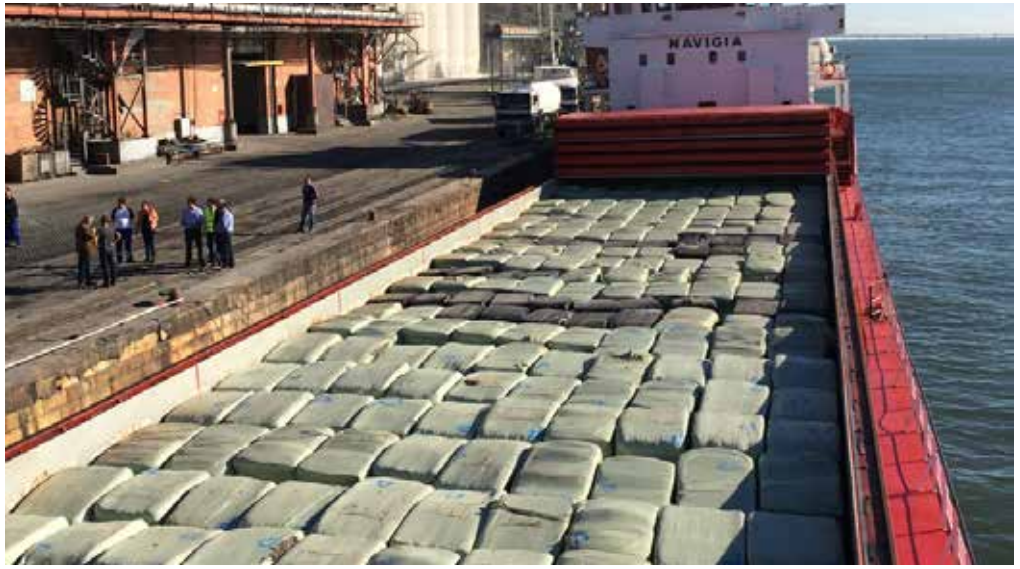
MARTIME TRANSPORT

ROAD TRANSPORT



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

BALING MAC 107/2



OTHER ACCESSORIES

OPTIONAL

PLASTIC WIRE REELS

DIGITAL DISPLAY

PET PERFORATOR

WRAPPING PLASTIC BALES

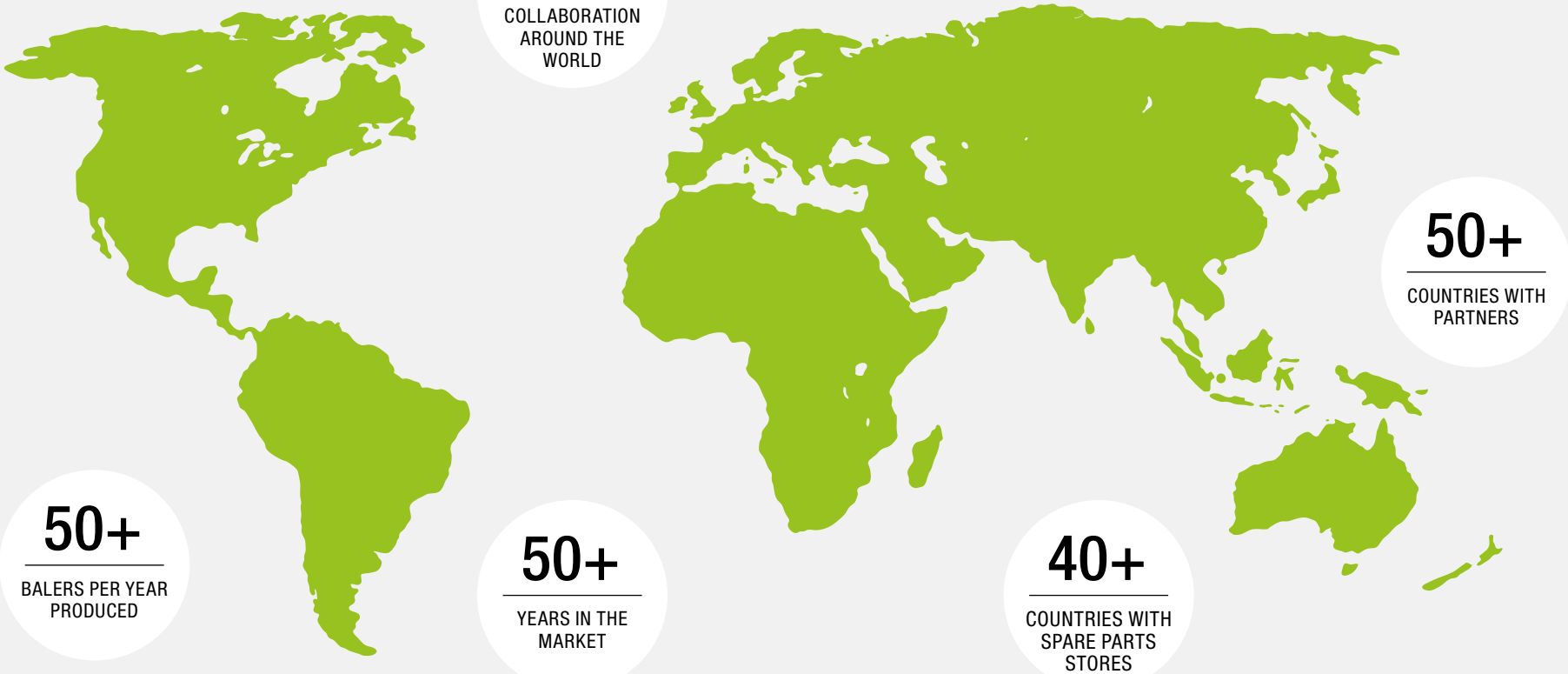
MACPRESSE IN NUMBERS

1500+
BALERS INSTALLED

15+
PROPRIETARY PATENTS

WORLDWIDE ASSISTANCE

200+
COLLABORATION AROUND THE WORLD



45+
COUNTRIES WITH INSTALLED BALERS

50+
COUNTRIES WITH PARTNERS

50+
BALERS PER YEAR PRODUCED

50+
YEARS IN THE MARKET

40+
COUNTRIES WITH SPARE PARTS STORES

CONTACTS

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

SOLUTION FEATURES

*Macpresse reserves the right to change specifications without notice.

- HIGH DENSITY BALES
- IMPERMEABLE
- EASILY TRANSPORTABLE
- OPTIMUM STORAGE
- SEA TRANSPORT
- ROAD TRANSPORT
- RAIL TRANSPORT