



HERRCO
Hellenic Recovery & Recycling Corporation
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Gen. Com. Reg.: 4588201000

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TECHNICAL DESCRIPTION – BALING PRESS

1. General description:

This technical specification concerns the supply, transport, unloading, installation, commissioning and trial operation of a baling press suitable for a mixed stream of recyclable materials. The baling press will be installed at Thermi MRF.

2. Technical specifications:

- Minimum guaranteed practical processing capacity ≥ 8 t/h, including 30% idle time, for the actual material mix of Thermi MRF.
- Type: Horizontal channel press
- Automatic wire tying (5 points)
- Maximum cycle time under load to be declared.
- PLC & modem included, with remote diagnostics.
- Installed power < 55 kW. Average energy consumption (kWh/t) to be declared.
- Maximum operating noise level to be declared.
- Rat proof cable protection
- Operating ambient temperature range to be declared.
- Max length between hopper end and baler end = $\sim 4,100$ mm

3. Quality & Compliance Requirements

Construction and material quality:

- Steel grades and plate thicknesses for the main load-bearing structure, press chamber and bale outlet channel to be declared by the supplier.
- Main load-bearing structure: structural steel S355 or higher, or technically equivalent material with documented mechanical properties and durability.
- Main areas exposed to increased abrasion and mechanical wear: suitable wear-resistant materials or wear plates. Nominal hardness ≥ 400 HBW or documented equivalent wear resistance. Minimum wear plate thickness: 12 mm.
- Wear-protection components: material grade, hardness, thickness, manufacturer and fixing method to be declared. An accompanying drawing shall show their locations and identify replaceable and permanently welded components.



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- Technically equivalent construction or wear-protection solutions may be accepted, with adequate documentation of mechanical strength, wear resistance and durability.

Compliance requirements:

- CE marking
- EN 16500:2014, EN ISO 12100, EN 60204-1
- Warranty $\geq$ 24 months or 4,000 hours
- Manual in English

4. Incoming Materials

A) THERMI - INCOMING MATERIAL ANALYSIS (UNPRESSED)					
The table indicates the actual quantities of the Sorting Centre of Thermi. All material will be pressed except for the iron , the glass and the residue.	Material	Density (kgr / m3)	% incoming stream	Ton / shift to be pressed	m3/hr to be pressed
	PRINTED PAPER	100	28,94%	18,81	29
	CARDBOARDS	40	20,14%	13,09	50
	TETRAPACK	30	0,48%	0,31	2
	PET	25	5,07%	3,30	20
	PE	25	1,42%	0,92	6
	FILM / bags	25	2,87%	1,86	11
	PP/PS	25	2,31%	1,50	9
	AL	40	0,38%	0,24	1
	FE	250	3,06%	NOT TO BE PRESSED	
	GLASS	300	2,86%	NOT TO BE PRESSED	
	RESIDUE	240	32,48%	NOT TO BE PRESSED	
			100,00%	40,04	128,48



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5. Maintenance & Support

A maintenance agreement between Herrco and the supplier should be offered according to working hours. The supplier should organize a maintenance trip to the baler at its location.

The supplier shall declare whether technical support is available through a local service team. If available, the supplier shall identify the authorized service partner.

Furthermore,

- Scheduled visits based on use
- Breakdown response $\leq$ 48 hours
- Spare parts availability $\geq$ 10 years
- Remote diagnostics via modem
- Mandatory periodic maintenance

6. Delivery & Installation

- Transport, unloading, installation and commissioning included

7. Annex

The contractor must complete the attached technical characteristics Excel file.



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8. Photos

Sorting Centre of Thermi

