

Outgoing No. 007/24  
“01” January 2024

**Annex 1 and 2**

## Technical specifications of the equipment

### Business proposal

Technical specifications	DS-600
Drive type	Electro-mechanical
Shaft diameter, mm	600
Shaft length, mm	1200
Motor power, kW	90×2
Shaft speed, rpm	6
Number of knives per shaft	10
Capacity, kg/hour	5000
Output fraction size, mm	Up to 150
Size of shredding chamber, mm	1300×1200
Overall dimensions L×W×H, mm	5800×2300×3370
Shredder weight, kg	18 200

Technical specifications	MX-1400
Drive type	Belt
Rotor diameter, mm	700
Rotor length, mm	1400
Motor power, kW	75×2
Number of knives on the rotor	30
Number of stationary knives	6
Output fraction size, mm	25
Capacity of two shredders, kg/hour	5000
Overall dimensions L×W×H, mm	1300×1200
Overall dimensions L×W×H, mm	2050×2650×3920
Shredder weight, kg	11 200

Technical specifications	MX-1200
Drive type	Belt
Rotor diameter, mm	700
Rotor length, mm	1200
Motor power, kW	75×2
Capacity of two shredders, kg/hour	5000
Output fraction size, mm	Up to 12
Overall dimensions L×W×H, mm	2050×2650×3920
Shredder weight, kg	11 200



## Commercial part

Name	Quantity	Price per piece of equipment	Total cost
Shredder DC600	1	173 400	173 400
Shredder MX1400	2	130 000	260 000
Shredder MX1200	2	108 400	216 800
Side ring breaker	2	13 000	26 000
Magnetic belt separator	4	9 440	37 760
Conveyor 4 metres	6	3 200	19 200
Feeding conveyor 5 metres	1	4 000	4 000

**Cost: 737 160 (seven hundred and thirty-seven thousand one hundred and sixty) euros**

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### Technical specifications of the equipment

Based on your enquiry, we would like to submit a technical and commercial proposal for a tyre recycling line.

Indicators	Unit of measure	Meaning
Feedstock capacity	kg/hour	2000
Nominal output of the end product*	kg/hour	1500
Maximum diameter of tyres to be recycled	mm	1600
Maximum tyre section width	mm	500
Fractional composition of the end product	D mm	1.3.5
Overall dimensions length, width, height.	m	24×6×4
Total number of service personnel	person	4
Total installed power**	kW/h	516
Water consumption	m <sup>3</sup> /h	0,6
Recommended production area	m <sup>2</sup>	350
Recommended storage area	m <sup>2</sup>	200

\* The actual capacity depends on the percentage of tyres processed. The capacity is higher on truck tyres and lower on passenger tyres.

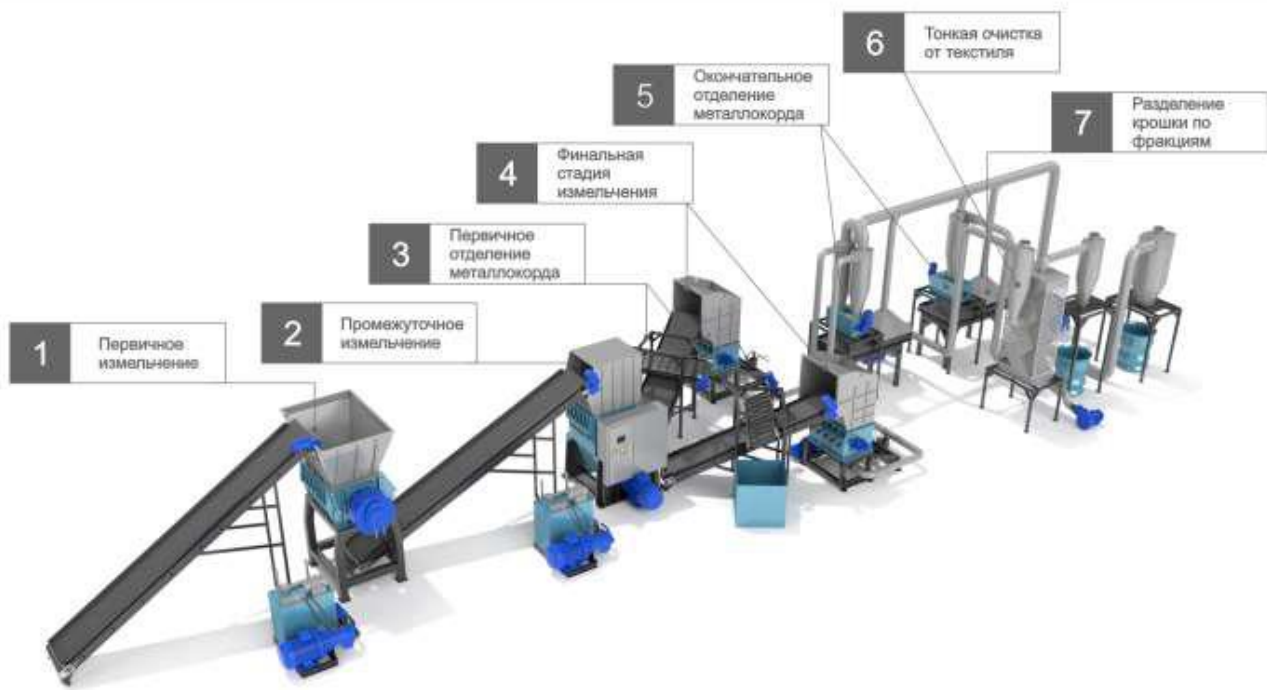
\*\* Actual electricity consumption is 67% of installed capacity.



## Supply package

Names	Quantity	Installed power, kW
Single-shaft shredder MS 1600 HD	1	135
Shredder MX 1400	1	150
Belt feeder	1	3
Transport conveyer	4	1,1+1,1+1,1+1,1
Magnetic separator	4	1,1+1,1+1,1+1,1
Cascade rotor crusher RDM50/120	2	90+90
Transport fan	5	2,2+2,2+2,2+2,2+4
Main fan	1	22
Vibrating table	2	2,2+2,2
Textile separator	1	
Power cabinet	1	
Pneumatic transport kit	1	
Ventilation system	1	
Tools, parts for installation,	1	





1. Primary shredding
2. Intermediate shredding
3. Primary separation of metal cord
4. Final grinding stage
5. Final separation of the metal cord
6. Fine textile cleaning
7. Fractional separation of crumb rubber

### Technical characteristics of the main equipment

#### Single-shaft shredder MS 1600 HD

Technical characteristics:	MS 1600HD
Drive type	hydraulic
Shaft diameter, mm	600
Shaft length, mm	1400
Motor power kW	135
Shaft speed, rpm	4-10
Number of knives on the rotor	13
Output fraction size in mm	Until 150
Number of stationary knives	8
Entrance window size in mm	1600×1200
Overall dimensions in mm L×W×H	2800×1950×3450
Shredder weight, kg	20 100

#### Shredder MX 1400

Technical characteristics:	MX 1400
Drive type	Belt
Shaft diameter, mm	700



Shaft length, mm	1400
Motor power kW	2×75
Number of knives on the rotor	30
Output fraction size in mm	Until 30
Entrance window size in mm	1600×1200
Overall dimensions in mm L×W×H	20500×2650×3920
Shredder weight, kg	1 1200

## Crusher RDM50/120

Rotary crusher model	RDM 50/120
Rotor type	Cascade
Rotor diameter, mm	500
Cascade rotor width, mm	1200
Motor power kW	90
Voltage, V	three-phase 380
Shaft speed, rpm	750
Drive	Belt
Belt brand	C(B)-2500
Number of rotor blades, pcs.	36
Rotor blade size, mm	100×69×20
Number of stationary knives, pcs.	4
Fixed blade size, mm	600×69×20
Fractional size up to	5 mm
Loading window, mm	500×980
Overall dimensions in mm L×W×H	1710×1450×1945
Weight, kg	5 500

## Commercial part

Name	Quantity	Price per unit	Total cost
Single-shaft shredder MS 1600 HD	1	171 400	171 400
Shredder MX 1400	1	130 000	130 000
Belt feeder	1	7 600	7 600
Transport conveyor	4	3 600	14 400
Magnetic separator	4	3 000	12 000
Cascade rotor crusher RDM50/120	2	47 000	94 000
Transport fan	5	800	45 000
Main fan	1	2 000	2 000
Vibrating table	2	7 000	14 000
Textile separator	1	4 000	4 000
Power cabinet	1	14 000	14 000
Pneumatic transport kit	1	4 000	4 000
Exhaust ventilation system	1	3 000	12 000
Additional noise insulation	1	34 000	34 000
Tools, parts for installation	1		



**Cost: 558 400 (five hundred fifty-eight thousand four hundred) euros**

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**Payment terms:** 100% payment after signing a contract with a consortium member company and upon written agreement with the chairman of the board of directors of the international consortium of the PYROLY Group.

**Manufacturing period: 6 months.**

**Warranty: one year.**

**Service: 10 years and more.**

**A short list of additional equipment and tasks for the first phase of the project and their costs.**

Name	Quantity	Price per unit	Total cost
Loader	3	25 000	75 000
Manipulator	2	80 000	160 000
Tractor	2	55 000	110 000
Customs costs, logistics	1	300 000	300 000
Payment for the land plot purchase agreement, site development, repair of buildings, sites, communications in accordance with the requirements of the licence agreement.	1	1 646 000	1 646 000

**Cost: 2 291 000 (two million two hundred and ninety-one thousand) euros**

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The total amount of funds to execute and launch the first phase of the project is:

**3,586,560 (three million five hundred and eighty-six thousand five hundred and sixty) euros.**

The list of materials, necessary works and their cost is determined as of 01/01/ 2024.

The final cost of the first phase of the project will be determined after signing the necessary contracts and financial schedules.

**Chairman of the Board of Directors of the PYROLY**

**Group International Consortium**

**Yurii Didukh**

