



Coopérative Essaada,  
Zhun Aissat Moustapha REGHAIA,  
Alger - Algérie

[ghecham@codin-consulting.com](mailto:ghecham@codin-consulting.com)

00 (213) 666 931 900

00 (213) 557 239 211

## PROPOSAL

|                             |  |                 |              |
|-----------------------------|--|-----------------|--------------|
| <b>From</b>                 | : EQUIPMENT SUPPLIER   | <b>Date</b>     | : 02/07/2018 |
| <b>To</b>                   | : GECHAM CONSULTANT  | <b>Order No</b> | : 18-1031    |
| <b>The person concerned</b> | : GHECHAM ABDELALI   |                 |              |
| <b>Gsm</b>                  | : +213 557 23 92 11  |                 |              |
| <b>E-mail</b>               | : <a href="mailto:ghecham@codin-consulting.com">ghecham@codin-consulting.com</a> |                 |              |
| <b>Subject</b>              | : 1000 kg/h COMPLETE TIRE LINE   |                 |              |
| <b>Address</b>              | : ALGERIA  |                 |              |

## TECHNICAL DETAILS

### 1000 KG/HR TIRE RECYCLING LINE

#### DEBEADER

Debeaders are designed for separating wires from tires before shredding.

- 11 kW engine power
- PLB 35004 F IEC 132 planet gearbox
- Hydraulic cylinder dimensions of 200 mm x 1840 mm
- 4 pcs supportive, 4 for guiding the chrome shaft
- 150 mm thick front plate
- Special cutter blades connected to the front plate disassembled
- Safety switches border points



#### TIRE CUTTING MACHINE

For x Large Tires

- 11 KW /1400 rpm Main Motor
- Vertical direction tire will be split into two pieces and
- Semi-automatic,
- 3-kW Motor for hydraulic unit
- 1/26 Cycle gear ratio
- ✓ Ø40 diameter cutter blades
- Electrical panel
- Rubber foot control during cutting holders provided
- Lower and upper limit safety switches points





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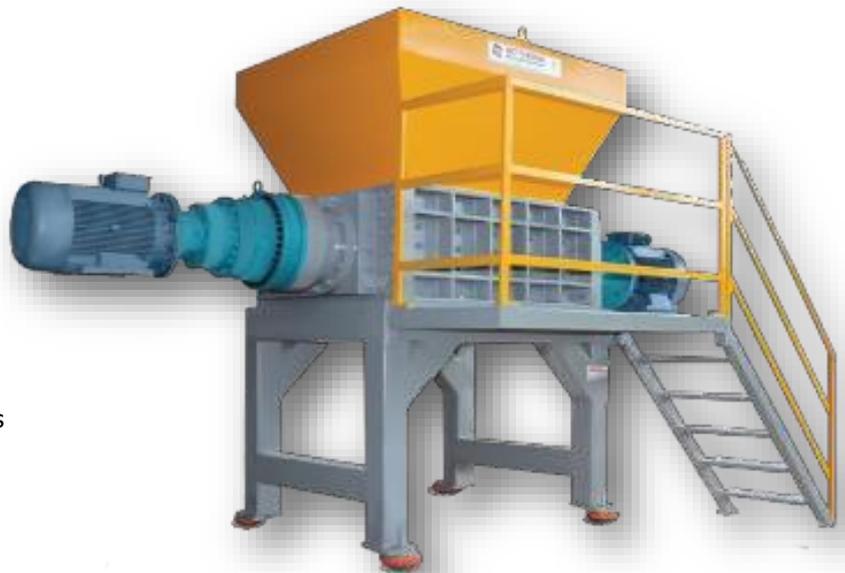
## 2 X SHREDDER LOADING CONVEYOR

- 2.2 KW /36 rpm Motor-Gearbox
- 6000 mm Length x 800 mm Width



## DOUBLE SHAFT SHREDDER-1300

- 2 x 55 Kw /900 rpm. Reduction Motors
- Reducer Brevini (Italian) SL4003
- Bonds: 146,7
- N1: 1,500 rpm
- N2: 10,2 rpm
- ✓ Introduction: IEC225 Engine Adp. Ø60
- Output: N140x5x30x26x9H DIN5480 Milling Holes
- T2: 39.720 Nm
- T2max: 84,000 Nm
- PT: 25 Kw
- 1500x1000 mm. Bunker entry
- ✓ Ø 530 mm blades, 50 mm. thickness
- Rotary knife 29 pieces UDDEHOLM CALMAX
- 28 fixed knives
- ✓ Rotor shaft diameter: Ø550 mm.
- Electric panel (It has the ability to rotate in the reverse direction)





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## **NP-SHD 1200 SINGLE-SHAFT SHREDDER**



- By easy rotating four edge cutting blades, you can extend the blades life-time.
- ✓ It has a new cartridge system that's provides easy blade changing.
- Hard-facing weld makes rotor surfaces more durable against to metal wear.
- Rotor has a water-cooling system for preventing materials from overheating for more efficient shredding process.
- Precision Ram unit moves by hydraulic system.
- Electrical panel has a PLC system.
- Heavy-duty externally mounted bearing prevents dust entering inside also has a water-cooling system against overheating.
- Shredder has a large feeding hopper.
- Materials can feed through conveyor, manually or Fork-lift.
- Crashed material can be carryout through conveyor, screw conveyors or pneumatically.
- Depends on screen, crashed material size can changed to a larger or smaller sizes,
- There is a hydraulic system provides for easy screen changing.
- In case of material jamming there is a security system that stops the rotor and turns reverse direction, if the jamming is persist then machine will stop automatically and warns the operator.

- **ROTOR LENGTH :1200mm**
- ✓ **ROTOR DIAMETER: Ø650mm**
- **ROTOR SPEED : 80-120rpm**
- **CAPACITY : 2000 KG/HR Depends on material and screen size**
- **MOTOR : 110kw**
- ✓ **PLC SİSTEM : SIEMENS/INVERTER: ABB**
- ✓ **BLADE AMOUNT : 80/8 – Material 2379**



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## BEARINGS

- Reinforced bearing holding flanges attached to body make machine stronger.
- SKF, FAG brand of bearings are used.

## SIEVE

- Diameter of the sieve produced in accordance with rotor diameter, easy and quick interchangeable
- Sieve nitride hardened.

## ROTOR

- Blade holders welded into holes on rotor can be replaced
- Blades can be rotated and 4 sides can be used.

## HYDRAULIC RAM

- Anti slippery teeth
- Brass rails and guide rods ensures balanced push plate movement
- Automated cleaning action

## HYDRAULIC SYSTEM

- Fully closed transmission chamber
- Air cooling system
- Hydraulic ram speed adjustable

## MOTOR SYSTEM

- Vibration absorbing arm reinforced high torque gearbox
- Heavy duty pulley and v-belt transmission
- Fully closed pulley and v-belt transmission chamber

## CONTROL SYSTEM

- PLC controlled electric panel, touch screen indicator and adjustments
- Motor excess force protection
- Automatic stop and reverse system

## SHREDDER DISCHARGE CONVEYORS

- 2.2 KW /36 rpm Geared Inverter-Motor 36/rpm
- 4000 mm Length x 800 mm Width

## **1 x CONVEYOR-METAL MAGNETIC SEPARATOR**

- For after Single shaft shredder
- 1,5 kW inverter geared motor 36 rev / min
- Length 2000 mm.
- Width 600 mm.
- Powerful electromagnet





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## 2 X CRUSHER LOADING CONVEYORS

- 2.2 KW /36 rpm Motor-Gearbox
- 6000 mm Length x 800 mm Width

## **NPS 1200 CRUSHING MACHINE**

- The main engine is 90 kW.
- Body ST 37 Platina 40 mm. thickness
- 22 mm. 5 as the strap, tightening the hub cap to protect the motor pulley and safety with switching
- Hydraulic opening rear hinged upper body
- Hydraulic unit 2.2 kW motor
- 600mm. opening and closing stroke piston
- 700 kg x 2 piece flywheel, bushing pass
- 3-stage rotary blades 6 pcs, 50 cm blade length, 62 HRC hardened
- 4 fixed blade, 50 cm blade length, 62 HRC hardened
- Eccentric rotary cutters
- sieve St 37 Platina, hardened
- Iron, box of 120 U Chassis mutual
- Complete electrical panel, the overall olive
- Special steel casting beds outside of the body
- Body dimensions and weigh 1200 x 1150 mm. / 9,000 kg
- Police fully protected housing with switching



## **NPS 1000 CRUSHING MACHINE**

- The main engine is 75 kW.
- Body ST 37 Platina 40 mm. thickness
- Hydraulic opening rear hinged upper body
- Hydraulic unit 2.2 kW motor
- 60 cm. opening and closing stroke piston
- 600 kg x 2 piece flywheel, bushing pass
- 3-stage rotary blades 6 pcs, 50 cm blade length, 62 HRC hardened
- 4 fixed blade, 50 cm blade length, 62 HRC hardened
- Eccentric rotary cutters
- sieve St 37 Platina, hardened
- Iron, box of 120 U Chassis mutual
- Complete electrical panel, the overall olive
- Special steel casting beds outside of the body
- Body dimensions 1080 x 1080 mm.
- Police fully protected housing with switching
- 22 mm. 5 as the strap, tightening the hub cap to protect the motor pulley and safety with switching



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## **2 X CRUSHING DISCHARGE CONVEYORS**

- 1.2 KW /36 rpm Geared Inverter-Motor 36/rpm
- 6000 mm Length x 600 mm Width

## **2 x CONVEYOR-MAGNETIC METAL SEPARATORS**

- 2 Pcs. for after Crushers separator
- 1,5 kW inverter geared motor 36 rev / min
- Length 2000 mm.
- Width 600 mm.
- Powerful electromagnet



## **5 x TRANSFER AND SUCTION FAN**

- ✓ 2.2 kw / 2800 Rpm Motor
- ✓ Pneumatic System Blowers
- ✓ There is a dust collection filter



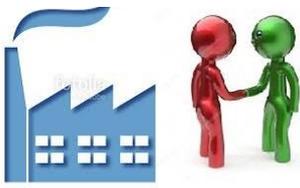
## **2 x ZIGZAG FIBER SEPERATOR**

- ✓ Air locked with distinctive design
- ✓ 2.2 Kw 2800 d/d Motor
- ✓ Electric motor air lock
- ✓ Dust collection system

## **1 x NPS-VIBRATING SCREEN**

- ✓ 3-stage dust removal system
- ✓ 2 x 3kW vibration motor





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## **4 X FABRIC SEPERATION CYCLONE SILO**

Fiber separation is carried out with compressed air by utilizing specific gravity differences. The air suction and light fibers are separated from heavy rubber granules.

- ✓ 2,2 kw air locked Reducer-Motor.
- ✓ Dust separation filter



## **PROPOSAL DETAILS**

| <b><u>DESCRIPTION</u></b>                               | <b><u>PCS</u></b>  |
|---|--------------------|
| DEBEADER  | 1                  |
| TIRE CUTTING MACHINE                                    | 1                  |
| SHREDDER LOADING CONVEYORS                              | 2                  |
| DOUBLE SHAFT SHREDDER 1300                              | 1                  |
| NPS-SH 1200 SINGLE SHAFT SHREDDER                       | 1                  |
| SHREDDERS DISCHARGE CONVEYORS 4000 x 800mm              | 1                  |
| MAGNETIC METAL SEPERATOR CONVEYOR (Shredder)            | 1                  |
| CRUSHING LOADING CONVEYOR                               | 2                  |
| NPS-CR 1200 CRUSHER MACHINE                             | 1                  |
| NPS-CR 100 CRUSHER MACHINE                              | 1                  |
| CRUSHER DISCHARGE CONVEYORS                             | 2                  |
| BLOWER 2,2 -11kW  | 5                  |
| ZIG-ZAG FIBER SEPERATOR                                 | 1                  |
| TIRE FIBER SEPERATION SILO                              | 4                  |
| VIBRATING SCREEN  | 1                  |
| <i>1000 KG/HR Price is including Installation TOTAL</i> | <b>€345,000.00</b> |

**PRICE IS TURNKEY (Including total installation with electrical components, pipes ext.)**

**Payment Terms:** 50% of the total will be received date of order, rest of the 50% received before delivery or L/C

**Delivery Terms:** EX-WORKS

**Delivery Time:** 90 working days after receiving the advance payment.

**Installation and training** is included in the price. Plane tickets and accommodation of technical team should be covered by Buyer.



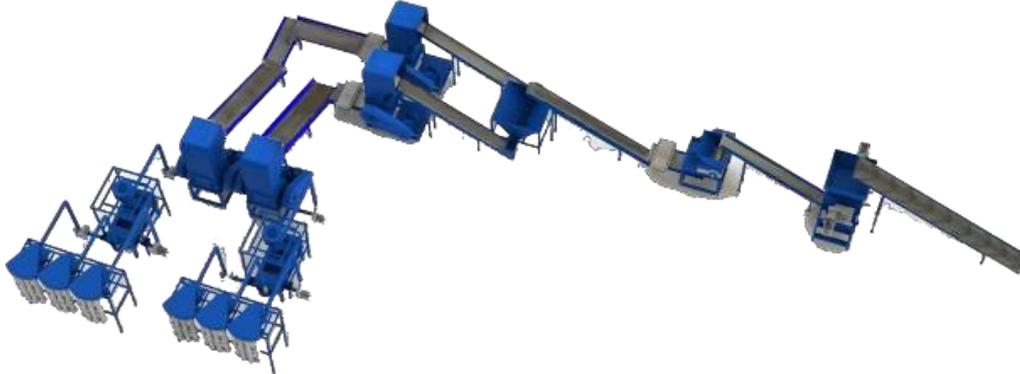
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## CONTRACT AND WARRANTY DETAILS

- Our proposal is valid for 15 days after the proposal date.
- Machines are under warranty for 2 year against manufacture faults. Blades, bearings, seals, electrical motors and equipments that are exposed to wear are excluded from the scope of the warranty. In addition, the damages that result from the misuse and faulty workmanship of the buyer are excluded from the scope of the warranty.
- Delayed delivery of goods that supplied from the market (such as motor, gearbox, etc.) due to the provider will be added to the delivery time.
- ✓ The spare parts are provided by seller upon the customer's demand.
- Replaceable parts are delivered as mounted on the machine. The customer may obtain spare parts in exchange for a price.
- Miscellaneous expenses, such as transport, board and lodging of authorized service personnel(s) for commissioning and initial run of the machines, will be covered by Buyer.
- Upon the completion of the manufacture period of the machine, the buyer company is obliged to receive the ordered machine within 7 working days (after the delivery is notified to it). In the case the buyer company exceeds this period, the buyer company agrees and accepts that it will pay 150 euro, warehouse cost per day and that it may not claim any rights for the natural wear of the machine.
- Commissioning of the dispatched machines should be realized within 30 working days after dispatch date. After 30 working days of dispatching warranty period starts even the machines are not started.
- Buyer should make all payments to Seller in 30 working days after dispatch date. Although assembling and initial run cannot be realized due to faults of Buyer, this topic will still be valid.
- The prerequisite tasks will be carried out before the assembly of the machine on the machine deployment area and the water cooling tower, water installation and electrical line preparation, providing equipments such as crane, forklift, etc. for carrying, unloading and assembling the machine, and when necessary the ground smoothing tasks will be performed by the buyer company.
- The ventilation, electrical grounding, etc. should be provided and the precautions for life and health safety should be taken on the site, which the system and machines will be deployed to, by the buyer company.
- Machines will be delivered at the manufacture site. All system shipment, the insurance liability and the responsibility during transportation belongs to the buyer company.
- Our company reserves its right to change specifications for system development and improvement.
- If the contract is cancelled by Buyer, 20% of payment that is already made by Buyer will not be returned.
- Turkish Republic Istanbul Courts are authorized in the case of any disagreement.
- Drawings, photos and technical specifications are only for reference. Fournisseur d'équipement reserves right to change technical specifications and visuals.
- All of the components in our machines are adjusted to a frequency of 50 Hz and 380 Volts. The expense for all other frequency and voltage adjustments will be added up to the buyer company