Photo Voltaic panels MObile REcycling DEvice

LA MIA ENERGIA

Terrassa, 29 September 2016

PV- MoReDe

INNOVATIVE AND SUPERIOR TECNICAL SOLUTION

- Capital and revolutionary
- Quickly and easy
- Lowers cost

Capital and revolutionary

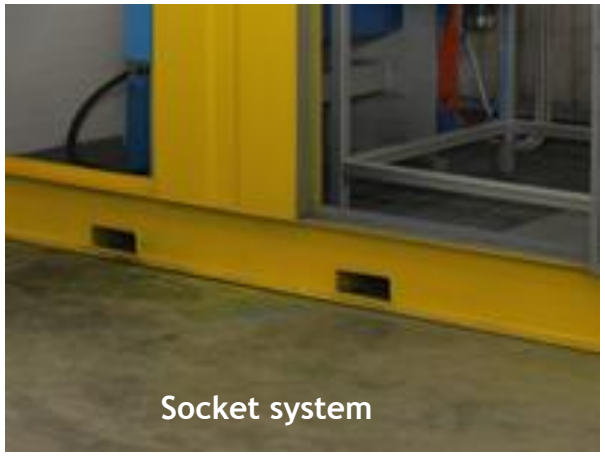
- Exclusively mechanical machining processes
- Total recovery of the photovoltaic panel in terms of raw materials
- Promoter of the new circular economy model

Quickly and easy

- Universality treatment PV modules including thin film
- Easily portable
- Effective functioning both on truck and on ashore
- Technical and administrative simplification for its implementation and management

Three metal boxes
(first trimming, grinding, metals split up and service area)

Anchoring system



Socket system

Side doors (2 on every box)

Lowers cost

- Reduction of the manufacturing costs compared to fixed installations
- Re-use recovered materials in new processes
- Drastic reduction of intermediate logistic costs
- Remove collection centres and related overall management costs
- Significant energy, water and chemical substances saving

How the machine works?

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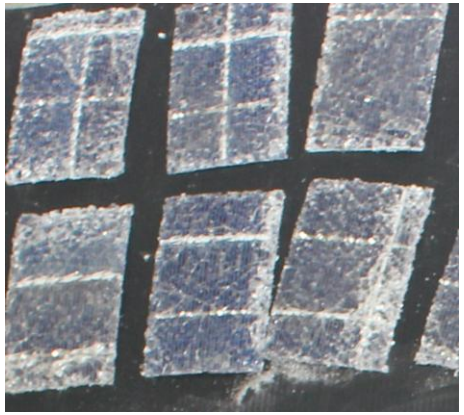
- WEIGHTING and CLEANING UP : ALUMINUM FRAME EXTRACTION

- FEEDING PANEL TO MACHINE and REDUCTION - 100x100 mm PIECES



How the machine works?

STAGE 1

CRASHING and SUCTION
25mm HOLES SCREENING OF THE MATERIAL
SUCTION THROUGH 6mm HOLES

FIRST MATERIAL

GLASS 6mm
READY FOR BAKING

OTHER MATERIALS PROCESSED

6mm FRACTION
READY FOR STAGE 2

STAGE 2

CRUSHING THROUGH HAMMER MILL and VIBRATION SCREEN FOR SEPARATION OF MATERIALS <2mm

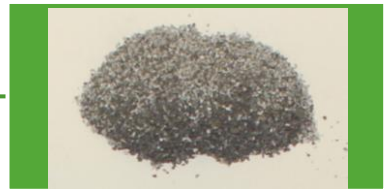
SECOND MATERIAL

CDR – substitute fuels for amounts

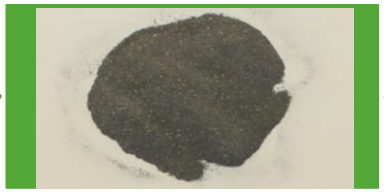
CIRCULAR SCREENING

THREE SEPARATION STAGES

FIRST STAGE
2-0.5mm
PLASTIC and COPPER



SECOND STAGE
0.5-0.315mm
PHOTOACTIVE DUST and PLASTICS



THIRD STAGE
<0.315mm
PHOTOACTIVE DUST

PV-MoReDe

"THE GREEN SIDE"

HEALTH

PV-MoReDe is equipped with the system for capturing and suppression dust in the atmosphere protecting safety and health.
Uptake of particles with sizes of less than 1 and 0.5 microns.
Filtration efficiency of 99%

ENVIROMENTAL IMPACT

PV-MoReDe is defined almost to *"zero environmental impact"* : it minimizes the generation of waste, with a high reduction of pollutant emissions from processes and maximizing the recovery of raw materials, resulting in lower energy consumption for industrial processes to which it is intended.