



*The next recycling technologies™*

## COMPANY OVERVIEW

Since 1997 Ecostar has been synonymous with the most advanced technology in the mechanical separation of waste.



**PATENTED TECHNOLOGY**

*To establish new technological standards by designing increasingly efficient, intelligent and flexible machinery: this is the goal we set ourselves every day.*

***To develop a strategic sector for environment protection, ensuring greater professional and economic benefits for our customers: this is our mission.***

*To increase the performance and functions of waste screening systems to previously unseen levels: this was our first aim and we have successfully achieved it.*

“ Domenico Cappozzo, Founder

**COMPANY**<sup>P.6</sup>  
**TECHNOLOGY**<sup>P.10</sup>  
**APPLICATIONS**<sup>P.12</sup>  
**PRODUCTS**<sup>P.14</sup>

IN MORE THAN 20  
YEARS OF RESEARCH  
AND DEVELOPMENT,  
ECOSTAR HAS  
DEVELOPED CUSTOM  
SOLUTIONS FOR EVERY  
KIND OF MATERIAL TO  
BE SCREENED.

# THE BEST SCREENING FOR A BETTER WORLD

Ecostar is synonymous with the most advanced and refined technology in the mechanical separation of waste. Thanks to its **patented technology Dynamic Disc Screening**, today many types of waste can be efficiently recovered to supply clean fuels and energy sources, such as biomass and RDF (Refuse-Derived Fuel), or substances useful for agriculture and forestry, such as compost. The Ecostar technology revolutionizes the standards

achieved in terms of consumption, production performance, footprint, amortization expectations, economic return, and emissions released during the process.

Ecostar is aimed primarily at designers and manufacturers of plants for waste disposal and the production of biomass, ecological fuels and compost, renewable energy, as well as at public and private utility companies and multi-utilities,

as well as service providers. To make the best technology available to them, Ecostar continually invests in research and development, employing a team of young, motivated and up-to-date design engineers and technicians, who are able to use state of the art tools to achieve two critical objectives: the continuous improvement of a process that must be environmentally friendly and the **provision of an adequate return on the investment.**

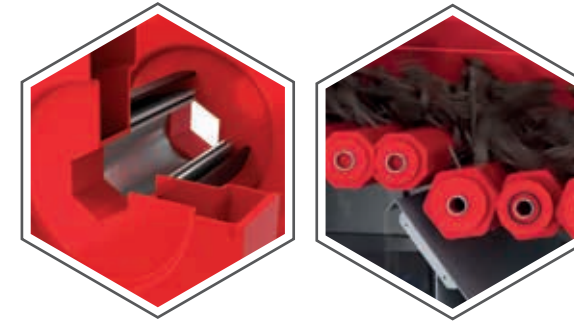




**MORE THAN 500  
MACHINES SUPPLIED  
GLOBALLY**

*AUSTRALIA, AUSTRIA, BELGIUM, BRAZIL, BULGARIA, CANADA, CHINA,  
CROATIA, CZECH REPUBLIC, DENMARK, EGYPT, ENGLAND, ESTONIA,  
FINLAND, FRANCE, GERMANY, GUATEMALA, ICELAND, INDIA,  
INDONESIA, IRELAND, ISRAEL, ITALY, JAPAN, LATVIA, MEXICO, MOROCCO,  
NETHERLANDS, NIGERIA, NORWAY, POLAND, PORTUGAL, ROMANIA, RUSSIA,  
SAN SALVADOR, SAUDI ARABIA, SLOVENIA, SOUTH AFRICA, SOUTH KOREA,  
SPAIN, SWEDEN, SWITZERLAND, THAILAND, TURKEY, UAE, USA, VIETNAM.*

# DYNAMIC DISC SCREENING INCREASES REVENUE



## **ANTI WRAPPING SYSTEM**

The drive shaft is coated with **free manifolds** made of highly resistant material (specially designed for each application) which are independent of the rotation of the shaft itself. **This system does not allow the long and fibrous parts of the material being screened to twist around the shaft**, thus facilitating its easy separation and considerably reducing downtime.

## **FLEXIBLE SCREENING SIZE**

Dynamic Disc Screening allows real time changes to the predetermined screening size ( $\pm 30\%$ ), which can be made by varying the speed of the shafts with the aid of the inverter. **The available screening sizes range from 10 to 350 mm.**

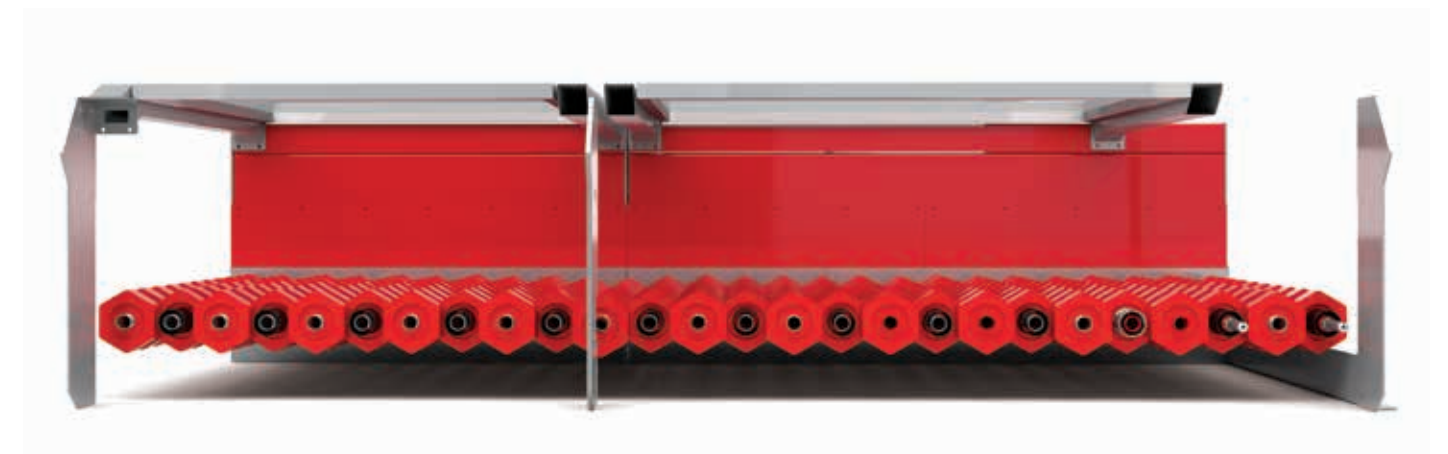
## **PRODUCTIVITY UP TO 200 T/H**

Dynamic Disc Screening allows to screen materials faster (1 m/sec), using less space and achieving productivity of up to 200 t/h. These features bring a considerable increase in revenues from the sale of recycled materials, while the use of higher quality components compared to market standards guarantees maximum reliability and reduces maintenance costs.



DYNAMIC DISC SCREEN IS AN ECOSTAR PATENTED TECHNOLOGY. UNIQUE IN ITS KIND, IT USES A SERIES OF HEXAGONAL OR OCTAGONAL DISC SHAFTS WITH A FLAT PROFILE. THANKS TO THIS PARTICULAR

SHAPE, THE MATERIAL SLIDES ON THE SCREEN DISCS AND IS SUBJECT TO AN UP AND DOWN MOTION THAT SEPARATES THE WASTE. THE SCREENED MATERIAL FALLS UNDER THE SCREENING SURFACE, PASSING THROUGH THE SPACES BETWEEN THE DISCS, WHILE THE MATERIAL REMAINING ON THE SCREEN ADVANCES TO THE END OF THE SCREENING SURFACE. THE RESULT IS A SEPARATE AND CLEAN PORTION, READY FOR SUBSEQUENT RECYCLING RECOVERY.



# ECOSTAR KEEPS GOING WHERE THE OTHERS STOP



## **PET**

TREATMENT OF  
LIGHT/WEIGHT  
PACKAGING

**Capacity:** from 5 up to 20 t/h  
**Ø screening size mm:** 20, 50 + 150  
**Wet material:** YES



## **MUNICIPAL SOLID WASTE**

SEPARATION OF  
DRY/WET FROM  
UNSORTED WASTE

**Capacity:** from 10 up to 100 t/h  
**Ø screening size mm:** 30, 50, 80, 100, 150  
**Wet material:** YES



## **METALS**

SEPARATION OF  
METALS

**Capacity:** from 5 up to 150 t/h  
**Ø screening size mm:** 10, 20, 30, 50, 80, 100, 150  
**Wet material:** YES



## **BIOMASS**

SIZING OF BIOMASS  
AND SEPARATION  
FROM INERT  
MATERIALS

**Capacity:** from 10 up to 200 t/h  
**Ø screening size mm:** 10, 20, 30, 50, 80, 100, 200  
**Wet material:** YES



## **CAR FLUFF**

SEPARATION OF  
NON-FERROUS METALS

**Capacity:** from 10 up to 60 t/h  
**Ø screen. size mm:** 10, 15, 20, 30, 40, 50, 80, 100, 150, 200  
**Wet material:** YES



## **PAPER & CARDBOARD**

SORTING BETWEEN  
PAPER AND  
CARDBOARD

**Capacity:** from 5 up to 20 t/h  
**Ø screening size mm:** 50 + 200  
**Wet material:** YES



## **MUNICIPAL SOLID WASTE**

SEPARATION OF  
DRY/WET FROM  
UNSORTED WASTE

**Capacity:** from 10 up to 100 t/h  
**Ø screening size mm:** 30, 50, 80, 100, 150  
**Wet material:** YES



## **WASTE WOOD**

SIZING AND  
CLEANING FROM  
INERT MATERIALS

**Capacity:** from 15 up to 200 t/h  
**Ø screening size mm:** 10, 20, 30, 40, 50, 80, 100, 150  
**Wet material:** YES



## **INERTS**

SORTING THE STONES  
FROM THE SOIL

**Capacity:** from 20 up to 250 t/h  
**Ø screening size mm:** 10, 20, 30, 40, 50, 80, 100, 150  
**Wet material:** YES



## **CONSTRUCTIONS & DEMOLITIONS**

SORTING HEAVY FROM  
LIGHT MATERIALS

**Capacity:** from 10 up to 100 t/h  
**Ø screening size mm:** 10, 30, 50, 80, 100, 200  
**Wet material:** YES



## **ORGANIC WASTE**

CLEANING  
ORGANIC WASTE  
FROM PLASTICS

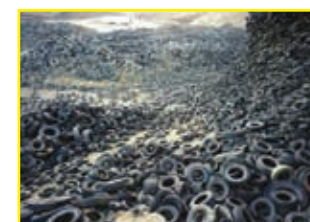
**Capacity:** from 10 up to 60 t/h  
**Ø screening size mm:** 20, 30, 50, 80, 100  
**Wet material:** YES



## **COMPOST**

SEPARATION OF  
COMPOST FROM  
OTHER MATERIALS

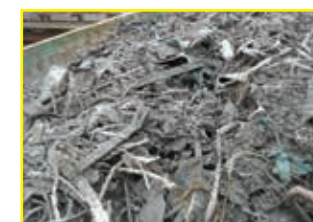
**Capacity:** from 5 up to 100 t/h  
**Ø screen.size mm:** 10, 15, 20, 30, 40, 50, 80, 100, 150, 200  
**Wet material:** YES



## **TIRES**

SORTING THE  
SHREDDED TIRES

**Capacity:** from 5 up to 25 t/h  
**Ø screening size mm:** 30, 50, 80, 100  
**Wet material:** YES



## **ASHES**

SCREENING ASH  
PRODUCED BY  
INCINERATORS

**Capacity:** from 10 up to 100 t/h  
**Ø screening size mm:** 10, 20, 30, 40, 50, 80, 100, 150, 200  
**Wet material:** YES



## HEXTRA & HEXACT: SUPERIOR SCREENING SOLUTIONS

### ***INNOVATION IS PART OF ECOSTAR'S DNA***

Hextra and Hexact are two **Dynamic Disc Screening (DDS)** technology based machines implementing innovative technological solutions developed by the company's R&D department, which clearly outperform the competition.



# HEXTRA

# DYNAMIC

# HEXAGON

# EXTRA

# EFFICIENCY

| HEXTRA             |    | 2F                                                                                  |                                                                                                                                                                                        |    | 3F                                                                                  |                                                                                     |
|--------------------|----|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| TIPOLOGY           |    |  |                                                                                                     |    |  |  |
| MAX WORKING LENGTH | MM | 15500                                                                               | 15500                                                                                                                                                                                  | MM | 15500                                                                               | 15500                                                                               |
| MAX WORKING WIDTH  | MM | 7120                                                                                | 7120                                                                                                                                                                                   | MM | 9400                                                                                | 9400                                                                                |
| MAX WORKING HEIGHT | MM | 4650                                                                                | 4250                                                                                                                                                                                   | MM | 4650                                                                                | 4250                                                                                |
| MAX WEIGHT         | T  | 20                                                                                  | 23                                                                                                                                                                                     | T  | 22                                                                                  | 25                                                                                  |
| SCREENING LENGTH   | MM | 4000 5000 6000 7000                                                                 |                                                                                                                                                                                        | MM | 4000 5000 6000 7000                                                                 |                                                                                     |
|                    |    |                                                                                     |  Hooklift  Track |    | Hooklift available also electric version                                            |                                                                                     |



Hextra is the ultra-efficient machine designed for those who require the operational flexibility of a mobile solution combined with the quality and precision of the exclusive Dynamic Disc Screening technology.

## **TWO VERSIONS, ONE SOUL**

Hextra is available in 2 versions, TRACK and HOOKLIFT, both featuring two or three screen fractions and 4000 mm, 5000 mm, 6000 mm and 7000 mm screen length, depending on operational requirements.

## **OPERATIONAL FLEXIBILITY**

With **SMART HOPPER** (patent pending), our special own-design loading hopper, Hextra becomes a screening system with unbeatable flexibility. The sliding hopper is equipped with a dosing screw and can work in line or in a loop with all shredders. The hydraulic system managed from the remote console can change the screen options from 2 to 3 fractions in relation to specific operating needs. The hopper slides back to minimise footprint during transport.



HEXACT

# HEXAGON IN ACTION

| HEXACT              | 2000     | 3000     | 4000     | 5000     | 6000     | 7000     | 8000     | 9000     | 10000    |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| WORKING LENGTH (MM) | 2000     | 3000     | 4000     | 5000     | 6000     | 7000     | 8000     | 9000     | 10000    |
| WORKING WIDTH (MM)  | 1600     | 1600     | 1600     | 1600     | 1600     | 1600     | 1600     | 1600     | 1600     |
| WEIGHT (T)          | 2-3      | 3-4,5    | 4-6      | 5-7,5    | 6-9      | 7-10,5   | 8-12     | 9-14,5   | 10-16    |
| SCREENING SIZE (MM) | 10 - 350 | 10 - 350 | 10 - 350 | 10 - 350 | 10 - 350 | 10 - 350 | 10 - 350 | 10 - 350 | 10 - 350 |



Hexact is the screening machine with Dynamic Disc Screening technology and modular structure designed for those who require high performance, compact size and low power consumption.

**THE VALUE OF MODULARITY**

The screen length of Hexact starts from 2 metres and can be implemented with 2 or 3 metre modular sections. This system makes it possible to adapt the machine’s capacity to operational needs and the space available. Modularity also reduces assembly times and transport costs for large screening surfaces.

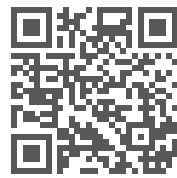
**HIGH PERFORMANCE, LOW CONSUMPTION**

The efficiency of the Dynamic Disc Screening technology permits the use of 7.5 kW electric motors. This makes Hexact **very cost-effective in terms of power consumption, saving up to 70%** when compared to traditional screening systems.

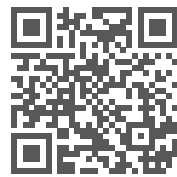
# GET MOVING WITH HEXTRA

READ THE  
QR-CODE  
AND WATCH  
HEXTRA  
7000 3F IN  
ACTION

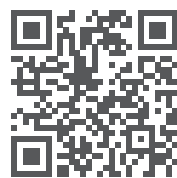




DYNAMIC DISC  
SCREENING TECHNOLOGY



SMART  
HOPPER



ANTI WRAPPING  
SYSTEM

***KNOWLEDGE IS THE FIRST STEP TOWARDS IMPROVEMENT.  
DISCOVER HOW TO INCREASE YOUR BUSINESS THANKS TO THE  
ADVANTAGES OFFERED BY ECOSTAR PATENTED TECHNOLOGY.***

**Ecostar Srl**

Via L. da Vinci 3  
36066 Sandrigo  
Vicenza, Italy

E: [info@ecostarsrl.it](mailto:info@ecostarsrl.it)  
W: [www.ecostar.eu.com](http://www.ecostar.eu.com)  
P: (+39) 0444 750 942



**ECOSTAR**  
*The next recycling technologies™*