

ECOSTAR

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^{P.6}
TECHNOLOGY^{P.10}
APPLICATIONS^{P.12}
PRODUCTS^{P.14}

**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.**

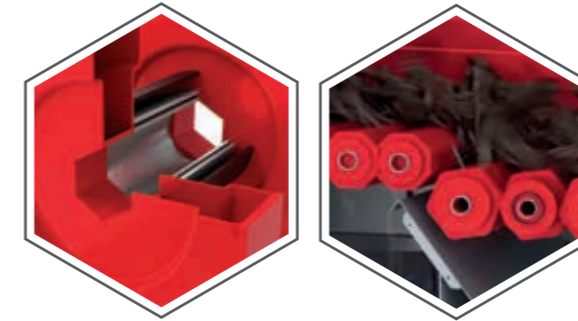




**MORE THAN 500
MACHINES SUPPLIED
GLOBALLY**

*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

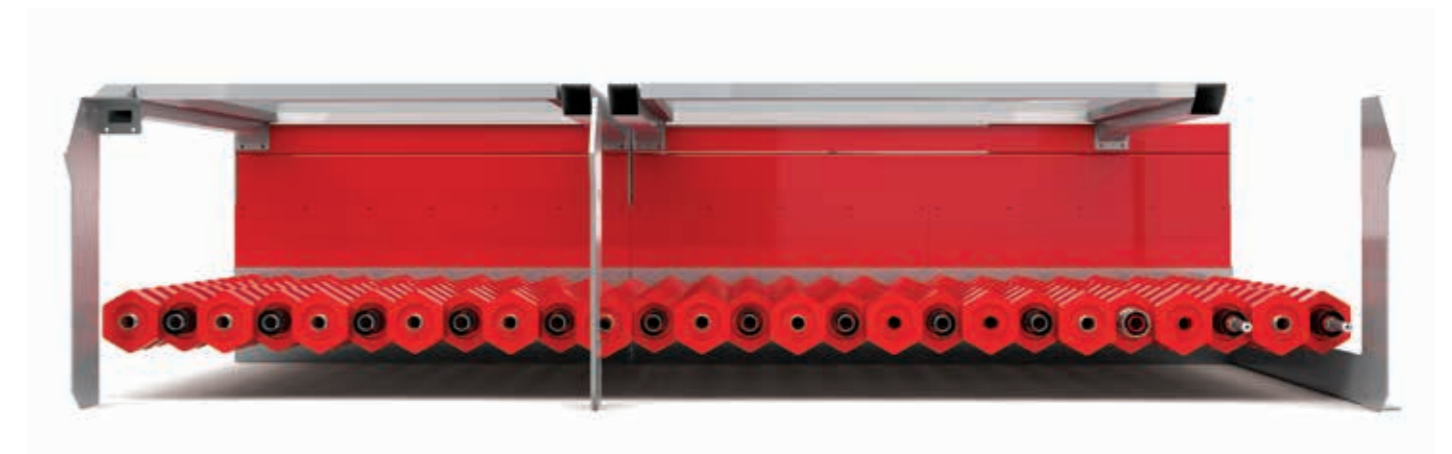
The drive shaft is coated with **free manifolds** made of highly resistant material (specially designed for each application) which are independent of the rotation of the shaft itself. **This system does not allow the long and fibrous parts of the material being screened to twist around the shaft**,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



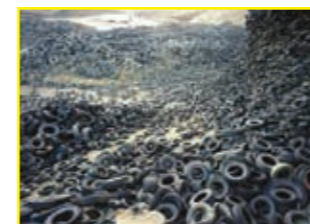
**ORGANIC
WASTE**
CLEANING
ORGANIC WASTE
FROM PLASTICS

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



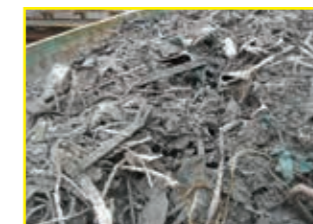
COMPOST
SEPARATION OF
COMPOST FROM
OTHER MATERIALS

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.

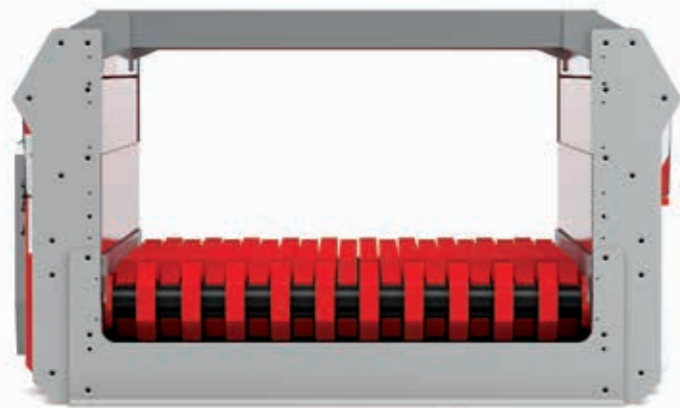
TWO VERSIONS, ONE SOUL

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	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

HEXAGON IN ACTION



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



ECOSTAR

The next recycling technologies™



HEXTRA 2F/3F

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.



DYNAMIC DISC SCREENING
PATENTED TECHNOLOGY

**HEXTRA:
THE BEST
INVESTMENT**

**DYNAMIC
HEXAGON
EXTRA
EFFICIENCY**



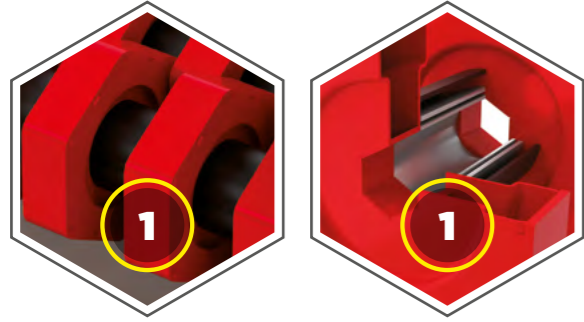
Hextra track version



Hextra hooklift version

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. We have designed Hextra with the goal of providing the same frame for both versions, which allows us to reduce production times and fully satisfy our customers' needs.



- 1) Screening sizes from 10 to 350 mm
- 2) SMART HOPPER sliding hopper
- 3) Low consumption electric motors
- 4) Chevron V Type concave conveyors
- 5) Screening speed variation system
- 6) Diesel or 100% electric generator

MULTIPLE MATERIAL APPLICATIONS. In more than 20 years of research and development, Ecostar has developed custom solutions for every kind of material: RDF, MSW, incinerator ashes, waste wood, biomass, paper & cardboard, aggregate, soil and stones, PET, tires, organic waste, car fluff, constructions & demolitions.

STOP twisting
200 T/H max screening
SMART hopper

-70% consumption
LOOP with shredder
DDS technology



ANTI WRAPPING SYSTEM

The drive shaft is coated with **loose sleeves** 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 ($\pm 20\%$), 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

Hextra can 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.

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.

PATENTED TECHNOLOGY

DYNAMIC DISC SCREENING

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.

HEXTRA		2F		3F	
TYPOLOGY					
TRANSPORT LENGTH	MM	8740	8740	MM	8740
MAX TRANSPORT WIDTH	MM	2500	2500	MM	2500
TRANSPORT HEIGHT	MM	2700	3100	MM	2700
MAX WORKING LENGTH	MM	15500	15500	MM	15500
WORKING WIDTH	MM	7120	7120	MM	9400
MAX WORKING HEIGHT	MM	4650	4250	MM	4650
MAX WEIGHT	T	18	21	T	21
TANK CAPACITY	LT	120	120	LT	120
HYDRAULIC PUMP FLOW RATE	LT/MIN	2,4	0-90	LT/MIN	2,4
HYDRAULIC OIL CAPACITY	LT	10	130	LT	10
SCREENING LENGTH	MM	4000 5000 6000 7000		MM	4000 5000 6000 7000
ENGINE		48 kW - 60 kVA		48 kW - 60 kVA	
 Hooklift  Track			Hooklift available also electric version		

**Ecostar Srl**

Via L. da Vinci 3
36066 Sandrigo
Vicenza, Italy

E: info@ecostarsrl.it
W: www.eco-star.it
P: (+39) 0444 750 942



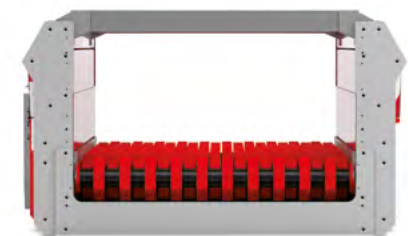
ECOSTAR
The next recycling technologies™

ECOSTAR

The next recycling technologies™

QUALITY
PRECISION
PRODUCTIVITY

HEXAGON IN ACTION



HEXACT

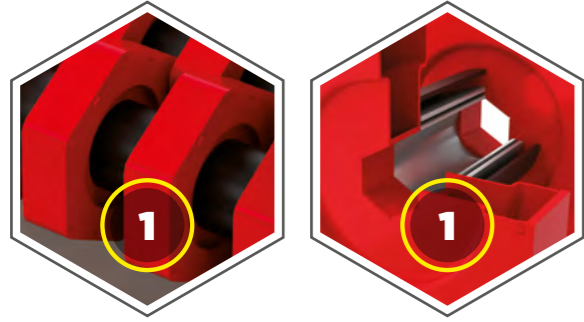
Hexact is the screening machine with Dynamic Disc Screening technology and modular structure designed for those who require high performance, compact size and low power consumption.



**DYNAMIC DISC SCREENING
PATENTED TECHNOLOGY**

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.



- 1) Dynamic Disc Screening technology
- 2) Screening speed variation system
- 3) 7.5 kW electric motor
- 4) Modular system

MULTIPLE MATERIAL APPLICATIONS. In more than 20 years of research and development, Ecostar has developed custom solutions for every kind of material: RDF, MSW, incinerator ashes, waste wood, biomass, paper & cardboard, aggregate, soil and stones, PET, tires, organic waste, car fluff, constructions & demolitions.

FLEX
modularity

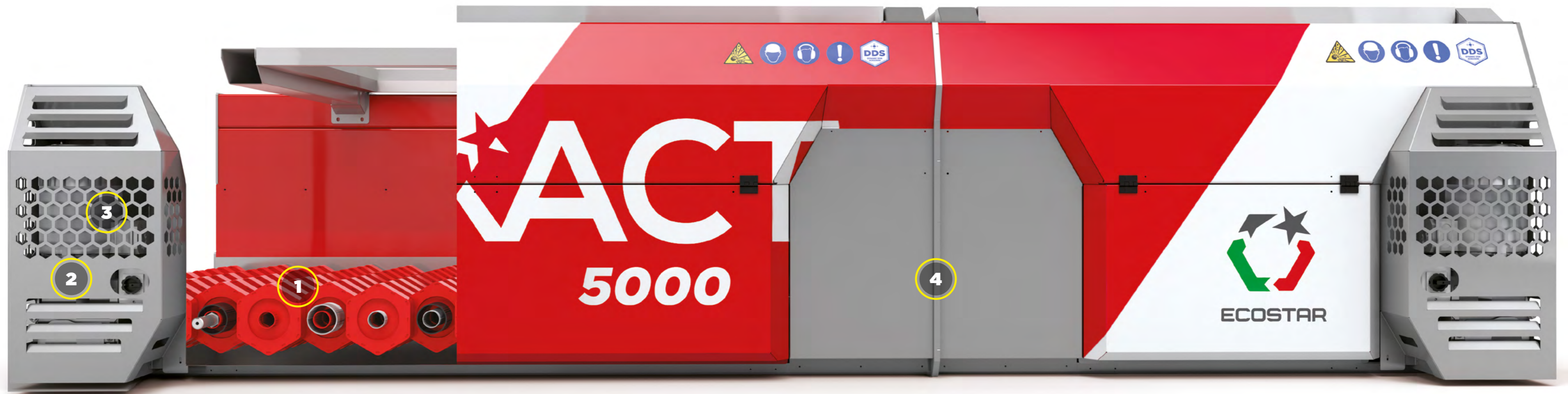
STOP
twisting

200 T/H
max screening

7,5 kW
single engine

-70%
consumption

DDS
technology



PRODUCTIVITY UP TO 200 T/H

Hexact can 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.

PATENTED TECHNOLOGY

DYNAMIC DISC SCREENING

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.

ANTI WRAPPING SYSTEM

The drive shaft is coated with **loose sleeves** 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

DDS technology allows real time changes to the predetermined screening size ($\pm 20\%$), 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.**



Hexact 2000



Hexact 3000



Hexact 4000 (2+2)



Hexact 5000 (3+2)



Hexact 6000 (3+3)



Hexact 7000 (3+2+2)



Hexact 8000 (3+3+2)

HEXACT 2000

WORKING LENGTH	MM	2000
WORKING WIDTH	MM	1600
TOTAL WIDTH	MM	2300
TOTAL HEIGHT	MM	1270
WEIGHT	T	3
POWER INSTALLED	kW	1 x 7,5
SCREENING SIZE	MM	10 - 350

HEXACT 3000

WORKING LENGTH	MM	3000
WORKING WIDTH	MM	1600
TOTAL WIDTH	MM	2300
TOTAL HEIGHT	MM	1270
WEIGHT	T	4
POWER INSTALLED	kW	1 x 7,5
SCREENING SIZE	MM	10 - 350

HEXACT 4000 > 8000

MODEL	WORKING LENGTH	WEIGHT	POWER INSTAL.	SCREEN. SIZE
	MM	T	kW	MM
4000	4000	5	1 x 7,5	10 - 350
5000	5000	6	2 x 7,5	10 - 350
6000	6000	7	2 x 7,5	10 - 350
7000	7000	8	2 x 7,5	10 - 350
8000	8000	9	2 x 7,5	10 - 350

Ecostar Srl

Via L. da Vinci 3 E: info@ecostarsrl.it
 36066 Sandrigo W: www.eco-star.it
 Vicenza, Italy P: (+39) 0444 750 942





Machine model

HEXACT 7000

Screening size

Ø50+200 mm. with DDS HDDS®

Characteristics

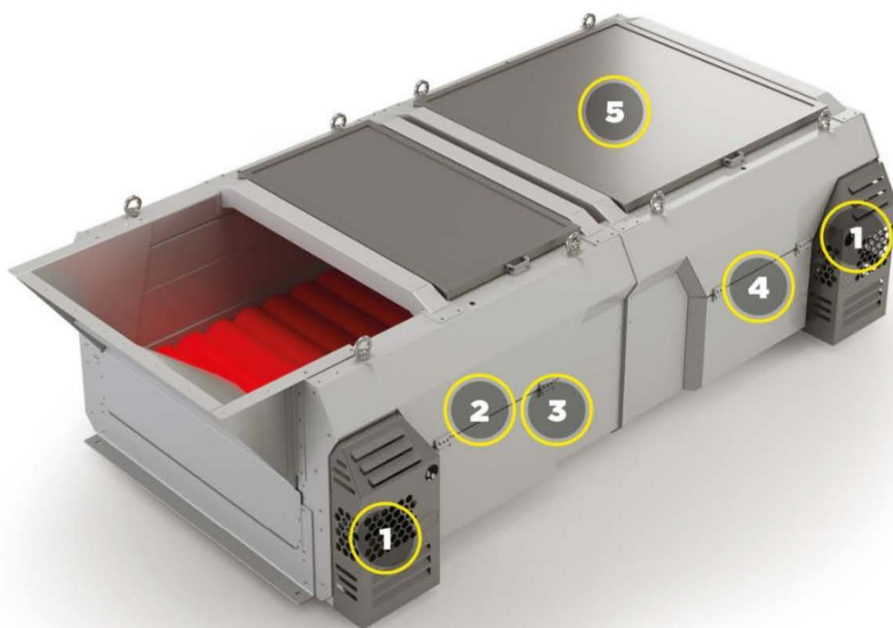
SCREENING DECK

MACHINE DIMENSIONS

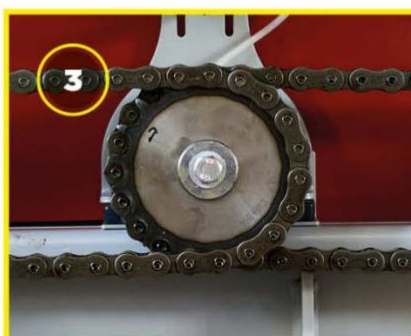
GEARMOTOR

Screen technology	DDS HDDS®	Length	7.000 mm.	Quantity	2
Length	7.000 mm.	Width	2.250 mm.	Provided Torque	520 nm
Width	1.600 mm.	Frame height	1.300 mm.	Power	7,5 kw
Deck surface	11,2 m ²	Height open cover	2.650 mm.	Voltage/Frequency	230/400v 50 hz
Discs shape	Hexagonal	Weight	8,5 tons	Protection	IP55
Discs material	HARDOX®	Colours RAL	3020-9006	CE certification	Yes
Idler pipe material	Steel				

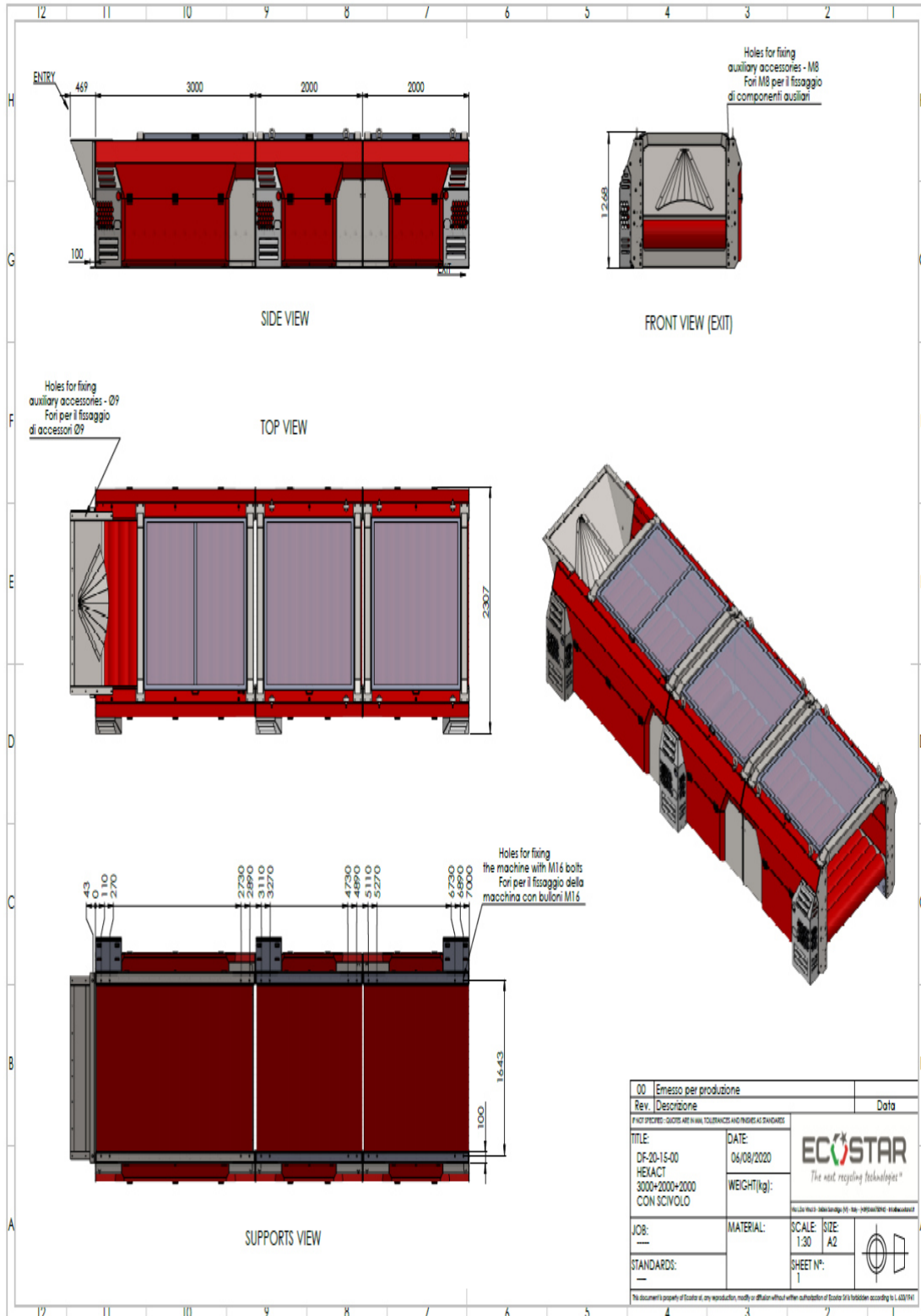
Standard equipment onboard



1. Gear motor carter with disconnecter switch.
2. Centralized lubrication.
3. Chain transmission.
4. Connection wiring box.
5. Protection cover with safety switches.



Preliminary layout

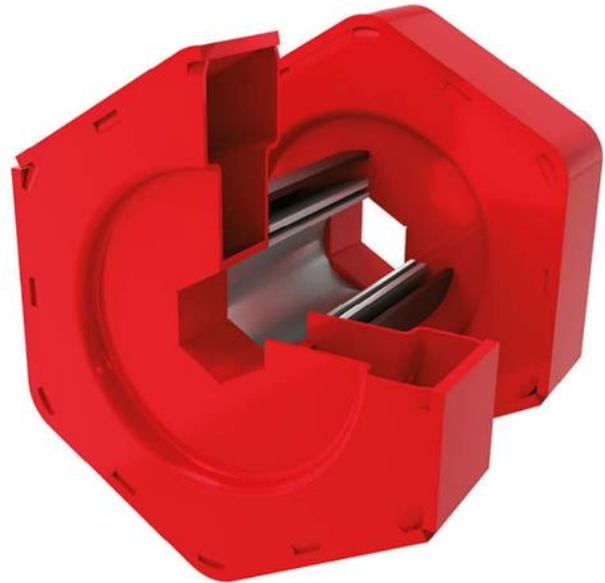


DDS

Dynamic Disc Screening (DDS) is an Ecostar Patented Technology. It uses discs in Hardox with a flat profile. Thanks to this special shape, the material flows over the screening discs and is subjected to up-and-down vibrations that separate the waste components.

Free manifolds

Each drive shaft is coated with free manifolds which are independent of the rotation of the shaft itself. The free manifolds prevent the material being screened to twist around the shaft thus facilitating a more qualitative separation and considerably reducing downtime.



 ANTI WRAPPING SYSTEM	 REDUCED MAINTENANCE COSTS
 HIGHER PRODUCTION VOLUMES	 ANTI CLOGGING SYSTEM



Adjustable screening size

Real time changes to the predetermined screening section ($\pm 30\%$) can be obtained by varying the speed of the shafts with the help of the inverter. Available range from 10 to 350 mm.

HDDS

Hyper Dynamic Disc Screening

(HDDS) is the new screening system designed by Ecostar to accelerate and improve the separation of materials which are difficult to manage.

The HDDS technology was especially designed for the treatment of difficult waste containing long and filamentous materials, such as plastic bags or packaging wraps, which can become twisted around the shafts, or plastic bottles that can clog the system and stop the separation process.



Thanks to the special flap with which Hyper DDS is provided, materials such as plastic bottles and cans are subjected to a second thrusting action which optimizes the separation of overscreen and underscreen and produces higher quality materials for the subsequent treatment stages.



Assistance / Service

The quality of the whole depends on each individual component. That's why we focus on the quality of every single component of our machines or systems. We also manage the spare parts service with special attention and are able to deliver any part quickly and efficiently anywhere in the world.



Warranties

- a. Any warranty claims for defects will only accrue subject to the condition that the commercial contracting partner inspects the goods delivered by Ecostar® for any defects immediately after receipt and notifies Ecostar® thereof immediately in the event of apparent defects and, in the event of hidden defects, immediately after their discovery. If the contracting partner fails to give the required notice of defects, the goods are regarded as approved. Any warranty claims for defects are excluded in this case.
- b. The contracting partner's warranty claims are statute-barred after 36 months. The period of limitation begins to run upon the delivery of the goods. However, in deviation therefrom, the statutory periods of limitation shall apply where the laws specify a longer period of limitation for buildings or for delivery items that are used for a building on the basis of their customary mode of use. The statutory periods of limitation shall also apply in relation to the contracting partner's damage compensation claims that are based on a culpable violation of life, limb or health or for any other losses that are due to Ecostar®'s grossly negligent or intentional breach of duty.
- c. No warranty claims are granted if the defectiveness is due to the fact that the contracting partner has failed to comply with Ecostar®'s operating and maintenance instructions and if non-compliance was causal for the resulting defect. The same applies where the defectiveness is due to incorrect assembly or start of operation by the contracting partner or by third parties. Furthermore, this applies if modifications to the products are made, parts exchanged or consumables used that are not in line with the specifications provided by Ecostar®, unless the defect is not causally linked to the changes made or the consumables used by the contracting partner.
- d. Normal wear and tear as well as damage due to improper treatment are excluded from the warranty. In particular, Ecostar® is not liable for any changes in the goods' conditions due to improper storage at the contracting partner.

Certification



DATA SHEET 1999 10 01

HARDOX® 400

ABRASION RESISTANT PLATE

HARDOX 400 is an abrasion resistant plate with a hardness of about 400 HB, intended for applications where demands are imposed on minimum maintenance or maintenance with special wear-resisting tools (sandblasting equipment, HARDOX 400 (abrasion-resisting grade) wheel).

APPLICATIONS
Cranes, elevators, hoists, conveying systems, ships, jetties, cooling towers, conveyor belts, bins, gears, sprockets, dumptrucks, loaders, industrial trucks, forams, bulldozers, excavators, skid-tyre wheelsets, scrap scrapers, presses etc.

CHEMICAL COMPOSITION
Plate thickness: 4-10, 100-20, 200-32, 300-51, 370-80, 450-100 mm

Chemical Composition (min. max.)	C	Si	Mn	P	S	Cr	Ni	Mo	B	Al	CU	SEI	SEI*
%	0.14	0.70	1.60	0.025	0.010	0.30	0.25	0.25	0.004	0.30	0.25	0.03	0.25
%	0.14	0.70	1.60	0.025	0.010	0.30	0.25	0.25	0.004	0.30	0.25	0.03	0.25
%	0.18	0.70	1.60	0.025	0.010	0.30	0.25	0.25	0.004	0.30	0.25	0.03	0.25
%	0.22	0.70	1.60	0.025	0.010	0.40	0.25	0.25	0.004	0.30	0.25	0.03	0.25
%	0.27	0.70	1.60	0.025	0.010	0.40	0.25	0.25	0.004	0.30	0.25	0.03	0.25
%	0.32	0.70	1.60	0.025	0.010	0.40	0.25	0.25	0.004	0.30	0.25	0.03	0.25

SEI = C + Mn + Ni + Cu + Se
SEI* = C + Si + Mn + Ni + Cu + Se

The steel is grain-refined.

HARDNESS
HBW 370-430

MECHANICAL PROPERTIES
Yield strength: 355, 355, 355, 355, 355 MPa
Tensile strength: 460, 460, 460, 460, 460 MPa
Elongation: 18, 18, 18, 18, 18 %

IMPACT PROPERTIES
Testing: Charpy V, longitudinal
Temperature: -40 (-40°F)

TESTING
Bend: hardness HBW according to EN ISO 6505-1, on a mild surface 0.5-2 mm below plate surface (EN ISO 6505-1)

FORM OF SUPPLY
Quotations: When necessary, hardness is adjusted by means of subsequent tempering

DIMENSIONS
HARDOX 400 is supplied in plate thicknesses of 4-100 mm. More detailed information on dimensions is provided in our brochure General Product Information 6-40.

TOLERANCES
According to EN 10 200:
- Tolerances on thickness according to Class A
- Tolerances on length according to Class A (Normal tolerances)

SURFACE FINISH
According to EN 10 200-2:
- Requirements according to Class A
- Repair conditions according to Subtable 1, except for welding as allowed.



Where we are



Ecostar is present around the world with its Dynamic Disc Screening technology screens and makes use of specialized Partners for the construction of recycling plants and for the provision of installation

and technical support for its machinery. The most important companies in the materials recycling industry have chosen the efficiency and reliability of Ecostar dynamic disc screens.

Global presence

* Official Distributors

Argentina *	Finland *	Morocco	Spain *
Australia *	France *	Netherlands	Sweden *
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Denmark	Japan	Slovenia	
Egypt	Latvia *	South Africa	
Estonia	Mexico *	South Korea *	

Headquarters

Sandrigo (VI) Italy

Sales Team

Filippo Cappozzo

CEO and Sales Director

Gherardo Giachetti

Sales Coordinator

Filippo Calabretta

Sales Manager Europe

Sara Dallasta

Sales Manager MENA



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
W: www.ecostar.eu.com
P: (+39) 0444 750 942

