

# Screening

## Ecostar - Hextra

The Ecostar Hextra is an efficient mobile disc screener designed for processors who require the operational flexibility of a mobile solution, combined with the quality and precision of Ecostar's patented Dynamic Disk Screening technology.



With Ecostar's 'Smart Hopper', the Hextra becomes a disc screener with great flexibility. The hydraulic system managed from the remote control can change the screen options from two to three fractions, depending on the specific operational needs. This sliding hopper is equipped with a dosing screw to break up materials presented to the deck(s).



### Applications

- Wood
- Incinerator Ash
- Inerts
- Green / Organic Waste
- RDF
- Biomass
- Compost
- Paper & Cardboard
- MSW
- Commercial & Industrial Waste
- Tyres
- Car Fluff
- PET

See our 'Dynamic Disc Screening' insert for further information on this exclusive technology.



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The Hextra is available as both a tracked and a hook lift version. Both styles allow for either a two or three fraction configuration, with a 4000mm - 7000mm screen length, depending on operational requirements. The use of high-quality components ensures reliability and reduces maintenance costs.

The patented Dynamic Disk Screening technology uses 7.5 kW electric motors to power the shafts. This makes the Hextra very cost-effective in terms of power consumption, saving up to 70% when compared to traditional screening systems.



### Key Features

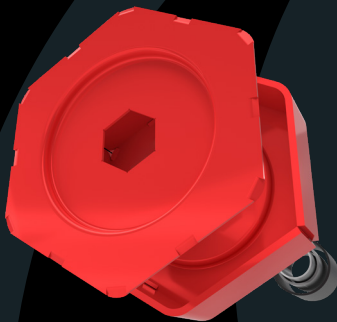
- Patented 'Dynamic Disc Screening' technology.
- Screening speed variation.
- Anti-wrapping system.
- Screening sizes range from 10 - 350mm.
- 'Smart Hopper' flexibility

Hextra	2 Fraction		3 Fraction	
Type	Hook Lift	Tracked	Hook Lift	Tracked
Transport Length	8,740 mm	8,740 mm	8,740 mm	8,740 mm
Max Transport Width	2,550 mm	2,550 mm	2,550 mm	2,550 mm
Transport Height	2,700 mm	3,100 mm	2,700mm	3,100 mm
Max Working Length	15,500 mm	15,500 mm	15,500 mm	15,500 mm
Working Width	7,120 mm	7,120 mm	9,400 mm	9,400 mm
Max Working Height	4,650 mm	4,250 mm	4,650 mm	4,250 mm
Max Weight	20 Tn	23 Tn	22 Tn	25 Tn

# Dynamic Disc Screening

The patented technology revolutionising the waste screening industry

Ecostar's dynamic disc screening technology uses a series of shafts with hexagonal or octagonal flat discs made of Hardox steel to ensure maximum wear and abrasion resistance. Thanks to this shape, the material flows over the screening discs and is subjected to up-and-down vibrations that agitate and separate the waste. The screened material falls through the spaces between the discs, with the oversize material remaining on the discs which is conveyed to the end of the screening deck itself. The result is a separated and clean fraction, ready for the further processing.



DDS allows real time changes to amend the screened product size ( $\pm 30\%$ ), which can be obtained by varying the speed of the shafts with the help of the inverter. The available screening sections range from 10 to 350 mm. The DDS technology enables Ecostar machinery to separate materials faster, using less space and reaching a productivity level of up to 200 t/h.

The traction shaft is covered with patented loose sleeves made of highly resistant material, which are independent of the rotation of the shaft itself. This prevents the long and fibrous parts of the material getting wrapped around the shaft. This is critical for optimal screening results and for considerably reducing downtime.

