



Innovation at Work

EDGE MC1400 MATERIAL CLASSIFIER



designengineeringinnovation



PRECISE.
FLEXIBLE.
SEPARATION.



PRODUCT

HIGHLIGHTS

KEY HIGHLIGHTS

Available in track, semi-trailer or Static chassis formats

Process up to 300TPH dependant on material

Vacuum option can be disabled and closed off for applications where light plastics extraction is not required

The extremely wide Feed Conveyor provides an even spread of material for efficient separation

Enclosed design helps control air flow and minimises air depressurisation whilst minimising dust creation with reduced spillage

Innovative "Sea-Can friendly" design for global export.

Designed for quick and easy transportation via low-loader

4 product separation solution for the waste and organics recycling industries

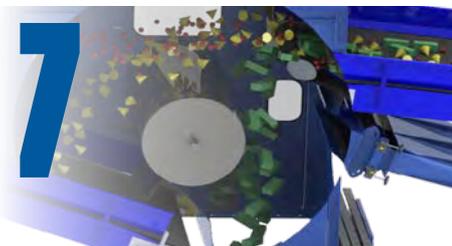


The new EDGE MC1400 provides operators the ability to extract impurities from highly contaminated material in just one pass. Utilizing controlled air as a separation medium, the MC1400 is the ideal solution for the cleaning of compost and biomass fractions with its ability to separate heavy fractions from lights. With easily adjustable components such as fan speed, feed conveyor belt speed and drum positioning, the MC1400 has the capacity to handle a wide range of applications.

Available as track, semi-trailer or static chassis formats, the MC1400 can be powered via a diesel/hydraulic powerunit, diesel genset or direct electric.

DESIGN FEATURES

EDGE Innovate have worked tirelessly to ensure our products are of the highest quality. We only ever use parts and products that have been developed, tested and proven to provide optimal performance and reduce operating and maintenance costs. Every part is vital for uptime and performance.



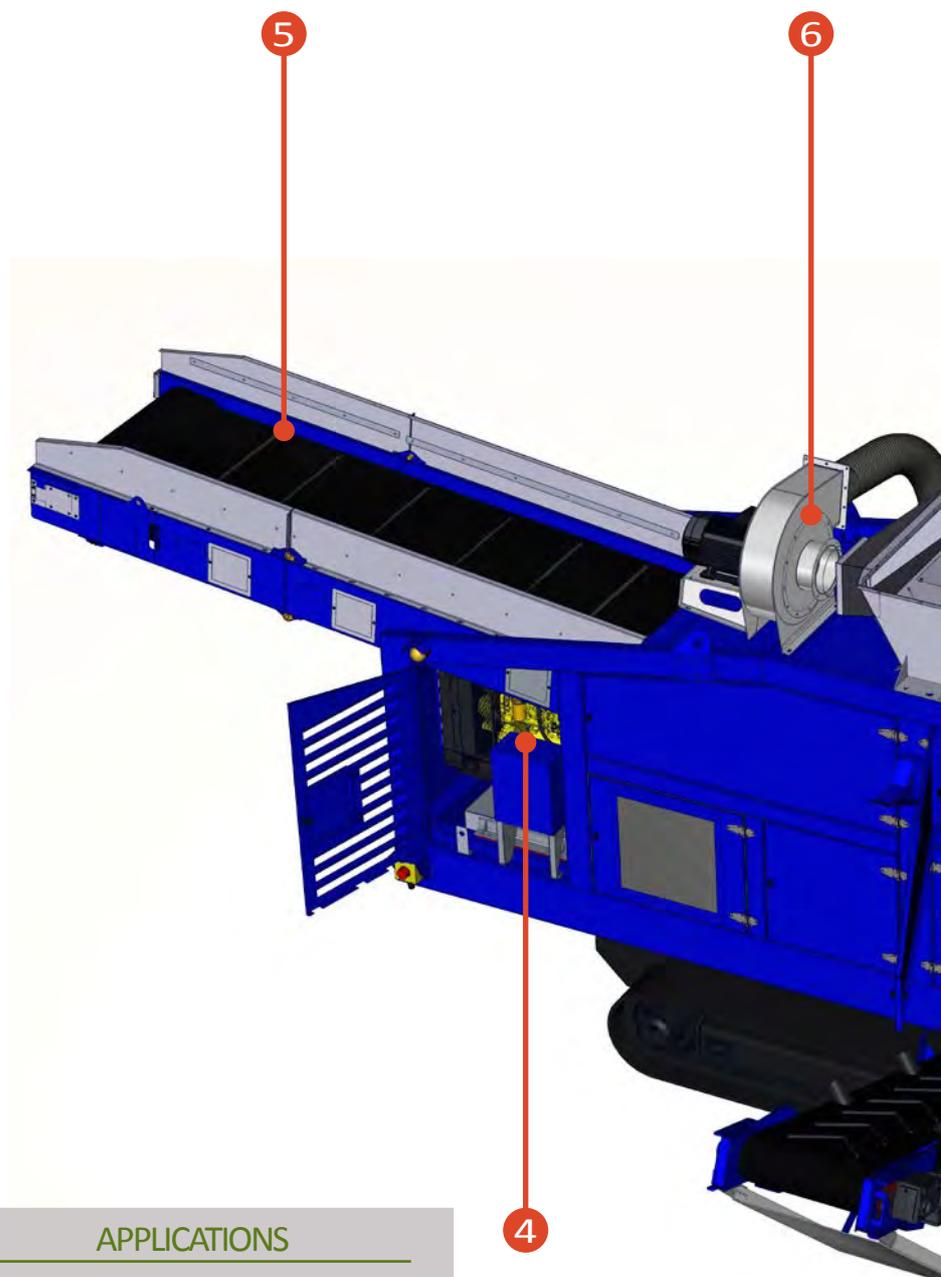
DRUM SEPARATOR

- The Drum Splitter acts as a mechanism for controlling the primary split which divides the lights from the heavies.
- The rotating drum separator facilitates the flow of material.
- Adjustable positioning enables operators to achieve optimum production depending on material input and desired final product specification.



VACUUM FAN

- The paddle fan extracts light plastic and films from the feed material.
- The light items are transferred into the container via a flexible duct.



APPLICATIONS



Mulch / Compost



Biomass



1

HOPPER & FEED CONVEYOR

- A large hopper capacity of 3m³(81yds³) coupled with a variable belt speed.
- The Feed conveyor, ensures a even spread of material which is vital for efficient separation of material that increases finished product quality and value.



2

AIR KNIFE

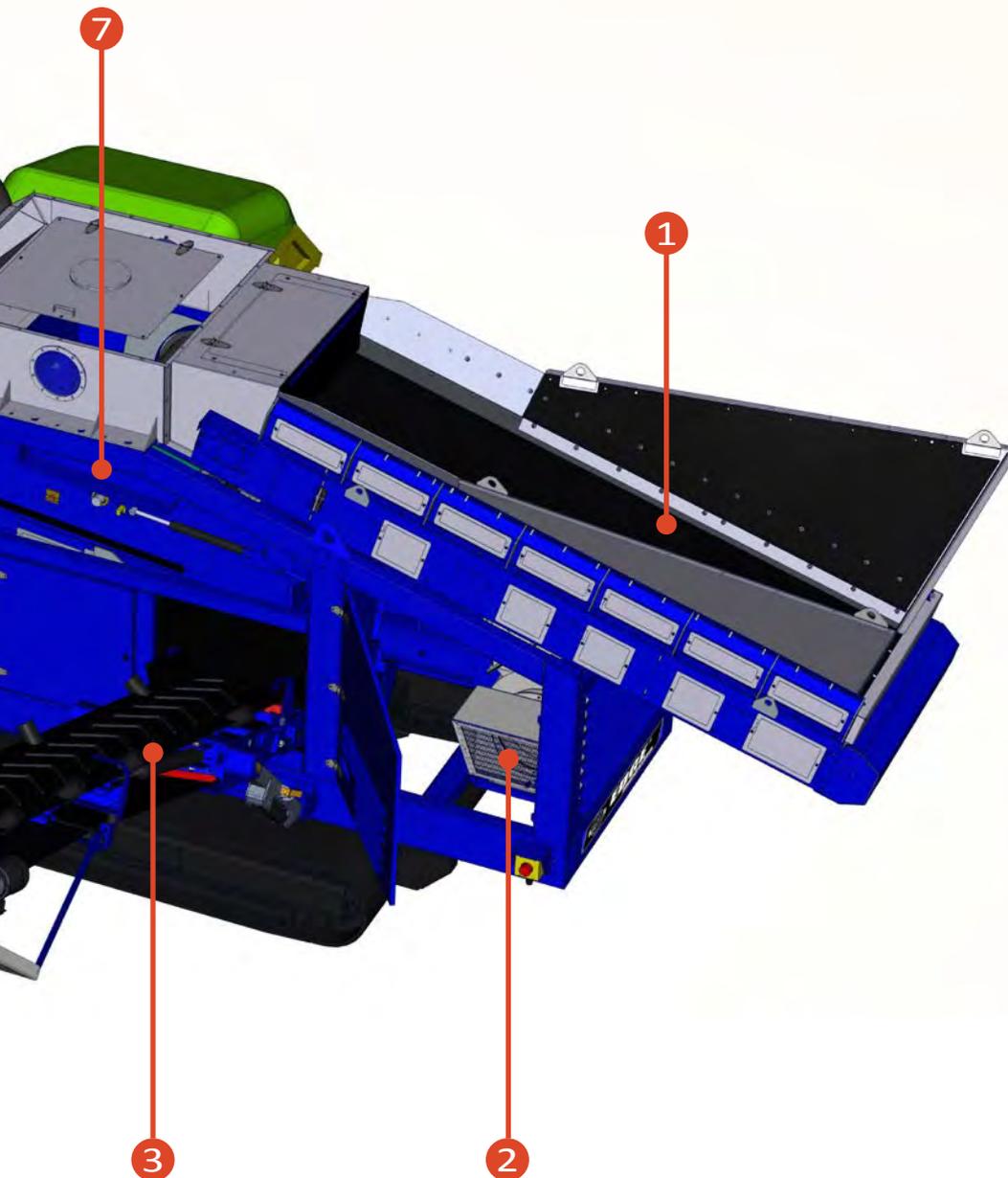
- The primary fan separates lights from heavy fractions.
- Variable fan speed allows operators to make fine adjustments dependent on the feed material and the desired final product.



3

SIDE CONVEYOR

- A hydraulic folding, heavy duty conveyor provides a discharge height of 3m (9'10").
- Impact bars as standard absorbs the impact of material , prolonging the life of the belt.
- Magnetic head drum for the extraction of ferrous metal is optional.
- Side conveyor can be quickly and easily transferred from one side of the unit to the other.



POWERUNIT

- The Diesel genset provides operators with a choice of powering the direct electric drives either from the diesel genset or with direct mains electric.
- Powered by a CAT4.4 industrial powerunit.
- Average fuel consumption of just 10.9ltr/hr (2.8USG/hr).



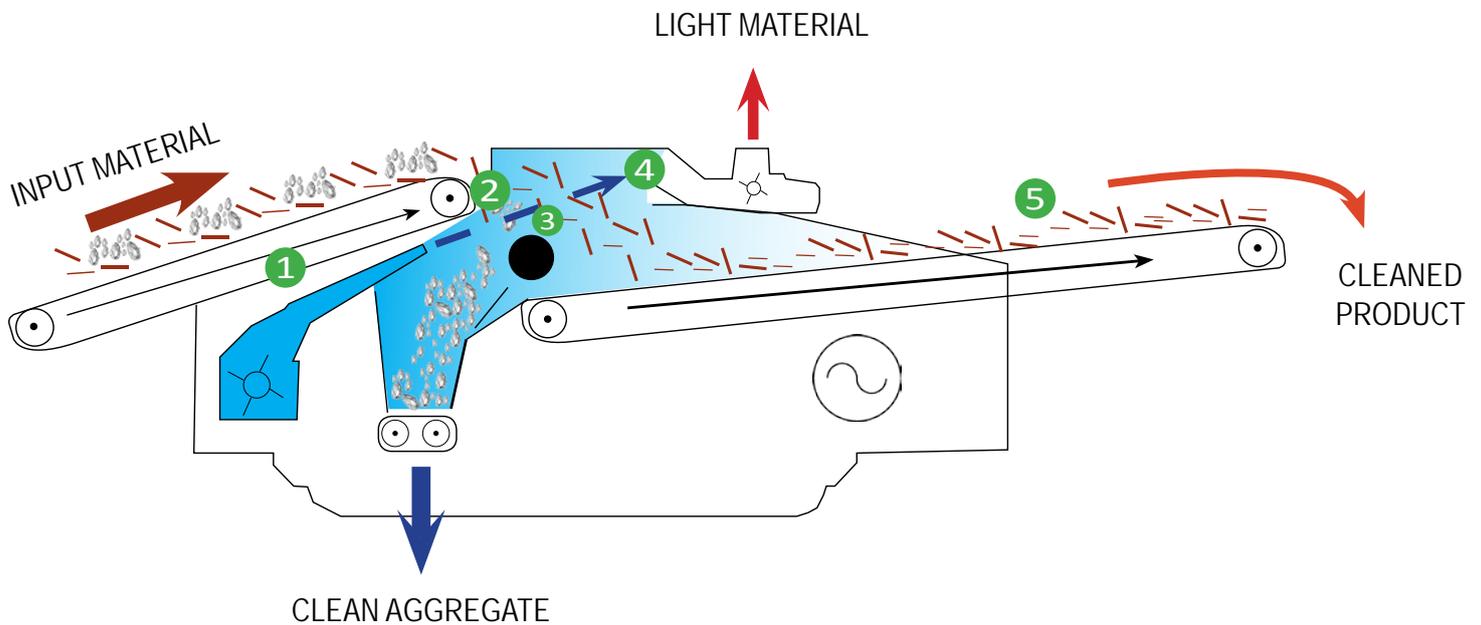
LIGHTS CONVEYOR

- The extremely wide conveyor provides a discharge height of 2.6m (8'6").
- Head fold facilitates a quick transfer from operational to transit mode.





STAGES OF SEPARATION



Feeder

- Variable speed, feeder conveyor with 3m³ (81yd³) hopper is available with hardox or rubber liners.
- Belt speed can be adjusted via the control panel

Air Knife

- The light plastics and wood material is blown over the drum separator, with the plastics being directed towards the cyclone chamber.
- Heavy material pass through the air stream and drop down to be stockpiled via the heavies discharge conveyor.

Drum Separator

- The adjustable drum separator divides the falling material into light and heavy fractions.
- Hydraulically adjustable to provide optimum production depending on material input and desired final product specification.

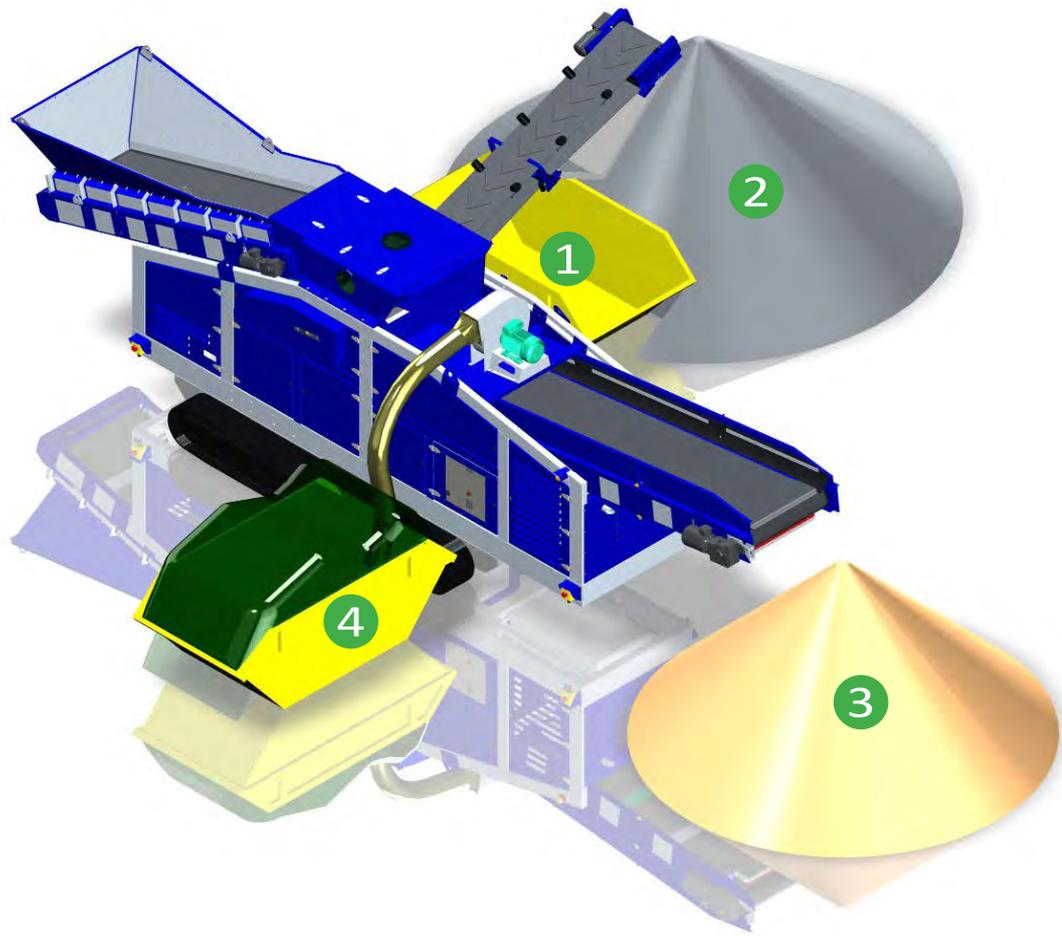
Vacuum Fan

- Extracts light plastics, paper and films from the waste stream and allows heavier fractions to carry on via the lights discharge conveyor.

Lights Discharge Conveyor

- The lights discharge conveyor, transfers mid-weight light fraction and provides a discharge height of 2.6m (8'6").

PRODUCTS



Input Material



1 Ferrous Metal



2 Clean Aggregate



4 Plastics, paper etc.



3 Clean Wood





ADDITIONAL OPTIONS

Track (Std.)



Fully tracked for on-site manoeuvrability

Static



Static chassis is ideal for customers who do not intend on moving the plant from site to site.

Semi-trailer



Mobile format is perfect for customers with multiple sites or for the rental market

Diesel Genset



Provides operators with two running options. Grid electric power or diesel generator.

Wireless Remote Control



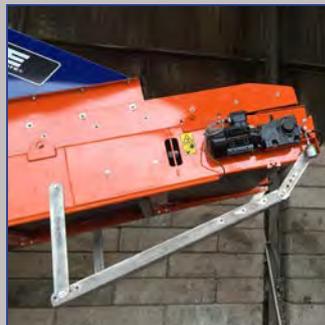
Remote Tracking, Increase / decrease engine revs and splitter drum adjustment.

Heavies Magnetic Head Drum



Magnetic Head Drum provides additional revenue by extracting ferrous metal from the waste stream

Lights Magnetic Head Drum



Magnetic Head Drum provides additional revenue by extracting ferrous metal from the lights material

Central Auto-Lube System



The auto-lube system provides reliable protection against friction and wear

Jost Landing Legs



Jost landing legs with steel rollers enable the unit to be semi-mobile

Lights Discharge Chute



Prevents lights from contaminating yard in windy conditions.

Air Brakes



Air brakes recommended for mobile version



TECHNICAL SPECIFICATIONS

Drive	Feed In Height	Feed Conv. Belt Width	Air Knife Fan	Paddle Fan	Lights Discharge Conv. Height	Heavies Discharge Height
87.5KV _a	3m (9'10")	1200mm (48")	7.5KW	18.5KW	3096mm (10'1")	2660mm (8'8")

TRANSPORT DIMENSIONS

CHASSIS TYPE	*Weight	Height	Length	Width
TRACK	16 Tonnes (17.6UST)	3.4m (11'2")	10.7m (35')	2.8m (9')

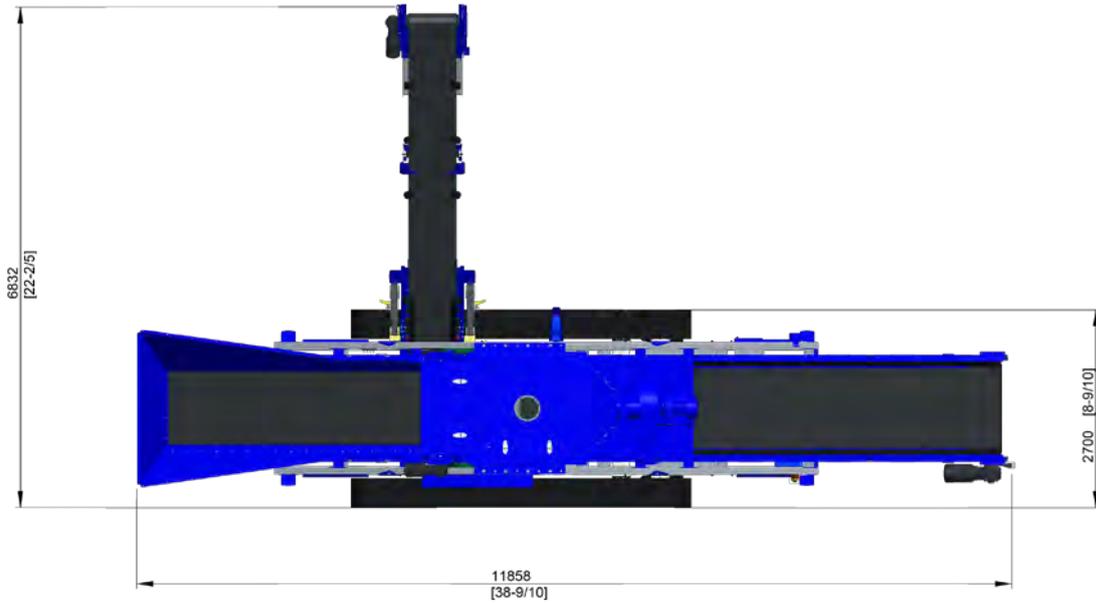
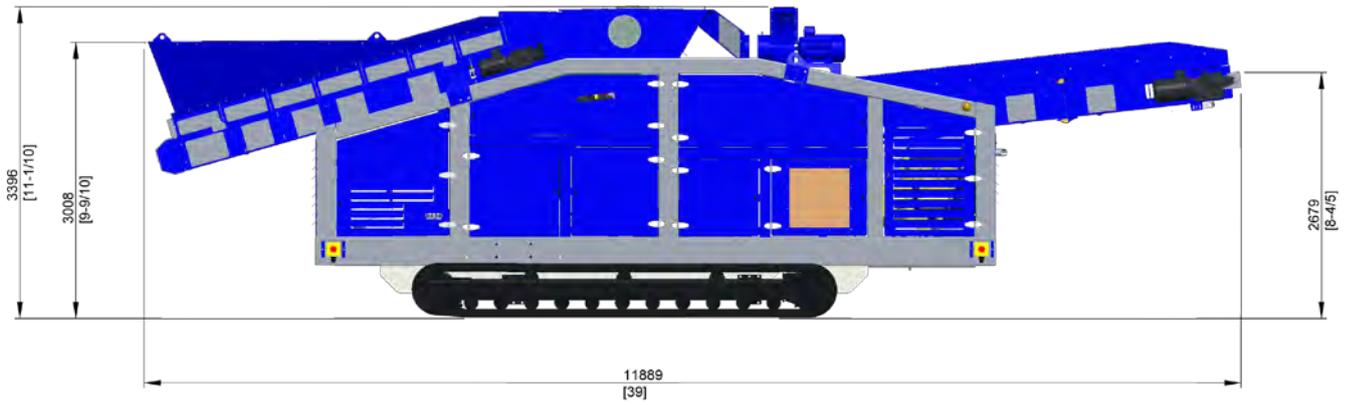
OPERATING DIMENSIONS

CHASSIS TYPE	Height	Length	Width
TRACK	3.4m (11')	11.9m (38'11")	6.9m (22'6")

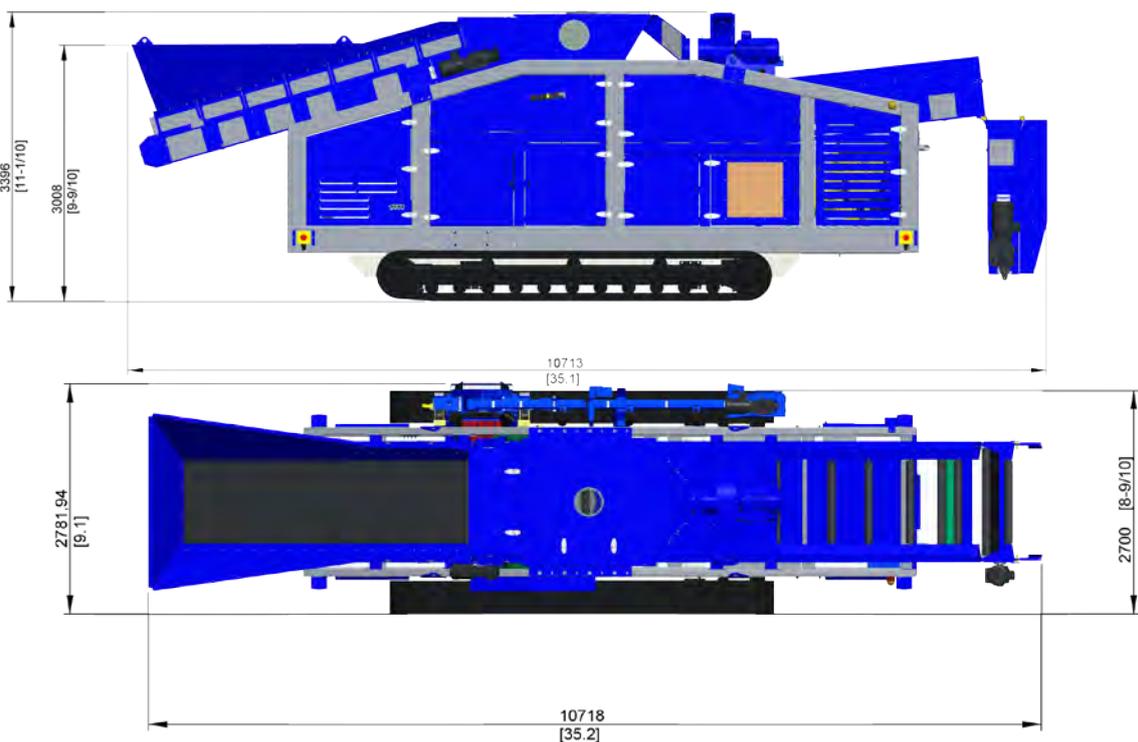
MATERIAL FEED IN SIZE

Stone	10-300mm
Wood	10-300mm
Paper and Plastics	10-150mm (or large plastic) bags
Ferrous Material	10-150mm

MC1400 OPERATIONAL DIMENSIONS



MC1400 TRANSPORT DIMENSIONS



*Designed to be shipped by road or by sea via a 40ft shipping container

WE ARE HERE WHEN IT MATTERS MOST



PRODUCT AND TECHNICAL SUPPORT

With our ethos of "Innovation at Work", EDGE not only persist in pushing the boundaries of design and manufacturing to produce hard working, quality machinery, we also bring that same ethos to our aftersales service in order to bring real benefits to customers right across the world. At EDGE we like to see the sales transaction as the start of a long-term partnership. Our goal is to offer the best customer support in the market for the lifetime of the unit. Edge has reinvested and expanded our aftersales department in order to streamline and provide the customer support we believe our customers deserve.



Top Availability

Our Aftersales Support Team are readily available for all our customer needs. We are just a call away, all day, every day.



Top Speed

Express service parts available. No customer expects a long wait for replacement parts.



Top Priority

The market rightly demands quick up-time. To make sure of this, we work tirelessly with our international couriers.



Top Satisfaction

We track every despatch, keeping you informed all the way to ensure you are totally satisfied.

Welcome to our Comfort Zone...



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AND WEAR
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