

CRUSHING & SCREENING EQUIPMENT BROCHURE



Hybrid





ABOUT MESDA

PROFESSIONAL SERVICES THAT DRIVE OPERATIONAL EFFICIENCY

- ❧ Founded in 2009 in Nanning, China
- ❧ Over 60% Market Share in China
- ❧ Four Bases – Total Area of 264,000 m²
- ❧ Front Runner in Hybrid & Electric Drive

WUHE FACTORY



HI-TECH FACTORY



LIGHTHOUSE FACTORY



YONGNING FACTORY





4 INT'L BRANCHES
GERMANY, FINLAND,
NORTHERN IRELAND(UK)
AND VIETNAM

60+ INTERNATIONAL MARKETS

150+ R&D PROFESSIONALS

12+ SERVICE CENTERS

J10H H=Hybrid

MOBILE JAW CRUSHER

The J10H is engineered with both the customer and operator in mind.

Its hybrid drive system is built to maximise fuel efficiency, delivering one of the lowest costs per tonne in the market. This makes it an ideal solution for small to medium-sized operators.

ADVANTAGES AND FEATURES

- > Hybrid drive.
- > Modular design, easy operation and maintenance.
- > Optimised crushing chamber for higher efficiency.
- > Hydraulically adjustable CSS.
- > Optional pre-screen and overband magnetic separator.



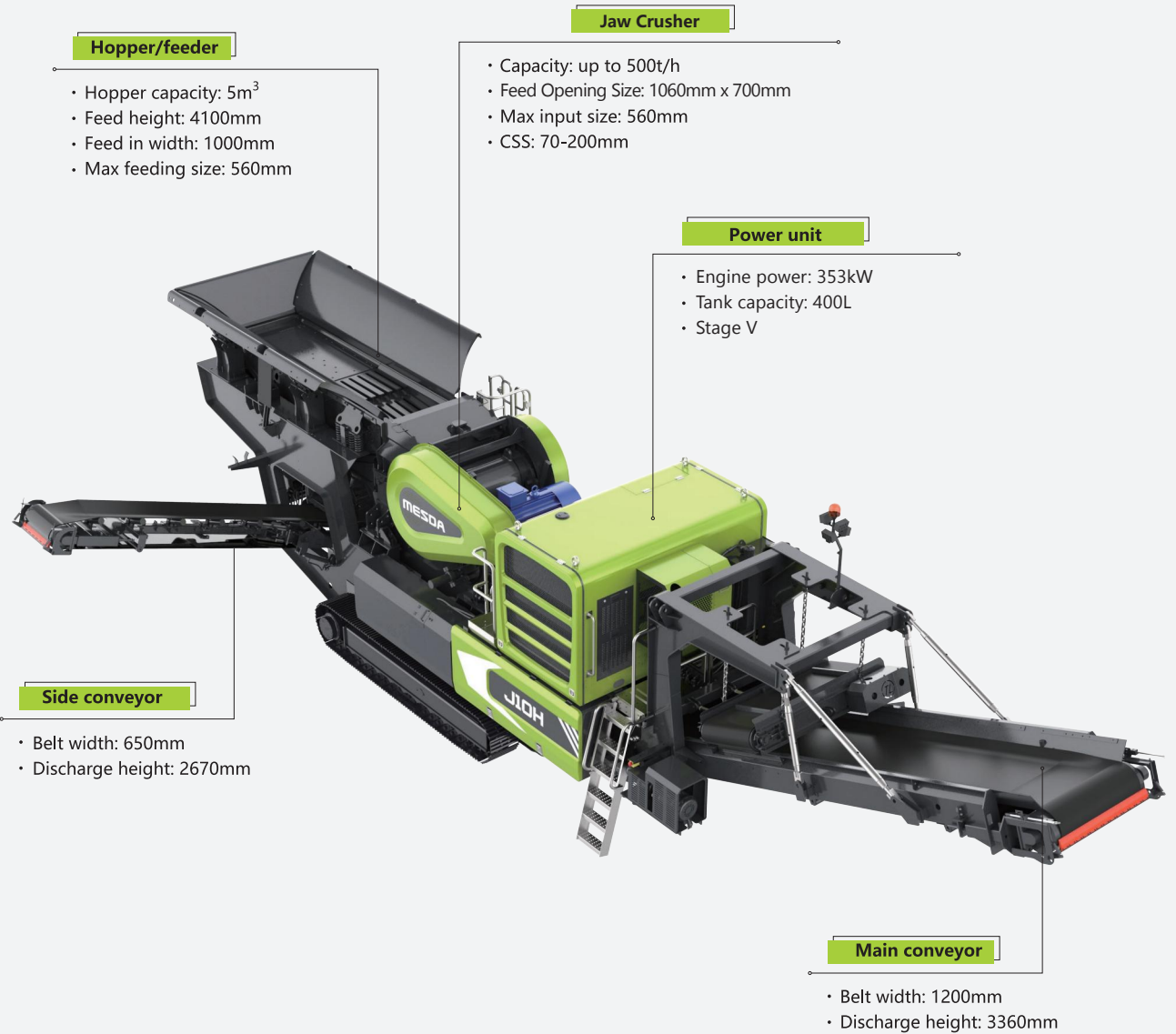
PRODUCT MODEL

J10H

Driven mode	Hybrid
Engine power	353kW
Capacity	up to 500t/h
Overall weight	48000kg
Transportation dimension (L x W x H)	16.66m x 3.0m x 3.8m
Working dimension (L x W x H)	16.14m x 6.6m x 4.15m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.



J11H H=Hybrid

MOBILE JAW CRUSHER

The J11H is primarily used for the initial crushing of materials, utilising its powerful jaw plates to compress and break down large feed sizes. As the output remains relatively coarse, further crushing is typically required.

The J11H meets EU Stage V emission standards and complies with CE certification, making it well-suited for global market demands.

ADVANTAGES AND FEATURES

- > Hybrid drive.
- > Korean-US JV track, Italian hydraulic motor.
- > Feeding and conveyor driven by electricity.
- > High material processing capacity, up to 520 t/h.
- > Capable of crushing large-sized materials up to 640 mm.
- > Feeding capacity of 520 t/h, meeting high-output production demands.

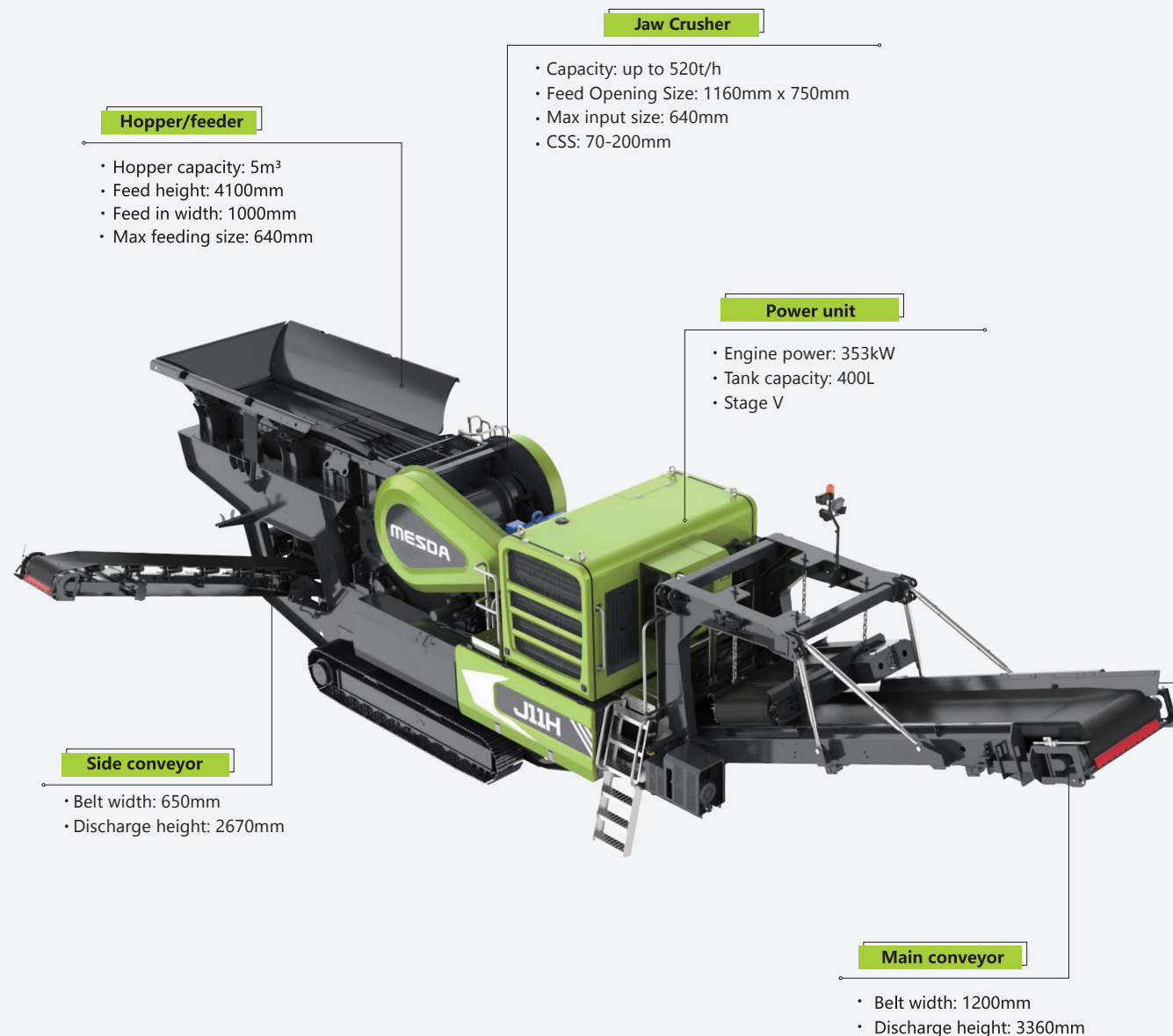


PRODUCT MODEL J11H

Driven mode	Hybrid
Engine power	353kW
Capacity	up to 520t/h
Overall weight	50000kg
Transportation dimension (L x W x H)	16.66m x 3.0m x 3.8m
Working dimension (L x W x H)	16.14m x 6.6m x 4.15m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.



J12H H=Hybrid

MOBILE JAW CRUSHER

The J12H is primarily used for the initial crushing of materials, utilising its strong jaw plates to compress and break down large feed sizes. As the output remains relatively coarse, further crushing is required. The J12H meets EU Stage V emission standards and complies with CE certification, making it suitable for global market requirements.

ADVANTAGES AND FEATURES

- > Hybrid power system allows switching between electric drive and diesel generation, ensuring energy efficiency.
- > Remote intelligent control system for real-time equipment monitoring.
- > Control box with positive pressure dust-sealed design.
- > Optional hydraulic hammer system.
- > Capable of crushing large materials up to 560 mm.
- > Feeding capacity of 700 t/h, meeting high-output production demands.



PRODUCT MODEL J12H

Driven mode Hybrid

Engine power 353kW

Capacity up to 560t/h

Overall weight 65000kg

Transportation dimension (L x W x H) 17.3m x 3.0m x 3.9m

Working dimension (L x W x H) 18.14m x 6.64m x 4.91m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: side conveyor folding device, overload magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.

Hopper/feeder

- Hopper capacity: 6m³
- Feed height: 4450mm
- Feed in width: 1290mm
- Max feeding size: 700mm

Jaw Crusher

- Capacity: up to 560t/h
- Feed Opening Size: 1200mm x 870mm
- Max input size: 700mm

Power unit

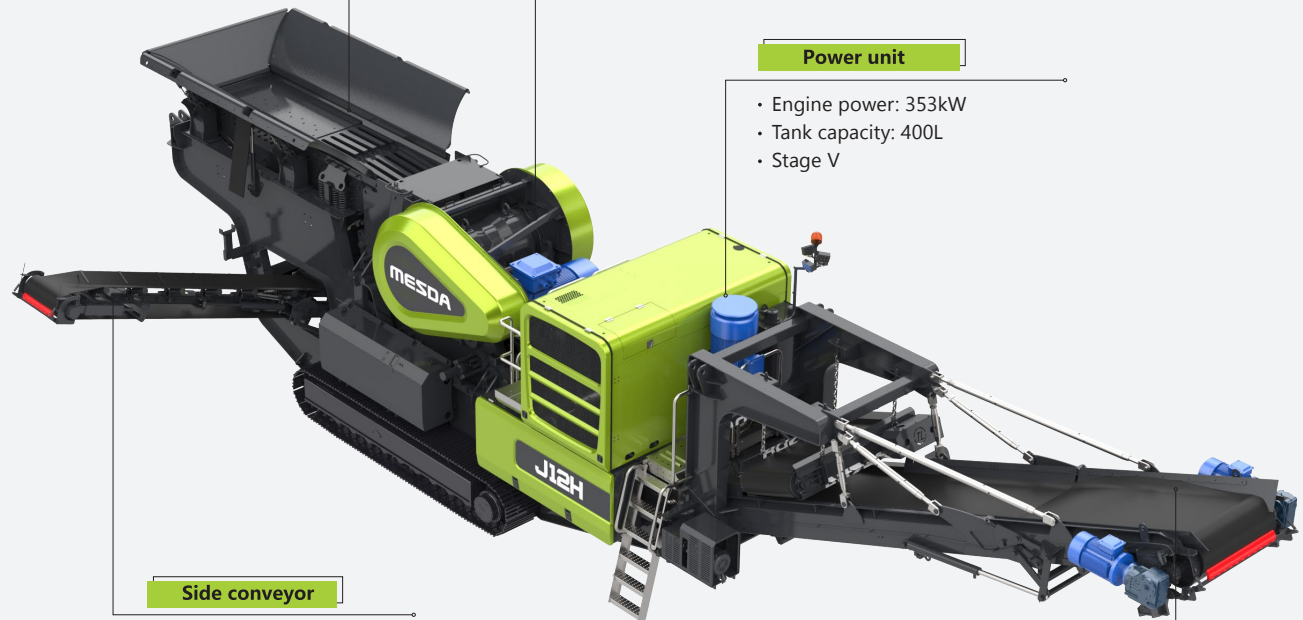
- Engine power: 353kW
- Tank capacity: 400L
- Stage V

Side conveyor

- Belt width: 650mm
- Discharge height: 2830mm

Main conveyor

- Belt width: 1200mm
- Discharge height: 4100mm



J85H H=Hybrid

MOBILE JAW CRUSHER

The J85H features a diesel-electric dual power drive, meeting EU Stage V emission standards for energy-efficient and environmentally friendly operation. Its specially designed V-shaped crushing cavity and cast alloy jaw plates can easily process hard rock and recycling materials. The machine's overall size has been optimised to meet road transport requirements in line with relevant standards.

ADVANTAGES AND FEATURES

- > Up to 20% fuel savings with MESDA hybrid drive system.
- > Intelligent control system with touch screen and one-button start.
- > Optional return system, return belt, and folding transportation.
- > Hopper and feeder made of high-strength, wear-resistant steel.
- > Complies with EU Stage V emission standards.



PRODUCT MODEL

J85H

Driven mode	Hybrid
Engine power	169kW
Capacity	up to 150t/h
Overall weight	32000kg
Transportation dimension (L x W x H)	13.5m x 2.9m x 3.4m
Working dimension (L x W x H)	13.5m x 3.0m x 4.0m

Remarks:

- Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
- Standard configuration: manual control, wireless remote control.
- Options: side conveyor folding device, overhead magnet, water spraying system.
- Three power options: diesel hydraulic, hybrid, electric.

Hopper/feeder

- Hopper capacity: 4m³
- Feeding height: 2960mm
- Length x width: 3400mm x 2200mm

Jaw Crusher

- Capacity: up to 150t/h
- Feed Opening Size: 800mm x 500mm
- Max input size: 400mm
- CSS: 40-175mm

Post screen

- Length x width: 2000mm x 1100mm
- Screening area: 2.2m²
- Deck: 1
- Power: 3.06kW x 2

Main conveyor

- Belt width: 800mm
- Discharge height: 2400mm

Power unit

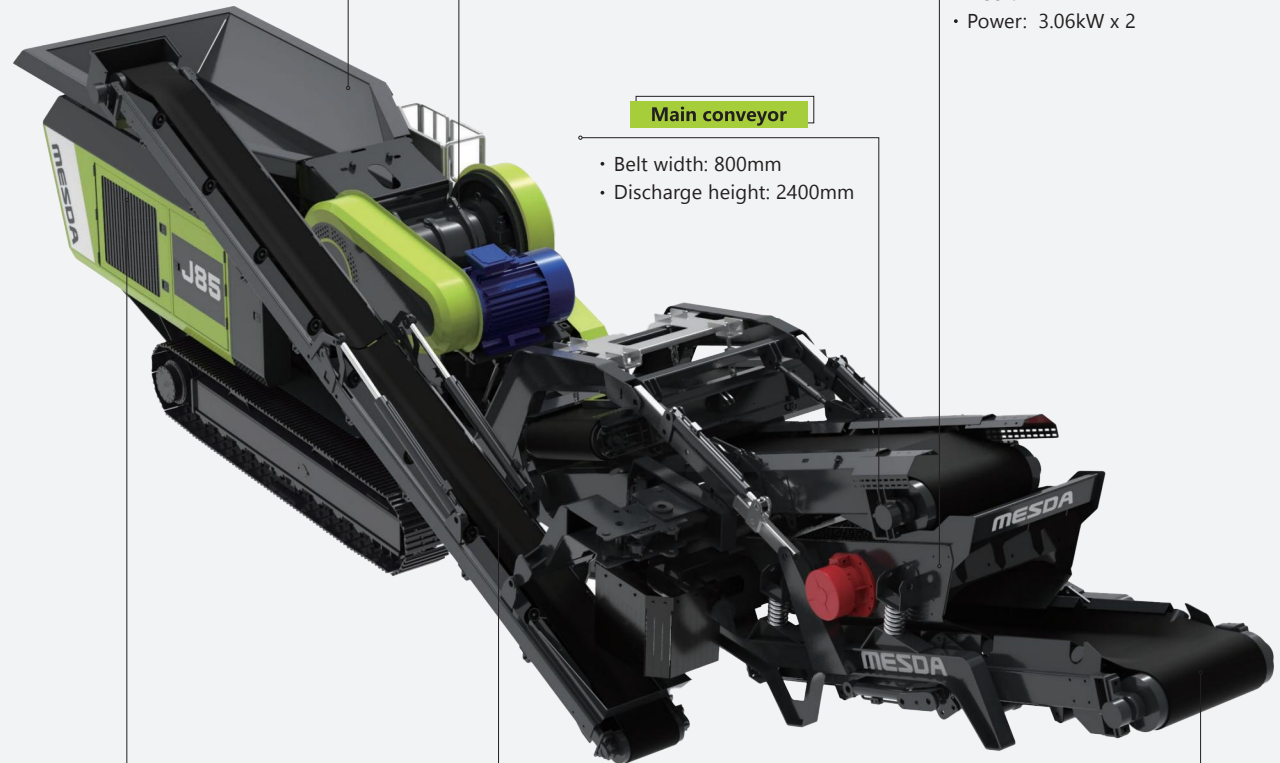
- Engine power: 169kW
- Tank capacity: 200L
- Fuel consumption: 18-23L/h
- Stage V

Return conveyor


- Belt width: 400mm
- Power: 3kW

Fine conveyor

- Belt width: 800mm
- Discharge height: 2100mm



C2H

 H=Hybrid

MOBILE CONE CRUSHER

The MESDA mobile cone crusher is ideal for quarrying, mining, and construction applications. Its versatility makes it well-suited for producing aggregates for road construction, railroad ballast, as well as asphalt and concrete applications.

ADVANTAGES AND FEATURES

- > Hybrid drive.
- > Excellent chamber design for consistent material grade and shape.
- > Multiple power options, low operating cost.
- > Optional post-screen and overband magnetic separator.
- > Compact design for easy transportation of the complete machine.



PRODUCT MODEL

C2H

Driven mode	Hybrid
Engine power	353kW
Capacity	up to 250t/h
Overall weight	39500kg
Transportation dimension (L x W x H)	15.5m x 3m x 3.4m
Working dimension (L x W x H)	16m x 3.0m x 4.8m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: material recirculating system, side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.

Hopper/feeder

- Hopper capacity: 2m³
- Feeding height: 2850mm

Cone Crusher

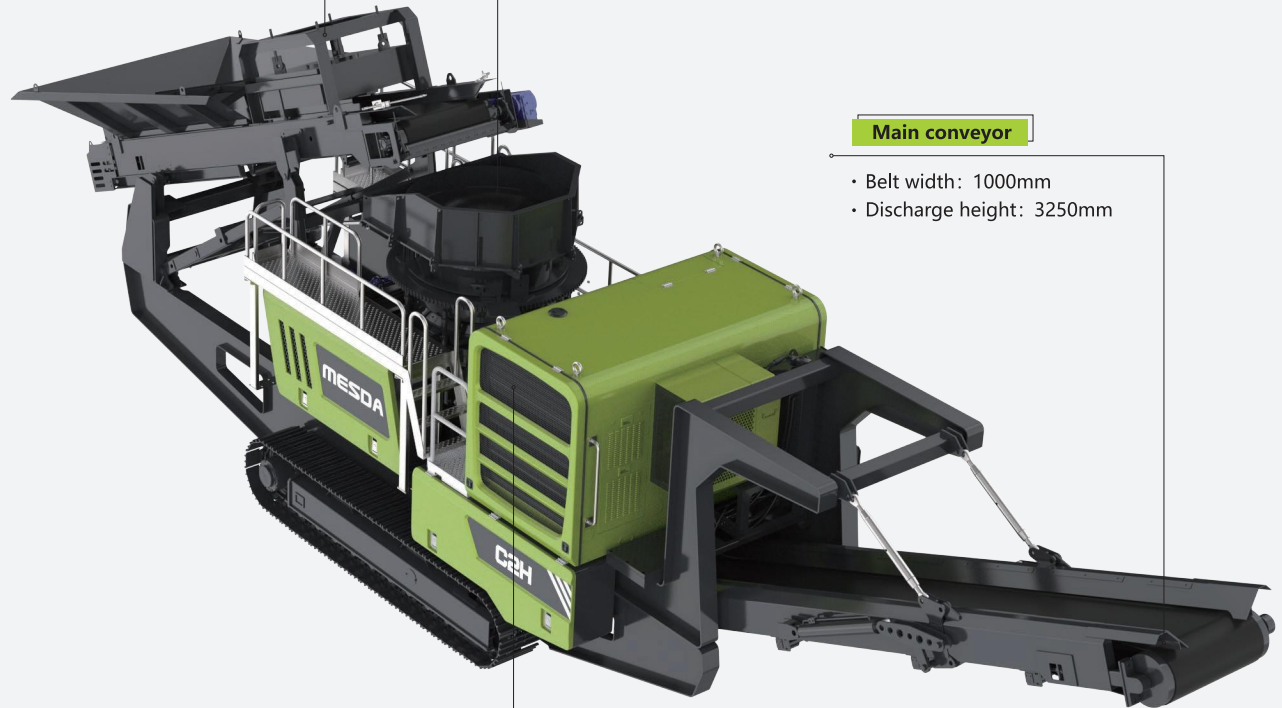
- Capacity: up to 250t/h
- Max input size: 185mm
- CSS: 10-38mm

Main conveyor


- Belt width: 1000mm
- Discharge height: 3250mm

Power unit

- Engine power: 353kW
- Tank capacity: 600L
- Fuel consumption: 33-43L/h
- Stage V



C3H

 H=Hybrid

MOBILE CONE CRUSHER

The C3H is primarily used for secondary crushing in material processing. It crushes materials through the eccentric rotation of the cone, squeezing and breaking them within the chamber. This process produces smaller-sized materials, which can then be screened to separate into different sizes of fine aggregates.

ADVANTAGES AND FEATURES

- > Real-time monitoring of equipment status.
- > High material processing capacity, up to 440 t/h.
- > Large feed size, up to 211 mm.
- > Wide adjustment range for the discharge opening, increasing throughput.
- > Flexible operation with or without the pre-screen module.



PRODUCT MODEL

C3H

Driven mode	Hybrid
Engine power	561kW
Capacity	up to 440t/h
Overall weight	66000kg
Transportation dimension (L x W x H)	20.9m x 3.98m x 3.88m
Working dimension (L x W x H)	19.9m x 8.25m x 5.2m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: material recirculating system, side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.

Hopper/feeder

- Hopper capacity: 2m³
- Feeding height: 2700mm

Cone Crusher

- Capacity: up to 440t/h
- Max input size: 211mm
- CSS: 10-45mm

Post screen

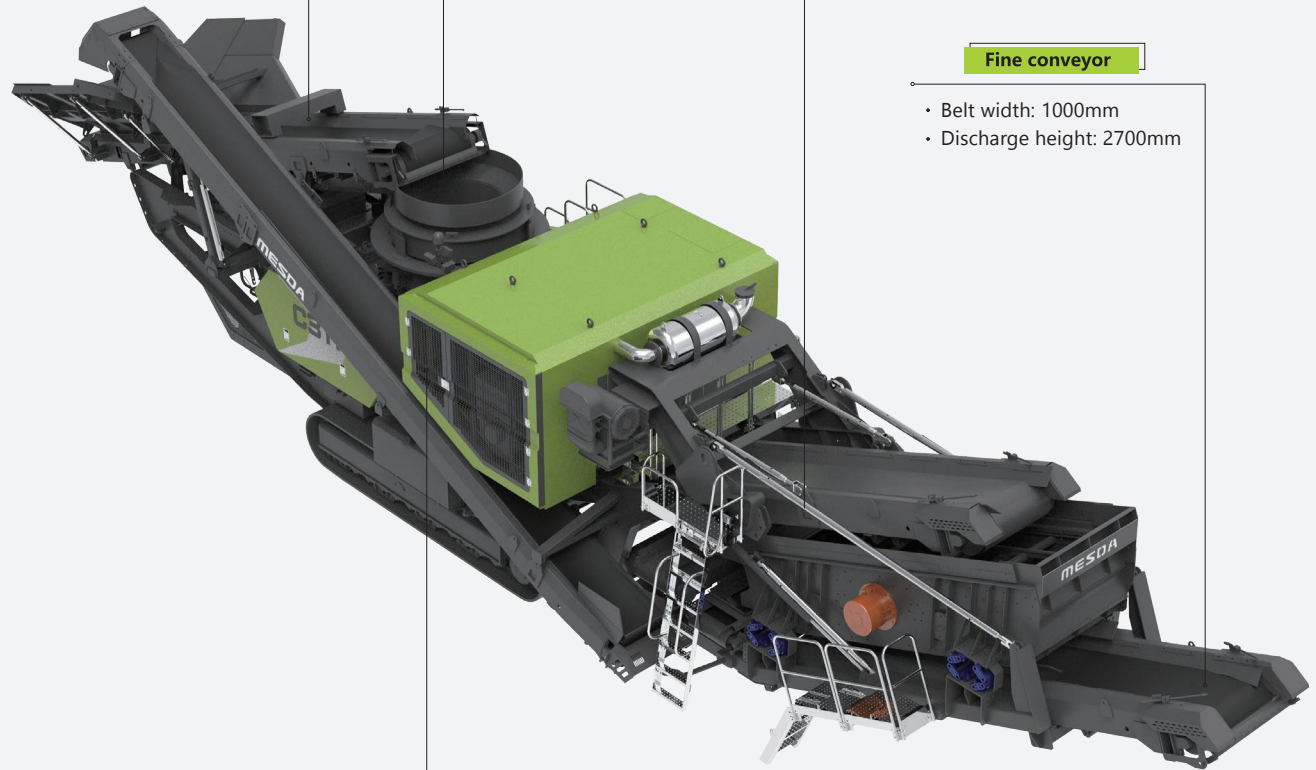
- Length×width: 4000mm × 1500mm
- Screening area: 5.88m²
- Deck: 2
- Power: 4.5kW x 2

Fine conveyor

- Belt width: 1000mm
- Discharge height: 2700mm

Power unit

- Engine power: 561kW
- Tank capacity: 700L
- Fuel consumption: 49-64L/h



F8H

H=Hybrid

MOBILE IMPACT CRUSHER

The F8H features a diesel-electric dual power drive, meeting EU Stage V emission standards for energy-efficient and environmentally friendly operation. Its robust one-piece cast alloy rotor can process large materials with a compressive strength up to 100 MPa. The machine's overall size has been optimised to comply with road transport requirements and relevant standards.

ADVANTAGES AND FEATURES

- > Up to 20% fuel savings with MESDA hybrid drive system.
- > High-strength (>500 MPa) alloy monoblock rotor.
- > High rotation speed (up to 680 rpm) for efficient crushing.
- > Maximum feed size 400 mm, suitable for large materials.
- > Hydraulic adjustment of the discharge gap.
- > Optional return conveyor conversion to side product conveyor.
- > Complies with EU Stage V emission standards.



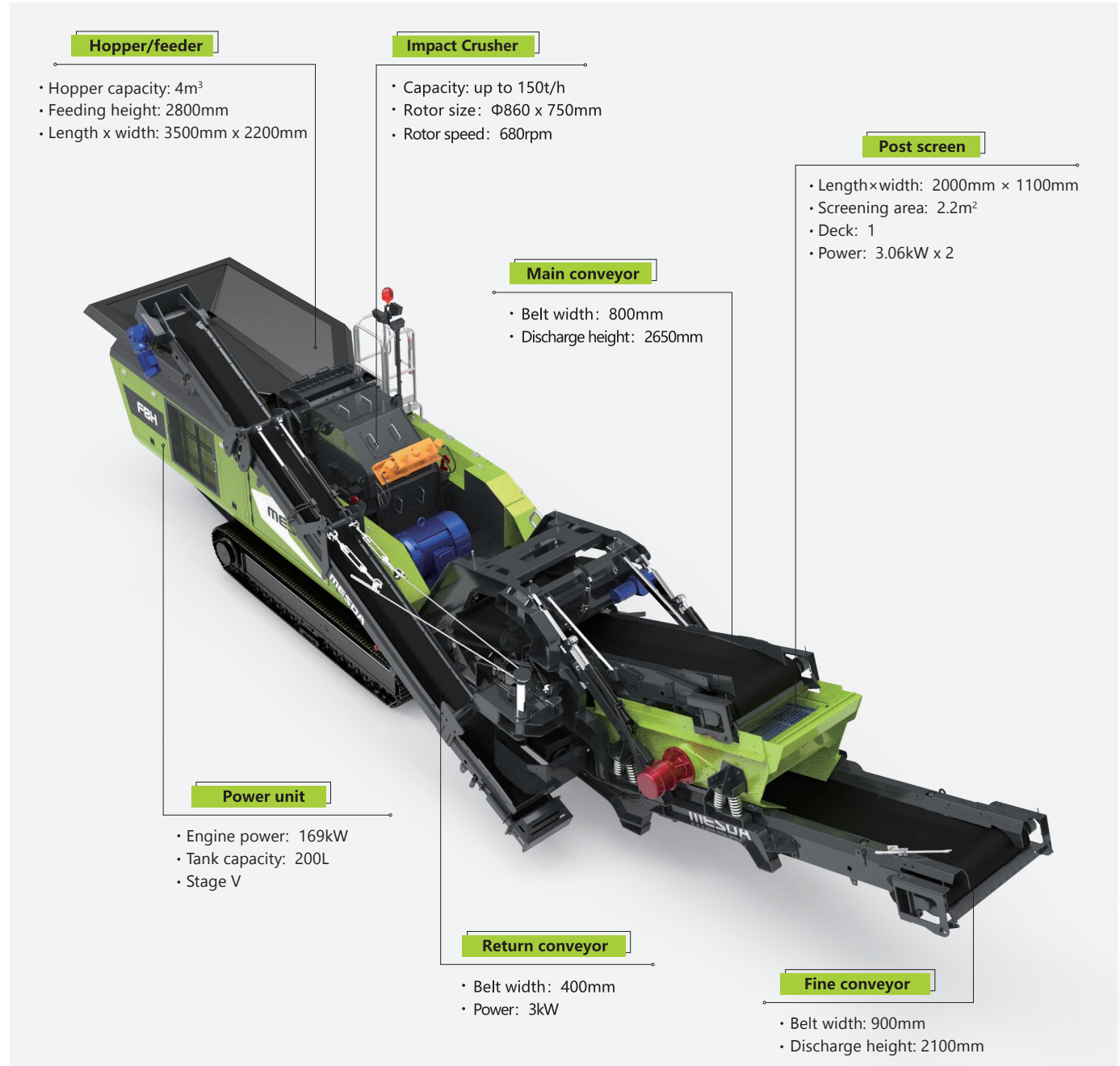
PRODUCT MODEL

F8H

Driven mode	Hybrid
Engine power	169kW
Capacity	up to 150t/h
Overall weight	33000kg
Transportation dimension (L x W x H)	13.5m x 2.9m x 3.5m
Working dimension (L x W x H)	13.5m x 3.1m x 4.1m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.



F10HP H=Hybrid

MOBILE IMPACT CRUSHER

The F10HP combines mobility, high capacity, and versatility, making it suitable for a range of applications, including quarrying, mining, and recycling material crushing.

ADVANTAGES AND FEATURES

- > Hybrid drive.
- > Single-chamber design with high capacity and easy maintenance.
- > High-strength, wear-resistant liner and blow bars.
- > Efficient, reliable, and durable heavy-duty rotor design.
- > Large feed inlet and chamber for high crushing capacity.
- > High-strength (>500 MPa) alloy monoblock rotor.
- > Simple, compact design with optional after-screen and return conveyor.



PRODUCT MODEL

F10HP

Driven mode	Hybrid
Engine power	353kW
Capacity	up to 150t/h
Overall weight	47000kg
Transportation dimension (L x W x H)	19.8m x 3.3m x 3.6m
Working dimension (L x W x H)	20.7m x 11.7m x 4.8m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: material recirculating system, side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.



F12HP H=Hybrid

MOBILE IMPACT CRUSHER

The F12HP is primarily used for mid-stage crushing, producing medium-sized materials. The output can be further screened to obtain materials of different sizes. The F12HP meets EU Stage V emission standards, making it suitable for global market requirements.

ADVANTAGES AND FEATURES

- > Expandable hopper for easy storage of additional materials.
- > Double-deck independent pre-screening to reduce material jamming.
- > Adjustable crusher speed to reduce energy consumption.
- > Large impact crusher rotor for efficient material processing.
- > Widely adjustable discharge opening for high throughput.
- > Remote intelligent control system for real-time equipment monitoring.
- > Recirculation conveyor can be rotated as a side conveyor.



PRODUCT MODEL

F12HP

Driven mode	Hybrid
Engine power	570kW
Capacity	up to 300t/h
Overall weight	70000kg
Transportation dimension (L x W x H)	21.1m x 3.2m x 3.8m
Working dimension (L x W x H)	20.8m x 11.7m x 4.9m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: side conveyor folding device, overband magnet, water spraying system.
4. Three power options: diesel/hydraulic, hybrid, electric.



S10H H=Hybrid

MOBILE SCREENER

The S10H inclined screen is designed to meet the high production demands of quarrying and mining operations. It features hybrid technology with on-board electric motors, allowing the plant to operate either from an external power supply or the standard on-board engine.

ADVANTAGES AND FEATURES

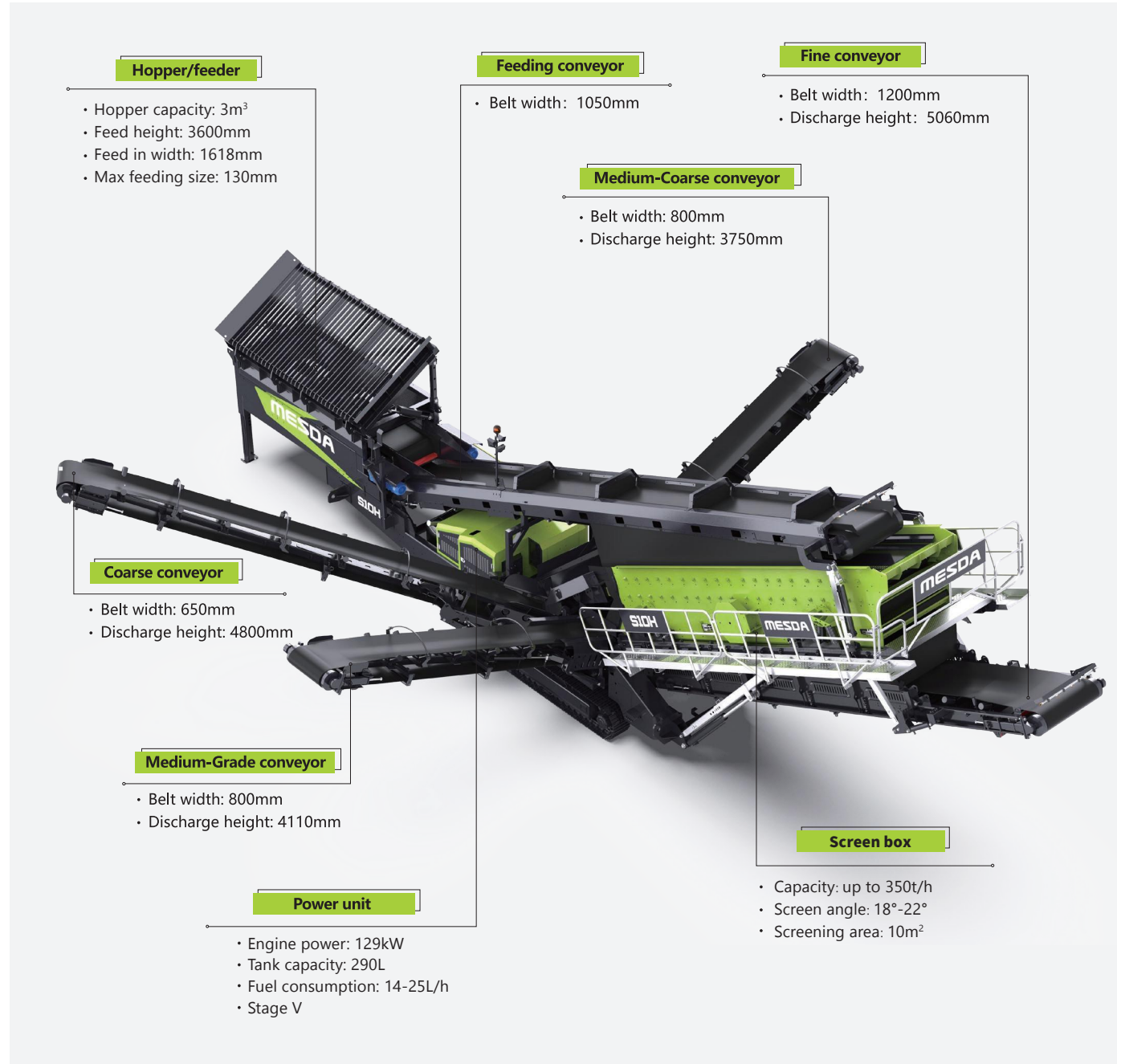
- > Hybrid drive.
- > Complete screening system designed through dynamic optimization.
- > Optimised for convenient transportation, with width \leq 3 m and height \leq 3.6 m.



PRODUCT MODEL	S10H
Driven mode	Hybrid
Engine power	129kW
Capacity	up to 350t/h
Overall weight	36000kg
Transportation dimension (L x W x H)	20m x 3.0m x 3.6m
Working dimension (L x W x H)	20.5m x 14.5m x 6.8m

Remarks:

1. Screen processing capacity is related to material humidity, feed size and discharge size.
2. Three power options: diesel hydraulic, hybrid, electric.



S12H H=Hybrid MOBILE SCREENER

The S12H is primarily used for late-stage material screening, using different mesh sizes to separate materials by size. Separated materials are conveyed to various locations for stacking.

ADVANTAGES AND FEATURES

- > Hybrid drive for seamless switching between grid power and diesel generator drive.
- > Quick-folding side belts for easy relocation, supporting frequent site moves.
- > Complies with EU Stage V emission standards, promoting energy efficiency and reduced emissions.
- > Three-deck screening for producing multiple material sizes.
- > High material handling capacity, up to 400 t/h.
- > High-power vibrating motor for improved screening efficiency.



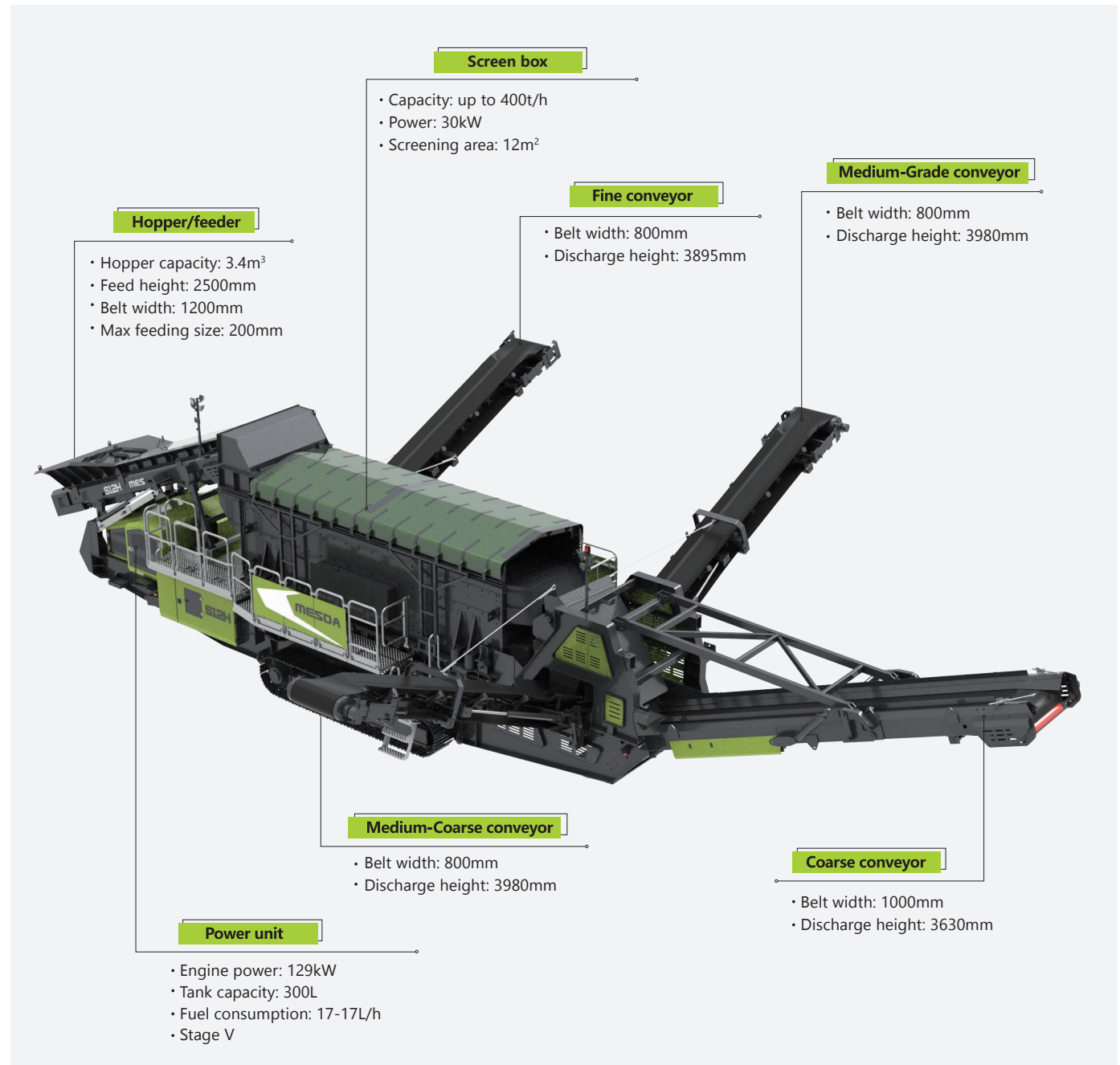
PRODUCT MODEL

S12H

Driven mode	Hybrid
Engine power	129kW
Capacity	up to 400t/h
Overall weight	43000kg
Transportation dimension (L x W x H)	20m x 2.99m x 3.48m
Working dimension (L x W x H)	20.95m x 14.5m x 4.5m

Remarks:

1. Screen processing capacity is related to material humidity, feed size and discharge size.
2. Three power options: diesel, hydraulic, hybrid, electric.



S4D

 D=Diesel

MOBILE SCALPER

The S4D separates and grades materials using different mesh sizes to produce the final products. It is typically integrated with crushing equipment or a crushing line to screen and classify crushed materials.

ADVANTAGES AND FEATURES

- > High production capacity, up to 350 t/h.
- > Heavy-duty design for enhanced durability and robustness.
- > Large-amplitude screen box with various screen surfaces for thorough screening.
- > Compact dimensions with quick-folding side belts for rapid relocation and fast production.



PRODUCT MODEL	S4D
Driven mode	Hydraulic
Engine power	55kW
Capacity	up to 350t/h
Overall weight	17700kg
Transportation dimension (L x W x H)	11.91m x 2.36m x 2.65m
Working dimension (L x W x H)	11.62m x 11.4m x 3.9m

Remarks:

1. Screen processing capacity is related to material humidity, feed size and discharge size.
2. Three power options: diesel, hydraulic, hybrid, electric.



S5D D=Diesel

MOBILE SCALPER

Designed for medium-sized operators, the high-performance, heavy-duty, versatile S5D remains easy to transport. It delivers improved performance and lower operating costs with a hydraulic drive. Its highly aggressive screen can accommodate bofor bars, finger screens, woven mesh, and punch plates.

ADVANTAGES AND FEATURES

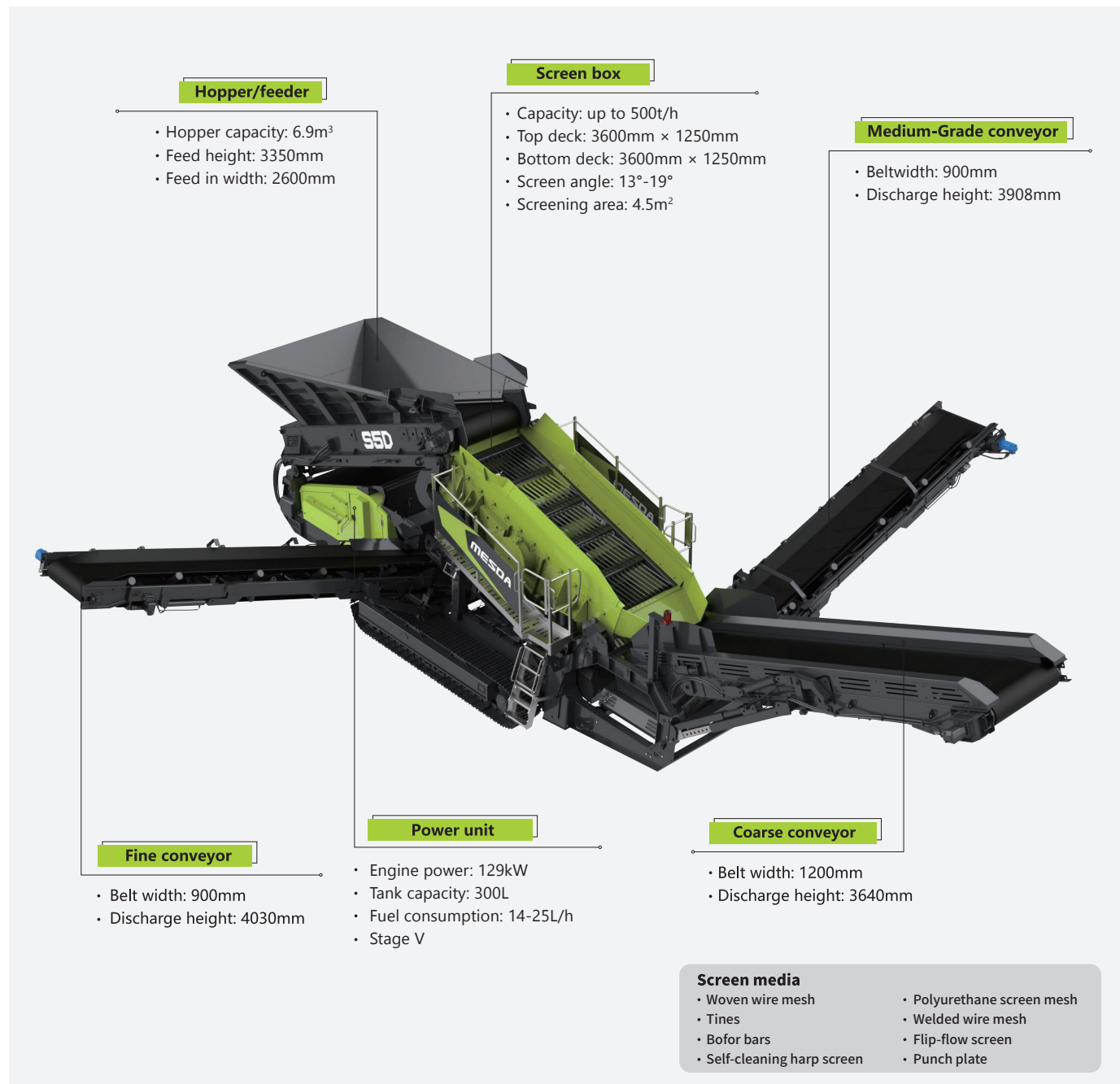
- > Hydraulic drive.
- > High production output, up to 500 t/h.
- > Hydraulic folding conveyors with excellent stockpiling capacity.
- > Two-speed tracks.



PRODUCT MODEL	S5D
Driven mode	Hydraulic
Engine power	129kW
Capacity	up to 500t/h
Overall weight	30000kg
Transportation dimension (L x W x H)	14.19m x 2.9m x 3.2m
Working dimension (L x W x H)	14.3m x 13.12m x 4.4m

Remarks:

1. Screen processing capacity is related to material humidity, feed size and discharge size.
2. Standard configuration: manual control, wireless remote control, dust removal spray system.
3. Three power options: diesel hydraulic, hybrid, electric.



SSH

H=Hybrid

MOBILE SCREENER

The MESDA SSH is a flexible screening machine, aimed at small to medium sized operators who require a high performing heavy duty versatile machine that remains easy to transport. It offers improved performance, lower operating costs with hybrid drive. Its highly aggressive screen can accept bofor bars, finger screens, woven mesh and punch plates.

ADVANTAGES AND FEATURES

- > Hybrid drive.
- > High production output 500t/h.
- > Electric drive conveyors.
- > Heavy duty, adjustable angle grease, lubricated 2 bearing, 2 deck screenbox.
- > Hydraulic folding conveyors with excellent stockpiling capacity.
- > Two speed tracks.



PRODUCT MODEL

SSH

Driven mode	Hybrid
Engine power	129kW
Capacity	up to 500t/h
Overall weight	33000kg
Transportation dimension (L x W x H)	14.2m x 2.96m x 3.2m
Working dimension (L x W x H)	14.4m x 12.7 x 4.6m

Remarks:

1. Screen processing capacity is related to material humidity, feed size and discharge size.
2. Three power options: diesel hydraulic, hybrid, electric.

Hopper/feeder

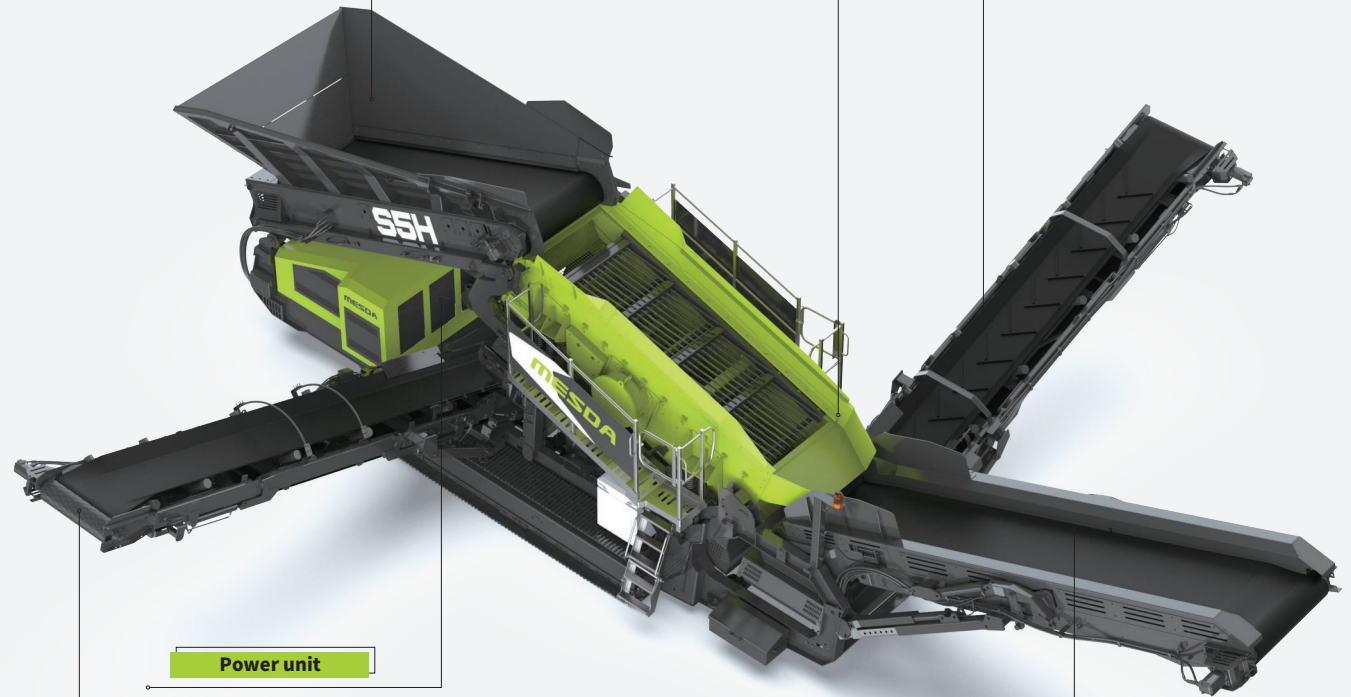
- Hopper capacity: 6.9m³
- Feed height: 3350mm
- Feed in width: 2600mm

Screen box

- Capacity: up to 500t/h
- Top deck: 3600mm x 1250mm
- Bottom deck: 3600mm x 1250mm
- Screen angle: 13°-19°
- Screening area: 4.5m²

Midgrade conveyor

- Belt width: 900mm
- Discharge height: 3908mm



Power unit

- Engine power: 129kW
- Tank capacity: 300L
- Fuel consumption: 14-17L/h
- Stage V

Fine conveyor

- Belt width: 900mm
- Discharge height: 4030mm

Override conveyor

- Belt width: 1200mm
- Discharge height: 3640mm

Screen media

- Woven wire mesh
- Tines
- Bofor bars
- Self-cleaning harp screen
- Polyurethane screen mesh
- Welded wire mesh
- Flip-flow screen
- Punch plate

S8H H=Hybrid

MOBILE SCALPER

The S8H can process materials at up to 500 t/h and can be fed by a tracked mobile crusher, shovel, or excavator. Its hybrid drive allows the plant to operate from either an external power supply or the standard on-board engine.

ADVANTAGES AND FEATURES

- > Hybrid drive.
- > High-capacity feeder with wear-resistant hopper liner.
- > Standard belt feeder or optional apron feeder.
- > Finger grid for heavy-duty screening of complex materials.
- > Large screening area for more efficient screening.
- > Heavy-duty design, suitable for primary screening.
- > Adjustable screen angle.



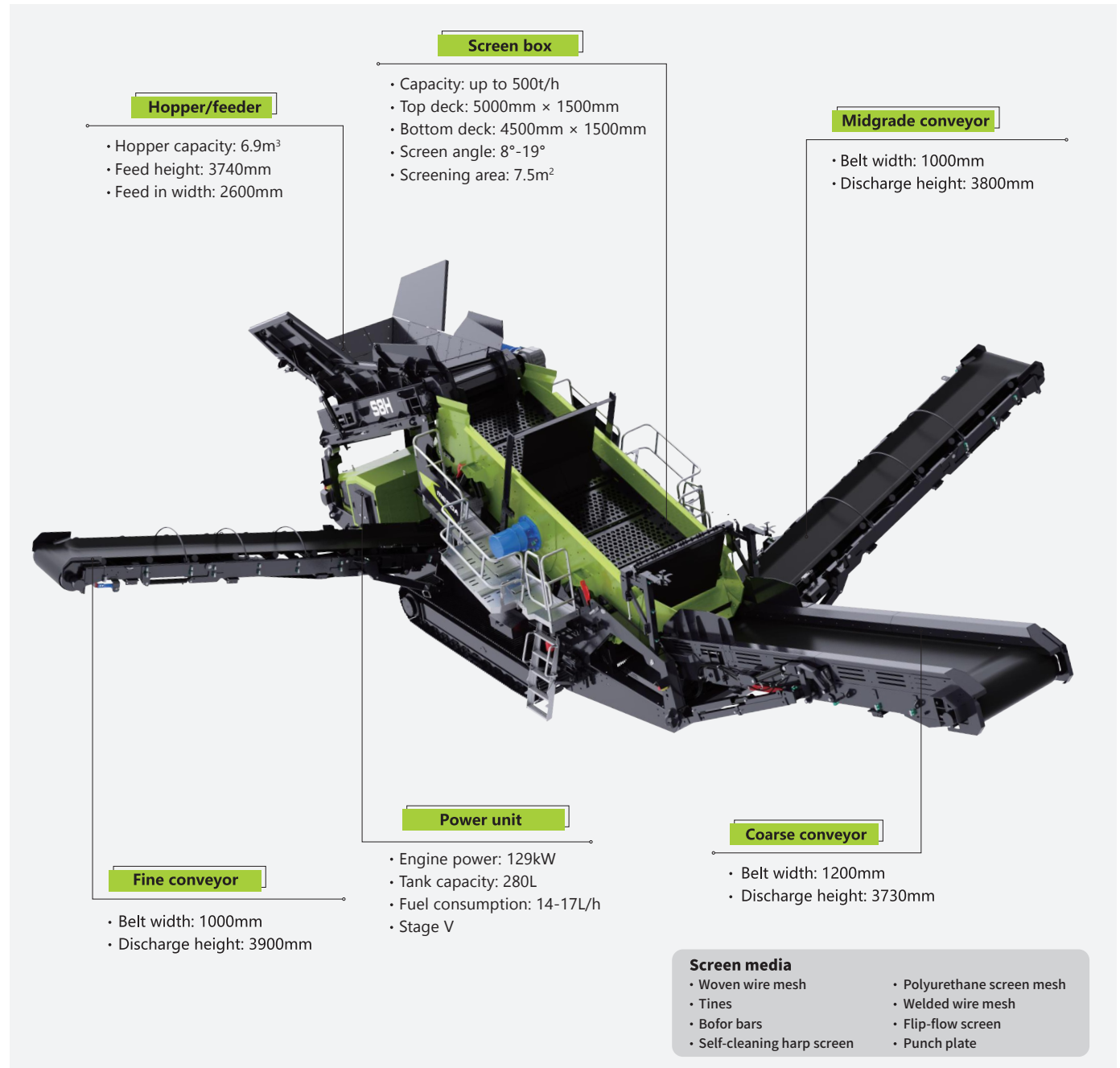
PRODUCT MODEL

S8H

Driven mode	Hybrid
Engine power	129kW
Capacity	up to 500t/h
Overall weight	36300kg
Transportation dimension (L x W x H)	15.61m x 3m x 3.45m
Working dimension (L x W x H)	15.63m x 13.95m x 5.01m

Remarks:

1. Screen processing capacity is related to material humidity, feed size and discharge size.
2. Standard configuration: manual control, wireless remote control, dust removal spray system.
3. Three power options: diesel hydraulic, hybrid, electric.



B20F

LOW FEEDING CONVEYOR

The working angle can be adjusted to optimise stacking height according to site dimensions, maximising site utilisation and improving production efficiency. The B20F meets EU Stage V emission standards and complies with CE certification, making it suitable for global market requirements.

ADVANTAGES AND FEATURES

- > Maximum stacking height: 7,800 mm, suitable for high stacking.
- > Multi-angle adjustment of stacking height to suit various site layouts.
- > Fast-folding main belt for easy relocation and multi-site production.
- > Remote intelligent control system for real-time equipment monitoring.



PRODUCT MODEL B20F

Driven mode	Hydraulic
Engine power	55kW
Capacity	up to 500t/h
Overall weight	23500kg
Transportation dimension (L x W x H)	15.68m x 2.85m x 3.22m
Working dimension (L x W x H)	22.5m x 3.15m x 8.79m

Remarks:

1. Crusher processing capacity is related to stone hardness, feeding size, and discharge size.
2. Standard configuration: manual control, wireless remote control.
3. Options: side conveyor, folding device, overhead magnet, water spraying system.
4. Three power options: diesel hydraulic, hybrid, electric.



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Hybrid option with High efficiency; Better economic result

SITE



MOBILE CONVEYOR APPLICATION





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Website: www.mesda.com, www.mesda-crusher.com

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mesda crusher



Mesdagroup



MESDA Group



MESDA Group



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