Preliminary

MHL 840 BATTERY+

140 kWh
(Li-Ion Battery)
scalable

110 kW

31.1 t

12.6 m

FUCHS®
A TEREX BRAND


FUCHS
A TEREX BRAND
BATTERY+

SCALABLE.
EFFICIENT.
SUSTAINABLE.

MHL 840 BATTERY+

110 kW	31.1 t	12.6 m	140 kWh (Li-Ion Battery) scalable

THE BATTERY MATERIAL HANDLER FOR YOU

01

RUNTIME: AS YOU LIKE

You only need two hours of battery operation, or rather more?

No problem. Thanks to our scalable battery power pack the battery capacity can be adapted flexibly within a certain range. A pleasant side effect for your wallet: you only pay for the battery capacity you actually need.

02

FLEXIBILITY: 100%

For semi-stationary use, such as feeding a scrap shear, the MHL840 BATTERY+ draws its energy from the mains supply. At the same time, the batteries are automatically charged within a few hours.
Your MHL840 BATTERY+ can now work autonomously for approx. three hours with the standard battery pack. Enough time for loading and unloading trucks or wagons, as well as space-saving storage of materials on the yard.

03

SUSTAINABILITY: AS STANDARD

The batteries have a service life of approx. 3,000 full charge cycles. Depending on the charging cycles this can mean a service life of up to 10 years.

But even after 3,000 full charge cycles, the Batteries still offer sufficient capacity for daily work. If required, the batteries can be used after their first life in the MHL840 BATTERY+ as energy storage units in the industry.


FUCHS
A TEREX BRAND
840
BATTERY+

MODULAR
DRIVE SYSTEM

TECHNICAL SPECIFICATIONS

Operating weight without attachments

MHL840 BATTERY+	28.9–31.1 t

Electric motor

Power	110 kW
Motor start	Via soft start

Battery Pack: Lithium-Ion

Capacity	140 kWh, scalable
Runtime	Up to 3 hours
Charging Time	≥ 1 hour
Simultaneous Charging and Working Possible	

Electrical system

Operating voltage	400 V AC /800 V DC
Control Voltage	24 V
Total connection power	143 kW + requested additional charging power
Lighting set	2 × LED headlamps, turn indicators and tail lights max. 40 %
Optional equipment	Magnet system with controls and insulation monitoring

Travel drive

Hydrostatic travel drive via infinitely variable axial piston motor with directly mounted travel brake valve, two-speed manual gearshift, 4-wheel drive

Travel speed 1st gear	5 kph
Travel speed 2nd gear	18 kph
Gradeability	max. 40%
Turning radius	8.3 m

Slewing drive

Slewing ring	Internally geared, double-row ball turning ring
Drive	2-stage planetary gear with integrated multi-disc brake
Uppercarriage swing speed	0–7.5 rpm variable
Slewing lock	Electrically operated

Undercarriage

Front axle	Rigid axle with integral drum brake, planetary drive, max. steering angle: 27°
Rear axle	Oscillating axle with integral drum brake and selectable oscillation lock, planetary drive
Outrigger	4-point stabilizer system
Tires	10.00–20 solid rubber with intermediate rings

Brake system

Service brake	Hydraulic single-circuit braking system acting on all four wheel pairs
Parking brake	Electrically operated disc brake on travel gearbox, acting on both front and rear axles

Hydraulic system

Pump delivery rate	max. 2 × 330 lpm
Operating pressure	max. 320 / 360 bar
Hydraulic oil tank	372 l

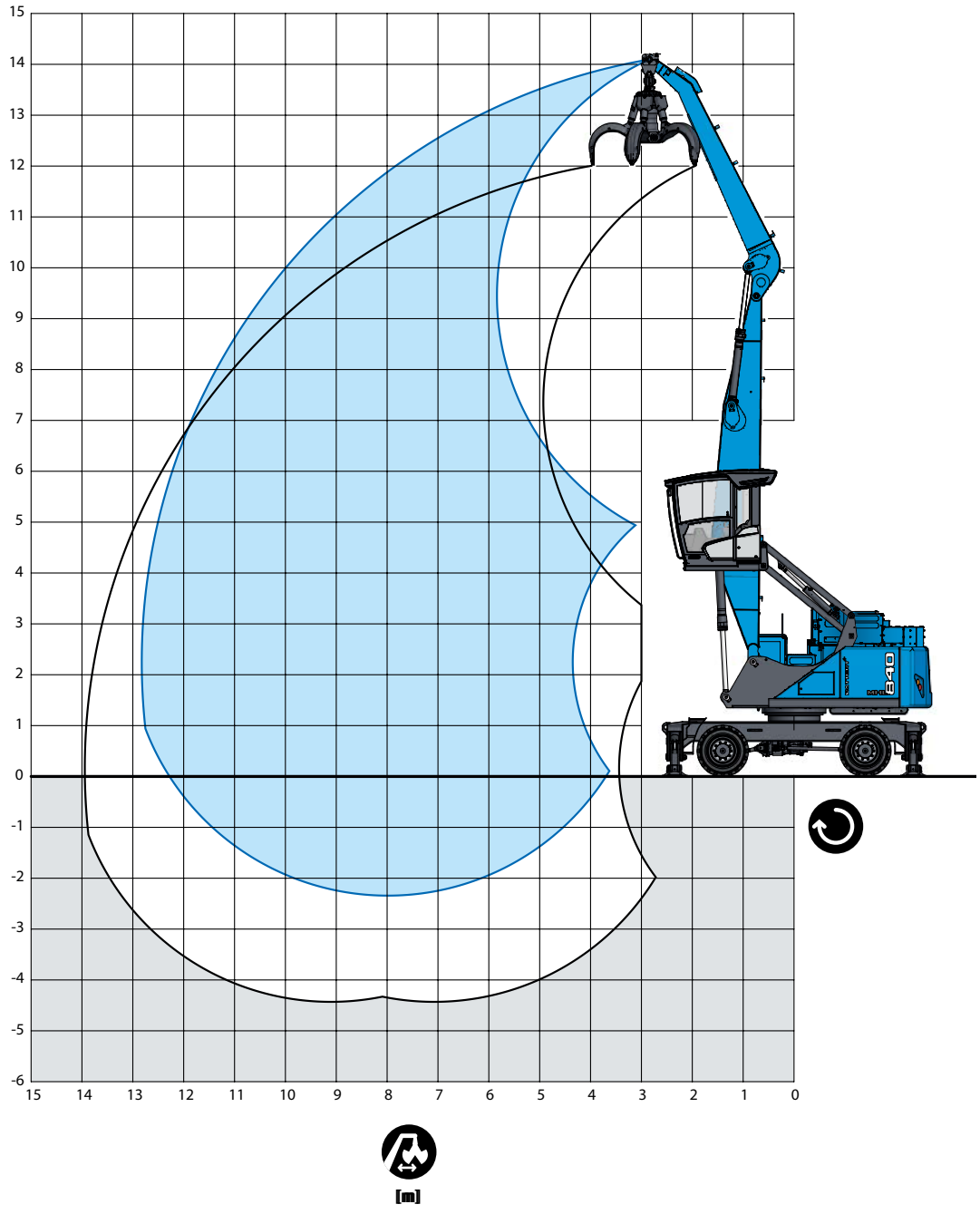
Operator cab

Cab	Infinitely variable hydraulic height-adjustable cabin with sliding door. Reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front window with roller blind, glass panel in the cabin roof with sliding blind. Heating and air conditioning, separate heat exchangers, fresh and recirculated air filters. Multifunction touch display, bottle holder, paper clip and multiple storage and mounting options. Digital radio (DAB+, USB, Bluetooth and hands-free), USB charging station 5V. Vertically adjustable cabin: viewing height of 5.6 m
Climate control	Automatic air-conditioning. Infinitely variable heating with 8-speed fan, 10 adjustable air nozzles, including 4 in the roof lining, 3 defroster nozzles
Operator's seat	Air-sprung comfort seat with integrated headrest, safety belt, and lower lumbar support, optional seat heating. Allows comfortable working by offering universal adjustment possibilities of the seat position, the seat incline, and the position of the seat cushion in relation to the armrests and joysticks
Monitoring	Ergonomically arranged, glare-free Multifunction display. Automatic monitoring and storage of deviating operating states (e.g. all hydraulic oil filters, hydraulic oil temperature, steering), visual and audible warning. Diagnostic option for the individual sensors via the multifunction display. Rear view and side view camera on the right with separate monitor
Vibrations	Weighted r.m.s. value of acceleration of upper limbs under 2.5 m/s² (98 in/s²) Weighted effective value of acceleration for the seat and feet under 0.5 m/s² (20 in/s²)
Certified in accordance with CE regulations	

REACH

up to 12.6 m with with dipper stick

Boom: 7.2 m · Dipper stick: 5.1 m · Cactus grab: 0.6 m³ open



LIFTING CAPACITY

Loading equipment: Boom 7.2 m. Dipper stick 5.1 m

height m	Undercarriage Outrigger	Reach in m					
		4.5 m	6 m	7.5 m	9 m	10.5 m	12 m
13.5	4-point	(6.3°) 6.3° (6.3°)					
12	4-point		(6.6°) 6.6° (6.6°)	(4.7°) 4.7° (4.7°)			
10.5	4-point		(7.5°) 7.5° (7.5°)	(5.6) 6.5° (6.5°)	(4.1) 4.7° (4.7°)		
9	4-point		(8.0°) 8.0° (8.0°)	(5.7) 7.5° (7.5°)	(4.2) 6.3° (6.3°)	(3.2) 4.3° (4.3°)	
7.5	4-point		(8.0) 8.7° (8.7°)	(5.6) 7.7° (7.7°)	(4.1°) 6.3 (6.6°)	(3.2) 4.9 (5.6°)	
6	4-point	(9.3°) 9.3° (9.3°)	(7.7) 9.6° (9.6°)	(5.4) 7.9° (7.9°)	(4.0) 6.2 (6.8°)	(3.1) 4.8 (5.8°)	(2.5) 3.7 (4.1°)
4.5	4-point	(11.3) 14.1° (14.1°)	(7.2) 10.4° (10.4°)	(5.1) 8.0 (8.3°)	(3.9) 6.0 (6.9°)	(3.0) 4.7 (5.9)	(2.4) 3.8 (4.8)
3	4-point	(10.0) 15.8° (15.8°)	(6.6) 10.7 (11.1°)	(4.8) 7.6 (8.6°)	(3.7) 5.8 (7.0°)	(2.9) 4.6 (5.7)	(2.4) 3.8 (4.7)
1.5	4-point	(5.4°) 5.4° (5.4°)	(6.1) 10.2 (11.3°)	(4.5) 7.3 (8.6°)	(3.5) 5.5 (6.9°)	(2.8) 4.5 (5.2°)	(2.3) 3.7 (4.5°)
0	4-point	(4.8°) 4.8° (4.8°)	(5.8) 9.9 (10.6°)	(4.3) 7.1° (8.2°)	(3.4) 5.5 (6.6°)	(2.8) 4.4 (5.2°)	(2.3) 3.7 (3.9°)
-1.5	4-point		(5.7) 9.1° (9.1°)	(4.2) 7.0 (7.3°)	(3.3) 5.4 (5.8°)	(2.7) 4.4 (4.5°)	
							max. reach 12.8 m
2.3	4-point						(2.1) 3.2° (3.2°)

Recommended attachments on request

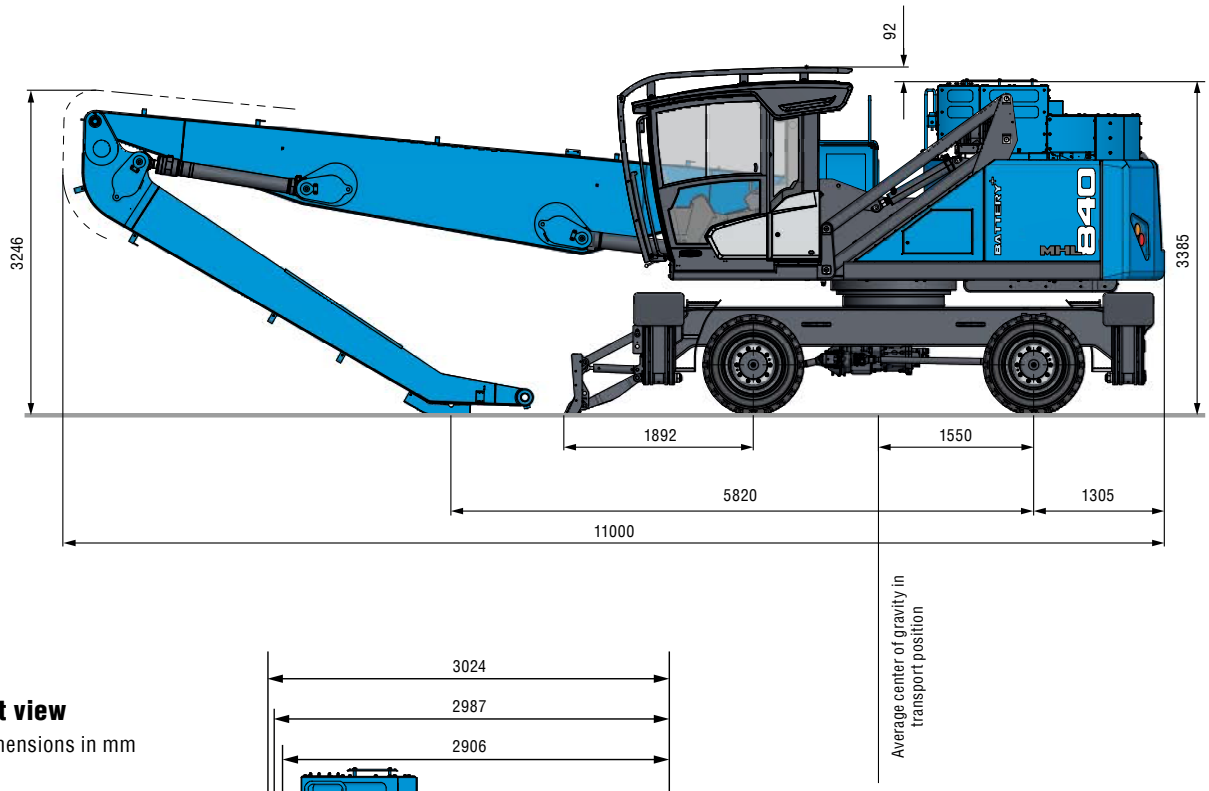
Height | Reach | Center of rotation | 4-point supported | not supported

The lift capacity values are stated in metric tons (t). In accordance with ISO 10567, the lift capacity values represents 75 % of the static tipping loads or 87% of the hydraulic lifting force (marked °).
On solid and level ground the values apply to a swing range of 360°. The (…) values apply in the longitudinal direction of the undercarriage. The values for "not supported" only apply via the steering axle or the locked oscillating axle. The weights of the attached load hoisting equipment (grab, load hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise must be observed.
In accordance with the EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required. The machine has to be supported on a level ground for object handling application.

DIMENSIONS

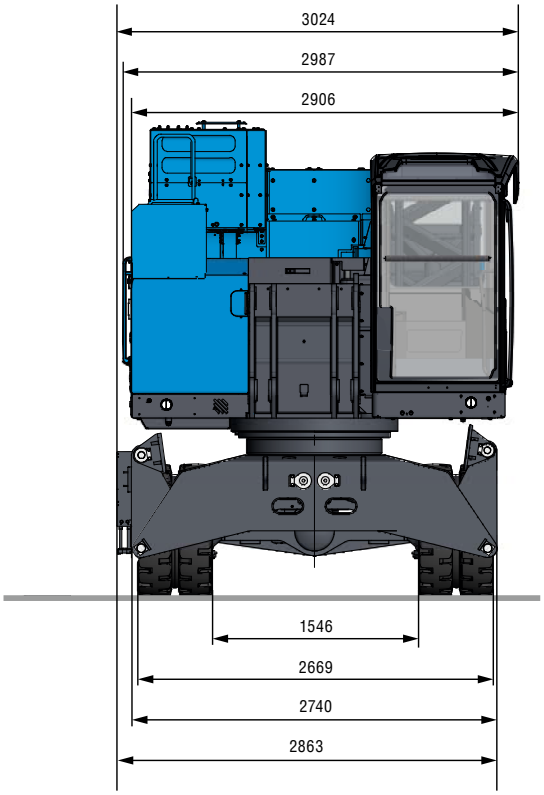
Side view

all dimensions in mm



Front view

all dimensions in mm



FUCHS CONNECT*

EFFICIENT FLEET MANAGEMENT

KNOW WHAT IS HAPPENING, HOW IT'S HAPPENING AND WHERE IT'S HAPPENING

- Get insights into your fleet utilisation anytime, anywhere
- Automatic notifications on maintenance requirements
- Minimise downtime with advanced service features such as OTA service updates and pre-service analysis
- Mobile solutions for iOS and Android keep you in control wherever you are on whatever device you use

*Internet connection and active account required

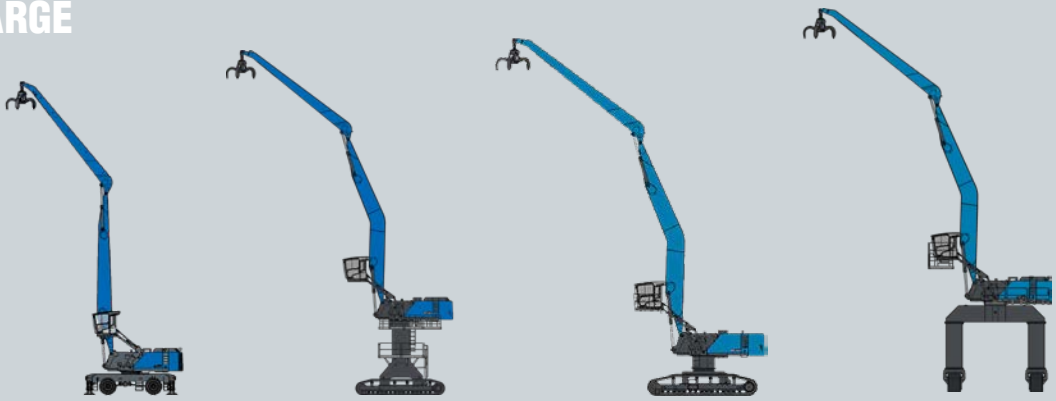
Android

iOS

BLUE EVOLUTION

BLUE SUSTAINABILITY

LARGE



HVO

Electric Moto

Electric Moto

MEDIUM

HVO

Electric Moto

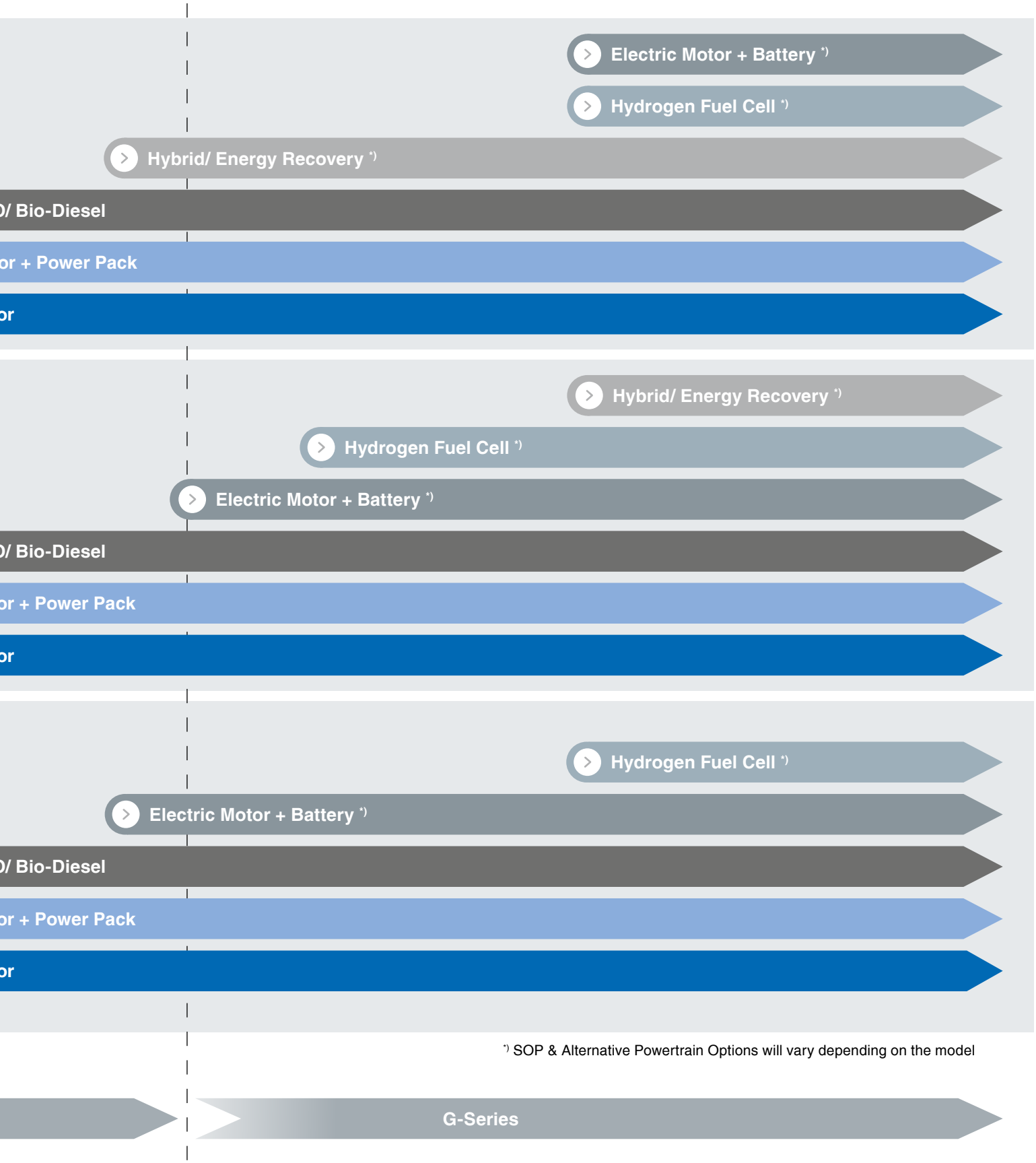
Electric Moto

COMPACT

HVO

Electric Moto

Electric Moto



*) SOP & Alternative Powertrain Options will vary depending on the model

ENVIRONMENTALLY FRIENDLY AND SUSTAINABLE SINCE 1989

As early as the eighties, FUCHS designed the first electrically powered material handling equipment. Some of the **FUCHS 713** are still in use today.

The proven concept of the **713** Electric proves itself not only in scrap handling.

The **SHL850** in timber handling. The rail undercarriage was perfectly integrated into the local process flows.

Our „one in a million“. The **AHL840** at stationary scrap loading.

Ship ahoy. One of the first **AHL850** operated in the Netherlands. Reliably & efficiency handling bulk materials.

Largest electrically powered Fuchs material handler **RHL880 D XL** to date. Crawler undercarriage and pylon for maximum stability and overview during scrap handling.

A tailor-made solution for clean port handling in the UK. **SHL860 D** on a custom- made rail undercarriage.

Our **AHL840 D**. Here in timber handling. Thanks to the generous reach and solid lifting power, continuously feeding the conveyor belt is not a problem.

The FUCHS as a pack animal. In the Netherlands, several Fuchs machines are convincing at the same time when it comes to recycling textiles. Here an **MHL820 F**.

MHL870 F Pylon. Electric multi-talent in Mannheim harbour. From loading the ship to feeding the shear. All emission-free.

Our smallest electric machine. The **MHL810 F** impresses in Scandinavia when it comes to sorting recyclable materials.

The latest member of the FUCHS USA team. An **MHL890 F** which is used to unload barges at a river terminal.

FUCHS
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