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INTERTRAC

Material Handling ☎ 900 818 978

SOCMA EV PORT EQUIPMENT (Fully Electric Version)

HNRS4531E&SECH90C7E

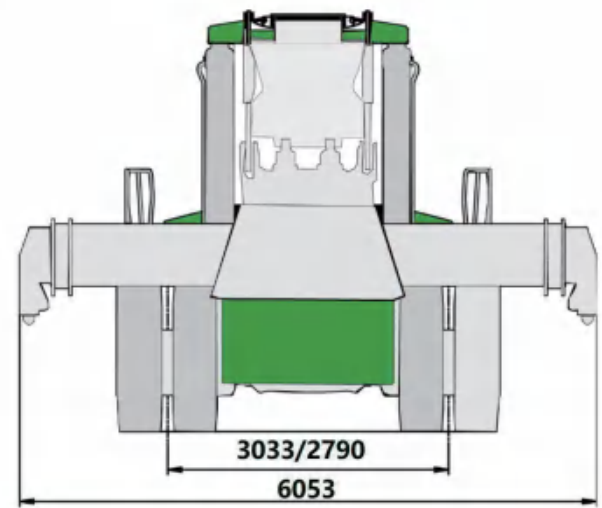
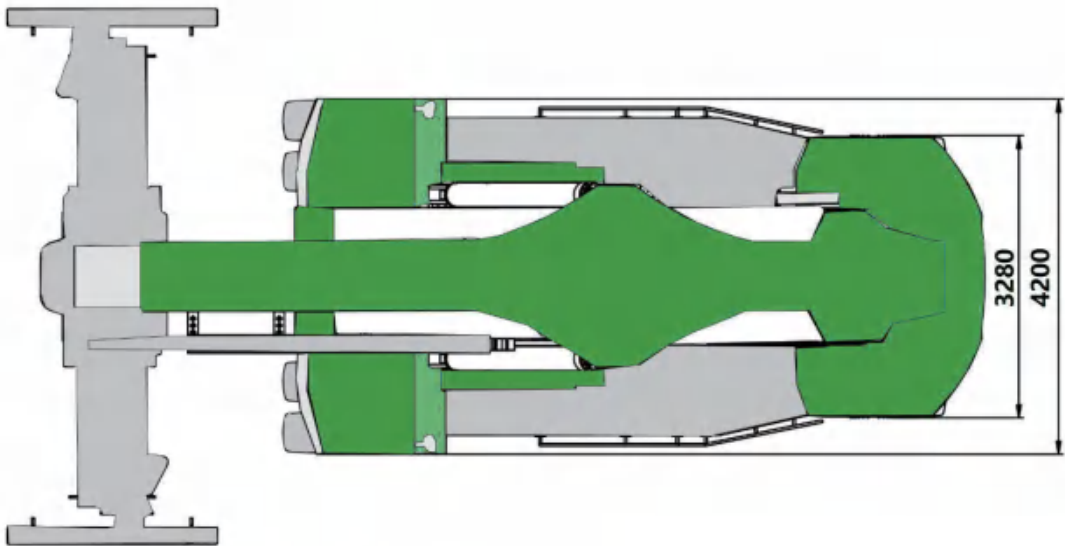
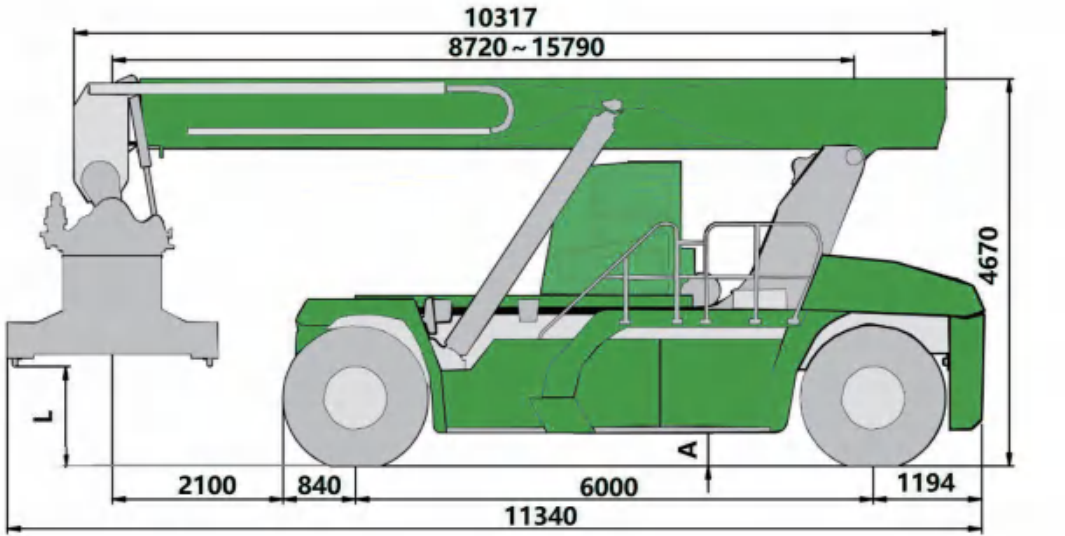


**SOCMA POWER
LIFT YOUR BUSINESS**





Dimensions



Spreader	L	A
SOCMA	1200	350
Bromma	1155	350

Technical specifications

AIR CONDITION >>>

The spreader is suitable for handling 20' and 40' standard containers. Telescoping, side shift and rotating function, as well as twist lock control are available. Its maximum lifting capacity is 45t, and side shift is ± 800 mm.

AIR CONDITION >>>

High-power, fully automatic heating and cooling air condition.



CAB >>>

Full-view driver's cab. Equipped with ergonomic seat, two point retractable seat belt, 24V power supply, radio and HD Reverse view system.

BATTERY PACK >>>

Proven iron phosphate lithium battery, high energy density, long cycle life and good safety. Voltage of battery pack: 618V. Capacity of battery pack: 422 kWh.

TIRES >>>

6 diagonal tires, Tire specifications: 18.00-25 40PR.

MOTOR >>>

Permanent magnet synchronous electric motors and have advantages of large torque, high efficiency, low noise and maintenance-free. Peak power : 346kW. Peak torque : 3800 Nm.

DRIVE AXLE >>>

D102PL341 heavy duty drive axle, manufactured by German Kessler.

STEERING >>>

Equipped with full hydraulic power steering, and easy to use.

BRAKES >>>

Service brake: wet disc brake, acting on the front wheels, and equipped with independent cooling tank, high performance filter and radiator. Parking disc brake, acting on the front axle.

HYDRAULIC SYSTEM >>>

America Parker variable plunger pump and valves, the system has compound action, vertical lifting and spreader anti-swing function.

Equipped with high performance filter and high power independent radiator.

SAFETY DEVICES >>>

Three-level insulation protection, real-time monitoring of electric leakage & active protection, current & voltage overload protection, smoke warning and automatic fire extinguishing, LMT, 2.5m long distance astern radar, one 2kg fire extinguisher.

ELECTRIC SYSTEM >>>

618V high voltage system., proven BMS battery management system, Power sources of 220 V and 380 V are practicable. Stationary and mobile charging poles with different powers may be used, easy to use.

24V Can bus control system, two batteries, negative ground.

Driving lights: two headlights, two turning signals in front of the vehicle; two turning signals, two brake lights and two reversing lights behind the vehicle.

Working lights: four working lights at the spreader locks, four working lights at the middle of the boom, two working lights behind the vehicle.

Warning lights: one rotating alarm lamp at the back of the vehicle.

FRAME >>>

Frame is made of fine grain high tension steel, with anti-torsion large cross-section, strong carrying capacity.

Finite element analysis and zero order design optimization method adopted for key structures ensure the strength and stiffness of structural members.

BOOM >>>

Two-stage, quadrangular telescopic boom, anti-torsion design, leading to better operating performance and anti-torsion ability.



Additional equipment

SPREADER >>>

Bromma spreader is suitable for handling 20' and 40' standard containers. Telescoping, side shift and rotating function, as well as twist lock control are available. Rated lifting capacity: 45 t. Side shift: ± 800 mm. Rotation angle: $-105^{\circ} \sim +195^{\circ}$.

Weight

Item	Front Axle	Rear Axle	Total weight	Tolerance
Unloaded	34406kg	36409kg	70816kg	$\pm 3\%$
Rated load	99923kg	15893kg	115816kg	$\pm 3\%$

The axle loads listed in the table are the values when 45t Load located on the first row.

Working speeds

Item	Unloaded	Rated load	Tolerance
Lifting speed	420mm/s	250mm/s	$\pm 10\%$
Lowering speed	360mm/s	360mm/s	$\pm 10\%$
Traveling speed	20km/h	14km/h	$\pm 10\%$

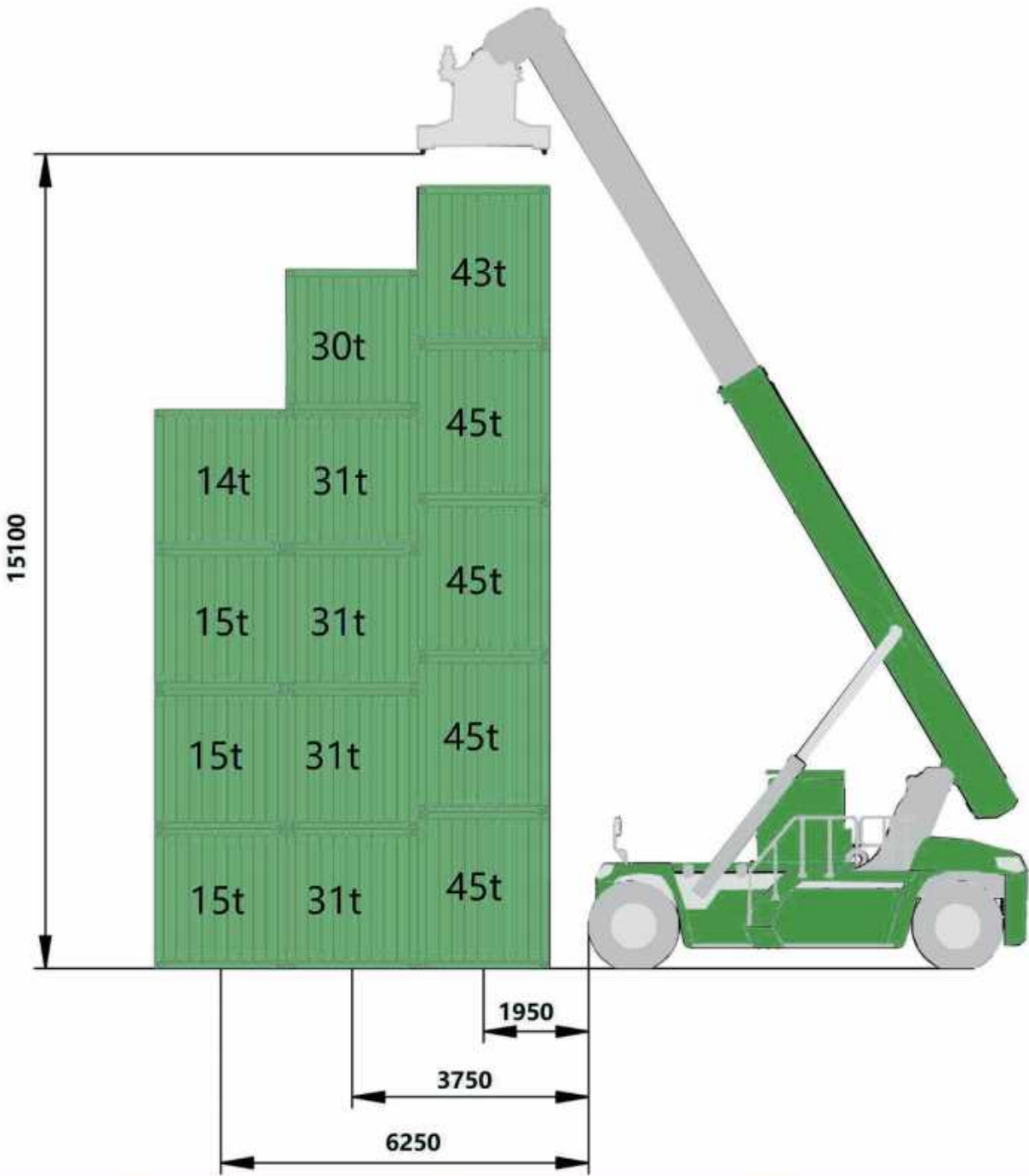
Spreader specifications

Item	SOCMA Spreader	Bromma Spreader	Tolerance
Lifting capacity	45000kg	45000kg	$\geq$
Side shift	± 800 mm	± 800 mm	$\pm 1.5\%$
Telescoping time	Extend: 25s Retract: 11s	15s	$\pm 10\%$
Rotating time	50S	50s	$\pm 10\%$
Shifting time	15s	15s	$\pm 10\%$
Lock\unlock time	1s	1s	$\pm 10\%$

Power specifications

Item	Parameter
Voltage of battery pack	618V
Capacity of battery pack	422kwh
Motor peak power	346kw
Motor peak torque	3800Nm

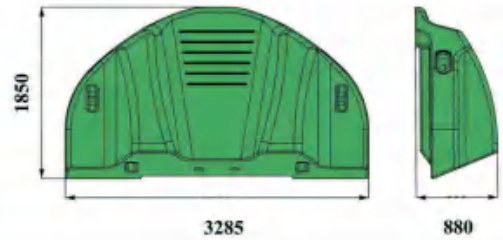
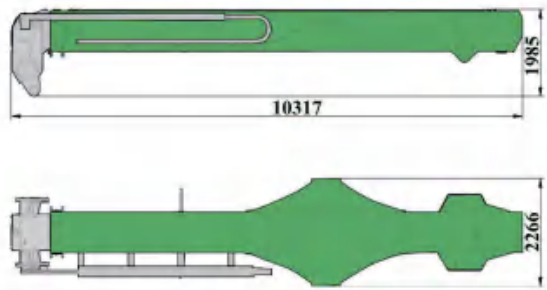
Lifting capacities



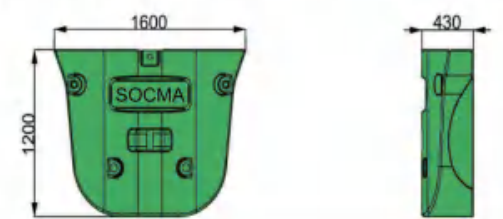
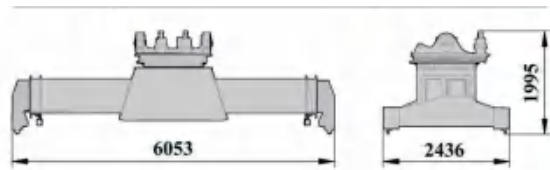
Spreader	Max. Lifting Height	Max. Lifting Capacity	Number of Stacking
SOCMA	15375mm	45t	5 (9'6")-5 (8'6") -4 (8'6")
Bromma	15100mm		

Dimensions of transported parts

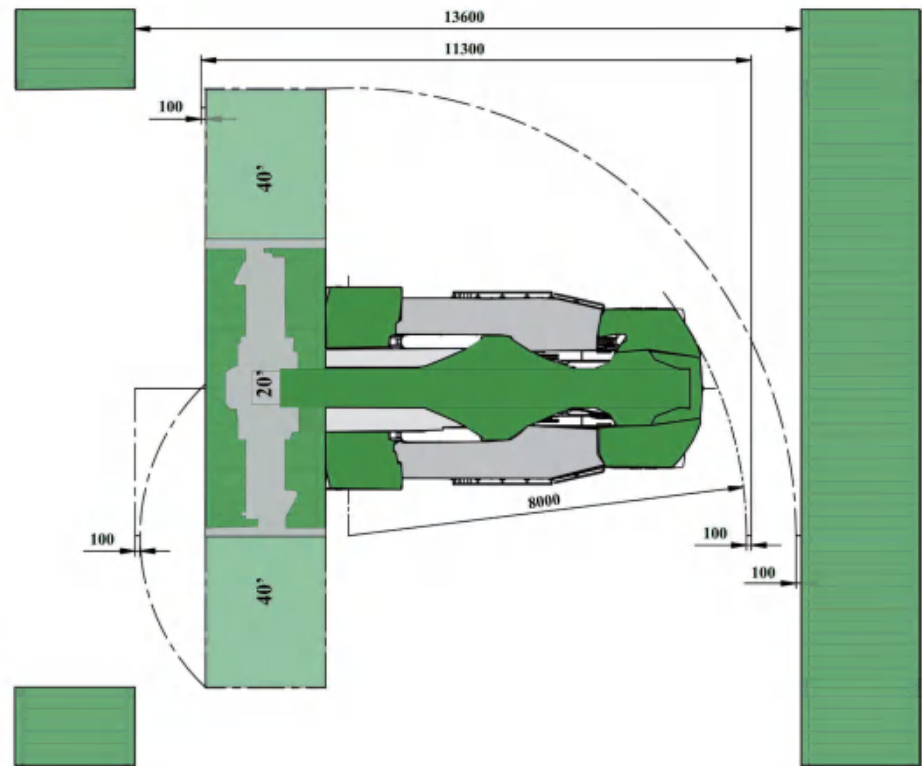
2	Boom assembly	4	Counterweight A
Weight	13935kg	Weight	13.742kg
Qty	1	Qty	1



3	Boom assembly	5	Counterweight A
Weight	8000kg	Weight	3826kg
Qty	1	Qty	1



Aisle width



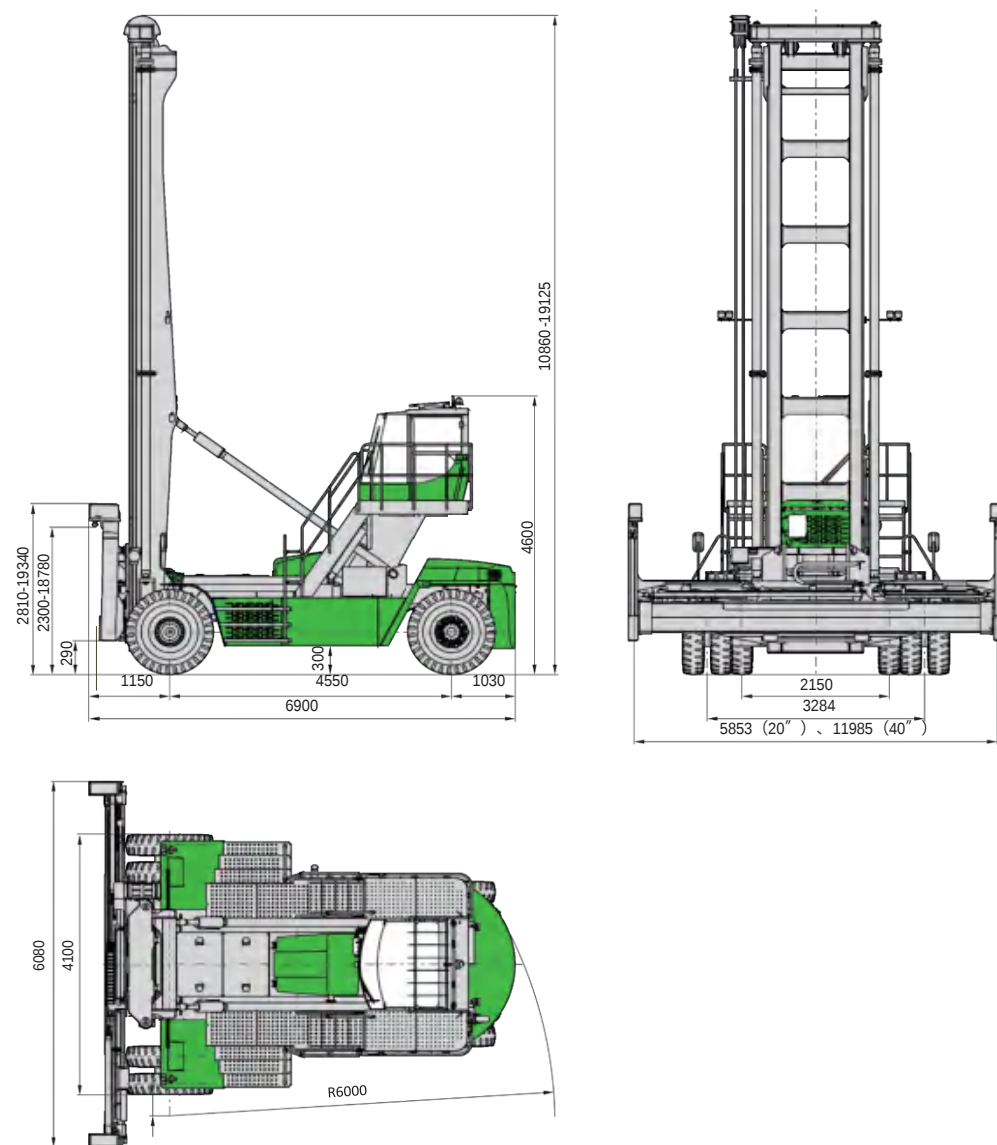
Main Technical Data

Item	Unit	Parameter	Tolerance
length	mm	11340mm	±2%
Width	mm	Spreader 6053	±2%
	mm	Front wheel 4200	±2%
Height	mm	4670	±2%
Wheelbase	mm	6000	±1%
Trace	mm	Front 3033	±1%
	mm	Rear 2790	±1%
Overhang	mm	Front 840	±1%
	mm	Rear 1194	±1%
Min. ground clearance	mm	350	±1%
Min. turning radius	mm	8000	≤102%
Max. gradeability	%	13%	≥90%
Dead weight	kg	71200	±3%
Rated lifting capacity	kg	45000	-
Stacking capacity	-	5-5-4	-
Max. lifting height	mm	15100	±1.5%
Max. lifting speed	mm/s	Unloaded 420	±10%
	mm/s	Rated load 250	±10%
Max. lowering speed	mm/s	Unloaded 360	±10%
	mm/s	Rated load 300	±10%
Max. traveling speed	km/h	Unloaded 20	±10%
	km/h	Rated load 14	±10%
Aisle width	mm	20' 11300	±2%
	mm	40' 13600	±2%

Notes

1. All information in the brochure is provided for reference only. Never rely on it to operate the machine. Refer to the operation manual for operation instructions of the machine.
2. Container reach stacker belong to off-road machines. Local traffic rules and regulations must be observed. For long-distance job site transfer, use a trailer and take GVW, axle load and dimensions of the machine into consideration.
3. The machine must be operated on firm ground, which gradient does not exceed 3%.
4. Operation of the machine is permissible only when the wind force is below grade 6. When operating the machine under wind, it is necessary to observe wind speed, equipment status and operating environment. In addition, the wind velocity on the ground is different with that in the high air, and it is also different on flat ground and in city air, which shall be taken into account.

Dimensions



Technical specifications

STANDARD EQUIPMENT >>>

Spreader

SOCMA spreader for single container, applicable to handling ISO 20' and 40' containers. Its maximum lifting capacity is 10 t, and side shift is ± 600 mm.

Cab

Integrated design for driving and operating functions, simple and artistic appearance. Panoramic, low-instrument panel design, wide view. Ergonomically designed inner space, spacious and comfortable with high power heating and air conditioning device equipped.
A large screen display is easy to use.

Motor

SOCMA spreader for single container, applicable to handling ISO 20' and 40' containers. Its maximum lifting capacity is 10 t, and side shift is ± 600 mm.

Cab

Drive Motor: DM250H41.P12H2 motor,
Power: 100KW;
Lifting Motor: DM085H37,
Power: 70kW.
Oil Pump Motor: UM050H31-C Power: 120kW.
Water-cooled permanent magnet synchronous motor.

Battery System

ATL lithium iron phosphate, Battery Capacity: 350kWh. Type: LEP302Ah

Drive axle

82.11088a, German KESSLER heavy duty drive axle, high reliability and easy to maintain.
Water-cooled permanent magnet synchronous motor.

Tires

6 diagonal tires, with large bearing capacity and specialized pattern for port machines, suitable for the requirements of empty container handler under various working conditions.
Tire specifications: 14.00-24 28PR.

Suspensions

Front axle is rigidly connected with frame for high stability while driving with a container suspended; rear axle is hinged with frame for buffering road shock through the hinged mechanism.

Brakes

Service brake: wet disc brake, acting on the front wheels. Automatic braking is available in case of lower system pressure.
Parking brake: spring-loaded brake and hydraulic-released independent disc brake, acting on the front axle.

Steering

Rear axle is full hydraulic power steering, the turning angle of rear wheels is up to 73°, and the turning radius of whole machine is 6000mm.

Hydraulic system

Electric proportional variable pump system, with load sensitive function, energy economy.
A high power, air cooled hydraulic oil radiator is used to cool the system.
Oil tank capacity: 420 L.

Electric System

Type: CR0232, DC 24 V, negative ground, 2 batteries. There are headlamps, reverse lamp and turn lamps available in lighting system.

Safety devices

Dynamic load protection technology makes the traveling speed be limited according to machine load, contributing to driving safety of the machine with a container suspended. Overload protection, backup camera and reverse alarm are available.

Frame

Frame is made of fine grain high tension steel, with anti-torsion large cross-section, strong carrying capacity. Finite element analysis and zero order design optimization method adopted for key structures ensure the strength and stiffness of structural members.

Mast

Two-stage, telescopic mast, anti-torsion design, leading to better operating performance and anti-torsion ability.

WEIGHT >>>

Item	Front Axle	Rear Axle	Total weight
Unloaded	25914kg	16086kg	42000kg
Rated load	40126kg	10874kg	51000kg

The axle loads listed in the table are the values when mast is vertical.

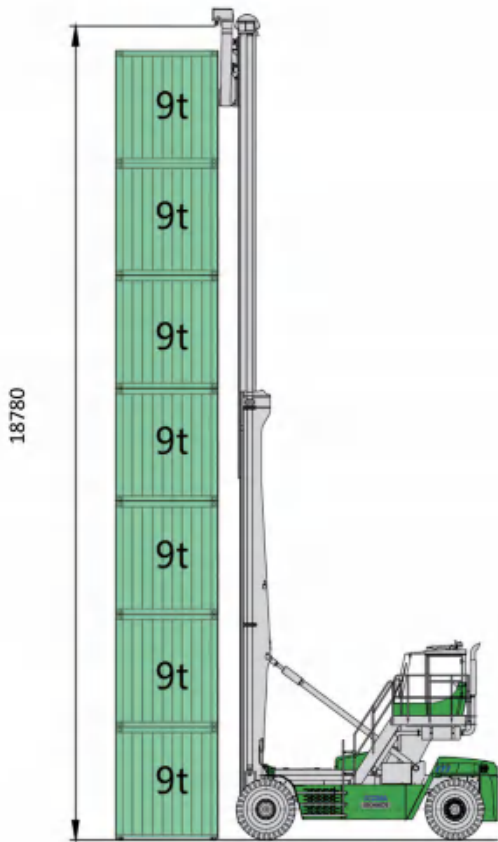
WORKING SPEEDS >>>

Item	Unloaded	Rated load
Lifting speed	600mm/s	
Traveling speed	27km/h	22km/h

SPREADER SPECIFICATIONS >>>

Item	Spreader for single container (SOCMA)
Lifting capacity	9000kg
Side shift	±600mm
Telescoping time	22s
Lock\unlock time	1s

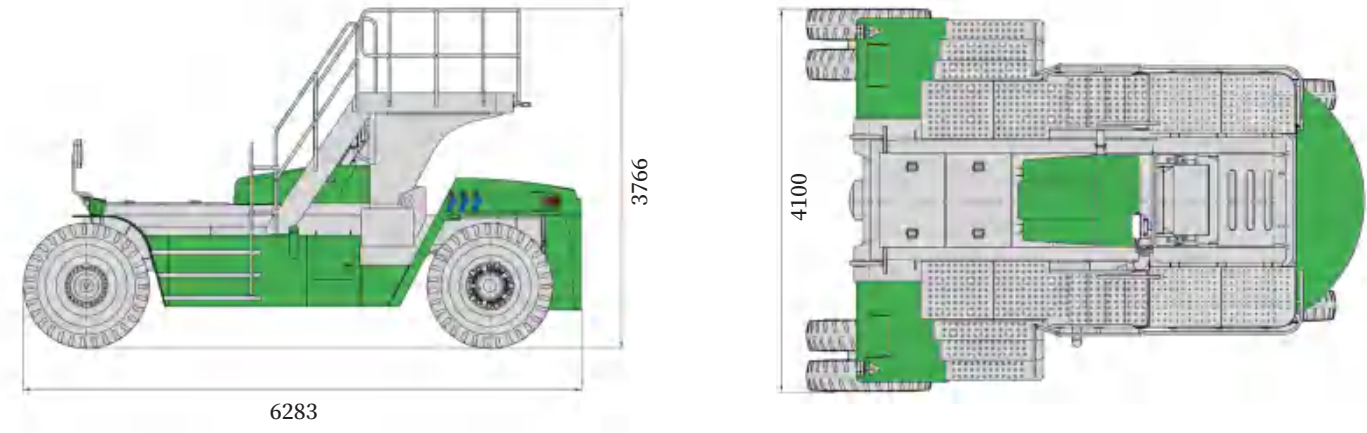
LIFTING CAPACITIES >>>



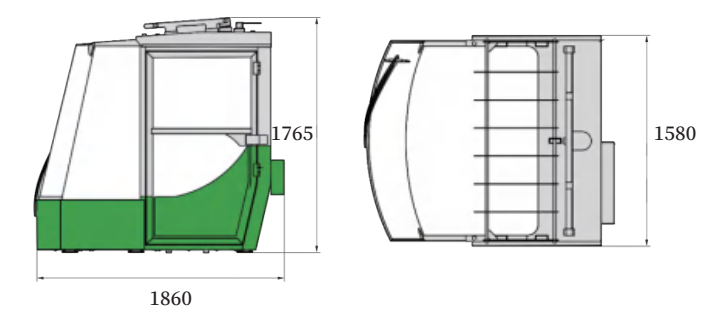
Spreader	Unloaded
Max. Lifting Height	18780mm
Max. Lifting Capacity	9t
Number of Stacking	7 (8'6") /6 (9'6")

DIMENSIONS OF TRANSPORTED PARTS >>>

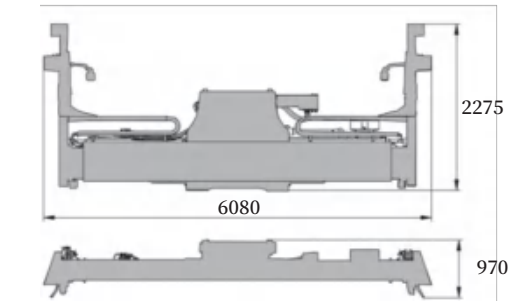
1	Main machine
Weight	25873kg
Qty	1



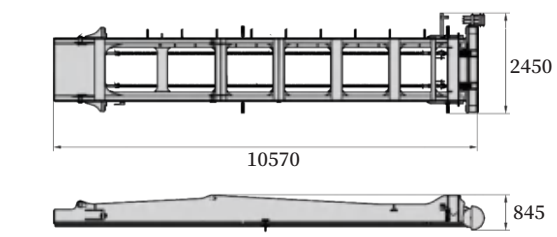
2	Cab
Weight	700kg
Qty	1



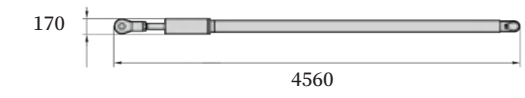
3	Spreader
Weight	4733kg
Qty	1

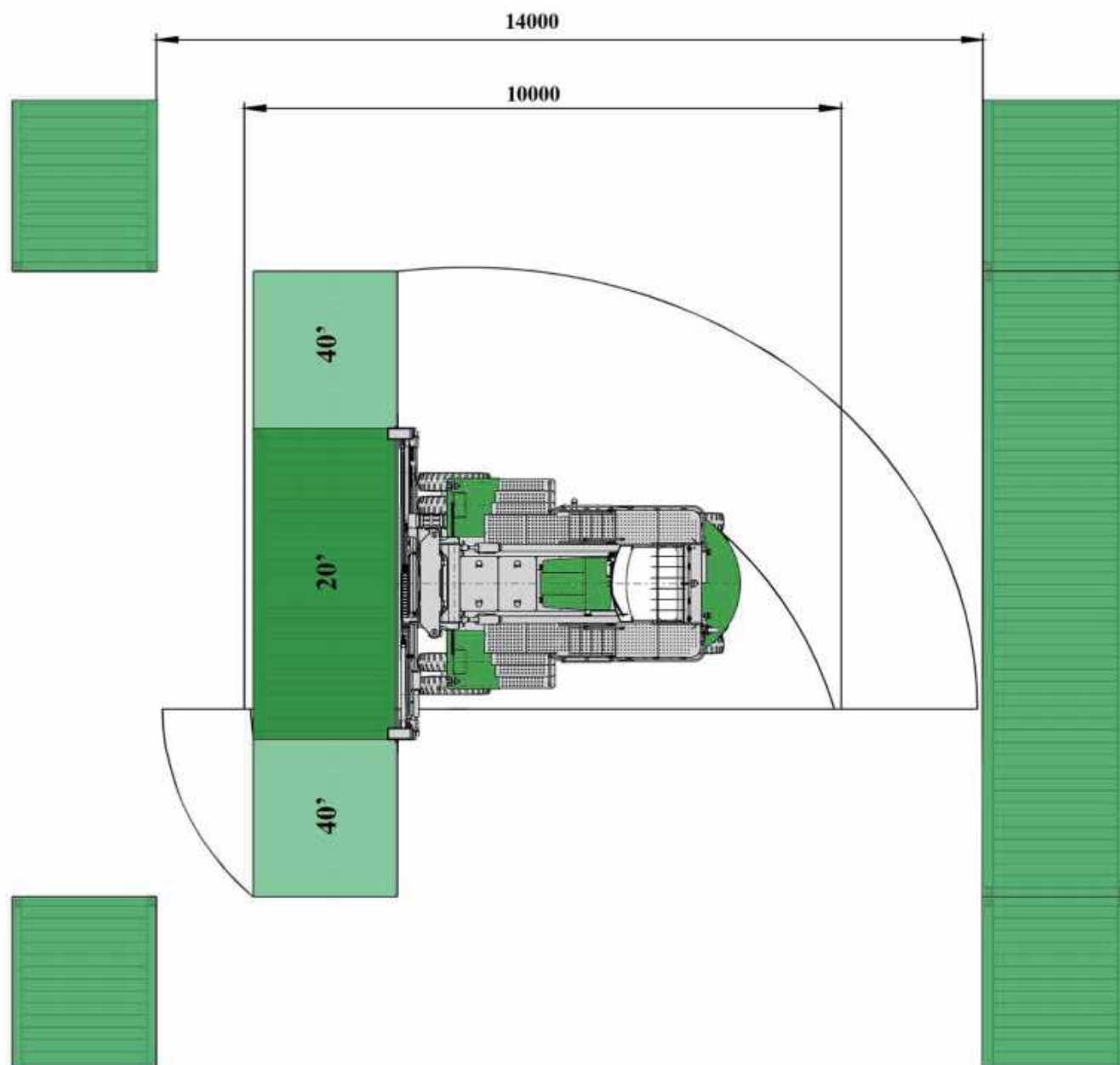


4	Mast assembly
Weight	9710kg
Qty	1



5	Tilt cylinder
Weight	492kg
Qty	1





Item		Unit	Parameter	Tolerance
length		mm	6910	±1%
Width		mm	6053	±1.5%
Height	Mast	mm	10860	±1%
	Cab	mm	4600	±1%
	Max.height	mm	19125	±1%
Wheelbase		mm	4550	±1%
Trace	Front	mm	3280	±2%
	Rear	mm	2150	±2%
Overhang	Front	mm	1145	±3%
	Rear	mm	1031	±3%
Min. ground clearance	Under mast	mm	320	≥95%
	Center of Wheelbase	mm	409	≥95%
Max. traveling speed	Unloaded	km/h	27	±10%
	Rated load	km/h	22	±10%
Min. turning radius		mm	6000	≤105%
Max. drawbar pull		kN	107	≥90%
Max grade ability		%	30%	≥90%
Dead weight		kg	42000	±3%
Rated lifting capacity		kg	9000	±5%
Height under twistlock		mm	2300	±1.5
Max. lifting height		mm	18780	±1.5
Mast tilting	Front	°	2	±0.5°
	Rear	°	4	±0.5°
Max. lifting speed	Unloaded	mm/s	600	±10%
	Rated load	mm/s	450	±10%
Max. lowering speed	Unloaded	mm/s	600	±10%
	Rated load	mm/s	600	±10%