



822G

SENEBOGEN

MATERIAL HANDLER

822G



 110 kW
 92 kW
 392 kWh



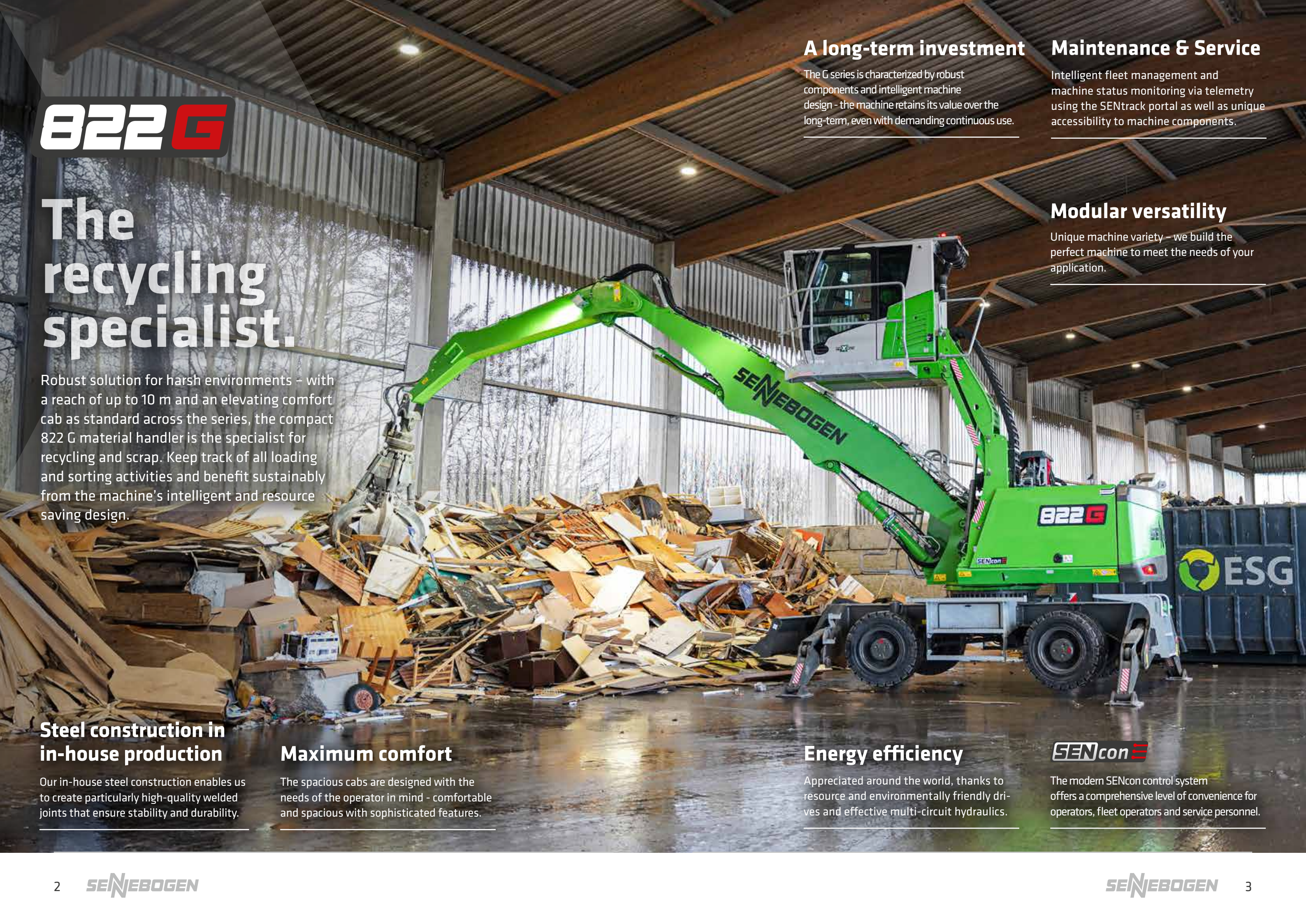
Mobile ^{up to} 23.0 t
crawler ^{up to} 25.3 t

 10 m



MAXCAB

Stage V



822 G

The recycling specialist.

Robust solution for harsh environments – with a reach of up to 10 m and an elevating comfort cab as standard across the series, the compact 822 G material handler is the specialist for recycling and scrap. Keep track of all loading and sorting activities and benefit sustainably from the machine's intelligent and resource saving design.

Steel construction in in-house production

Our in-house steel construction enables us to create particularly high-quality welded joints that ensure stability and durability.

Maximum comfort

The spacious cabs are designed with the needs of the operator in mind - comfortable and spacious with sophisticated features.

A long-term investment

The G series is characterized by robust components and intelligent machine design - the machine retains its value over the long-term, even with demanding continuous use.

Maintenance & Service

Intelligent fleet management and machine status monitoring via telemetry using the SENtrack portal as well as unique accessibility to machine components.

Modular versatility

Unique machine variety – we build the perfect machine to meet the needs of your application.

Energy efficiency

Appreciated around the world, thanks to resource and environmentally friendly drives and effective multi-circuit hydraulics.

SENcon 

The modern SENcon control system offers a comprehensive level of convenience for operators, fleet operators and service personnel.

AN INVESTMENT THAT PAYS OFF.

The durability and reliability of the SENNEBOGEN Green Line are based on decades of experience in the design of high-quality crane and material-handling technology. If you want to handle recycled materials in a particularly environmentally friendly and cost-effective way, we have the perfect solution for you.

LATEST GENERATION MATERIAL HANDLING TECHNOLOGY The **G** series.



State-of-the-art engines, drive and exhaust gas aftertreatment systems



Manageable and service-friendly technology for maximum machine availability



Consistent performance thanks to robust steel construction, and high-quality drive and control components from renowned manufacturers



Maximum efficiency thanks to powerful pumps, large-scale hydraulic valves and pipes



Sophisticated technology thanks to the consistent further development up to the 6th The G series generation – for demanding material handling



Durable and robust in extreme weather and harsh operating conditions, works equally well in the cold of the Arctic Circle or in extreme heat



Advanced. The **G** series.



LONG SERVICE LIFE, HIGH VALUE RETENTION

- Reliable and powerful thanks to its robust construction and high-quality components
- Temperature-controlled cooling system, designed and tested for heavy-duty applications and high ambient temperatures

SOPHISTICATED, STATE-OF-THE-ART TECHNOLOGY

- Consistent design for demanding material handling
- Increased efficiency thanks to multi-circuit hydraulics, optimized hose and pipe routing

ENVIRONMENTALLY FRIENDLY DRIVE TECHNOLOGY

- State-of-the-art engine, drive and emission systems in line with the latest technology (stage V)
- Refueling with alternative fuel HVO possible

SIMPLE TO MAINTAIN AND SERVICE

- Fewer service operations on site thanks to SENcon remote diagnostics
- Ideal accessibility to all clearly labeled components for easy maintenance

SAFETY FIRST.

Stay safe throughout your working day with a range of safety features specifically designed for recycling and scrap metal operations. To protect people, the environment and the machine.

Extended Warranty

from 10.000 operating hours or three years on steel components

Safe & ergonomic

optimal cab and machine component accessibility via steps and railings on the uppercarriage



Best all-round visibility with maximum safety

Panoramic view thanks to continuous glass surfaces, bulletproof glass panel at the front, viewing height of 5.80 m

Pipe fracture safety in series production

Load holding valve for optimum work safety

SENtrack

Maintain fleet management safety by monitoring the condition of your machines

Powerful LED spotlights

for optimum illumination of the work area

Ergonomic working

Daily service and refuelling from the ground

Optimal camera monitoring

of all safety-relevant areas*

50 %

saving in operating costs by
significantly reducing energy
consumption

ELECTRO

SENNEBOGEN – WORLD LEADER IN ELECTRIC MATERIAL HANDLERS.

For over **35 years**, we have implemented by far the most
electrical applications

- ✓ A complete solution direct from the manufacturer –
detailed route analyses and individual power supply project
planning, tailored specifically to your application
- ✓ A variety of solutions for power supplies, voltage types and
emergency operating units ex works
- ✓ Electric motor with 400 V / 50 Hz
- ✓ No fueling stops or need to store fuel - always ready for use
- ✓ Service intervals twice as long and lower service costs: No
need for fuel/oil filter and oil changes compared to diesel engine
- ✓ High value retention and significantly longer service life
- ✓ No exhaust gases – good for the environment, good for people
- ✓ Low-noise and vibration-free operation
for greater working comfort
- ✓ Cleaner engine compartment even after long operating period

► **ELECTRO**

► **BATTERY**

BATTERY POWER THE NEW GENERATION.

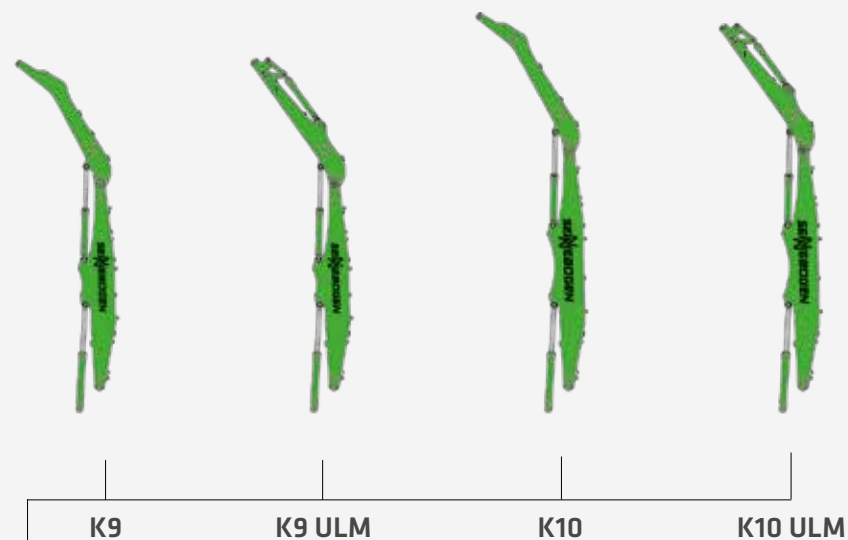
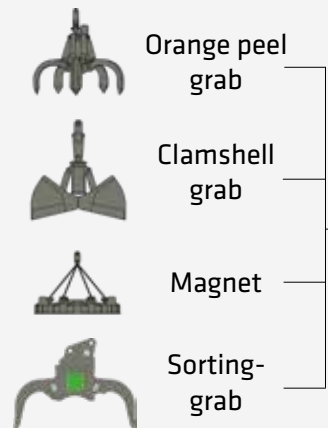
- Over 60 tonnes of CO₂ savings per year during operation
- Active peak shaving: the motor always starts via the inverter; even when the charging cable is connected; this allows peak loads to be smoothed out and electricity costs to be saved
- Modular battery capacity: Machine equipped with 1 to 4 battery packs for a maximum of 392 kWh
- Consistent basic appearance regardless of the motor type – battery, electric, or diesel – thanks to new machine design
- Charging power: 44 kW with 2 onboard chargers (125 A plug)
- Dual power management: Flexible battery charging even while working thanks to power connection on the undercarriage

Zero emission, flexible
configuration



A MODULAR DESIGN. NUMEROUS APPLICATIONS.

EQUIPMENT



K = Compact boom

ULM = Equipment with tipping kinematics, e.g. for sorting grabs

CAB

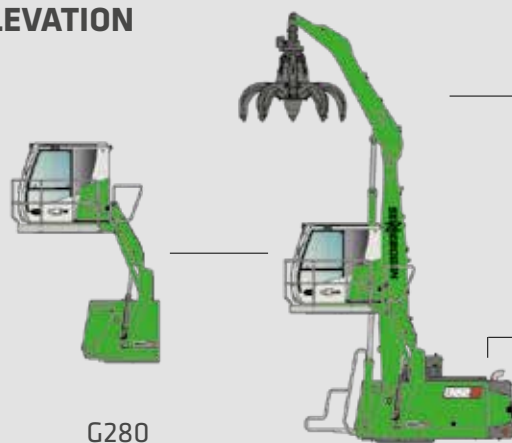


Maxcab



Maxcab Industry

CAB ELEVATION



Diesel-hydraulic drive



Electro-hydraulic drive



Electro-hydraulic drive with battery technology

OPTIONS



Motorized cable reel



Transformer

UPPER CARRIAGE

UNDERCARRIAGE

Pylon
max. 0.5 m

Pylon
max. 0.5 m

Pylon
max. 1 m



Mobile



Crawler



4-point-pedestal

WHAT DOES YOUR MACHINE LOOK LIKE?

Configure your individual machine from our modular system. The great variety of solutions that we can implement in this way is unique anywhere in the world.



CUSTOM CONFIGURATION

More than 16,000 unique material handling solutions can be delivered through SENNEBOGEN's modular machine design – watch the video now!

www.sennebogen.com/versatility

MAXIMUM COMFORT.

Everything in view

The new Maxcab sets standards in terms of overview and functionality. Thanks to the generous panoramic view, you always have a perfect overview of your work area. Supported by modern safety cameras and an advanced monitor system, you can keep a comfortable and safe eye on the danger zone.

Intuitive operation

The heart of the new Maxcab is the 10-inch touch display, which gives you quick access to all important functions. In addition, buttons and switches for the most important settings ensure intuitive and efficient operation. The battery is automatically disconnected from electrical consumers when the machine is switched off.

Pleasant indoor climate

The Maxcab's modern automatic climate control ensures an optimally tempered working environment in any kind of weather. No matter if it's scorching heat or freezing temperatures - approach your tasks every day with composure and focus.

Individual operator profiles

The Maxcab enables personalized settings for every operator, such as freely configurable joystick assignments. Simply get in, load the saved profile - and get going straight away.

New, modern interior

The Maxcab impresses with a completely revised interior design that meets the highest standards of ergonomics and comfort. High-quality materials and a well thought-out interior design create a pleasant working environment, while the continuous large windows ensure a generous feeling of space.

Easy control

The intelligent SENcon control system gives you quick and easy feedback on the machine's condition. Thanks to the intuitive user interface, it has never been easier to monitor energy consumption and utilization, control the desired working modes and contribute towards reducing operating costs.

THE NEW
G SERIES
MAXCAB

MAXCAB

SENcon The machine control of the future.

The modern SENcon control system offers comprehensive comfort for operators, fleet managers and service personnel.

Assistance systems increase work safety, make work processes more efficient and remote diagnostics quick and easy. Through the analysis of machine data, you can optimize the operation and reduce the CO₂ footprint of the machine.

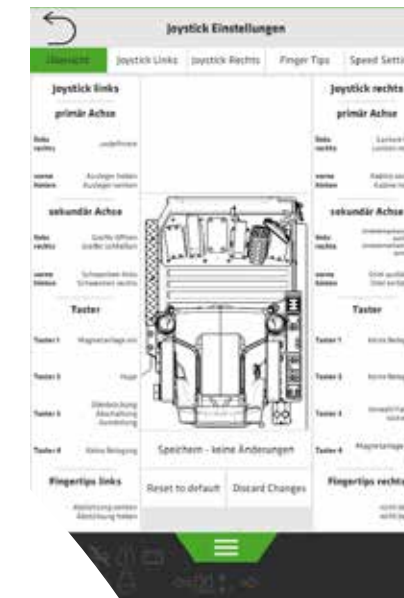
1. Driver comfort of tomorrow thanks to modern assistance systems

- Quickly setup & access to comprehensive driver profiles
- Integrated safety systems (e.g. work area limitation)
- Safe machine movements thanks to semi-autonomous movements
- Preparation for remote control and fully automated operation movements



2. Effective remote service reduces costs and saves time

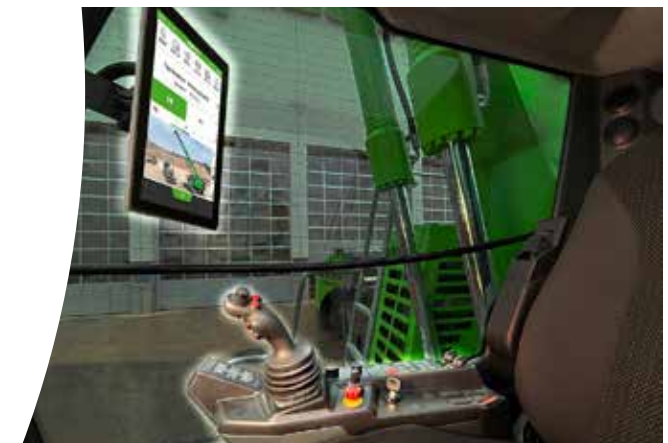
- Extract and analyze machine data from any location
- State-of-the-art diagnostic tool for effective remote diagnostics
- Guarantee of the best possible machine availability and operating safety



Quick access to all important functions via the large 10-inch touch display

3. Always up to date: Software updates over-the-air (SOTA)

- Efficient installation of new functions of the machine control system remotely without physical intervention in the machine
- Continuous work with the latest technology
- The machine remains maximally available and flexible in use



4. Intelligent analysis of machine data

- In combination with the telematic system SENtrack the machine data from SENcon becomes valuable information about work processes and the condition of the machine
- Functions such as the excavator scale ensure view of the current achieved handling performance
- Optimization of machines in use: simple and effective

CABS HIGHLIGHTS



IN SERIES		Maxcab	Maxcab Industry
ENTRANCE		Sliding door incl. sliding window	Sliding door incl. sliding window
WINDSHIELD		Optimal field of vision	Undivided windshield made from bullet-proof glass, rigidly glazed
RIGHT SIDE WINDOW PANE		Laminated safety glass	Laminated safety glass
SKYLIGHT		Bulletproof skylight	Bulletproof skylight
PLATFORM		Platform with railing for safe access	Platform with railing for safe access
WIPERS		-	Wipers for skylight
		Wiper and washer system for front windshield	Wiper and washer system for front windshield
AIR CONDITIONER		Automatic climate control with fresh air and recirculating air filter	Automatic climate control with fresh air and recirculating air filter
FLOODLIGHTS		Powerful LEDs, integrated in the roof	Powerful LEDs, integrated in the roof
SENCOR CONTROL AND DIAGNOSTIC SYSTEM		✓	✓
OPTIONS			
SKYLIGHT		Wipers for skylight	-
RADIO		DAB, with Bluetooth®-function, hands-free system	DAB, with Bluetooth®-function, hands-free system
AIR-CONDITIONED SEAT		✓	✓
PROTECTIVE VENTILATION SYSTEM		✓	✓
COOLING BOX BEHIND THE OPERATOR'S SEAT		✓	✓
PROTECTIVE GRILLE ON SKYLIGHT AND WINDSHIELD		✓	✓
SUN PROTECTION PACKAGE		✓	✓

ALWAYS THE RIGHT VIEWING ANGLE

With the new **cab elevation**, the operator not only receives a great increase in viewing height for maximum safety and overview: Thanks to the extremely **robust design**, it also guarantees quiet and fatigue-free operation even during fast movements.



Viewing height (G280)
5.8 m

G SERIES
STANDARD
EQUIPMENT

PROFESSIONAL FLEET MANAGEMENT

SENtrack
TELEMATIC SYSTEM

1. Reduce service costs

The dashboard is used to monitor the machine and its main operating parameters (temperatures, consumption). If key figures deviate significantly from the target value, the user is informed immediately.

2. Reduce consumption

You will receive daily updated insights into your fleet processes: Easily identify and optimize times when machines are idle or change set parameters when machines are underloaded to reduce consumption.

„What if you could receive real-time data from all your machines with just one click and so increase your productivity? SENNEBOGEN's SENtrack telematic system makes this possible. With the G series, you get the benefits of the monitoring tool as standard!”

3. Improve productivity

With just a few clicks, you can identify and optimize machine capacity, analyze routes if required and thus make your port processes more profitable.

4. Safeguard your investment

Practical alarm messages inform you about critical machine conditions. In the event of irregular movements, the machine can also easily be deactivated remotely.



MAINTENANCE AND SERVICE.

KEEP IT SIMPLE. WITH MANAGEABLE TECHNOLOGY.



Reliable and practical technology makes life easier. We rely on hydraulics, electrics and electronics where they are most useful.



We make you happy, not reliant. With cost-effective components and fewer process steps, you can take care of the machine on your own.



The central electrical distributors and electronic modules facilitate maintenance, service and, if necessary troubleshooting.



The SENNEBOGEN Troubleshooter is a guided troubleshooting tool for the fastest possible solution in the case of service.



All maintenance and service points are clearly arranged and easily accessible. The clear labeling of components makes finding your way around easy.

TECHNICAL DATA, EQUIPMENT

MACHINE TYPE

MODEL (TYPE) 822 G

TANK CAPACITIES

FUEL	300 l
AD BLUE	30 l
HYDRAULIC TANK	240 l
COOLANT	approx. 40 l
ENGINE OIL	approx. 12 l
CENTRALISED LUBRICATION SYSTEM	Automatic centralised lubrication for attachments and slewing ring; display of fault and low-level warnings via SENCON
HYDRAULIC OIL	SENlube HYDRO D46

UPPERCARRIAGE

DESIGN	Torsion-resistant box design, precision crafted, steel bushings for boom mounting, engine installed in the longitudinal direction
COOLING SYSTEM	Cooling system with 3 cooling circuits and demand-based fan control, consisting of charge air cooling, coolant cooling and hydraulic oil cooling, hydraulically driven, thermostatically controlled incl. fan reversal
OPTIONS	- LED lighting package - Positioning brake operated by foot pedal - Fire extinguisher - Low temperature packages - Electric hydraulic tank preheating 9 kW magnetic generator - Additional ballast: 1 t to 2 t - Comprehensive uppercarriage railings - Platform with railing next to the cab - Warning beacons and alarm horns

ENGINE

TYPE	822 G DIESEL	822 G ELECTRIC	822 G BATTERY
	Stage V: Cummins F 3.8* Rated engine power: 110 kW/2200 rpm Standard operating point: 109 kW/2000 rpm ECO operating point: 99 kW/1600 rpm Automatic Idling Stop System	Power 92 kW at 400 V/50 Hz Total connected load 110 kVA (125 kVA with magnetic system) Circuit breaker on the machine side 160 A (200 A with magnetic system)	Power: 92 kW at 400 V/50 Hz Engine start-up via frequency converter without inrush current peaks
COOLING	water-cooled, intercooling, coolant cooling		
DISPLACEMENT	3.8 l		
NUMBER OF CYLINDERS	4		
BATTERIES	2 x 110 Ah / 750 A, battery disconnect switch		
ELECTRICAL SYSTEM	24 V		
OPTIONS	- Engine block heater - Electric fuel pump - External starter poles - Cyclone pre-separators for applications with high dust loads		

TECHNICAL DATA, EQUIPMENT

HYDRAULIC SYSTEM

Load-sensing / LUDV hydraulic system, electro-hydraulically pilot-operated working functions	
OPERATING PRESSURE	up to 350 bar
CONTROL SYSTEM	Proportional, sensitive, electric control of movements, 2 electronic joysticks for working functions, additional functions via switches and foot pedals
SAFETY	Hydraulic circuits protected by safety valves Standard-fit pipe rupture safety valve for the boom and compact boom Emergency release of the attachments when the engine is stopped
OPTIONS	- Bio-oil filling - Tool Control for programming pressure/rate of up to 10 tools - Load torque warning with capacity display - Overload safeguard with shutdown - SENNEBOGEN HydroClean micro-filter system (3 µm) with water separator - Supplementary hydraulic circuit for hydraulic packages - Hydraulic oil SENlube HYDRO POLAR for up to -30°C surrounding temperature

SLEWING DRIVE

GEARBOX	Planetary gearbox with axial piston motor, integrated brake valves
PARKING BRAKE	Spring-loaded, hydraulically ventilated-multi-disk safety brake
SLEWING RING	internal gearing, heavy-duty ball-bearing ring, sealed
SLEWING SPEED	0-8 rpm
TORQUE	53 kNm

Folding lubrication system for easy maintenance



TECHNICAL DATA, EQUIPMENT

CAB*	MAX CAB	
CAB TYPE	Maxcab, has an elevating feature that allows it to be raised to a height of 2.8 m	
CAB FEATURES	Sliding door incl. sliding window, vibrationdamped, tinted safety glass, safety glass side window, skylight, windscreen wiper, sunblind for front and roof windows, integrated microphone for hands-free system, air-suspended comfort seat, automatic climate control with fresh air and recirculated air filter, joystick steering (mobile version), SENcon control, emergency OFF	
OPTIONS	Maxcab Industry, full-length armoured glass pane	
	Roof protection grille, FOPS where applicable	
	Protective front guard	
	Active carbon filter for outside air	
	Auxiliary heating system	
	Air-conditioned comfort operator's seat	
	Radio (DAB), with Bluetooth® function, hands-free system	
	Multifunctional armrests	
	Pressurised cabin	
	Steering wheel control	
	30° tiltable cab	
	Sun protection packages	



Powerful LED spotlight on the cab

UNDERCARRIAGE MOBILE	
MP21 mobile undercarriage with integrated 4-point outrigger, steering axle with automated pendulum axle, pendulum axle cylinder with pipe fracture safety valve, allwheel drive powered by an adjustable hydraulic motor with external, automatically actuated brake valve and 2-stage power shift transmission, planetary axles with integrated steering cylinders, 1-way accelerator pedal, service brake with 2-circuit system, multi-disc brake as parking brake	
TIRE TYPE	8 x 10.00-20
BRAKES	hydraulic
TRAVEL SPEED	0-20 km/h, variable
OPTIONS	up to 0.5 m pylon
	Stabilizer blade
	Support plate

UNDERCARRIAGE CRAWLER	
R25/240 crawler undercarriage in stable, torsionally rigid box construction with hydraulic travel drive, hydraulically ventilated, spring-loaded multi-disc brake as parking brake	
TRAVEL SPEED	0-2.4 km/h
OPTIONS	up to 0.5 m pylon
	700 mm triple grouser shoes

TECHNICAL DATA, EQUIPMENT

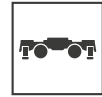
EQUIPMENT	
RANGE	up to 10 m
CYLINDER	Hydraulic cylinders with high-quality sealing and guide elements, end position-damping, sealed mounting points
DRIVER ASSISTANCE SYSTEM	Adjustable height and radius limits
OPTIONS	LED lighting
	Stick mounted camera
	Equipment type "ULM" with tipping kinematics
	Boom damping

OPERATING WEIGHT	
MASS	Mobile
	23.0 t with MP21 and K9 incl. attachment
	Crawler
	25.3 t with R25/240 and K9 incl. attachment
NOTE	The kerb weight varies depending on the specification and attachments.



Excellent access to all components via stairs and access ramps

LOAD RATINGS K9 (MOBILE)



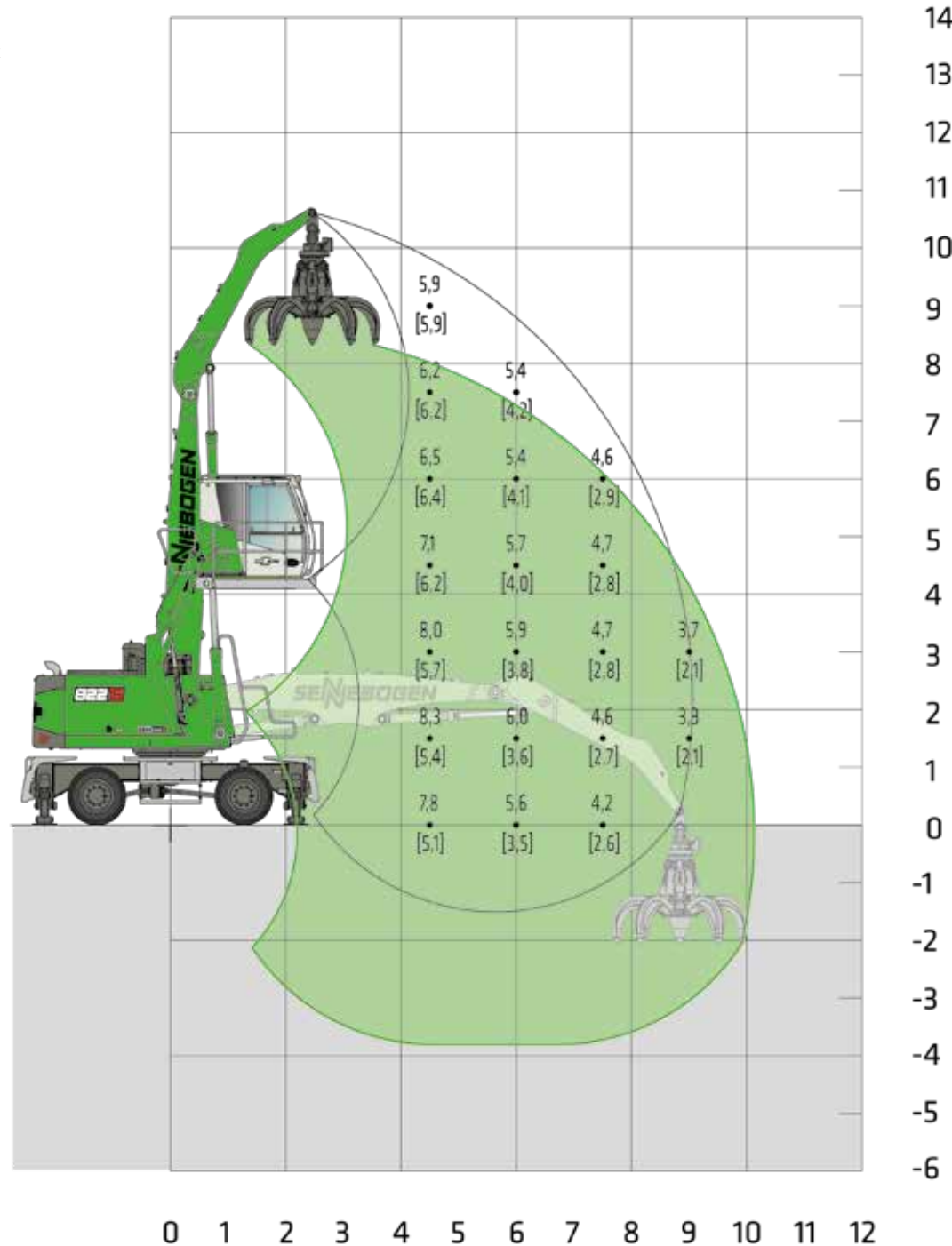
MP21



MAXCAB
2.80 m elevating (G280)



5.3 m boom
3.8 m grab stick



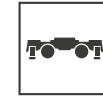
Machine shown
in mirror image

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Notes:

All load ratings are given in tons (t) brought to bear at the end of the stick, without tools on firm level ground. Working tools such as grab, magnet, load hook etc. are included in the specified load ratings. The stated values are 75 % of the static tipping load or 87 % of the hydraulic lifting force according to ISO10567. According to EU standard EN 474/5, hydraulic material handlers used for hoisting must be equipped with a pipe rupture safety device on lifting and stick cylinders and an overload warning device. Load ratings apply to a machine with 4-point outrigger and for 360° slewing. The load ratings in brackets [] apply when the oscillating axle is blocked, unsupported, (free-standing) and for 360° slewing.

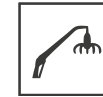
LOAD RATINGS K9 ULM (MOBILE)



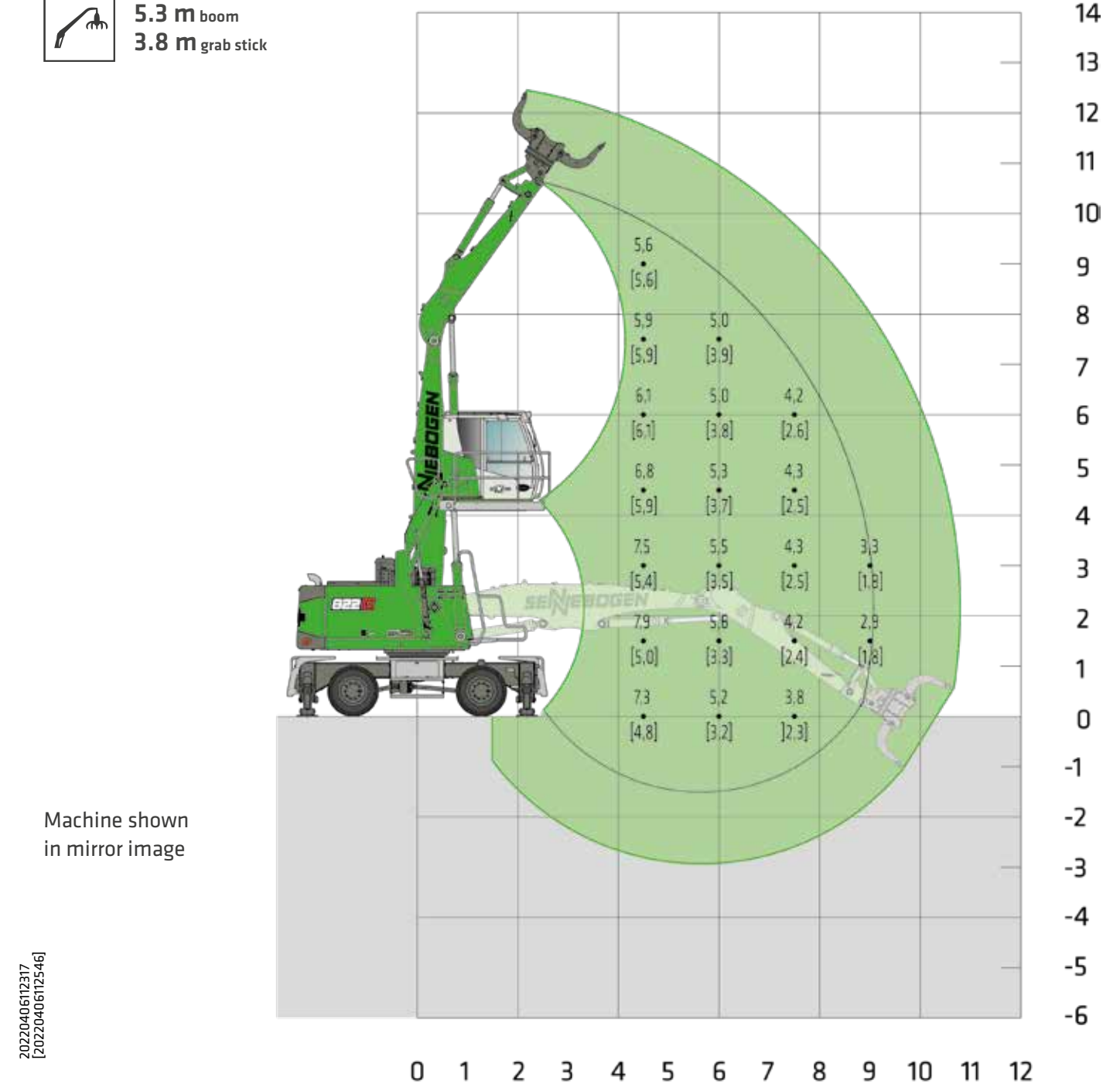
MP21



MAXCAB
2.80 m elevating (G280)



5.3 m boom
3.8 m grab stick



Machine shown
in mirror image

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Notes:

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LOAD RATINGS K10 (MOBILE)



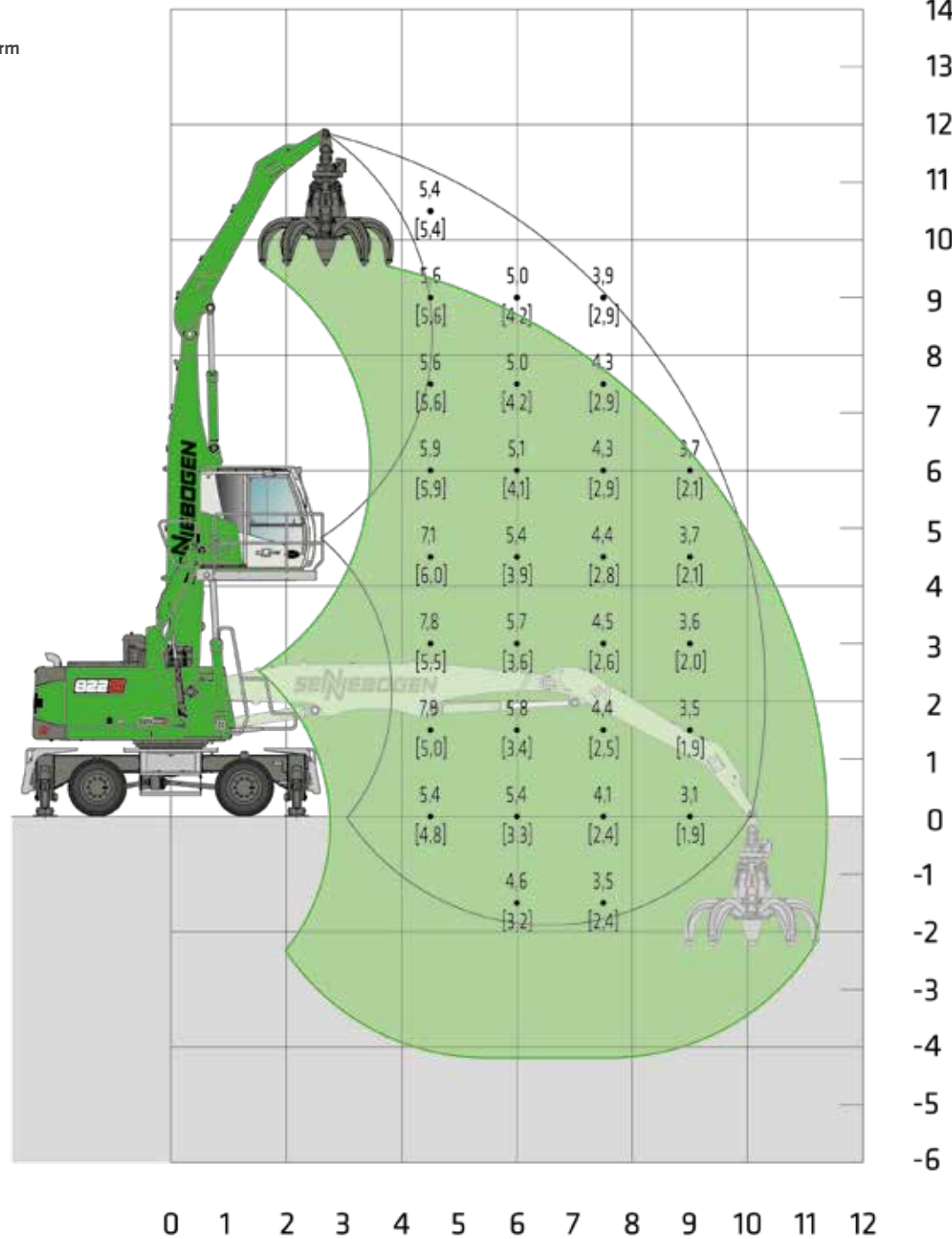
MP21



MAXCAB
2.80 m elevating (G280)



6.2 m boom
4.2 m grapple arm

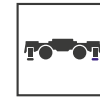


Machine shown
in mirror image

Notes:

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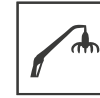
LOAD RATINGS K10 ULM (MOBILE)



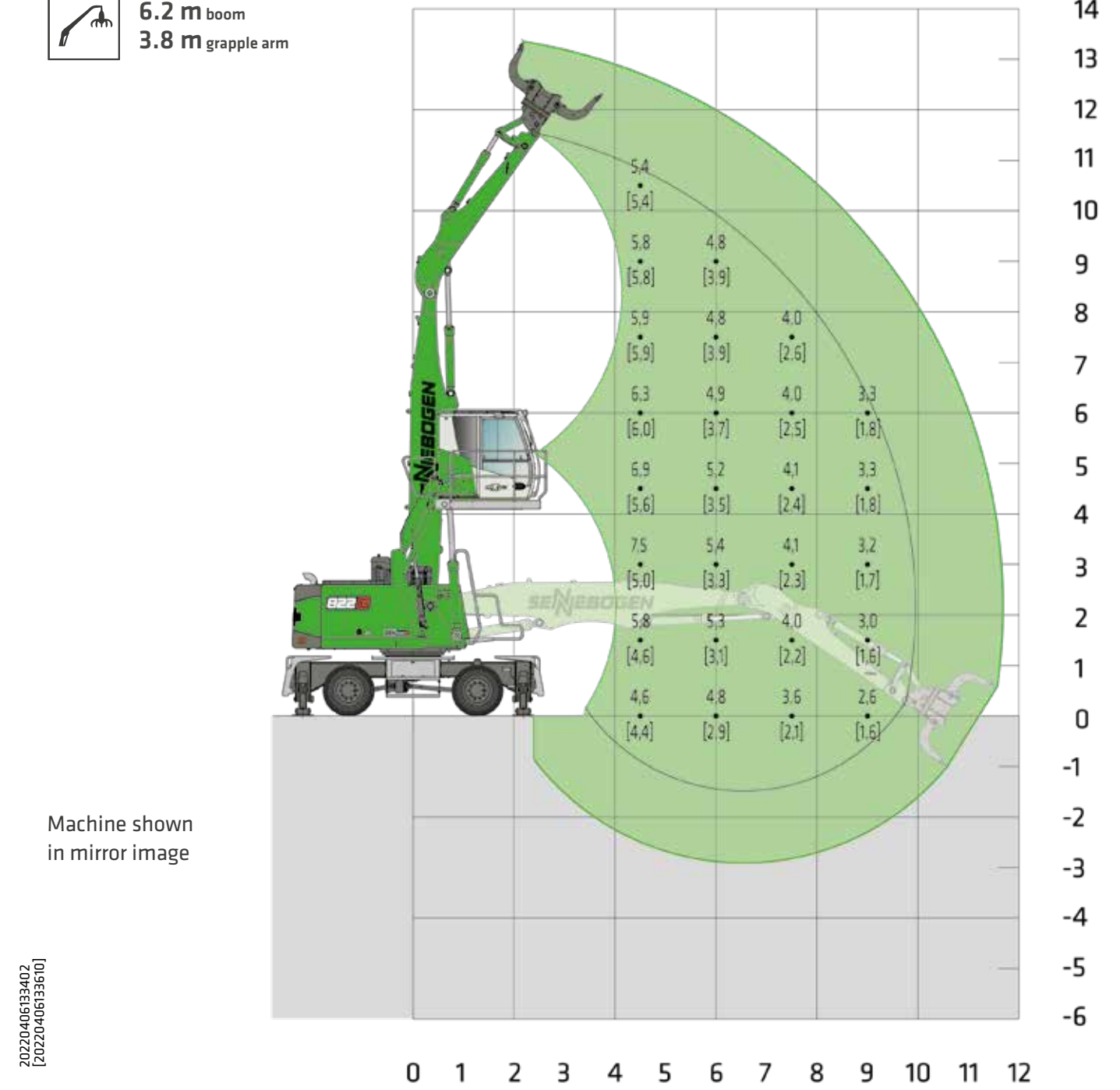
MP21



MAXCAB
2.80 m elevating (G280)



6.2 m boom
3.8 m grapple arm

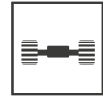


Machine shown
in mirror image

Notes:

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LOAD RATINGS K9 (CRAWLER)



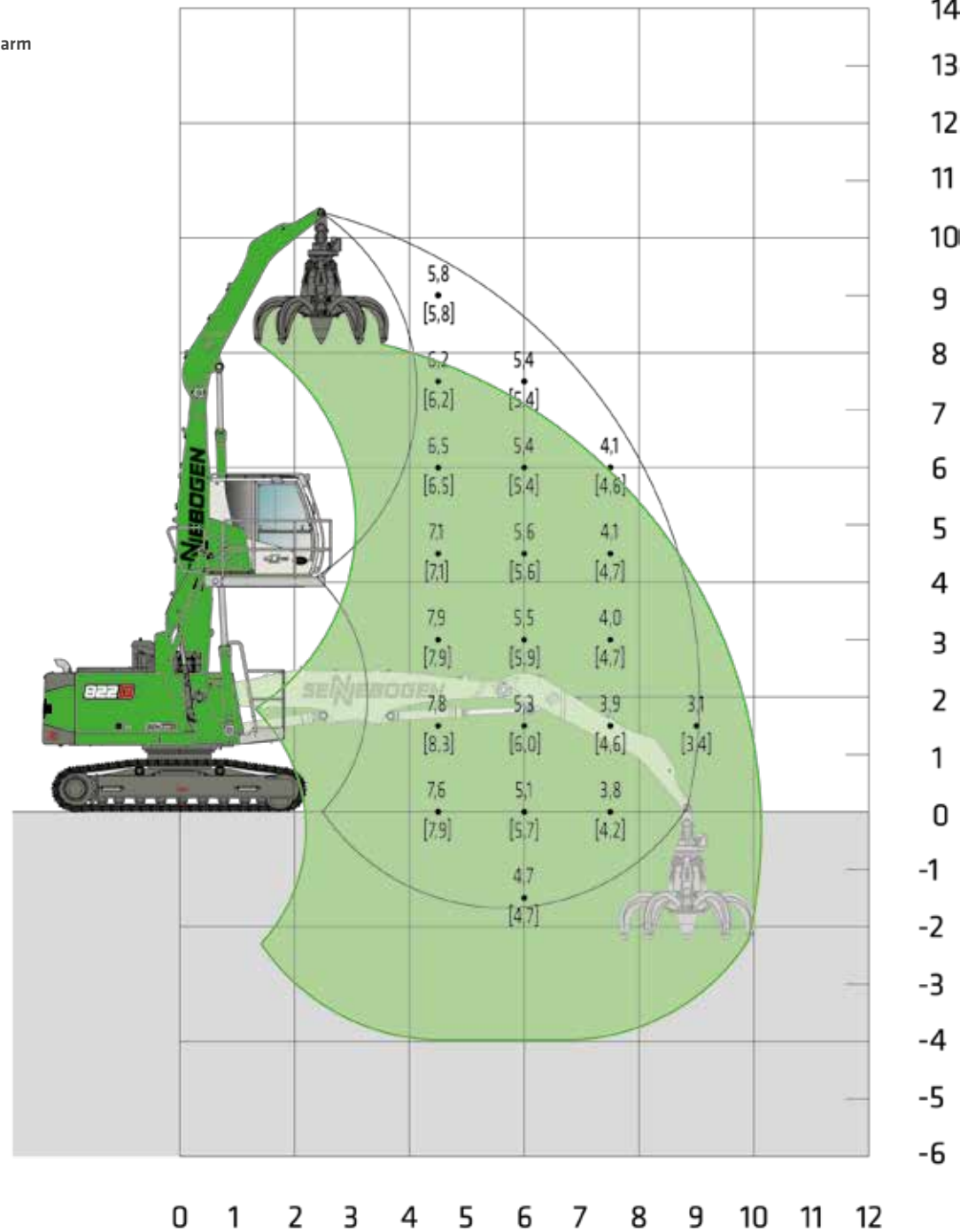
R25/240



MAXCAB
2.80 m elevating (G280)



5.3 m boom
3.8 m grapple arm



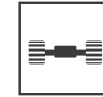
Machine shown
in mirror image

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Notes:

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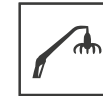
LOAD RATINGS K9 ULM (CRAWLER)



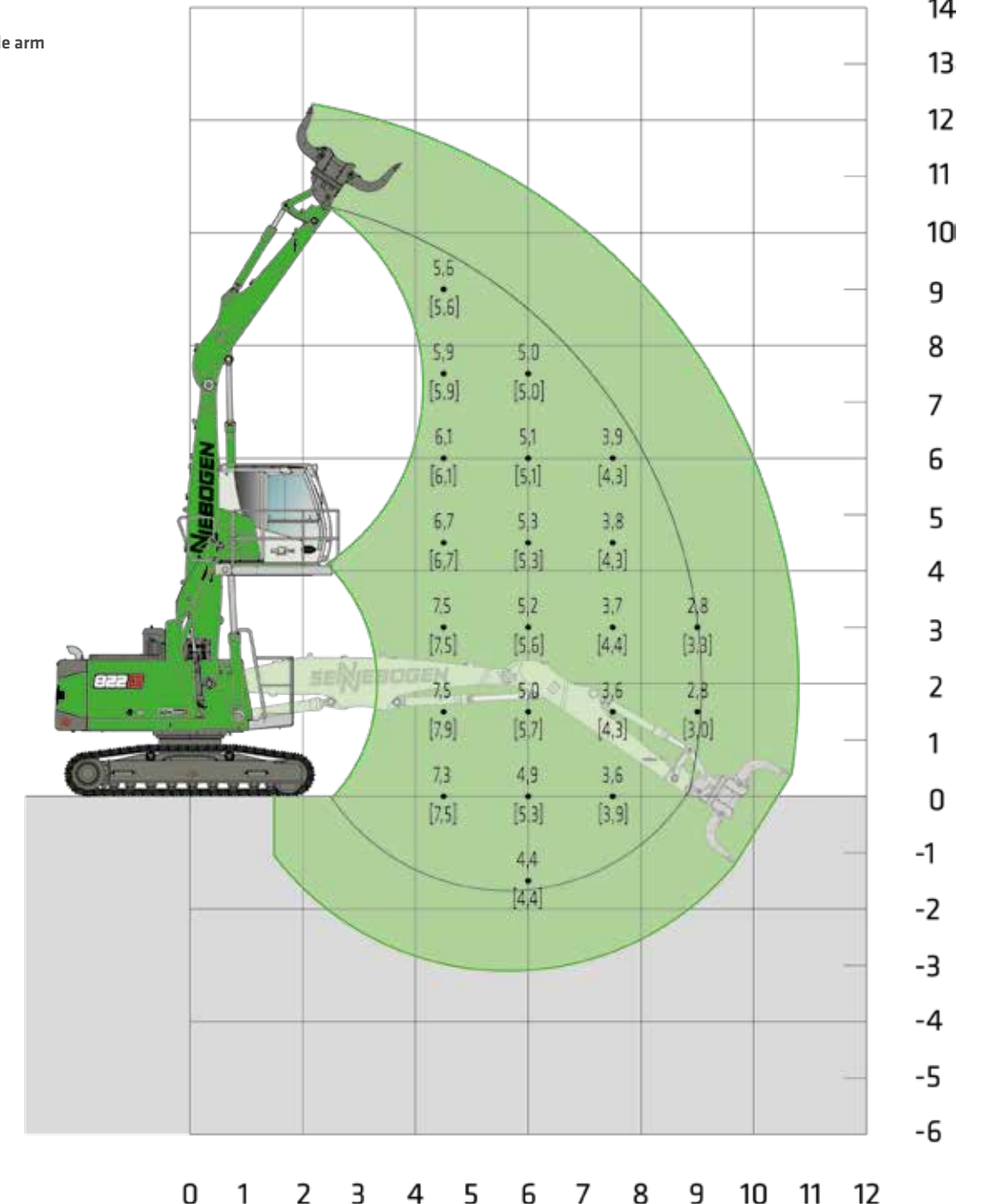
R25/240



MAXCAB
2.80 m elevating (G280)



5.3 m boom
3.8 m grapple arm



Machine shown
in mirror image

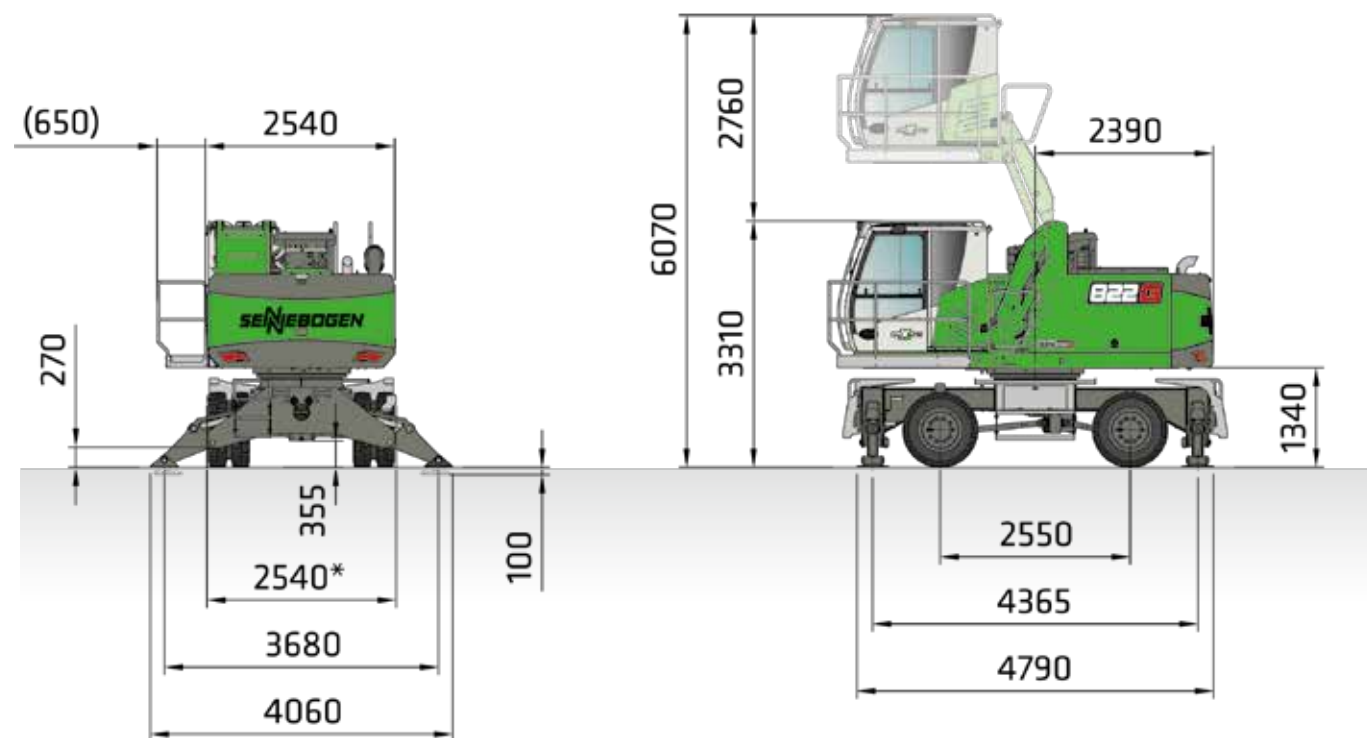
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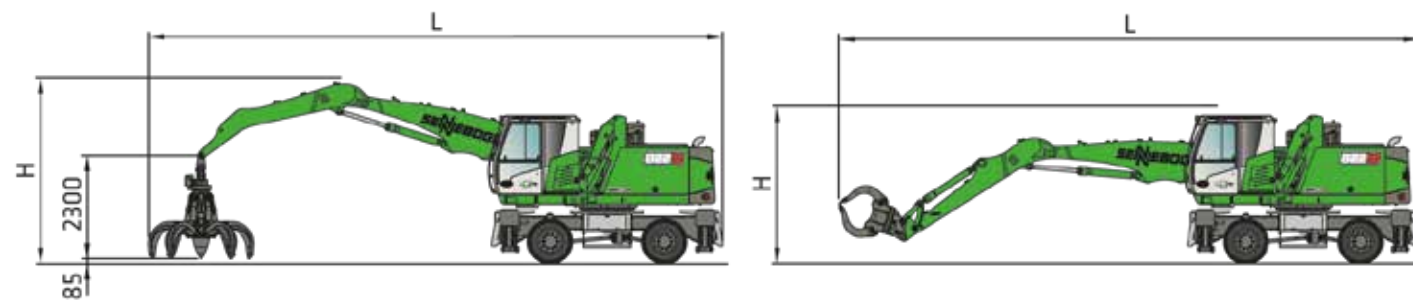
DIMENSIONS MOBIL

* = Transport width



822 G WITH MP21 MOBILE UNDERCARRIAGE AND G280 HYDRULICALLY ELEVATING CAB (STANDARD), SOLID RUBBER TYRES 10.00-20 (8-PLY)

VERTICAL CLEARANCE WITH 600 L ORANGE PEEL GRAB VERTICAL CLEARANCE WITH 450 L SORTING GRAB

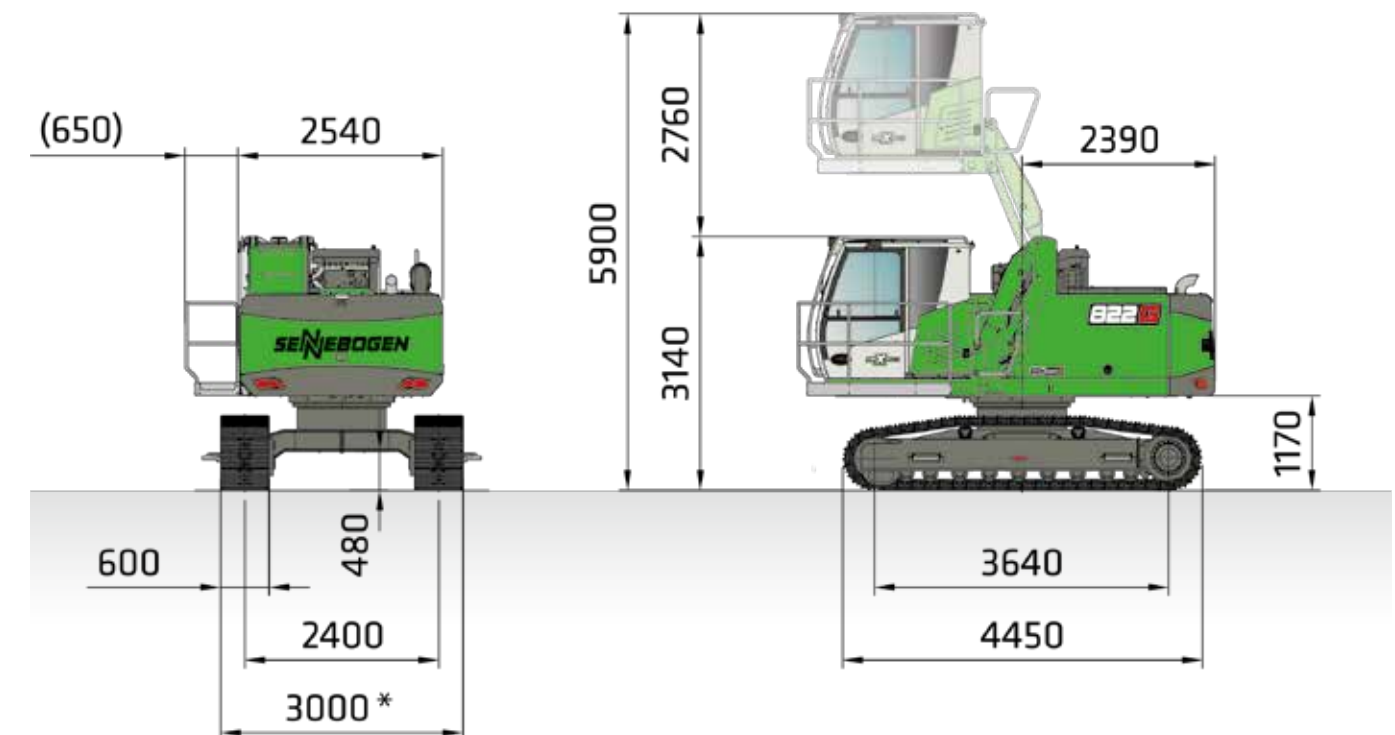


	COMPACT BOOM	GRAB STICK	PASSAGE LENGTH (L)	VERTICAL CLEARANCE (H) ORANGE PEEL GRAB	VERTICAL CLEARANCE (H) SORTING GRAB
K9	5,3 m	3,8 m	13,0 m	approx. 4.3 m	-
K9 ULM	5,3 m	3.8 m microlight	13,0 m	approx. 4.3 m	approx. 3.5 m
K10	6,2 m	4,2 m	14,0 m	approx. 4.5 m	-
K10 ULM	6,2 m	3.8 m microlight	14,0 m	approx. 4.5 m	approx. 3.5 m

Further transport dimensions available on request

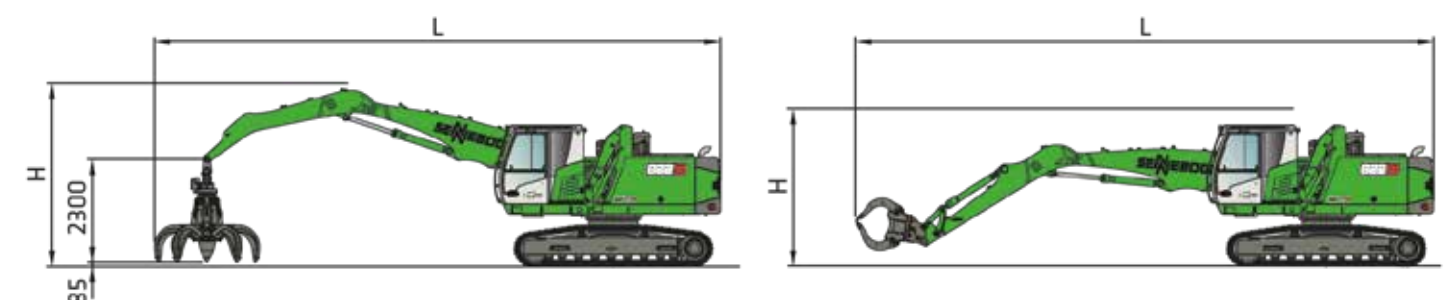
DIMENSIONS CRAWLER

* = Transport width



822 G WITH R25/240 TRACKED UNDERCARRIAGE AND G280 HYDRAULICALLY ELEVATING CAB (STANDARD)

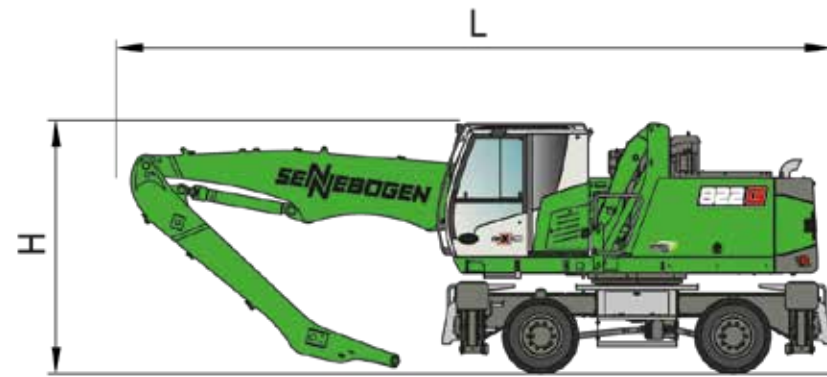
VERTICAL CLEARANCE WITH 600 L ORANGE PEEL GRAB VERTICAL CLEARANCE WITH 450 L SORTING GRAB



	COMPACT BOOM	GRIPPER HANDLE	PASSAGE LENGTH (L)	VERTICAL CLEARANCE (H) ORANGE PEEL GRAB	VERTICAL CLEARANCE (H) SORTING GRAB
K9	5,3 m	3,8 m	13,0 m	approx. 4.3 m	-
K9 ULM	5,3 m	3.8 m microlight	13,0 m	approx. 4.3 m	approx. 3.5 m
K10	6,2 m	4,2 m	14,0 m	approx. 4.4 m	-
K10 ULM	6,2 m	3.8 m microlight	14,0 m	approx. 4.3 m	approx. 3.5 m

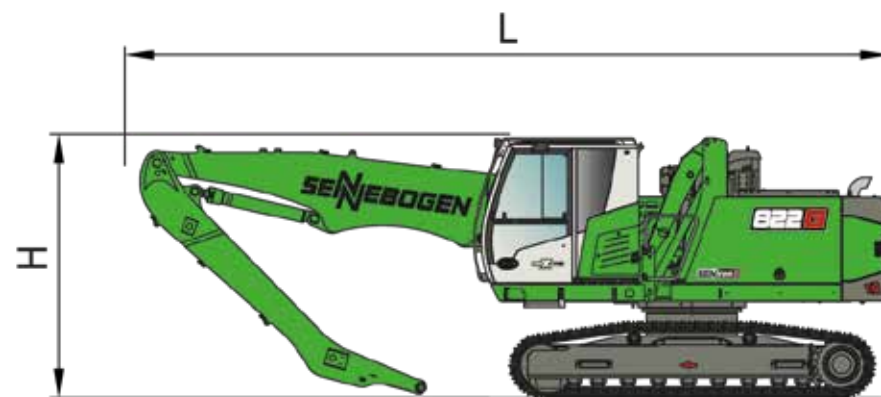
Further transport dimensions available on request

TRANSPORT DIMENSIONS MOBILE/CRAWLER



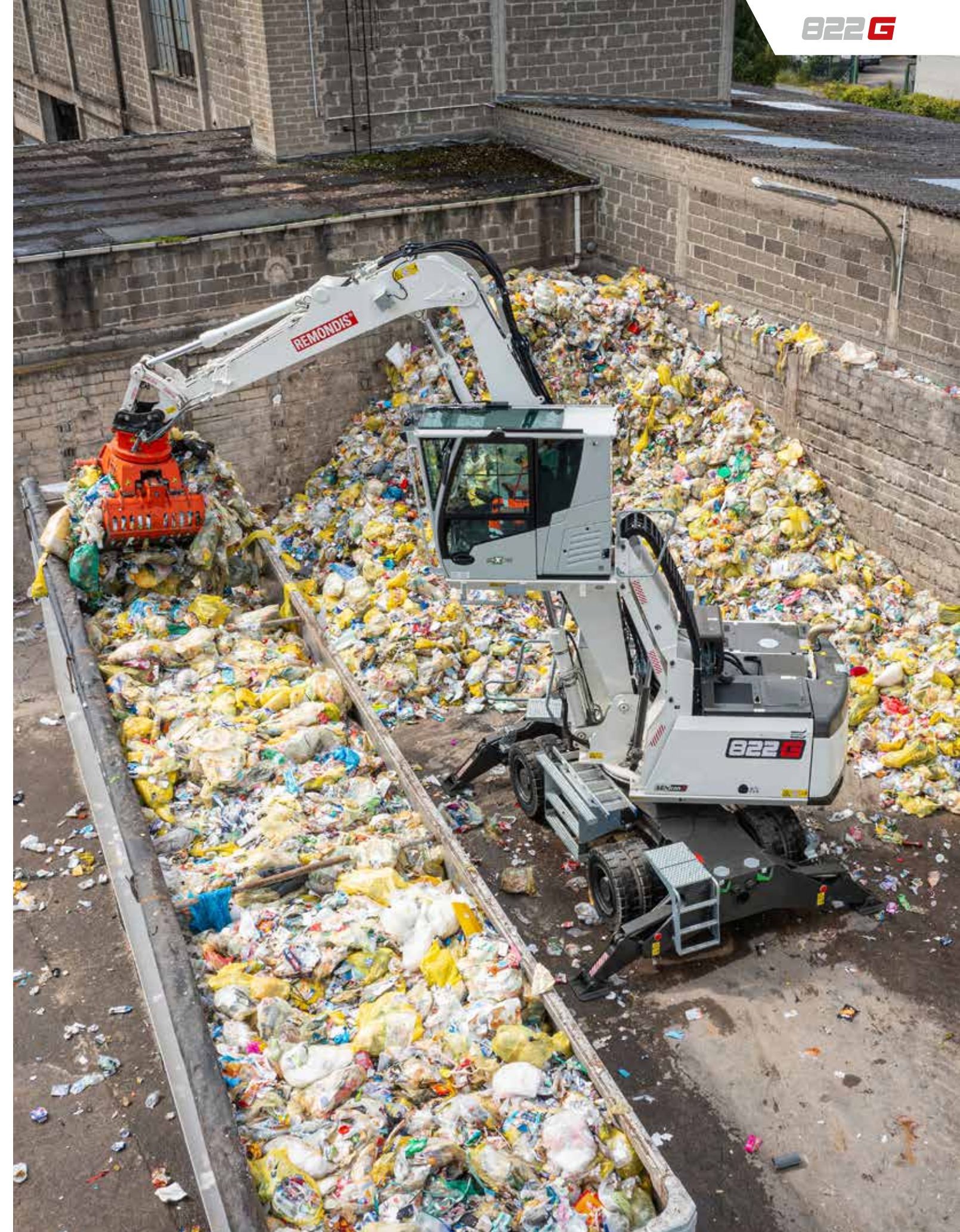
822G TRANSPORT DIMENSIONS MP21

	COMPACT BOOM	GRAB STICK	TRANSPORT LENGTH (L)	TRANSPORT HEIGHT (H)
K9	5.3 m	3.8 m	8.6 m	3.35 m
K9 ULM	5.3 m	3.8 m microlight	8.6 m	3.35 m
K10	6.2 m	4.2 m	9.6 m	3.35 m
K10 ULM	6.2 m	3.8 m microlight	9.6 m	3.35 m



822G TRANSPORT DIMENSIONS R25/240

	COMPACT BOOM	GRAB STICK	TRANSPORT LENGTH (L)	TRANSPORT HEIGHT (H)
K9	5.3 m	3.8 m	8.5 m	3.25 m
K9 ULM	5.3 m	3.8 m microlight	8.5 m	3.25 m
K10	6.2 m	4.2 m	9.5 m	3.25 m
K10 ULM	6.2 m	3.8 m microlight	9.5 m	3.25 m





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in Germany

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worldwide

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handlers



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4-6 t

Balancer
130-300 t

Material handler
17-460 t

Duty cycle crane
30-300 t

Crawler crane
50-300 t

Telescopic crane
16-200 t

Port crane
300 t

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