Mobile material handling machine

- 164 kW (Stage IIIa)
- 168 kW (Stage V)
- 132 kW (Electro)
- 38 - 43.5 t
- 14 - 17 m
Advanced. The E-Series

What makes up the E-Series

- More than 65 years of experience in designing and constructing hydraulic material handling machines
- Uncompromisingly high performance in all areas: Focus on material handling
- Technology that can be mastered: High-quality components without over-engineering
- Long product service life and high value retention

1962: rope-driven S833 with elevated operator cab

Your top benefits

1. **Green Efficiency**
   - Safe fuel - reduce operating costs
   - Work quietly - protect operator and environment

2. **Peak performance**
   - Durable mechanical systems - stressed parts optimized
   - High speeds - high load capacities

3. **Maximum usability**
   - Comfortable Maxcab operator cab - relaxed work
   - SENCON - work program selection made easy

4. **Maximum safety**
   - Safe entry and exit - no-slip steps
   - State-of-the-art camera - entire work area in view

5. **Maintenance and service made easy**
   - SENNEBOGEN Control System SENCON - easy diagnosis
   - Easy Maintenance - clear labeling

6. **Consultation and support in your area**
   - 3 production sites - 2 subsidiaries
   - more than 150 sales partners - worldwide and also in your area
Subject to technical changes. Further options available upon request.
Four ways to save fuel

- Up to 20% savings: working in Eco Mode with reduced engine speed
- Idle automation reduces speed to 40% of operating speed
- Stop automation switches the engine off when not needed
- Optimized settings of engine and hydraulics reduces fuel consumption

Quiet operation

- Consistently quiet operation thanks to decoupled engine mounts and soundproofing in the doors
- Soundpower level according to 2000/14/EC up to 2 dB lower than required

High-capacity cooling

- Constant, reliable performance thanks to large-dimensioned and robust fans and coolers
- Water and oil coolers with top-notch efficiency thanks to axial-piston pump and motor control and ondemand thermostatic control
- Fan reversal for cleaning in series
Maximum safety

- No-slip work surfaces
- Hand rails*
- 2 cameras to the right and rear
- Platform with railing next to cab sliding door

Powerful hydraulic system

- Strong pumps with power reserves
- Top efficiency thanks to large-dimensioned hydraulic valves and lines
- Extra-long change intervals of 4,000 operating hours through initial fill-up with special oil with extended service life when using SENNEBOGEN HydroClean*

Subject to technical changes. Further options available upon request. * Option
The premium cab.

Features

- optimum cab climate with automatic air conditioning system, partial tinted glass
- pleasant and equal temperature dispersion by means of 9 nozzles
- panoramic view
- comfort seat with air suspension
- very quiet through optimized noise insulation
- highest safety & comfort with sliding door, wide door opening
- ergonomically arranged operating controls for fatigue-free and relaxed working
- 12 V, 24 V, and USB charging sockets, hands-free telephone preparation, document box
- various options: electric cool box behind driver’s seat, seat air conditioning

SENNEBOGEN joysticks

- consoles and ergonomic joysticks that move with the seat
- pleasant grip through ergonomic design
- precise control of all movements through direct and sensitive function activation
- quick access to all operating controls through optimized design of all push-buttons and switches
SENNEBOGEN HydroClean*
- Optimal protection of hydraulic components thanks to 3 µm micro-filter
- Cleaner hydraulic oil, longer oil service life

Central measuring points
- Easily accessible
- Inspect the entire hydraulic system quickly

Clear labeling
- All parts labeled with a unique part number
- Easy and reliable spare parts ordering

Optimized for maintenance
- Fast and easy diagnostics thanks to the clearly labeled electrical distributor
- Easy accessibility to all service points of the machine
- Automatic central lubrication for equipment and slewing gear raceway
Additional information on our crawler undercarriages can be found in the 830 R E-Series brochure.
Advantages at a glance

- High load capacities even when fully extended, thanks to massive cylinders
- Better illumination of the work area through powerful LED headlights*
- Safe entry and exit thanks to railings*, grip handles and no-slip steps
- High stability due to the broad outrigger area
- Ideal overview and safe working height thanks to stable cab elevation
- Reliable operation through robust and FEM-optimized equipment
- Sliding door for convenient entry and exit
- Safe entry and exit thanks to platform with railing
- Robust side cover made of recyclable sheet steel

* Option
## MACHINE TYPE

| Model (type) | 830 |

## ENGINE

### Power
- **Stage V:**
  - Rated Power: 168 kW at 2200 rpm
  - 188 kW at 1900 rpm
- **Stage IIIa:**
  - Rated Power: 164 kW at 2000 rpm
  - 172 kW at 1800 rpm

### Model
- Cummins 6.7

### Cooling
- Water-cooled

### Diesel filter
- with water separator and heating system

### Air filter
- Dry filter with integrated pre-separator, automatic dust discharge, main element and safety element, contamination indicator

### Fuel tank
- 450 l

### DEF tank
- 45 l

### Electr. system
- 24 V

### Batteries
- 2 x 150 Ah, main switch

### Options
- Engine block heater for temperatures below -20 °C
- Electric fuel pump
- Jump-start battery terminals

## UPPERCARRIAGE

### Design
- Torsion-resistant box design, precision crafted, steel bushings for boom bearings. Extremely service-friendly design, longitudinal engine

### Central lubrication
- Automatic central lubrication for equipment and slewing gear

### Electrical system
- Central electrical distributor, battery disconnect switch

### Cooling system
- 3-circuit cooling system with high cooling output, thermostatically regulated fan drive for oil cooler and water cooler, fan reversal for cleaning

### Options
- Slewing gear brake via foot pedal
- Hand rail at the upper structure for additional safety
- LED lighting packages
- Fire extinguisher
- Sea climate resistant coating
- Electric heater for hydraulic tank

## HYDRAULIC SYSTEM

### Load sensing / LUDV hydraulic system for hydraulic, pilot-controlled work functions

### Pump type
- Swashplate-type variable-displacement piston pump, load pressure-independent flow distribution for simultaneous, independent control of work functions

### Pump control
- Zero-stroke control, on-demand flow control - the pumps only pump as much oil as will actually be used, pressure purging, load limit sensing control

### Delivery rate
- 520 l/min

### Operating pressure
- max. 350 bar

### Filtration
- High-performance filtration with long change interval

### Hydraulic tank
- 310 l

### Control system
- Proportional, precision hydraulic actuation of work movements, 2 hydraulic servo joysticks for the work functions, additional functions via switches and foot pedals

### Safety
- Hydraulic circuits secured with safety valves, emergency lowering of the equipment at engine standstill, pipe fracture safety valves for lift cylinder and stick cylinder

### Options
- Bio-oil – environmentally friendly
- ToolControl for programming pressure/rate for up to 10 tools
- Additional hydraulic circuit for shear attachment
- Load moment warning with capacity utilization indicator
- Overload safeguard with overload shutdown
- 3 μm hydraulic micro-filter - SENNEBOGEN HydroClean

## SLEWING DRIVE

### Gearbox
- Compact planetary gear with bent-axis hydraulic motor, integrated brake valves

### Parking brake
- Spring-loaded multi-disk brake

### Slewing ring
- Strong slewing ring, sealed

### Slewing speed
- 0-8 rpm, variable

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Subject to change.
**EQUIPMENT**

**Design**
Decades of experience, state-of-the-art computer simulation, highest level of stability, longest service life, large-dimensioned and low-maintenance bearing points, sealed special bearing bushes, precision-crafted, quick-release couplings on the connections - open/close/rotate grapple

**Cylinders**
Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed bearing points

**Options**
- Ball valves on the hydraulic lines - open and close grab
- Nickel-plated and chrome-plated
- Float position of the equipment
- Hoisting limiter / stick limitation adjustable for stop settings, e.g. in the hall
- Multi-coupling

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**UNDERCARRIAGE**

**Design**
Strong mobile undercarriage with integrated 4-point outriggers, steering axle as hydraulically locking pendulum axle, pendulum axle cylinder with pipe fracture safety valves

**Drive**
All-wheel drive powered by a variable-displacement hydraulic motor with direct-mounted, automatically actuated brake valve and 2-stage power shift transmission, strong planetary axles with integrated steering cylinders, service brake in 2-circuit system

**Parking brake**
Spring-loaded multi-disk brake

**Tires**
- **M:** solid-rubber tires 12.00-20, 8x
- **MHD:** solid-rubber tires 12.00-20, 8x
- **MHDS:** solid-rubber tires 16.00-25, 4x
- **Trailer:** pneumatic tires 650/65-R25, 4x

**Speed**
- 0 - 7 km/h stage I
- 0 - 20 km/h stage II
- Trailer 25 km/h

**Options**
- **MHD:** pneumatic tires 12.00-20, 8x
- **MHDS:** pneumatic tires 20.50-R25, 4x
- Additional pushing blade for 4-point outriggers
- Individual outrigger actuation
- Protection for travel drive, shunting coupling

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**ELECTRIC DRIVE**

**Option**
- **Power:** 132 kW / 400 V / 50 Hz
  - Total connected load 270 kVA, machine fusing 315 A at 400 V - motor start-up via star-delta circuit
  - Alternative power: 160 kW / 400 V / 50 Hz
  - Advantages: lowest operating costs, quiet and virtually vibration-free work, long service life of hydraulic components

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**OPERATING WEIGHT**

**Mass**
- **830 M** with MP30E, operating equipment K17 and grab 600 l approx. 38,500 kg
- **830 MHD** with MP41, operating equipment K17 and grab 600 l approx. 40,000 kg

**Notice**
The operating weight varies depending on the model.

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**Subject to change.**
All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grabs, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474 / 5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist and stick cylinders and an overload warning device. Loads rating apply to a machine with deployed 4-point outrigger support and 360° slewing.
Load ratings

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grabs, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474 / 5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist and stick cylinders and an overload warning device. Loads rating apply to a machine with deployed 4-point outrigger support and 360° slewing.

Technical features and dimensions subject to change.
Load ratings

Undercarriage MP30 Compact boom Grab stick 9.4 m Banana 7.0 m Cab Maxcab E300/260, can be elevated and moved forward hydraulically (option)

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grabs, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474 / 5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist and stick cylinders and an overload warning device. Loads rating apply to a machine with deployed 4-point outrigger support and 360° slewing.
Load ratings

Undercarriage MP30
Compact boom 8.5 m 6.0 m ULM Cab Maxcab E270, hydraulically elevating

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grabs, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474 / 5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist and stick cylinders and an overload warning device. Loads rating apply to a machine with deployed 4-point outrigger support and 360° slewing.

Technical features and dimensions subject to change.
830 M with undercarriage type MP30 (series) and hydraulically elevating cab type E270

<table>
<thead>
<tr>
<th>Load boom</th>
<th>Grab stick</th>
<th>Transport length (L)</th>
<th>Transport height (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K15</td>
<td>8.5 m</td>
<td>12.45 m</td>
<td>3.45 m</td>
</tr>
<tr>
<td>K17</td>
<td>9.8 m</td>
<td>13.75 m</td>
<td>3.75 m</td>
</tr>
<tr>
<td>B16</td>
<td>9.4 m Banana</td>
<td>13.40 m</td>
<td>3.50 m</td>
</tr>
<tr>
<td>K14 ULM</td>
<td>8.5 m</td>
<td>12.45 m</td>
<td>3.40 m</td>
</tr>
</tbody>
</table>

Dimensions in [mm]

Technical features and dimensions subject to change.
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**Undercarriage** | **MP41** | **Compact boom** | **8.5 m** | **Grab stick** | **7.0 m** | **Cab** | **Maxcab E270, hydraulically elevating**
--- | --- | --- | --- | --- | --- | --- | ---

Technical features and dimensions subject to change.
Load ratings

MHD / MHDS

Technical features and dimensions subject to change.

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Machine shown reversed

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grabs, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474 / 5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist and stick cylinders and an overload warning device. Loads rating apply to a machine with deployed 4-point outrigger support and 360° slewing.

Technical features and dimensions subject to change.
Load ratings

MHD / MHDS

K14 ULM

Machine shown reversed

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<tr>
<th>Undercarriage</th>
<th>MP41</th>
<th>Compact boom</th>
<th>8.5 m</th>
<th>6.0 m ULM</th>
<th>Cab</th>
<th>Maxcab E270, hydraulically elevating</th>
</tr>
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Technical features and dimensions subject to change.
830 MHD with undercarriage type MP41, hydraulically elevating Maxcab type E270, tires 12.00 - 20, 8x, transport width 3,000 mm, working weight with boom K17, 600 l orange peel grab, approx. 40,000 kg

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<td>K14 ULM</td>
<td>8.5 m</td>
<td>6.0 m</td>
<td>12.5 m</td>
</tr>
</tbody>
</table>

Technical features and dimensions subject to change.
830 MHDS with undercarriage type MP34, Maxcab can be elevated hydraulically, tires 16.00 - 25, 4x, transport width 3000 mm, working weight with boom K17, 600 l orange peel grab, approx. 41,000 kg

<table>
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<th>Transport height (H)</th>
</tr>
</thead>
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<td>8.5 m</td>
<td>12.5 m</td>
<td>3.7 m</td>
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<tr>
<td>K17</td>
<td>9.8 m</td>
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<tr>
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</tr>
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<td>K14 ULM</td>
<td>8.5 m</td>
<td>12.5 m</td>
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<tr>
<td></td>
<td></td>
<td>6.0 m</td>
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</table>
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Technical features and dimensions subject to change.
Transport width 3,400 mm, extremely high pulling force for pulling heavy trailers

Pneumatic tires 650/65-R25, 4x

830 trailer, operating weight with boom K14, 1.5 sqm log grab, approx. 43,500 kg

Technical features and dimensions subject to change.
From a high-performance handling machine to a multi-functional high-performance tool carrier

- Stick / shear can be supported without support frame
- Automatic valve protection in coupled and decoupled state
- Effective change of the attachment: simple – fast – reliable
- Full power with:
  - Orange peel grab
  - Shear
  - Magnet
  - Sorting grab
- Fast and reliable changing of the attachment in seconds from the driver seat
- One basic system for different attachments
- Robust and intelligently simple
- Locking and changing the attachments without exiting
- Maximum versatility
- The material handling machine as a tool carrier
- The "VarioTool" quick changing system for material handling changes attachments fast and reliably

Technical features and dimensions subject to change.
Load ratings

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Recommended grapples

Orange peel grab SGM (4 shells)

<table>
<thead>
<tr>
<th>Design / size</th>
<th>Grapple capacity</th>
<th>Weight 1</th>
<th>Maximum piled density</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGM</td>
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<tr>
<td>400.40-4</td>
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<td>1850</td>
<td>2200</td>
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</table>

Orange peel grab SGM (5 shells)

<table>
<thead>
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<th>Design / size</th>
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<th>Weight 1</th>
<th>Maximum piled density</th>
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<tr>
<td>SGM</td>
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SGZ clamshell grab

<table>
<thead>
<tr>
<th>Design / size</th>
<th>Grapple capacity</th>
<th>Weight 1</th>
<th>Maximum piled density</th>
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<tbody>
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Magnetic plates

<table>
<thead>
<tr>
<th>Type series / model</th>
<th>Power</th>
<th>Weight</th>
<th>Breakaway force</th>
<th>Load-bearing capacity in kg</th>
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<tbody>
<tr>
<td>WOKO</td>
<td>kW</td>
<td>kg</td>
<td>kN</td>
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<tr>
<td>S-RSL 13</td>
<td>10.5</td>
<td>1300</td>
<td>260</td>
<td>13000</td>
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<td>S-RSL 15</td>
<td>12.2</td>
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<td>S-RLB 12.5</td>
<td>8.8</td>
<td>1310</td>
<td>280</td>
<td>14000</td>
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<tr>
<td>S-RLB 13.5</td>
<td>10.0</td>
<td>1700</td>
<td>300</td>
<td>15000</td>
</tr>
<tr>
<td>S-RLB 15</td>
<td>11.7</td>
<td>2400</td>
<td>380</td>
<td>19000</td>
</tr>
</tbody>
</table>

*Available upon request  1 Weight information without grapple suspension, stick bolts, hose system  2 Half-open shells: shell sheet steel width 400 mm, 500 mm for 1250 l capacity and higher

Recommended magnetic generator: 15 kW/20 kW

Detailed information on grabs, as well as log grabs, quick-release systems, and other attachments can be found in the "Attachments" brochure.
This catalog describes machine models, scopes of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines delivered by SENNEBOGEN Maschinenfabrik GmbH. Machine illustrations can contain optional equipment and supplemental equipment. Actual equipment may vary depending on the country to which the machines are delivered, especially in regard to standard and optional equipment and tolerances.

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Please contact your local SENNEBOGEN sales partner for information concerning the equipment variants offered. Requested performance characteristics are only binding if they are expressly stipulated upon conclusion of the contract. Delivery options and technical features are subject to change. Errors and omissions excepted. Equipment is subject to change, and rights of advancement are reserved.

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