817 E

92 kW (Tier IIIa / IV)
17.2-18.6 t
9 m

Mobile material handler
What makes up the E-Series

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

Your top benefits:

1. Green Efficiency
   - Save 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
   - MultiCab – work in comfort
   - SENCON – SENNEBOGEN Control System

4. Maximum safety
   - Safe entry and exit – no-slip steps
   - State-of-the-art cameras – entire work area in view (option)

5. Maintenance and service made easy
   - Easy fault diagnosis – central measuring points
   - Easy maintenance – clear labeling

6. Consultation and support in your area
   - 3 production sites – 2 subsidiaries
   - 130 sales partners – over 350 service stations
The E-Series. At a glance.

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 engine settings, reduced specific fuel consumption, state-of-the-art exhaust aftertreatment

Quiet operation

- Consistently quiet operation thanks to decoupled engine mounts and soundproofing in the doors
- Sound pressure level reduced by up to 4.5 dB; sound power 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
- Fans deliver optimum efficiency thanks to drive based on axial-piston pump. Temperature-controlled fan speed
Maximum safety

- Protective grating for cab*
- No-slip work surfaces ①
- Peripheral railing*
- 2 cameras to the right and rear* ②
- Optimized entry onto the uppercarriage ③

Powerful hydraulic system ⑥

- 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 high-performance oil, with extended service life when using SENNEBOGEN Hydro-Clean*
Equipment features

- optimum climatisation
- panoramic view with all-around glazing in safety glass, large roof window
- with heating/cooling system
- comfort seat adjustable according to weight and shock-absorbent
- ergonomically arranged operating controls
- various options: arm rest, auxiliary heating, seat climatisation, radio with Bluetooth

Our 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

Technical features and dimensions subject to change. Further options on request. * Option
Maintenance and service made easy

Optimized for maintenance

- Fast and easy troubleshooting thanks to straightforward and clearly labeled electrical distributor
- Easy access to all service points on the machine
- Automatic central lubrication for equipment and slewing gear raceway*

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Hydro Clean*
- Optimal protection of hydraulic components thanks to 3 µm micro-filter
- Cleaner hydraulic oil, longer service life

Central reading points
- Easily accessible, central reading points
- Quickly inspect entire hydraulic system

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

Technical features and dimensions subject to change. Further options on request. * Optional
Modular design – versatile solutions

Attachments
- Sorting grab
- Multi-shell grab
- Double shell grab
- Magnetic plate

Equipment options (others available upon request)
- K8
- K8 ULM
- K9
- K9 ULM

Cabs
- MultiCab E240

Cab elevation
- 2.40 m

Uppercarriage
- Diesel-hydraulic drive
- Electrohydraulic drive

Options
- Engine line drum
- Transformer

Undercarriage variants
- Mobile MP17
  - max. 0.5 m
- Crawler R17
  - max. 0.5 m
- 4-point-underframe ST17
  - max. 1.5 m
- Decades of experience
- State-of-the-art computer simulation
- Maximum stability and service life

Ideal illumination thanks to powerful LED headlights*

Ideal overview and safe working height thanks to stable cab elevation

Safety thanks to upper-carriage railing*

Robust side cover made from 100% recyclable sheet steel

High load capacities and fast working speeds for rapid sorting

Safe entry and exit Grip handles and non-slip steps

Excellent stability thanks to stable outrigger

* Option
## Technical Data, Equipment

### Machine Type

- **Model (type)**: 817

### Engine

- **Power**: 92 kW / 125 hp at 2,200 rpm
- **Model**: FPT NEF 45 Tier III/IV
  - Direct injection, turbo-charged, charge air cooler, reduced emissions, EcoMode, idle automation
- **Cooling**: Water-cooled
- **Air filter**: Dry air filter with cyclonic pre-filter, safety element, contamination indicator
- **Fuel tank**: 230 l
- **DEF tank**: 20 l
- **Electr. system**: 24 V
- **Batteries**: 2 x cold-start high-performance batteries
- **Options**:
  - Electric fuel pump
  - Jump-start terminals
  - Additional cyclone pre-separator

### Hydraulic System

- **Load-sensing/LUDV hydraulic system for work and travel 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 pump only pump as much oil as will actually be used, pressure purging, load limit sensing control
- **Operating pressure**: max. 310 bar
- **Delivery rate**: 250 l/min
- **Filtration**: High-performance filtration with long change interval
- **Hydraulic tank**: 190 l
- **Control system**: Proportional, precision hydraulic actuation of work movements, 2 joysticks for the work functions, additional functions via switches and foot pedals
- **Safety**: All hydraulic circuits are secured with safety valves, hydraulic cylinder for emergency release of the equipment and the cab when the engine is at a standstill
- **Options**:
  - Organic oil filling
  - ToolControl for programming the pressure/ rate for up to 10 tools
  - Load moment warning with capacity utilization indicator with/without shutdown
  - SENEBOGEN HydroClean 3 μm hydraulic microfilter system

### Upper Carriage

- **Design**: Torsion-resistant upper frame with end shields all the way from boom linkage to counterweight for optimized force transmission, precision-crafted, steel bushings for boom bearings, outstanding design, very low noise emissions
- **Electrical system**: Central electrical distributor, battery disconnect switch
- **Options**:
  - Slewing gear brake via foot pedal
  - Peripheral upper carriage railing for additional safety
  - LED lighting packages
  - Fire extinguisher
  - Special paint finish
  - Electric hydraulic tank preheater with upper carriage power socket
  - Low-temperature package (oils, battery heater, hydraulic oil preheater, cab preheater)
  - Magnetic generator 9 kW
  - Automatic central lubrication for equipment and slewing gear raceway
  - Additional ballast 0.5 t
  - Camera package right/rear

### Slewling Drive

- **Gearbox**: Planetary gearbox with axial piston motor and integrated brake valves
- **Parking brake**: Spring-loaded, hydraulically vented safety multi-disk brake
- **Slewing ring**: Oversized slewing ring
- **Slewing speed**: 0–8 rpm, variable. Hydraulic brake valves integrated in motor ensure wear-free braking.

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Technical features and dimensions subject to change.
### CAB MultiCab

**Cab type** 
MultiCab, can be elevated 2.40 m

**Cab equipment**
- Hydraulically elevating cab as standard
- Flexibly mounted comfortable cab with super sound insulation, joystick steering, all-round glazing in safety glass and large roof window
- Flexibly mounted comfortable seat, adjustable according to weight and shock-absorbent
- Variable, controllable cab heating with air circulation stage and particle filter
- Air conditioning

**Options**
- Auxiliary heating system with timer
- Protective roof grating
- FOPS protective roof grating
- Seat with active seat air conditioning
- Windshield, split, adjustable
- Polycarbonate side window panels
- Armored-glass sunroof
- Front windshield wiper, bottom and roof
- Sun blinds on roof and front
- Radio with USB and Bluetooth
- Protective ventilation system for cab
- Steering wheel control

### UNDERCARRIAGE

**Design**
Strong mobile undercarriage with 4-point claw support (option), steering axle as hydraulically locking pendulum axle. Pendulum axle cylinder with pipe-fraction 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 cylinder, multi-disc service brake.

**Parking brake**
- Spring-loaded multi-disc brake

**Tires**
- 8 x 9.00-20 solid rubber

**Speed**
- 0–5.5 kph Tier I, 0–18 kph Tier II

**Options**
- Individual outrigger actuation
- Additional pushing blade for 4-point outrigger (front or rear)
- 2-point claw support and stabilizer blade (front or rear)
- Protection for the travel drive
- Towing pintle
- Access ladder with tool box between wheels on both sides of undercarriage

### ATTACHMENTS

**Design**
Sealed and sealing-protected box design with oversized bearing points for long service life. Oversized bearing points with low-maintenance, sealed special bushings, precision-crafted

**Cylinders**
- Special hydraulic cylinder with hydraulic end position damping, optimized kinematics for high lifting power. The material handling attachment is specifically designed for high-performance applications.

**Options**
- Ball valves on the grab’s hydraulic cables
- Multi-coupling
- Adjustable hoistline limiter/stick limiter
- Automatic central lubrication system
- Pipe fracture safety devices for hoist/stick cylinder
- Capacity utilization display
- Cameras can be positioned anywhere
- Work area restriction with adjustable reach, height, and slewing angle
- Boom damping

### OPERATING WEIGHT

**Mass**
817 M with 4-point outrigger, K8 compact loading attachment and 500 l multi-shell grab

**Approx. 17,200 kg**

**Notice**
Operating weight varies by model and equipment.

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Technical features and dimensions 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 grapples, 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, material handlers used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device. Load ratings apply to a machine with deployed 4-point outrigger support and 360° slewing. Load ratings in square brackets [ ] apply to blocked pendulum axle, undeployed outriggers, free-standing, and 360° slewing.
Load ratings

Undercarriage: MP17
Compact boom, Dipper stick, 4.8 m, 3.3 m ULM
Cab, MultiCab E240, 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 grapples, 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, material handlers used for hoisting must be equipped with pipe fracture safety devices on the host cylinders and an overload warning device. Load ratings apply to a machine with deployed 4-point outrigger support and 360° slewing. Load ratings in square brackets [ ] apply to blocked pendulum axle, undeployed outriggers, free-standing, and 360° slewing.

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Technical features and dimensions subject to change.
**Transport dimensions**

**Transport width 2,540 mm**

817 M with type MP17 undercarriage and type E240 hydraulically elevating cab

817 M with undercarriage type MP17

<table>
<thead>
<tr>
<th>Compact boom</th>
<th>Dipper stick</th>
<th>Transport length (L)</th>
<th>Transport height (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K8</td>
<td>4,8 m</td>
<td>3,3 m</td>
<td>8,0 m</td>
</tr>
<tr>
<td>K8 ULM</td>
<td>4,8 m</td>
<td>3,3 m</td>
<td>8,0 m</td>
</tr>
<tr>
<td>K9</td>
<td>5,3 m</td>
<td>3,8 m</td>
<td>8,5 m</td>
</tr>
<tr>
<td>K9 ULM</td>
<td>5,3 m</td>
<td>3,8 m</td>
<td>8,5 m</td>
</tr>
</tbody>
</table>

Technical features and dimensions subject to change.

Dimensions in [mm]
Recommended grabs

**Sorting grab SGR**

<table>
<thead>
<tr>
<th>Design / size</th>
<th>Grab capacity</th>
<th>Weight(^1)</th>
<th>Max. load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGR</td>
<td>1</td>
<td>kg</td>
<td>t</td>
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<tr>
<td>800.20-L</td>
<td>300</td>
<td>710</td>
<td>4.0</td>
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</table>

**SGM multi-shell grab (5 shells)**

<table>
<thead>
<tr>
<th>Design / size</th>
<th>Grab capacity</th>
<th>Weight(^1)</th>
<th>Max. load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGM</td>
<td>1</td>
<td>kg</td>
<td>t</td>
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<tr>
<td>500.20</td>
<td>500</td>
<td>990</td>
<td>1085</td>
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</table>

**Double-shell grab SGZ**

<table>
<thead>
<tr>
<th>Design / size</th>
<th>Grab capacity</th>
<th>Weight(^1)</th>
<th>Max. load capacity</th>
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</thead>
<tbody>
<tr>
<td>400.20</td>
<td>400</td>
<td>620</td>
<td>t/m(^3)</td>
</tr>
<tr>
<td>600.20</td>
<td>600</td>
<td>660</td>
<td></td>
</tr>
</tbody>
</table>

**Magnetic plates**

<table>
<thead>
<tr>
<th>Type series / model</th>
<th>Power</th>
<th>Deadweight</th>
<th>Breakaway force</th>
<th>Load-bearing capacity in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOKO</td>
<td>kW</td>
<td>kg</td>
<td>kN</td>
<td>Slab (safety factor 2)</td>
</tr>
<tr>
<td>S-RLB 10</td>
<td>4.8</td>
<td>730</td>
<td>190</td>
<td>9500</td>
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<tr>
<td>S-RLB 11.5</td>
<td>5.5</td>
<td>1060</td>
<td>240</td>
<td>12000</td>
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<tr>
<td>S-RLB 12.5</td>
<td>8.8</td>
<td>1310</td>
<td>280</td>
<td>14000</td>
</tr>
</tbody>
</table>

Recommended magnetic generator: 9 kW

*\(^1\) Available upon request  \(^2\) Weight information without grapple suspension, stick bolts, hose system  \(^3\) Half-open shells: shell sheet steel width 400 mm, 500 mm wide for 1250 l capacity and higher*

Detailed information on grapples, as well as log grapples, quick-release systems, and other attachments can be found in the „Attachments“ brochure.
817 M 4-point outrigger

817 M 2-point outrigger with dozer blade

Maximum service accessibility

Safe and direct entry onto the uppercarriage
817E - modern material handler for fast and precise sorting works in waste management

817E - ideal for indoor use/truck loading with compact dimensions, elevating cab and LED-lighting
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