Long-front demolition material handler

- **164 kW (Stage IIIa)**
- **168 kW (Stage V)**
- **45 t**
- **17 m**
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

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 club - 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 fault diagnosis
   - Easy Maintenance - clear labeling

6. **Consultation and support in your area**
   - 3 production sites - 2 subsidiaries
   - more than 130 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
- Sound pressure level reduced by up to 4.5 dB; 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
**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*

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**Maximum safety**

- No-slip work surfaces
- 2 cameras to the right and rear
- Step grid with railing next to cab sliding door
- Protective front and roof grating

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Subject to technical changes. Further options available upon request.
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
- climatic comfort seat with air suspension and air conditioning*
- 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 cooler behind’s, protective covers, seat air conditioning

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

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

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

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

Optimized for maintenance
- Fast and easy diagnosis 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
Modular design

Attachments

- Demolition hammer
- Demolition grab
- Crusher
- Shovel

Long-front demolition equipment

18 m reach:
10.5 m compact boom
+ 7.1 m ULM-stick

Uppercarriage

- Maxcab
  - 30° tiltable
  - 2.70 m elevating cab

- Cab elevation

- Diesel-hydraulic drive

Undercarriage

- telescopic

Subject to technical changes. Further options available upon request.
Advantages at a glance

Various attachments available

Ideal overview and safe working height thanks to robust cab elevation, tiltable 30°

Safe entry and exit through railings, handles and no-slip steps

Telescopic crawler undercarriage

High stability due to the broad outrigger area

Extensive LED lighting concept

Various attachments available

Ideal overview and safe working height thanks to robust cab elevation, tiltable 30°

Safe entry and exit through railings, handles and no-slip steps

Telescopic crawler undercarriage

High stability due to the broad outrigger area

Extensive LED lighting concept
**MASCHINENTYP**

Model (type) 830

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**ENGINE**

**Power**

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

**Model**

Cummins 6.7

Direct injection, turbocharged, charge-air cooler, reduced emissions, EcoMode, automatic idle, auto-stop

**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

**AdBlue Tank**

45 l

**Electr. system**

24 V

**Batteries**

2 x 150 Ah, battery disconnect switch

**Options**

- Engine block heater at temperatures under -20°C
- Electric fuel pump
- Jump-start terminals

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**UPPERCARRIAGE**

**Design**

Torsion-resistant box design, precision crafted, steel boom bushings

Very service-friendly design, longitudinal engine

**Central lubrication**

Automatic central lubrication for equipment and slewing gear raceway

**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 rails at the upper structure
- LED packages
- Fire extinguisher
- Electric heater at temperatures under -20°C

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**SLEWING DRIVE**

**Gearbox**

Compact planetary gear with slant-axis hydraulic motor, integrated brake valves

**Parking brake**

Multi disc brake, spring loaded

**Slewing ring**

Strong ball slewing ring, sealed

**Slewing speed**

0-8 rpm, variable

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Options

- Low temperature packages
- Hydraulically driven magnetic generator 15 kW / 20 kW
- Telematic system SENtrack DS

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**HYDRAULIC SYSTEM**

Load sensing/LUDV hydraulic system, hydraulic pilot-controlled work functions, load limit sensing control

**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

**Hydrauliktank**

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

**Options**

- Bio-oil environmental friendly
- ToolControl for programming the pressure/rate for up to 10 tools
- Additional hydraulic circuit for shear attachment
- Load moment warning with capacity utilization indicator with/without shutdown
- Electronic overload safeguard with overload shutdown
- 3 µm hydraulic micro-filter - SENNEBOGEN Hydro Clean

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Subject to technical changes. Further options available upon request.
**CAB**

**Subject to technical changes. Further options available upon request.**

**Cab type**
Hydraulically elevating cab E270, tiltable 30°

**Cab equipment**
- Sliding door, excellent ergonomics, automatic climate control, heated, air-suspension comfort seat, fresh/circulating air filter, joystick control, 12 V/24 V connections, SENCON

**Options**
- active seat air conditioning
- Auxiliary heating system with timer
- Cabs with active carbon filter
- Armored-glass windshield
- Armored-glass sunroof
- Safety side window and rear window
- Rolling shade for roof window and windshield
- Protective roof grating
- FOPS protective roof grating
- Protective front grating
- Radio with speakers
- Maxcab Industry cab with undivided armored glass windshield
- Electric cooler

**UNDERCARRIAGE**

**Design**
Wide-track crawler undercarriage with stable, torsion-resistant box construction

**Drive**
Hydraulic traction drive

**Parking brake**
Spring-loaded, hydraulically ventilated disk brakes. Hydraulic brake valves

**Traveling gear**
Telescopic crawler undercarriage T41/380 with hydraulically or mechanical track adjusting from 2.3 - 3.8 m

**Speed**
0 - 1.6 km/h Level I, 0 - 3 km/h Level II

**ELECTRIC DRIVE**

**Option**
- Power: 132 kW / 400 Volt / 50 Hz
  - Total connected load: 250 kVA, 500 A
- Option: 160 kW / 400 Volt / 50 Hz
  - Total connected load 270 kVA
  - Machine side fuse 315 A (with magnet system 355 A) for 400 V - star-delta connection motor start
- Advantages: Lowest operating costs, quiet and virtually vibration-free work, long service life of hydraulic components

**OPERATING WEIGHT**

**Mass**
830 R with hydraulically telescoping crawler undercarriage T41/380 and K17 equipment and attachment.

ca. 45,000 kg

**Notice**
Operating weight varies by design.
Undercarriage: T41/380  Compact boom: 10.5 m  Cab: Maxcab E270, hydraulically elevating, tiltable 30°  Dipper stick: 7.1 m

All values are in tons (t) and are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567, and apply at the required operating temperature in the Green Hybrid system. They apply 360° on solid, level ground. Safe working loads include attachments such as multi-shell grapples, magnets, etc. According to harmonized EU standard EN 474-5, hydraulic excavators used for lifting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device.
Load ratings

Demolition

Undercarriage: T41/380  Compact boom: 10.5 m  Cab: Maxcab E270, hydraulically elevating, tiltable 30°  Dipper stick: 7.1 m

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Subject to technical changes. Further options available upon request.
Load ratings

Demolition

Shovel

<table>
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<th>Type</th>
<th>Weight (kg)</th>
<th>A (mm)</th>
<th>B (mm)</th>
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Crusher

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Demolition hammer

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Demolition grab

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<th>A (mm)</th>
<th>B (mm)</th>
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Hydraulic power data at the stick

- Tool OPEN/CLOSE up to 385 lt./min./350 bar
- Volume and pressure setting via Tool-Control
- Tool TURNING
- Hammer valve / return line (Option)
- Activation hydrl. quick coupling system (Option)

The illustrated tools serve as examples of possible usable sizes. The selection of tools is made by the customer.
830 R-HDD with undercarriage T41/380 and hydraulically elevating cab Maxcab, tiltable 30°

830 R-HDD with undercarriage T41/380 and compact boom
10.8 m, dipper stick 7.1 m, with cylinder protection
830 R-HDD with undercarriage T41/380 and compact boom
10.8 m, dipper stick 7.1 m

830 R-HDD with undercarriage T41/380 and compact boom
10.8 m, dipper stick 7.1 m, with cylinder protection
Optimum protection for ULM cylinder

Cab
30° tiltable in series, protective gratings and undersurface protection from checker plate

Easy transport
with 3,0 m transport width and 14,6 m transport length
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. Machine illustrations can contain optional equipment and supplemental equipment. Actual equipment may vary in a tolerance range depending on the country to which the machines are delivered, especially in regard to standard and optional equipment.

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