



261 kW (Tier 4) 268 kW (Tier 3a)



114 - 117



33 m / 36 m







Long-front demolition material handler

B70 Advanced. The E-Series



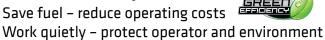
1980: S214 with double cyclinders

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: Highquality components without over-engineering
- Long product service life and high value retention

Your top benefits

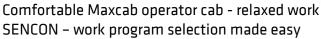




Peak performance

Durable mechanical systems – stressed parts optimized High speeds – high load capacities

Maximum usability



Maximum safety

Safe entry and exit - no-slip steps State-of-the-art camera - entire work area in view

Maintenance and service made easy

SENNEBOGEN Control System SENCON - easy fault diagnosis Easy Maintenance - clear labeling

Consultation and support in your area

3 production sites - 2 subsidiaries more than 130 sales partners - worldwide and also in your area







B70 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 settings of engine and hydraulics reduces fuel consumption



Quiet operation 3

- 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 4



- Constant, reliable performance thanks to largedimensioned 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



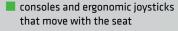
The premium cab.



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



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



B70 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



HydroClean*

- Optimal protection of hydraulic components thanks to 3 µm microfilter
- 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

B70 Modular design

Attachments



Mechanical __ quick changing system



Crusher



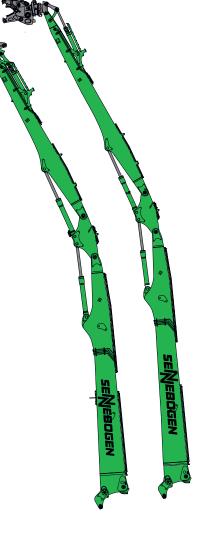
Demolition grab



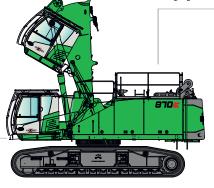
Demolition hammer

Long-front demolition equipment

AB 33 with 33 m reach AB 36 with 36 m reach



Uppercarriage



Diesel-hydraulic drive Elektro-hydraulic drive (option)

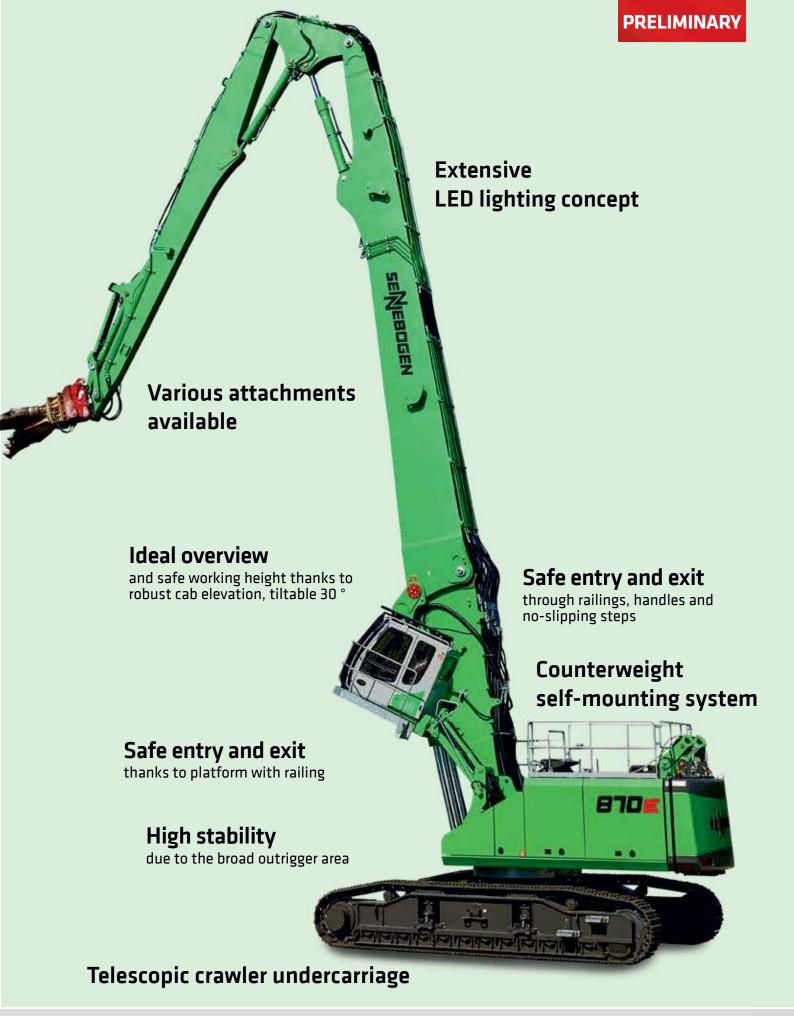
Undercarriage

telescopic

Cab m

30° tiltable







MACHINE TYPE

Model (type) 870

| ENGINE | | | | | |
|----------------|--|--|--|--|--|
| Power | 261 kW/355 hp at 1,800 rpm (Tier IV) 268 kW/364 hp at 1,500 rpm (Tier IIIa) | | | | |
| Model | Cummins QSL 12-C350 Tier IV Cummins QSLM 11-C350 Tier IIIa Direct injection, turbocharged, charge-air cooler, reduced emissions, EcoMode, automatic idle, auto-stop, fuel preheating | | | | |
| Cooling | Water-cooled, cooler fan reversal | | | | |
| 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 | 1000 I | | | | |
| DEF tank | 100 l | | | | |
| Electr. system | 24 V | | | | |
| Batteries | 2 x 180 Ah, battery disconnect switch | | | | |
| Options | Engine block heaterElectric fuel pumpJump-start terminals | | | | |

| UPPER | RCARRIAGE | | | |
|--------------------------|--|--|--|--|
| Design | Torsion-resistant box design, precision craf- ted, steel boom bushings Very service-friendly design, longitudinal engine | | | |
| Central lubrica- tion | Automatic central lubrication for equipment and slewing gear raceway | | | |
| Electrical sys- tem | 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 LED lighting package Fire extinguisher Electric heater for hydraulic tank Low-temperature package for use at temperatures below -20 °C Generator with 24 kW | | | |

| HYDRA | ULIC SYSTEM | | |
|--------------------|--|--|--|
| | IDV hydraulic system, hydraulic 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 | 2x 475 l/min and 1x 274 l/min for rotary drive in the closed circuit | | |
| Operating pressure | max. 350 bar | | |
| Filtration | High-performance filtration with long change interval | | |
| Hydraulic tank | 900 I | | |
| 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 - environmentally friendly ToolControl for programming the pressure/ rate for up to 10 tools Additional hydraulic circuit for shear attachment 60 µm pressure filter for attachments 3 µm hydraulic micro-filter - SENNEBOGEN HydroClean | | |

| SLEWING DRIVE | | | | |
|---------------|--|--|--|--|
| Gearbox | Compact planetary gear with slant-axis hyd- raulic motor, integrated brake valves | | | |
| Parking brake | Spring-loaded multi-disk brake | | | |
| Slewing ring | External gear slewing ring with 360° protection and pinion gear lubrication | | | |
| Slewing speed | 0–5 rpm, variable | | | |



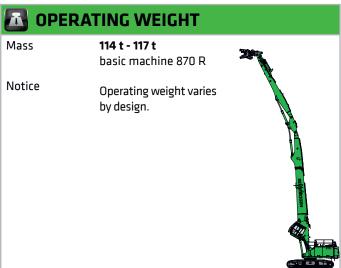




| CAB | |
|---------------|--|
| Cab type | Hydraulically elevating cab E270, tiltable 30° |
| Cab equipment | Sliding door, excellent ergonomics, automatic climate control, heated, air-suspension comfort seat, fresh/circulating air filter, joystick control, 12 V/24 V connections, SENCON |
| Options | 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 industrial cab with undivided armored glass windshield electrical cooler |

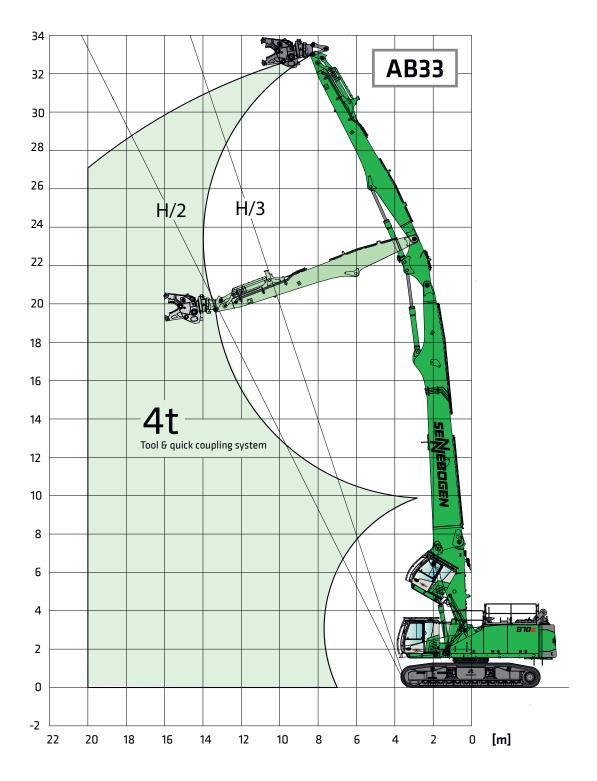
| ATTACH | IMENTS | | | |
|---------------|--|--|--|--|
| Design | Decades of experience, state-of-the-art computer simulation, highest level of stability, longest service life, large-dimensioned and low-maintenance bearing points, sealed special bearing bushes, precision-crafted, quick-release couplings on the connections - open/close/rotate grab | | | |
| Cylinders | Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed bearing points | | | |
| Safety | electronic work area monitoring with over- load warning | | | |
| Options | Ball valves in the hydraulic lines for quick and easy grab switching Adjustable hoisting limiter/stick limiter Additional LED lights Camera on a stick electronic work area monitoring | | | |

| UNDERCARRIAGE | | | | | | |
|----------------------|---|--|--|--|--|--|
| Design | Hydraulically telescopic crawler undercarriage with stable, torsion-resistant box construction | | | | | |
| Drive | Hydraulic traction drive for each crawler integrated in the chassis and connected by a compact planetary gear to an axial piston motor. | | | | | |
| Parking brake | Spring-loaded, hydraulically ventilated disk brakes. Hydraulic brake valves protect the traction motors when going downhill. | | | | | |
| Traveling gear | Telescopic crawler undercarriage with maintenance-free crawler track with canted 600 mm triple grouser shoes | | | | | |
| Speed | 0 - 1.6 km/h Level I: 0 - 3 km/h Level II | | | | | |





Demolition



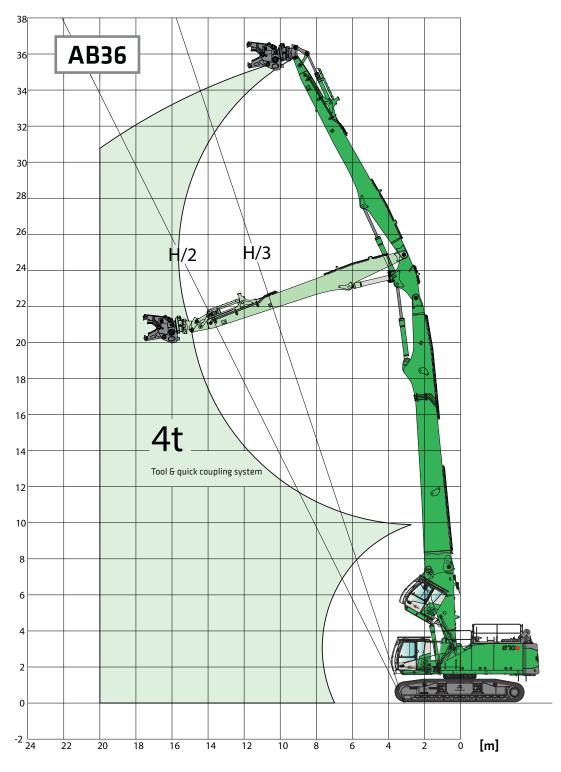
| Undercarriage | T102/420 | Compact boom | 18 m | Cab | Maxcab E270, |
|---------------|----------|--------------|------|-----|--|
| | | Dipper stick | 11 m | | hydraulically elevating , tiltable 30° |

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.





Demolition

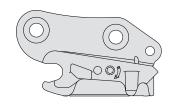


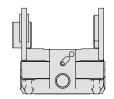
| Undercarriage T102/420 | Compact boom Dipper stick | 19,5m 12,5m | Cab | Maxcab E270, hydraulically elevating , tiltable 30° |
|------------------------|------------------------------|----------------|-----|--|
|------------------------|------------------------------|----------------|-----|--|

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.



Demolition





Quick coupling systems

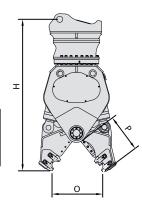
| Weight (kg) |
|----------------|
| ca. 430 |

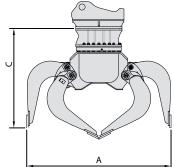
Example

Crushers

| Туре | Weight (kg) | H (mm) | 0 (mm) | P (mm) | |
|---------|----------------|-----------|-----------|-----------|--|
| CC 2500 | ca. 2800 | ca. 2300 | ca.860 | ca. 730 | |

Example

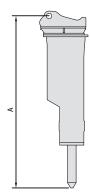




Demolition grabs

| Type Weight (kg) | | Width | A | C |
|------------------|----------|---------------|----------|----------|
| | | (mm) | (mm) | (mm) |
| MG 1500 | ca. 1800 | ca. 1100-1200 | ca. 2200 | ca. 1600 |

Example



Demolition hammer

| Туре | Weight (kg) | A (mm) |
|---------|----------------|-----------|
| AB 2500 | ca. 2500 | 2930 |

Example

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)

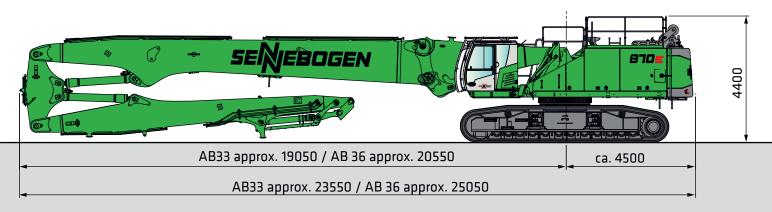
The illustrated tools serve as examples of possible usable sizes. The selection of tools is made by the customer

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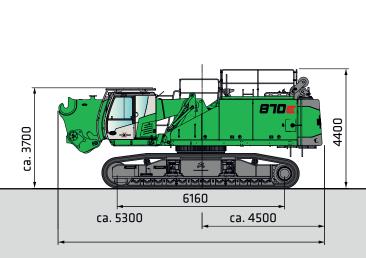




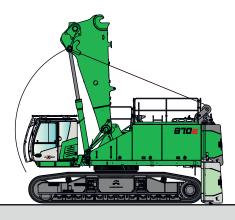
B70 Transport dimensions and weights



870 R with undercarriage T102/420 and 3-parts demolition equipment, hydraulically elevating cab Maxcab, tiltable 30 °, ULM, **Operating weight:** approx. 114 t - 117 t (without tool)

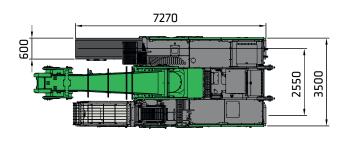


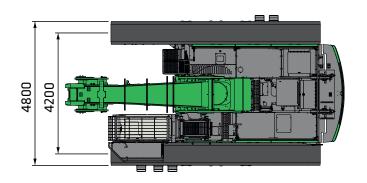
870 R basic machine incl. uppercarriage railing-and counterweight, transport weight approx. 92 t incl. counterweight approx. 26 t



Self-mounting system for counterweight

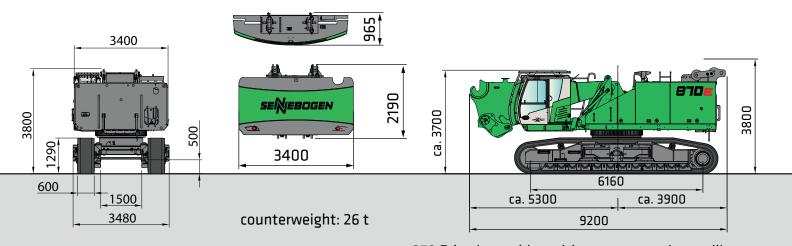




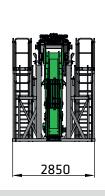


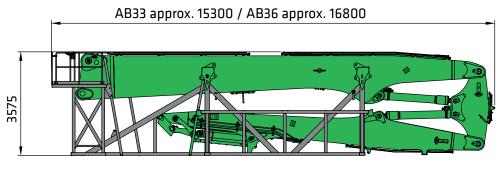
870 R basic machine undercarriage retracted without counterweight

870 R basic machine undercarriage extended incl. counterweight



870 R basis machine without uppercarriage railing, without counterweight, transport weight approx. 66 t





3-parts demolition equipment incl. transport frame approx 25 t - 28 t

ETD Removable demolition equipment





Storage of demolition equipment in transport frame Safe and precise mounting of equipment Extra robust and safe quick coupling boom system



Counterweight mounting system Simple and fast - for lower transport weight of basic machine



B70 Maximum flexibilty & simple transportation

Telescopic crawler undercarriage





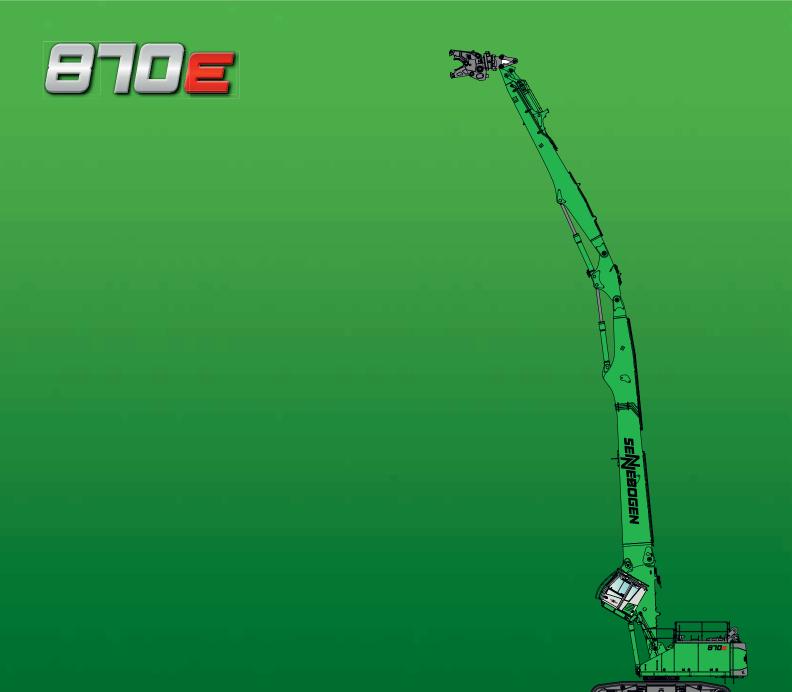
undercarriage width 4800 mm

Simple transportation in 3 units

basic machine - demolition equipment- counterweight







This catalog describes machine models, scopes of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines supplied 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.

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