### Technical Specifications
**SENNEBOGEN Track Material Handler**

#### Engine
- **Model**: Cummins QSB6.7, Tier 4 Final
- **Net Power**: 225 HP (168 kW)

#### Operating Weight
- **R-HD / track**: 96,780 lb (43,900 kg)

#### Reach
- **standard**: 50’1” (15.26 m) (stick pin)
- **optional**: 55’7” (17 m) (stick pin)

#### Magnet System
- **rating**: 20 kW

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**Leading Through Innovation**
## Technical Specifications 830 R-HD “E”

### ENGINE
- **model**: Cummins QSB 6.7 C225
- **type**: in-line, 6 cylinder, cooled exhaust gas recirculation, water cooled
- **emission**: EPA Tier 4 Final
- **net power**: 225 HP (168 kW) @ 2,000 rpm
- **injection**: high pressure common-rail
- **displacement**: 6.7 L (408 cu.in.)
- **bore**: 4.21 in (107 mm)
- **stroke**: 4.88 in (124 mm)
- **aspiration**: turbo charged, charge air cooled
- **fuel tank**: 132 gal (500 L)
- **air filtration**: direct flow filtration system
- **control**: integrated ECM automatic idle - stop eco mode

### ELECTRICAL
- **alternator**: 100 V/Ah
- **starter**: 24 Vm 7.8 kW
- **battery**: 2 x 12 V, 150 Ah
- **lights**: 2 x cab roof, type halogen
- 2 x frame upper carriage, type H4

### HYDRAULIC SYSTEM
- **system type**: LUDV load sensing pilot pressure controlled open center
- **pump type**: variable-displacement axial-piston pump
- **max. pump flow**: 137 gpm (520 l / m)
- **max. pressure**: 5,076 psi (350 bar)
- **hydraulic tank**: 82 gal (310 L)
- **hydraulic system**: 180 gal (680 L)
- **filtration**: dual filtration system 3 micron (HydroClean)

### COOLING
- **cooling type**: cool-on-demand, suction-type fan system, side by side
- **hydraulic / water**: hydraulic fan drive axial piston pump, reversible fan thermally controlled, closed loop system
- **charge air**: direct fan drive

### SWING SYSTEM
- **swing speed**: 0 - 8 rpm
- **swing hydraulic**: open loop
- **drive**: 1 x axial piston motor driving planetary gearbox, integrated brake valves
- **swing brake**: multidisc brake, spring loaded
- **swing bearing**: external teeth, sealed ball bearing

### TRAVEL / UNDERCARRIAGE
- **type**: crawler T41/380
- **system**: mechanical adjustable wide gauge
- **drive**: independent driven by an axial piston motor through a compact planetary
- **travel speed**: 0-1.84 mph (0-3.0 km/h)
- **shoes**: 23.6” (600 mm) (triple grouser)
- **safety**: 860 maintenance free
- **steering**: foot pedals / levers
- **travel alarm**: safety travel alarm

### REFILL CAPACITIES
- **fuel tank**: 132 gal (500 L)
- **engine cooling system**: 13.20 gal (50 L)
- **engine oil w / filter**: 4.49 gal (17 L)
- **hydraulic tank**: 82 gal (310 L)
- **hydraulic system**: 180 gal (680 L)
- **swing gear (each)**: 1.06 gal (4.0 L)
- **final drive (each)**: 2.38 gal (9.0 L)
- **swing ring lubrication reservoir**: 0.26 gal (1.0 L)
- **central lubrication reservoir**: 5.5 lb (2.5 kg)
- **diesel exhaust fluid**: 7.93 gal (30 L)

### MAGNET SYSTEM
- **rating**: 20 kW
- **voltage (magnetized)**: 230 V
- **current (cold condition)**: 87 Amps
- **controller**: Hubbell
- **generator**: Baldor
- **drive**: hydraulic

### WEIGHT
- **operating weight**: 96,780 lb (43,900 kg)

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Subject to technical modification.
# Standard / Optional Equipment 830 R-HD “E”

## Engine
- Water separator in fuel line
- Automatic idle / engine stop control
- Eco mode
- Visual fuel tank check
- Engine block & water separator pre-heater

## Electric
- Battery disconnect switch
- Centralized fuse box
- Battery jump start connection from ground level

## Hydraulic
- Pilot pressure controlled variable displacement pump
- Thermostatically controlled cooling system
- Centralized hydraulic test ports
- Protection covers for pilot pressure control valves
- 3 micron dual filtration system
- Optimized hydraulic pump regulation (GLR)
- Visual hydraulic tank check from ground level
- Attachments open, close & rotation hydraulics
- Hydraulic tank shut off valve
- Electrical hydraulic tank pre-heater
- Biodegradable hydraulic oil
- Hydraulic circuit for scrap shear
- Hydraulic circuit for hammer, breaker
- Additional hydraulic circuits
- Attachment return filtration filters (60 µm)

## Upper Carriage
- Rearview & right side view camera system
- Automatic lubrication system
- Anti-slip mats on walking area
- Lockable side doors
- Handrails on top of upper carriage
- Mirror left side
- Removable panels
- Additional light package
- Custom colors
- Seawater paint coating

## Operators Cab (maXCab)
- Hydraulic elevating cab system E260
- Multi adjustable, air suspended operators seat
- 3” (76 mm) seat belt
- Seat heater
- Automatic climate control (heater / AC)
- Air outlets w / defroster
- Storage area for lunch box
- Large cup holder
- Fire extinguisher
- Tinted windows with safety glass
- Door window as sliding window
- AM / FM Radio with CD player & speakers
- Removable floor mat
- SenCon diagnostic system
- Multicolor Monitor
- Tilt out front window
- Halogen light package on cab roof
- Mechanical hour meter
- Sliding door
- Catwalk w / handrail
- 12 V / 24 V power outlet
- Windshield wiper and washers
- Emergency exit hammer
- Safety lever
- Sun shades

## Operator’s Cab (maXCab)
- Interior lighting
- Rain cover front window
- Outside mirror
- Optical and acoustic warning system
- Positive filtered ventilation (pressurized cab)
- Safety check valves for elevating cab cylinder
- Foot rest
- maXCab industry
- Windshield protection guard
- Skylight protection guard
- Skylight FOPS guard
- Bullet proof windshield
- Bullet proof skylight
- Polycarbonate side windows
- Additional light package
- Fixed cab elevation
- Hydraulic elevating up and out cab E300/260
- Operators cab with floor window
- Additional cameras

## Undercarriage
- Heavy duty designed material handling under carriage
- Crawler under carriage with mechanical adjustable tracks
- Heavy duty crawler track frame
- 23.6” (600 mm) triple grouser track shoes, canted
- Maintenance free crawlers B60
- Hydraulic chain tension device
- Travel alarm
- 27.6” (700 mm) triple grouser track shoes, canted
- 27.6” (700 mm) forged flat track shoes, canted
- Crawler under carriage with hydraulic adjustable tracks

## Working Equipment
- Purpose built material handling boom
- Purpose built material handling stick
- Attachment hydraulic line connections with ball valves
- Boom position 1
- Safety check valves for stick cylinders
- Safety check valves for boom cylinders
- Cylinder end position dumping
- Boom hoist limitation
- Bronze bushings connected to automatic lubrication system
- Stick limitation
- Halogen light package boom
- Purpose built material handling stick with reversing linkage
- Purpose built material handling boom for scrap shears

## Magnet System
- Hydraulic driven generator
- Magnet controller
- Magnet suspension link

## Attachments
- Orange peel grapple
- Mag grapple
- Clamshell
- Magnet
- Log grapple
- Scrap shear
- Power attachment
- Pipe handler
- Live heel

## Swing System
- 360° protection cover, removable
- Manual operated swing gear pinion lubrication system

Subject to technical modification.
830 R-HD “E” Lift Capacities

Lift capacities are stated in pounds. Values in [ ] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° reach and 87% of hydraulic capacity. The load point is the center line of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact Senebogen or your local dealer for optimum attachment selection. The operator / user of the machine should be fully acquainted with the operator’s & safety manual provided by Senebogen. Capacities apply only to the machine as originally manufactured and equipped by Senebogen.

Working Equipment K15

- reach: 50'1" (15.24 m)
- boom: 27'11" (8.5 m)
- stick: 23' (7.0 m)

Operator’s Cab

- model: E270 maXCab
- hydraulic elevating up
- eye level approx. 18' (5.5 m)

Undercarriage

- model: T41/380
- tracks B60
- triple grouser shoes
  23.6" (600 mm)

Lift capacities are stated in pounds. Values in [ ] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° reach and 87% of hydraulic capacity. The load point is the center line of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact Senebogen or your local dealer for optimum attachment selection. The operator / user of the machine should be fully acquainted with the operator’s & safety manual provided by Senebogen. Capacities apply only to the machine as originally manufactured and equipped by Senebogen.
Lift capacities are stated in pounds. Values in [ ] are stated in metric tons. Indicated figures are based on ISO 10567 ... or tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with standard grousers and fully extended tracks. Lifting capacities do not include working equipment such as orange peel grapples, magnets, clamshells, etc. The load point is the centerline of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact Sennebogen or your local dealer for optimum attachment selection. The operator / user of the machine should be fully acquainted with the operator’s & safety manual provided by Sennebogen. Capacities apply only to the machine as originally manufactured and equipped by Sennebogen.
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Lift capacities are stated in pounds. Values in [ ] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 7% or tipping and 8% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with standard grousers and fully extended tracks. Lifting capacities do not include working equipment such as orange peel grapples, magnets, clamshells, etc. The load point is the center line of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact Sennebogen or your local dealer for optimum attachment selection. The operator / user of the machine should be fully acquainted with the operator’s & safety manual provided by Sennebogen. Capacities apply only to the machine as originally manufactured and equipped by Sennebogen.

**Working Equipment K14 ULM**
- **reach**: 47'6" (14.47 m)
- **boom**: 27'11" (8.5 m)
- **stick**: 19'8" (6.0 m) ULM

**Operator’s Cab**
- **model**: E270 maXCab
- **hydraulic elevating up**: approx. 18’ (5.5 m)

**Undercarriage**
- **model**: T41/380
- **tracks**: B60
- **triple grouser shoes**: 23.6" (600 mm)
## Transport dimensions

<table>
<thead>
<tr>
<th>Reach</th>
<th>Boom Length</th>
<th>Stick Length</th>
<th>Transport Length</th>
<th>Transport Height H1</th>
<th>Transport Height H1/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>K15</td>
<td>27’11” (8.5 m)</td>
<td>23’ (7.0 m)</td>
<td>41’ (12.5 m)</td>
<td>10’6” (3.2 m)</td>
<td></td>
</tr>
<tr>
<td>K17</td>
<td>32’2” (9.8 m)</td>
<td>24’7” (7.5 m)</td>
<td>45’4” (13.8 m)</td>
<td>10’8” (3.26 m)</td>
<td>11’8” (3.55 m)</td>
</tr>
<tr>
<td>B16</td>
<td>30’10” (9.4 m) banana</td>
<td>23’ (7.0 m)</td>
<td>44’ (13.4 m)</td>
<td>11’6” (3.5 m)</td>
<td></td>
</tr>
<tr>
<td>K14 ULM</td>
<td>27’11” (8.5 m)</td>
<td>19’8” (6.0 m)</td>
<td>41’ (12.5 m)</td>
<td>11’6” (3.5 m)</td>
<td>12’ (3.65 m)</td>
</tr>
</tbody>
</table>

Transport dimensions valid for boom position 1 only • boom position 2 may increase transport height & transport length • handrails, catwalks & other accessories are disassembled for transportation • *optional cab E300/260 will increase machine transport height by 2” (50 mm) • **only valid with 8” (200 mm) rise of machine and/or clearance for boom/stick lowering

*Under our policy of continuous improvements we reserve the right to change specifications, materials and design without prior notice. The illustrations shown may include optional equipment. See your SENNEBOGEN dealer for further information.”