Engine
Model: Cummins QSB6.7, Tier 4 Final
Net Power: 225 HP (168 kW)
Operating Weight:
M/rubber tired: 84,900 lb (38,500 kg)

Reach
standard: 50’1” (15.26 m) (stick pin)

Magnet System
rating: 20 kW
## Technical Specifications 830 M “E”

### ENGINE
- **model**: Cummins QSB6.7-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 (500L)
- **air filtration**: direct flow filtration system; dual stage filter with pre-filter
- **control**: integrated ECM; automatic idle - stop eco mode

### ELECTRICAL
- **alternator**: 100 V/Ah
- **starter**: 24 V, 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 statically controlled, closed loop system
- **charge air**: direct fan drive

### WEIGHT
- **operating weight**: 84,900 lb (38,500 kg)

### 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**: rubber tired MP30E
- **drive system**: all-wheel drive, variable displacement motor with dual stage power shift transmission
- **travel speed**: 1st 0-4.35 mph (0-7 km/h); 2nd 0-12.43 mph (0-20 km/h)
- **tires**: 8 x 12.00-20 (solid rubber)
- **steering**: joystick steering
- **front axle**: oscillating with hydraulic lock, integrated safety check valves
- **rear axle**: fixed
- **service brake**: disc brake
- **parking brake**: multidisc brake spring loaded
- **safety**: travel alarm

### REFILL CAPACITIES
- **fuel tank**: 132 gal (500 L)
- **engine cooling system**: 13.20 gal (50.0 L)
- **engine oil w / filter**: 4.49 gal (17.0 L)
- **hydraulic tank**: 82 gal (310 L)
- **hydraulic system**: 180 gal (680 L)
- **swing gear**: 1.06 gal (4.0 L)
- **axle hub (front axle)**: 031 gal (1.2 L)
- **axle hub (rear axle)**: 0.39 gal (1.5 L)
- **axle differential (front axle)**: 6.9 gal (26.0 L)
- **axle differential (rear axle)**: 5.1 gal (19.5 L)
- **axle transmission**: 0.8 gal (3.0 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

---

Subject to technical modification.
# Standard / Optional Equipment 830 M “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
- Load sensing, flow on demand hydraulic system
- Optimized Hydraulic pump regulation (GLR)
- Visual hydraulic tank check from ground level
- Hydraulic tank shut off valve
- Electrical hydraulic tank pre-heater
- Biodegradable hydraulic oil
- Hydraulic circuit for circuit slasher
- Additional hydraulic circuits
- Hydraulic circuit for hammer, breaker
- Hydraulic circuit 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
- Turning signal lights in upper carriage frame
- 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
- Waterproof wiper and washers
- Emergency exit hammer
- Safety lever
- Sun shades
- Interior lighting
- Rain cover over front window

## OPERATORS CAB (maXCab)
- 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
- Steering column instead of joystick steering
- Steering column in combination with joystick steering
- Additional cameras

## UNDERCARRIAGE
- Robust designed material handling under carriage
- Heavy duty axles
- Solid rubber tires 12.00-20 (8x) incl. intermediate ring
- Front axle automatic oscillating axle unlock (travel position)
- Dual stage power shift transmission
- Drive train protection guards
- Travel alarm
- Centralized lubrication points
- 2 circuit servo brake system
- 4-point outriggers integrated safety check valves in outrigger cylinders
- Tool and storage compartments, lockable
- Individual outrigger control
- Increased size outrigger pads to decrease ground pressure
- Pneumatic tires 12.00-20 (8x)
- Towing hitch package
- Below grade, bent outrigger legs
- Increased size outrigger pads to decrease ground pressure

## WORKING EQUIPMENT
- Purpose built material handling boom
- Purpose built material handling stick
- Attachment hydraulic line connections with ball valves
- 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
- Magnets
- Log grapple
- Scrap shear
- Pipe attachment
- Power attachment
- Pipe handler
- Live heel

## SWING SYSTEM
- 360° protection cover, removable
- Manual operated swing gear pinion lubrication system
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° with machine support on outriggers. 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.
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830 M “E” Transport dimensions

830 M “E” with undercarriage type MP30E (series) with hydraulic elevating cabin type E270

830 M “E” with hydraulic elevating and forward moving cabin type E300/260

Transport width 9’ (2,750 mm)
830 M “E” Transport dimensions

830 M “E” with undercarriages type MP30E

<table>
<thead>
<tr>
<th>Reach</th>
<th>Boom Length</th>
<th>Stick Length</th>
<th>Transport Length</th>
<th>Transport Height*</th>
<th>Transport Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>K15-1</td>
<td>27’11” (8,500 mm)</td>
<td>23’ (7,000 mm)</td>
<td>40’10” (12,450 mm)</td>
<td>11’2” (3,400 mm)</td>
<td>9’ (2,750 mm)</td>
</tr>
<tr>
<td>K14-1 ULM</td>
<td>27’11” (8,500 mm)</td>
<td>19’8” (6,000 mm)</td>
<td>40’10” (12,450 mm)</td>
<td>11’2” (3,400 mm)</td>
<td>9’ (2,750 mm)</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)

<table>
<thead>
<tr>
<th>Undercarriage</th>
<th>Radius 1</th>
<th>Radius 2</th>
<th>Radius 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>830 M “E” MP30E</td>
<td>36’8” (11.2 m)</td>
<td>41’ (12.5 m)</td>
<td>58’7” (17.9 m)</td>
</tr>
</tbody>
</table>

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