TECHNICAL DESCRIPTION

Jama SBU 8000B

Coverage area standard boom

Coverage area short boom

Approx. 38m²
Manufacturer: JAMA Mining Machines
Machine type: Scaling Boom Unit SBU 8000B
Carrier: Jama 8000B

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height [mm]</td>
<td>3050</td>
</tr>
<tr>
<td>Wheelbase [mm]</td>
<td>4640</td>
</tr>
<tr>
<td>Width [mm]</td>
<td>2714</td>
</tr>
<tr>
<td>Ground clearance [mm]</td>
<td>370</td>
</tr>
<tr>
<td>Length in transport mode [mm]</td>
<td>14700 (standard boom)</td>
</tr>
<tr>
<td>Turning radius [mm]</td>
<td>5200</td>
</tr>
<tr>
<td>Total weight [kg]</td>
<td>30 000</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Performance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max speed horizontal [km/h]</td>
<td>25</td>
</tr>
<tr>
<td>Max speed inclination 1:7 [km/h]</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>1:10 [km/h]</td>
</tr>
<tr>
<td>Max inclination fully loaded (up and down)</td>
<td>1:4</td>
</tr>
</tbody>
</table>

**BOOM SYSTEM**

Boom system designed for heavy scaling.
All joints has expander bolts and plain bushings to manage the force from the hammer

Hammer: Option, brand according to customer specification, weight max 450kg.

Load suspension system: Option *

**CHASSIS**

Articulated mining chassis with frame joint and rigid axles
Modular design with bolted front and rear shelf’s Steering angle ±39°

Dozer blade: Hydraulic operated in the front
Stabilization: Hydraulic jacks legs in front and rear

**DRIVETRAIN**

Diesel engine: Deutz TCD 7,8
Cylinders/stroke [l]: R6/ 7,75
Power [kW/rpm]: 200/1800-2200
Maximum torque [Nm/rpm]: 1400/1400-1600
Emission class: Tier 4 final
Transmission: ZF 6 gears forward, 3 gears reverse
Axles: ZF
Brakes: Hydraulic operated multi-disc brake
Parking brake: Hydraulic operated wet multi-disc brake of negative type
Fuel tank [l]: 200
Tire dimension: 1400 – 24"
CABIN
Design  Steel with two doors. Safety steel frame. FOPS approved
Electric system  220V grounded outlet. 12V supply for com-radio and stereo
Doors  Both doors are considered as emergency exits and are equipped with gas springs which keep the door open and enable fast evacuation of the cabin. Rubber ladder provides easy access to the cab. Left entrance is equipped with a shoe wash. In the rear of the cabin there are two removable caps for drainage.
Seat  Jama EVOS\(^1\). The seat has an undercarriage of scissor type and a three point seat belt. The backrest, the dual lumbar support and the height adjustment are air controlled. The seat is mounted on a slew disc that can be locked in the driving positions.

\(^1\) Ergonomic Vehicle Operator Seat

Windows  Front: 31mm armored glass BR4
           Rear: 8mm laminated glass
           Sides: 8mm laminated glass
Susension  Spring struts
Cab movement  Cab can be tilted 13° backwards for better vision and comfort during scaling operation
Dashboard  All functions within comfortable reach of the Operator
Danger mode  If this function is activated for example when a rock fall is imminent the boom is lowered, the jacks and dozer-blade are lifted, cable and water reels are turned on, the cab is lowered, the electric motors are stopped and the engine is turned on and the machine is reversed from the danger zone with the warning light turned on and intermittent noise from the hooter.

Activation is turned off when brakes or emergency switch is activated.
Pedals  Throttle and brake pedals are placed in both directions.
Hammer can  be activated by a floor pedal or the by one of the joysticks
Air filters  All air is filtered through a filter system
Climate control  Air-condition with re-circulation
Sound pressure  According to ISO6396 (LpA) < 80 dB (A)
Vibration level  According to EU Directive 2002/44/EG

HYDRAULIC SYSTEM
The system consists of load-sensing pumps with integrated sensors for pressure, levels, temperature and filters (indication for filter exchange).

Hydraulic for the hammer  Separate hydraulic system for the hammer.
Emergency steering  Accumulators for emergency power
Electro-hydraulic power pack: **
Electric motors  2x30kW , efficiency cl. IE3 acc. to IEC 60034-2-1
Voltage  690/1000V
Hydraulic pump  Variable load sensing piston pumps
Diesel hydraulic power pack:
Hydraulic pump  Variable load sensing piston pumps
Hydraulic tanks:
Main hydraulic tank volume  \([1]\) 400
Hammer tank volume  \([1]\) 200
HYDRAULIC SYSTEM (cont.)
Oil cooler Plate heat exchanger
Refilling tank 100 l with pump

HOSE REEL
Hydraulic driven with 120m ¾” hose.
Other capacities see options *

CABLE REEL
Hydraulic driven, can accommodate 180m 3x35mm² cable

ELECTRIC SYSTEM
Battery cut off switch 24 V Manoeuvred from the cabin
Master switch On the outside of the machine
Electric system (24V) 24 VDC unit supplies power. Service charging during electric drive.
Battery charging during storage Separate 240V power supply. Option *
Control system 15” colour monitor (touch-screen) with integrated control system of PLC type with Power link, CAN J1939 and Ethernet communication.
Transformer ** 10 kVA 1000/400 volt.
Sensors Digital sensors. Analogue sensors for temperature and pressure.
Fuses Breaking capacity 10 kA.
EMR box Engine control and alarm handling system via CAN J1939 bus.
TCU box Transmission control with status and alarm handling via CAN J1939 bus.

LIGHTING (24V)
Headlamp high beam 4pcs 70W
Headlamp low beam 4pcs 70W
Work lights 6pcs 42W LED (additional lights available as option *)
Ladder lights 2pcs 28W LED
Rear lights 2pcs 28W LED (additional lights available as option *)

FIRE EXTINGUISHING SYSTEM
Sprinkler system Dafo, (optional brands, see Options *), and two 6kg handheld fire extinguishers

CENTRAL LUBRICATION
Brand “Lincoln” (alternative brands as option *)

TOOL BOXES
Stainless steel boxes mounted under the footstep on either side

SPARE WHEEL
Option *

MANUALS
Operators Manual and Spare Part Catalogue 2pcs + digital copy

TRAINING
1 day basic training for operators (additional training option *)

* For complete information about available options, please contact the manufacturer or the manufacturer’s representative
** Electric drive can be excluded

We reserve the right to make changes as the product is under continuous development. Products must be used in conformity with safe practice, the manufacturers instructions, laws and regulations concerning occupational safety and other recommendations.