**OPERATOR ENVIRONMENT**

- Air-conditioner output: 13,492 BTU/hr
- Heater output: 12,897 BTU/hr
- Sound level inside cab – ISO6395: 70 dBA
- Cab interior light: 10 watt
- Side view camera – right: Standard

**ATTACHMENT**

- Boom: 15 ft 2 in (4 630 mm)
- Arm: 8 ft 2 in (2 500 mm)
- Bucket digging force: 20,200 lb·ft (90 kN)
  with Auto Power-Boost: 21,400 lb·ft (95 kN)

**OPERATING WEIGHT**

- Operating weight: 32,100 lb (14 600 kg)
  with shoes: 2 ft 0 in (600 mm)
  with boom: 15 ft 2 in (4 630 mm)
  with arm: 8 ft 2 in (2 500 mm)
  with bucket: 882 lb (400 kg)
  with counterweight: 7,860 lb (3 570 kg)

**GROUND PRESSURE**

- @ Standard operating weight: 5.2 psi (0.36 bar)
  w/ 23.6 in (600 mm) triple grouser shoes, 8 ft 2 in (2.5 m) Arm, 0.65 yd³ (0.5 m³) bucket

**HYDRAULICS**

- System design: Open center
- Main pumps: Two-variable displacement/axial piston
- Max. rated flow per pump: 34.1 gpm (129 L/min) @ 2000 RPM

**HYDRAULIC CYLINDERS**

- Boom cylinders: Two (2)
  - Cylinder bore: 4.1 in (105 mm)
  - Cylinder rod diameter: 3.0 in (75 mm)
  - Cylinder stroke: 44.1 in (1 120 mm)
- Arm cylinder: One (1)
  - Cylinder bore: 4.5 in (115 mm)
  - Cylinder rod diameter: 3.1 in (80 mm)
  - Cylinder stroke: 43.6 in (1 108 mm)
- Bucket cylinder: One (1)
  - Cylinder bore: 3.7 in (95 mm)
  - Cylinder rod diameter: 2.6 in (65 mm)
  - Cylinder stroke: 34.7 in (881 mm)

**SERVICE CAPACITIES**

- Fuel tank: 53 gal (200 L)
- Hydraulic system: 42 gal (158 L)
- Hydraulic tank: 20 gal (75 L)
- Engine oil w/ filter: 4.5 gal (17 L)
- Swing drive: 0.6 gal (2.2 L)
- Final drive: 0.6 gal (2.1 L)
- Cooling system: 4.4 gal (16.5 L)

**OTHER SPECIFICATIONS**

- Swing speed: 0 – 12.5 RPM
- Swing torque: 27,400 lb·ft (37 000 N·m)
- Swing brake: Mechanical disc
- Undercarriage:
  - Length: 12 ft 4 in (3 760 mm)
  - Track gauge: 6 ft 6 in (1 990 mm)
  - Carrier rollers – each side: 2
  - Track rollers – each side: 7
- Shoes – triple grouser: 46
- Shoe width – std.: 2 ft 0 in (600 mm)
- Link pitch: 6.8 in (172 mm)

**ENGINE**

- Model: Isuzu AM-4JJ1X
- Type: CEGR, SCR and DOC
- Emissions Certification: Tier 4 Final
- Fuel: Requires ultra low-sulfur fuel
  B5 biodiesel tolerant
- Turbo-charged w/ air cooled intercooler

**DRIVETRAIN**

- Travel control: Dual stage relief/counter balance design
- Brakes: Mechanical disc
- Service brakes: SAHR disc – each motor
- Two speed travel:
  - Max. high speed: 3.5 mph (5.6 kph)
  - Max. low speed: 2.1 mph (3.4 kph)
- Drawbar pull: 26,100 lbf (116 kN)
- Gradeability: 70% – 35’ slope

**ELECTRICAL**

- Voltage: 24 Volts
- Alternator rating: 50 amp
- Batteries: 2 x 12 Volt
- Battery reserve capacity: 72 Ah/5 hour
- Work lights – 4:
  - 1 boom, 1 upper, 2 cab
  - 24 Volt/70 watt
DIMENSIONS

<table>
<thead>
<tr>
<th>Application</th>
<th>Width</th>
<th>SAE Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty Pin-On</td>
<td>18 in to 48 in (457 mm to 1 219 mm)</td>
<td>0.36 yd³ to 1.08 yd³ (0.28 m³ to 0.83 m³)</td>
</tr>
<tr>
<td>Heavy-Duty Hi-Capacity Pin-On</td>
<td>18 in to 42 in (457 mm to 1 067 mm)</td>
<td>0.42 yd³ to 1.08 yd³ (0.32 m³ to 0.83 m³)</td>
</tr>
<tr>
<td>Heavy-Duty Coupler</td>
<td>18 in to 48 in (457 mm to 1 219 mm)</td>
<td>0.31 yd³ to 0.95 yd³ (0.24 m³ to 0.73 m³)</td>
</tr>
<tr>
<td>Ditch Cleaning Pin-On</td>
<td>48 in to 60 in (1 219 mm to 1 524 mm)</td>
<td>0.64 yd³ to 1.02 yd³ (0.49 m³ to 0.78 m³)</td>
</tr>
</tbody>
</table>

NOTE: *With 23.6 in (600 mm) track shoe, 882 lb (400 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.

Line drawings are for illustrative purpose only and may not be exact representation of unit.

BUCKETS

<table>
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<th>SAE Rated Capacity</th>
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NOTE: *With 23.6 in (600 mm) track shoe, 882 lb (400 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.
PERFORMANCE SPECS

A. Maximum dig radius
   8 ft 2 in (2.50 m) Arm: 27 ft 2 in (8.290 mm)
   9 ft 10 in (3.01 m) Arm: 28 ft 8 in (8.740 mm)
   6 ft 11 in (2.11 m) Arm: 26 ft 1 in (7.940 mm)

B. Dig radius at groundline
   8 ft 2 in (2.50 m) Arm: 26 ft 8 in (8.140 mm)
   9 ft 10 in (3.01 m) Arm: 28 ft 3 in (8.600 mm)
   6 ft 11 in (2.11 m) Arm: 25 ft 6 in (7.800 mm)

C. Maximum dig depth
   8 ft 2 in (2.50 m) Arm: 18 ft 1 in (5.510 mm)
   9 ft 10 in (3.01 m) Arm: 19 ft 9 in (6.010 mm)
   6 ft 11 in (2.11 m) Arm: 16 ft 9 in (5.110 mm)

D. Maximum dig depth – 8 ft 0 in (2.44 m) level bottom
   8 ft 2 in (2.50 m) Arm: 17 ft 4 in (5.290 mm)
   9 ft 10 in (3.01 m) Arm: 19 ft 2 in (5.830 mm)
   6 ft 11 in (2.11 m) Arm: 16 ft 0 in (4.870 mm)

E. Maximum reach height
   8 ft 2 in (2.50 m) Arm: 22 ft 9 in (6.940 mm)
   9 ft 10 in (3.01 m) Arm: 23 ft 11 in (7.290 mm)
   6 ft 11 in (2.11 m) Arm: 21 ft 10 in (6.660 mm)

F. Minimum swing radius
   8 ft 2 in (2.50 m) Arm: 7 ft 8 in (2.340 mm)
   9 ft 10 in (3.01 m) Arm: 9 ft 0 in (2.750 mm)
   6 ft 11 in (2.11 m) Arm: 6 ft 8 in (2.030 mm)

Arm digging force:
   Standard: 13,900 lbf (62 kN)
   Power Boost: 14,800 lbf (66 kN)

Bucket digging force:
   Standard: 20,200 lbf (90 kN)
   Power Boost: 21,400 lbf (95 kN)
### Lift Capacities

<table>
<thead>
<tr>
<th>Load (Lift Point Height)</th>
<th>8 ft 3 in (2.50 m) Arm</th>
<th>9 ft 10 in (3.01 m) Arm</th>
<th>6 ft 11 in (2.11 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MINIMUM REACH</strong></td>
<td>5 ft (1.5 m)</td>
<td>10 ft (3 m)</td>
<td>15 ft (4.5 m)</td>
</tr>
<tr>
<td>12 ft 10 in (3.91 m)</td>
<td>6,350 lb* (2,900 kg)*</td>
<td>6,000 lb* (2,720 kg)*</td>
<td>5,150 lb* (2,350 kg)*</td>
</tr>
<tr>
<td>13 ft 9 in (4.20 m)</td>
<td>6,350 lb* (2,900 kg)*</td>
<td>6,000 lb* (2,720 kg)*</td>
<td>5,150 lb* (2,350 kg)*</td>
</tr>
<tr>
<td>14 ft 8 in (4.47 m)</td>
<td>6,350 lb* (2,900 kg)*</td>
<td>6,000 lb* (2,720 kg)*</td>
<td>5,150 lb* (2,350 kg)*</td>
</tr>
<tr>
<td>15 ft 7 in (4.60 m)</td>
<td>6,900 lb* (3,170 kg)*</td>
<td>6,900 lb* (3,170 kg)*</td>
<td>6,000 lb* (2,720 kg)*</td>
</tr>
<tr>
<td>16 ft 6 in (4.98 m)</td>
<td>7,470 lb* (3,400 kg)*</td>
<td>6,550 lb* (2,950 kg)*</td>
<td>5,600 lb* (2,530 kg)*</td>
</tr>
</tbody>
</table>
| **Note:** *Followign number indicates hydraulic capacity.
STANDARD EQUIPMENT

ENGINE
Isuzu four-cylinder turbo-charged diesel
Tier 4 Final – CEGR, DOC, SCR
Electronic fuel injection
High pressure common rail system
Diesel Oxidation Catalyst System (DOC)
Neutral safety start
Auto-engine warm up
Glow-plug pre-heat
EPF (Engine Protection Feature)
Dual-stage fuel filtration
Dual element air filter
Remote oil filter
Green plug oil drain
500-hour engine oil change interval
24-volt system
Requires CJ-4 engine oil
Requires ultra low-sulfur fuel

FUEL ECONOMY SYSTEMS
Engine Idle/Fuel Economy System:
Auto-idle
One-touch idle
Auto-idle shut-down
BEC – Boom Economy Control
AEC – Auto Economy Control
SWC – Swing Relief Control
SSC – Spool Stroke Control

HYDRAULICS
Auto power boost
Auto swing priority
Auto travel speed change
Selectable work modes
ISO pattern controls
Pre-set auxiliary pump settings
Auxiliary valve
5,000-hour hydraulic oil change interval
1,000-hour hydraulic filter change interval
SAHR brake
Free Swing
Control Pattern Selector

UPPER STRUCTURE
Right and left side mirrors
Isolation mounted cab (fluid and spring)
Common key vandal locks
Upper mounted work light (70 watt)
Swivel guard belly pan

ATTACHMENTS
Boom – 15 ft 2 in (4.63 m)
Arm – 8 ft 2 in (2.50 m)
Heavy-duty bucket linkage
Boom mounted work light (70 watt)
Auxiliary pipe brackets
Centralized grease fittings
Attachment cushion valve
Foldable hand rails
Arm and boom regeneration

OPERATOR ENVIRONMENT
ROPS protection
FOPS cab top guard (Level 1)
Pressurized cab
One-touch lock front window
AC/heat/defrost with auto climate control
Color monitor – 7 in (180 mm)
Interior dome light
Air-suspension seat (cloth)
Seatbelt – 3 in (76 mm)
Adjustable armrests
Tilting consoles – 4-position
Low-effort joystick controls
Sliding cockpit – 7 in (180 mm)
Straight travel
AM/FM Radio with Bluetooth, antenna
and two speakers
Aux-in port for personal electronics
Rear-view camera
Anti-theft system (start code system)
Side view camera – right
Rubber floor mat
12-volt electric outlet

OPTIONAL EQUIPMENT

HYDRAULICS
Auxiliary hydraulics:
Single acting/joystick activated
Double acting/joystick activated
Multi-function/joystick activated
Secondary low-flow/joystick activated

ATTACHMENTS
Standard arm – 9 ft 11 in (3.01 m)
Heavy-duty arm – 6 ft 10 in (2.11 m)
Coupler/Case multi-pin grabber
Buckets:
Heavy-duty
Extreme-duty
Load holding control
Hose Burst Check Valve (HBCV)

UNDERCARRIAGE
27.6 in (700 mm) steel shoes, triple semi-grouser
20.0 in (500 mm) rubber shoes
Double track chain guides

FOPS cab top guard (Level 2)
Front grill guard – 2 x 2 screen mesh
Front rock guard – vertical bars (two piece)/OPG 1
Front rock guard – vertical bars (fixed/one piece)/OPG 2
Vandal guard
Rain deflector
Sun visor
Side-view camera
Refueling pump
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Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.