TELESCOPIC ARM
16.5 meter

Model Code: ZX135US-6
Engine Rated Power: 78.5 kW (ISO14396)
Operating Weight: 16 500 kg
DEMAND
PERFECTION

Built to the same high standards as all Hitachi construction equipment, the ZX135US-6 excavator with telescopic arm has been developed to perfection. Thanks to its speedy performance, excellent stability and compact size, it is ideal for below-ground excavation on narrow job sites in urban environments.

Manufactured to meet the demands of European customers, the user-friendly ZX135US-6 is also easy to transport and maintain. It includes various features and options for enhanced safety and productivity.

Improved safety
Optional zoom camera enhance visibility.

Increased productivity
Short cycle times, due to an exclusively designed hydraulic circuit, ensure high levels of productivity.

Minimal workspace
The ZX135US-6 occupies half the space of the largest model in the telescopic arm range, the ZX350LC-6.
Extended working range
The telescopic arm reaches to a maximum depth of 16.5m.

Additional protection
The fall prevention guard ensures a safe operation.

Exceptional stability
The 4.3 tonne counterweight is heavier than on the standard model.
EXCEPTIONAL PRODUCTIVITY

The ZX135US-6 with telescopic arm is a highly efficient and cost-effective machine developed for extracting and removing soil on below-ground excavation projects. Its compact size is perfectly suited to urban job sites where space is limited, and its smooth and fast operation ensures high levels of productivity.

Compact and efficient
The compact size of the ZX135US-6 is particularly advantageous when working in confined urban environments, when deep excavation is required. It takes up less than half of the space of the ZX350LC-6, the largest model in the telescopic arm range.

Stable and safe operation
Safety is enhanced by the fall prevention guard and the optional zoom camera installed on the arm. This enhances the visibility of the operator, and the view can be easily adjusted using the monitor in the cab. For superior stability, the ZX135US-6 with telescopic arm has a heavier counterweight than the standard model.
**ENGINE**

Model .................................... Isuzu AR-4JJ1X
Type ..................................... 4-cycle water-cooled, common rail direct injection
Aspiration .............................. Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment ....................... DOC and SCR system
No. of cylinders ...................... 4
Rated power
  - ISO 14396 .......................... 78.5 kW at 2 000 min⁻¹
  - ISO 9249, net ..................... 74.9 kW at 2 000 min⁻¹
  - SAE J1349, net ................... 74.9 kW at 2 000 min⁻¹
  - Maximum torque ................ 375 Nm at 1 800 min⁻¹
Piston displacement ............... 2.999 L
Bore and stroke ...................... 95.4 mm x 104.9 mm
Batteries .............................. 2 x 12 V / 58 Ah

**HYDRAULIC SYSTEM**

Hydraulic pumps  
- Main pumps ....................... 2 variable displacement axial piston pumps
- Maximum oil flow .............. 2 x 117 L/min
- Pilot pump ......................... 1 gear pump
- Maximum oil flow .............. 33.6 L/min

Hydraulic Motors  
- Travel .............................. 2 variable displacement axial piston motors
- Swing ............................... 1 axial piston motor

Relief Valve Settings  
- Implement circuit .............. 34.3 MPa
- Swing circuit .................... 32.3 MPa
- Travel circuit .................... 34.3 MPa
- Pilot circuit ....................... 3.9 MPa
- Power boost ....................... 36.3 MPa

Hydraulic Cylinders  
High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

**UPPERSTRUCTURE**

Revolving Frame
D-section frame for resistance to deformation.

Swing Device  
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.
- Swing speed ..................... 10.1 min⁻¹
- Swing torque ..................... 33 kNm

Operator’s Cab  
Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards.
* International Organization for Standardization

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**UNDERCARRIAGE**

Tracks  
Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Numbers of Rollers and Shoes on Each Side  
- Upper rollers .................... 1
- Lower rollers ..................... 7
- Track shoes ....................... 44
- Track guards ...................... 1

Travel Device  
Each track driven by 2-speed axial piston motor.
Parking brake is spring-set/hydraulic-released disc type.
Automatic transmission system: High-Low.
- Travel speeds .................... High : 0 to 5.5 km/h
- Low : 0 to 3.3 km/h
- Maximum traction force ........ 117 kN
- Gradeability ...................... 26 % (15 degree) continuous

**SOUND LEVEL**

Sound level in cab according to ISO 6396 ................................. LpA 69 dB(A)
External sound level according to ISO 6395 and 
EU Directive 2000/14/EC ......................................................... LwA 99 dB(A)

**SERVICE REFILL CAPACITIES**

Fuel tank .................................................... 220.0 L
Engine coolant ........................................ 21.0 L
Engine oil .............................................. 17.0 L
Swing device ............................................ 3.2 L
Travel device (each side) ......................... 4.0 L
Hydraulic system ..................................... 155.0 L
Hydraulic oil tank .................................... 60.0 L
DEF/AdBlue® tank ..................................... 13.0 L

**WEIGHTS AND GROUND PRESSURE**

Equipped with type S-TC120-A-7 and 0.25 m² clamshell bucket
(ISO heaped)

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple grouser</td>
<td>500 mm</td>
<td>16 500 kg</td>
<td>52 kPa</td>
</tr>
</tbody>
</table>

**CLAMSHELL BUCKET**

<table>
<thead>
<tr>
<th>Bucket type</th>
<th>S-SP25-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity (m³)</td>
<td>0.25</td>
</tr>
<tr>
<td>Max. digging force (kN, (kgf))</td>
<td>38.0 (3 870)</td>
</tr>
<tr>
<td>Max. height (mm)</td>
<td>1 990</td>
</tr>
<tr>
<td>Opened max. height (mm)</td>
<td>1 740</td>
</tr>
<tr>
<td>Closed width (mm)</td>
<td>1 100</td>
</tr>
<tr>
<td>Opened width (mm)</td>
<td>1 500</td>
</tr>
<tr>
<td>Bucket width (mm)</td>
<td>685</td>
</tr>
<tr>
<td>Teeth number</td>
<td>5</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>570</td>
</tr>
</tbody>
</table>
WORKING RANGES

<table>
<thead>
<tr>
<th>Telescopic arm type</th>
<th>S-TC120-A-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescopic arm system</td>
<td>Hydraulic cylinder</td>
</tr>
<tr>
<td>A Max. vertical digging depth</td>
<td>16 450</td>
</tr>
<tr>
<td>B Radius at max. vertical digging depth</td>
<td>4 630</td>
</tr>
<tr>
<td>C Max. vertical digging radius</td>
<td>5 970</td>
</tr>
<tr>
<td>D Depth at max. vertical digging radius</td>
<td>13 120</td>
</tr>
<tr>
<td>E Max. working radius</td>
<td>8 230</td>
</tr>
<tr>
<td>F Max. dumping height</td>
<td>4 830</td>
</tr>
<tr>
<td>G Min. front swing radius</td>
<td>3 120</td>
</tr>
<tr>
<td>H Height at min. front swing radius</td>
<td>10 360</td>
</tr>
<tr>
<td>I Front rear radius</td>
<td>2 460</td>
</tr>
</tbody>
</table>

Unit: mm

Excluding track shoe lug
## SPECIFICATIONS

### DIMENSIONS

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Distance between tumblers</td>
<td>2 880</td>
</tr>
<tr>
<td>B Undercarriage length</td>
<td>3 580</td>
</tr>
<tr>
<td>*C Counterweight clearance</td>
<td>840</td>
</tr>
<tr>
<td>D Rear-end swing radius</td>
<td>1 600</td>
</tr>
<tr>
<td>E Overall width of upperstructure</td>
<td>2 480</td>
</tr>
<tr>
<td>F Overall height of cab</td>
<td>2 790</td>
</tr>
<tr>
<td>*G Min. ground clearance</td>
<td>410</td>
</tr>
<tr>
<td>H Track gauge</td>
<td>1 990</td>
</tr>
<tr>
<td>I Track shoe width</td>
<td>G 500</td>
</tr>
<tr>
<td>J Undercarriage width</td>
<td>2 490</td>
</tr>
<tr>
<td>K Overall width</td>
<td>2 490</td>
</tr>
<tr>
<td>L Overall length</td>
<td>11 220</td>
</tr>
<tr>
<td>M Overall height of boom</td>
<td>2 440</td>
</tr>
<tr>
<td>N Track height with triple grouser shoes</td>
<td>790</td>
</tr>
<tr>
<td>O Swing centre to front distance</td>
<td>9 430</td>
</tr>
</tbody>
</table>

* Excluding track shoe lug  
  G: Triple grouser shoe

### TRANSPORTATION

<table>
<thead>
<tr>
<th>Transport Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>2 490 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>13 700 kg</td>
</tr>
<tr>
<td>Width</td>
<td>600 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>2 190 kg</td>
</tr>
<tr>
<td>Width</td>
<td>685 mm</td>
</tr>
<tr>
<td>Weight</td>
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</tr>
</tbody>
</table>
## EQUIPMENT

### ENGINE
- Aftertreatment device
- Air cleaner double filter
- Alternator 50 A
- Auto idle system
- Auto shut-down control
- Cartridge-type engine oil filter
- Cartridge-type fuel main filter
- Cold fuel resistance valve
- DEF/AdBlue® tank inlet strainer and extension filter
- DEF/AdBlue® tank with ISO magnet adapter
- Dry-type air filter with evacuator valve (with air filter restriction indicator)
- Dust-proof indoor net
- ECO/PWR mode control
- Electrical fuel feed pump
- Engine oil drain coupler
- Expansion tank
- Fan guard
- Fuel cooler
- Fuel pre-filter with water separator
- Isolation-mounted engine
- Maintenance free pre-cleaner
- Radiator, oil cooler and intercooler

### CAB
- All-weather sound suppressed steel cab
- AM-FM radio
- Ashtray
- Auto control air conditioner
- AUX terminal and storage
- Cigarette lighter 24 V
- CRES V (Center pillar reinforced structure) cab
- Cigarette lighter 24 V
- Electric double horn
- Engine shut-off switch
- Equipped with reinforced, tinted (green color) glass windows
- Evacuation hammer
- Fall prevention guard
- Foot rest
- Front window washer
- Glove compartment
- Hot & cool box
- Intermittent windshield wipers
- Key cylinder light
- Laminated round glass window
- OPG front guard Level II (ISO10262) compliant cab
- OPG top guard Level I (ISO10262) compliant cab
- OPG top guard Level II (ISO10262) compliant cab
- Pilot control shut-off lever
- Power outlet 12 V
- Rain guard
- Retractable seat belt
- ROPS (ISO12117-2) compliant cab
- Rubber radio antenna
- Seat - air suspension seat with heater
- Seat adjustment part : backrest, armrest, height and angle, slide forward / back
- Short wrist control levers
- Sun visor (front window/side window)
- Transparent roof with slide curtain
- Windows on front, upper, lower and left side can be opened
- 2 speakers
- 4 fluid-filled elastic mounts

### MONITOR SYSTEM
- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc
- Alarm buzzers: overheat, engine oil pressure, overload, SCR system trouble
- Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate
- Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc
- 32 languages selection
- Side view monitor

### LIGHTS
- Additional boom light with cover
- Additional cab roof front lights
- Additional cab roof rear lights
- Rotating lamp
- 2 working lights

### UPPER STRUCTURE
- Batteries 2 x 58 Ah
- Battery disconnect switch
- Body top handrail
- Counterweight 4 300 kg
- Fuel level float
- Hydraulic oil level gauge
- Lockable fuel refilling cap
- Lockable machine covers
- Lockable tool box
- Platform handrail
- Rear view camera
- Rear view mirror (right & left side)
- Side view camera
- Skid-resistant plates and handrails
- Swing parking brake
- Undercover

### UNDERCARRIAGE
- Bolt-on sprocket
- Reinforced track links with pin seals
- Shoe: 500 mm triple grouser
- Track undercarriage
- Travel direction mark on track frame
- Travel motor covers
- Travel parking brake
- Upper and lower rollers
- 1 track guard (each side) and hydraulic track adjuster
- 2 track guards (each side) and hydraulic track adjuster
- 4 tie down brackets

### FRONT ATTACHMENTS
- Clamshell bucket (0.25 m³)
- Telescopic arm (16.5 m)

### ATTACHMENTS
- Telescopic arm piping
- Pilot accumulator

### MISCELLANEOUS
- Global e-Service
- Onboard information controller
- Standard tool kit
- Zoom camera

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Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.
Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator’s Manual for proper operation.