Backhoe Loaders
883-885

Tough Jobs Need Strong Partner
Features

Powerful Engine
Powering it with PERKINS 1104C- 44T Tier II or PERKINS 1104D-44T Tier III turbocharged diesel engine which offers world-class performance and complies with all relevant environmental regulations.

Optimum Weight Distribution
The new generation Cukurova Backhoe Loaders are designed to have Optimum Weight Distribution giving safe, stable steering on the highway and provides a solid digging platform.

Improved Performance
CUKUROVA Backhoe Loaders are the ideal combination of concentrated power, safety and extreme user-friendliness. Ergonomically located, control levers are within easy reach of the operator, provides operating comfort and increase productivity. Cukurova was one of the pioneers in using new generation control system for backhoe loaders. This system of hydraulic operated joystick controls, is used in 885 mode for both backhoe and loader attachments enable operators to spend less effort with much greater precision of movement during working. This system provides better controllability, maintains motion under any flow or load, takes the strain from the operator; increases oil life and reduces oil reservoir temperature.

Excavator Style Comfort (885)
For backhoe, CUKUROVA 885 offers an extra operating comfort by assembling the hydraulic joysticks on separately adjustable backhoe joystick columns placed at the right-left side of the cab. This innovation exceeds the operator demands in so far that they can arrange the columns to their working position by gaining extra space for their free body movement. In this way they feel like they are in an excavator, all the controls are within their easy reach and thus are comfortable while working.

Automatic return to dig system (885)
The 885 provides you with automatic return to dig system as standard to get max efficiency with reduced cycle times by leveling the loader bucket back to dig position with a pull of loader joystick.
FEATURES
Roomy ROPS/FOPS Cab

Specially designed ROPS/FOPS cab provides perfect operating comfort, excellent visibility with tinted safety glass.

A well designed dash within reach
Sitting in the driver’s seat is a lot like sitting in a automobile. The tiltable front dash provides all switches and controls to be closer to the driver. There’s no stretching, so there’s less fatigue.

On right side dash, a large, easy-to-read, standard operator display features a maintenance indicator, hour meter, fuel level gauge, engine oil temperature gauge, engine rpm to name a few.

Steering Column
The steering column can be adjusted to an infinite amount of positions for maximum comfort, increased belly room and improved visibility of all indicators by simply pressing the quick-release foot pedal.

Dash Finishes
The dash comes nicely appointed in two finishes.

Easy Cab Entry
Sculpted, self-cleaning steps and a full-size grab bar provide an extra measure of safety getting in and out of the cab. Partial opening of cab doors.

CE marked - All safety measurements are taken through the Machinery Directives 2006/42/EC
Serviceability

Three-pieces engine hood
Aerodynamic hood design provides operator to access all the necessary maintenance points easily and quickly thus spending less time and effort.

Bolt type cylinder heads
For maintenance and repair Cukurova 883-885 model Backhoe Loaders supply a lot of noteworthy benefits for the operator. Bolt type cylinder head assembly for cylinders provides quick replacement of cylinder seal kit during the overhaul of the machine keeping the spare parts cost at minimum.

Sealed pins and bushing
Sealed pins and bushings extend the life time of the linkages of the attachments by preventing the entry of dust or blockages and increases the time between service periods.
Engine
- Heavy duty design, high torque capability, powerful PERKINS engine.
- Impressive low speed torque to deliver improved machine response.
- ECC filtration system provides high quality construction with a re-usable canister, a disposable inner element and a simpler service process.
- Low fuel consumption and low maintenance cost.
- Environmental
- Dry type air cleaner with primary and safety elements.

<table>
<thead>
<tr>
<th>Make</th>
<th>Perkins</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIER II</td>
<td>TIER III</td>
</tr>
<tr>
<td>Model</td>
<td>1104C-44T</td>
</tr>
<tr>
<td>Type</td>
<td>4 stroke diesel, turbo charged</td>
</tr>
<tr>
<td>Rated power</td>
<td>100 hp / 74.5 kW</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>2200rpm</td>
</tr>
<tr>
<td>Displacement</td>
<td>4.4 L</td>
</tr>
<tr>
<td>Bore and Stroke</td>
<td>105 x 127 mm</td>
</tr>
<tr>
<td>No of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Max. Torque</td>
<td>408 Nm</td>
</tr>
<tr>
<td>Cooling</td>
<td>Water cooled engine oil radiator</td>
</tr>
<tr>
<td>Electrical system</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>12 / 120 V /Ah</td>
</tr>
<tr>
<td>Starter</td>
<td>3 kW</td>
</tr>
</tbody>
</table>

Drive Train
Transmission:
- Make: ZF
- Type: Powershift
- Transmission disconnect: With push button and brake system

Travel Speeds
- 1st (forward/reverse): 6.50 / 7.00 km/h
- 2nd (forward/reverse): 11.00 / 12.00 km/h
- 3rd (forward/reverse): 26.00 / 30.00 km/h
- 4th (forward/reverse): 40.00 km/h

Axles:
ZF Front Axle
- Ease of operation with hydrostatic steering system even under high load conditions.
- Limited slip differential.
- 20° total oscillation on front axle
- 52 degrees steering angle for perfect maneuverability.

ZF Rear Axle
- High input torque with outboard planetary desing
- Electro-hydraulic operated differential %100 locking acts on rear axle.
- Self adjusting high torque internal wet multi disc service brake.
**Hydraulic System**

- Hydraulic speed control system.
- Bolt type cylinder design with all sealed pins and bushings for easy maintenance and long life.
- Cushioned Swing and Boom provides maximum operator comfort for fast and smooth trenching.

<table>
<thead>
<tr>
<th>System type</th>
<th>O-center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic pump</td>
<td>Tandem gear</td>
</tr>
<tr>
<td>Max. Flow</td>
<td>90 + 64 l/min</td>
</tr>
<tr>
<td>Max. Press.</td>
<td>220 bar</td>
</tr>
<tr>
<td>Hydraulic oil filter</td>
<td>Full flow filter in return line with integrated fine filter area</td>
</tr>
<tr>
<td>Hydraulic cooler</td>
<td>Hydraulic and transmission oil cooler</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydraulic Controls</th>
<th>883</th>
<th>885</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backhoe controls</td>
<td>Mechanical control levers</td>
<td>Hydraulic joystick controls</td>
</tr>
<tr>
<td>Loader control</td>
<td>Mechanical control lever</td>
<td>Hydraulic joystick control</td>
</tr>
</tbody>
</table>

**Brakes:**

- Hydraulically foot operated service brake two pedals acted on four wheels.

<table>
<thead>
<tr>
<th>Service type</th>
<th>Hydraulic wet multi-disc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking type</td>
<td>Mechanical control on rear axle</td>
</tr>
</tbody>
</table>
Steering

Steering Type: 2 Wheel
Power Steering: Hydrostatic

Turning Circle (without brakes) 883 885
Outer Front Tire Clearance 9500 mm 12170 mm
Outer Loader Bucket Clearance 12320 mm 14600 mm

Backhoe Attachment

Max. Bucket Tearout Retract 59.1 kN

Dipper Tearout Retracted
Retracted 31.8 kN
Extended 22.4 kN

Loader Attachment 883 885
Bucket Capacity 1.1 m³ 1.1 m³
Breakout Force Lift 60.5 kN 56.1 kN
Breakout Force Shovel Max 81.5 kN 81.6 kN
Shovel Width 2280 mm 2280 kg
Lift to full height 3500 kg 3440 kg

Tyres 883 885
Front 4WD 12.5/80-18 14.5/20
Rear 4WD 16.9-28 16.9-28

Weights

883-Operating Weight: 7800 - 8750 kg
885-Operating Weight: 8000 - 8950 kg

Cab

- Specially designed ROPS/FOPS cab provides perfect operating comfort, excellent visibility, and reliability.
- Full-opening of rear side windows, partial and full-opening of the doors provide superior fresh air circulation in the cab, tinted safety glass improves visibility and sun visor protects operator against strong sunlight and ensures clear vision.

Capacities

<table>
<thead>
<tr>
<th></th>
<th>Liters</th>
</tr>
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<tbody>
<tr>
<td>Engine Oil</td>
<td>8.4</td>
</tr>
<tr>
<td>Cooling System</td>
<td>25</td>
</tr>
<tr>
<td>Fuel Tank</td>
<td>140</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>75</td>
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<tr>
<td>Hydraulic System</td>
<td>130</td>
</tr>
<tr>
<td>Front Axle</td>
<td>7.8</td>
</tr>
<tr>
<td>Rear Axle</td>
<td>16</td>
</tr>
<tr>
<td>Breaker Oil</td>
<td>0.4</td>
</tr>
</tbody>
</table>
# TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Backhoe Dimensions</th>
<th>Standard</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Max. Digging Depth</td>
<td>4600 mm</td>
<td>5800 mm</td>
</tr>
<tr>
<td>B - Max. Reach From Rear Axle Center</td>
<td>7000 mm</td>
<td>8100 mm</td>
</tr>
<tr>
<td>C - Max. Reach From Swing Center</td>
<td>5700 mm</td>
<td>6800 mm</td>
</tr>
<tr>
<td>D - Max. Digging Height</td>
<td>5600 mm</td>
<td>6450 mm</td>
</tr>
<tr>
<td>E - Max. Dumping Height</td>
<td>3850 mm</td>
<td>4700 mm</td>
</tr>
<tr>
<td>F - Loading Reach</td>
<td>1800 mm</td>
<td>2650 mm</td>
</tr>
<tr>
<td>G - Bucket Rotation Angle</td>
<td>200°</td>
<td>200°</td>
</tr>
<tr>
<td>H - Max. Bucket Hinge Pin Height</td>
<td>4750 mm</td>
<td>5550 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Loader Dimensions</th>
<th>883</th>
<th>885</th>
</tr>
</thead>
<tbody>
<tr>
<td>I - Distance Between Hinge Pin and Front Axle Center</td>
<td>1220 mm</td>
<td>1460 mm</td>
</tr>
<tr>
<td>J - Max. Rollback angle, fully raised</td>
<td>59.2°</td>
<td>59.7°</td>
</tr>
<tr>
<td>K - Dump Height</td>
<td>2810 mm</td>
<td>2890 mm</td>
</tr>
<tr>
<td>L - Loadover Height</td>
<td>3280 mm</td>
<td>3370 mm</td>
</tr>
<tr>
<td>M - Height to Hinge Pin</td>
<td>3320 mm</td>
<td>3670 mm</td>
</tr>
<tr>
<td>N - Max. Reach at Full Height</td>
<td>1070 mm</td>
<td>1125 mm</td>
</tr>
<tr>
<td>O - Dumping Reach</td>
<td>620 mm</td>
<td>685 mm</td>
</tr>
<tr>
<td>P - Digging Depth</td>
<td>110 mm</td>
<td>115 mm</td>
</tr>
<tr>
<td>R - Dump Angle</td>
<td>45°</td>
<td>45°</td>
</tr>
</tbody>
</table>
Standard Equipment

**Engine System**
- Air cleaner, dry type and radial seal
- Air filter condition indicator lamp
- Starting system thermal aid
- Turbocharged

**Electrical System**
- Alarm, backup
- Battery, 12 V, 120 Ah
- Front headlights
- Master switch
- Visual and audible warning systems on main functions
- Warning horn

**Drive Train**
- Electro-hydraulic differential lock
- Front axle, 4WD pendulum mount
- Front axle, limited slip differential
- Transmission neutralizer switch ($85$)
- 40 kph gearbox (full powershift)

**ROPS/FOPS Cab**
- Adjustable seat with seat belt and armrest
- Adjustable steering column
- Cab recirculating fan
- Cigarette lighter
- Coat hook
- Defroster
- Front windshield washer and wiper
- Fully equipped instrument panel
- Front mudguards ($85$)
- Heater
- Left-right side doors with locks
- Mirrors, exterior (2), interior (1)
- Rear windshield wipers
- Rotating beacon (detachable)
- Steering wheel spinner knob
- Sunvisor
- Storage compartment
- Tinted glass
- Tool box, external
- Ventilation openers
- Working lights, 2 front and 4 rear
Optional Equipment

Attachments, Front Loader
• Bolton segment
• (EHSS) Electro Hydraulic Suspensions System
• Fork attachment
• Loader Quick Coupler
• Multipurpose bucket
• Safety check valves
• Snow Plough

Attachments, Backhoe
• Auger (Earth Drill)
• Backhoe quick coupler
• Compactor
• Different size of backhoe buckets
• Grading bucket
• Grapple
• Hydraulic hammer piping

Attachments, Front Loader
• Automatic return to dig (885)
• Float position (885)
• General purpose bucket
• Hydraulic operated joystick control (885)
• Loader arm safety strut

Attachments, Backhoe
• Adjustable backhoe joystick columns (885)
• Electro-hydraulic side shifting lock
• Hydraulic operated joystick controls (885)
• ISO pattern controls
• Swing and Boom transport lock with mechanical control from the cab
• Standard-duty bucket (600)mm
• Stabilizer safety check valves

Others
• Air conditioner
• Air pre-cleaner
• Battery 150 Ah
• Engine, Tier III
• Front mudguards (883)
• Fuel Pre-Heater
• Variable displacement axial piston pump with load sensing closed center hydraulic system
• 3” Fuel filter
• 4WD Shaft guard