

ÇUKUROVA

Makina İmalat ve Ticaret A.Ş.

880S

BACKHOE LOADERS



Powerful Engine

Powering it with PERKINS turbocharged diesel engine which offers world-class performance and complies with all relevant environmental regulations. Its low fuel consumption and maintenance costs make the 880 even more attractive.

Drive Train

Powershuttle gearbox with four forward and four reverse fully synchronized gears. Providing smooth shifting, hill climbing capability easy to operate. Electro-hydraulic selection of 2WD and 4WD can be done by a switch located on control panel.

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

The standard 600 mm backhoe bucket coupled with the compact, powerful backhoe, means higher cycle and maximum output.



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



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.



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.

FUTURE

Features





Make		Perkins		
	Stage II	Stage III A	Stage IV	Stage V
Model	1104C-44T	1104D-44TA	854F-E34TA	904J-E36TA
Type	4 stroke diesel, turbo charged			
Rated Power	100hp/74,5 kW	94hp/70,0kW	94hp/70,0kW	100hp/74,5 kW
Rated Speed	2200rpm	2300rpm	2200rpm	
Displacement	4,4 L.		3,4 L.	3,6 L.
Bore and Stroke	105x127 mm			98x120 mm
No of Cylinders	4			
Max. Torque	406 Nm	392 Nm	395 Nm	430 Nm
Cooling	Water cooled engine oil radiator.			

Turning Circle(without brakes)	
Outer Front Tire Clearance	7900 mm
Outer Loader Bucket Clearance	11400 mm

Hydraulic System

- Cushioned Swing provides maximum operator comfort for fast and smooth trenching.

System Type	Open Center	Closed Center
Hydraulic Pump	Tandem Gear	Axial Piston Pump
Max. Flow	79+57 l/min - 90+64 l/min	
Max. Press.	220 bar	



Engine

- Heavy duty desing, 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.

Electiral System

Battery	12 / 120 V /Ah
Starter	3,2 kW

Steering:

- Hydrostatic power steering.
- Load sensing system.

Drive Train

- 4 Wheel drive
- Carraro powershuttle and autoshift transmission.
- Low noise and low internal speeds.

Make	Carraro
Type	Powershuttle - Autoshift
Transmission disconnect	With brake system

Travel Speeds

1st (foward/reverse)	5,80/5,80 km/h
2nd (foward reverse)	9,30 / 9,30 km/h
3rd (foward/reverse)	21,40/21,40 km/h
4th (foward/reverse)	40,00 / 40,00 km/h

Hydraulic System

Backhoe Controls	Mechanical control levers
Loader control	Mechancial control lever

Axles:

Carraro Front Axle

- High input torque with outboard planetary design.
- Ease of operation with hydrostatic steering system even under.
- 16° total oscillation on front axle
- 52 degrees steering angle for perfect maneuverability.

Carraro 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.



Brakes:

- Internal with disc brakes.
- Foot operated hydraulically boosted service brake. Two pedals acted on four wheels.

Service Type	Hydraulic Wet Multi-disc
Parking Type	Mechanical control on rear axle
Loader Attachment	
Shovel Capacity	1,0 m³
Breakout Force Lift	60,5 kN
Breakout Force Shovel	67 kN
Shovel Width	2280 mm
Lift to full height	3500 kg

Backhoe Attachment	
Max. Bucket Tearout	44 kN
Dipper Tearout	30 kN
Bucket Capacity	0,2 m³
Bucket Width	600 mm

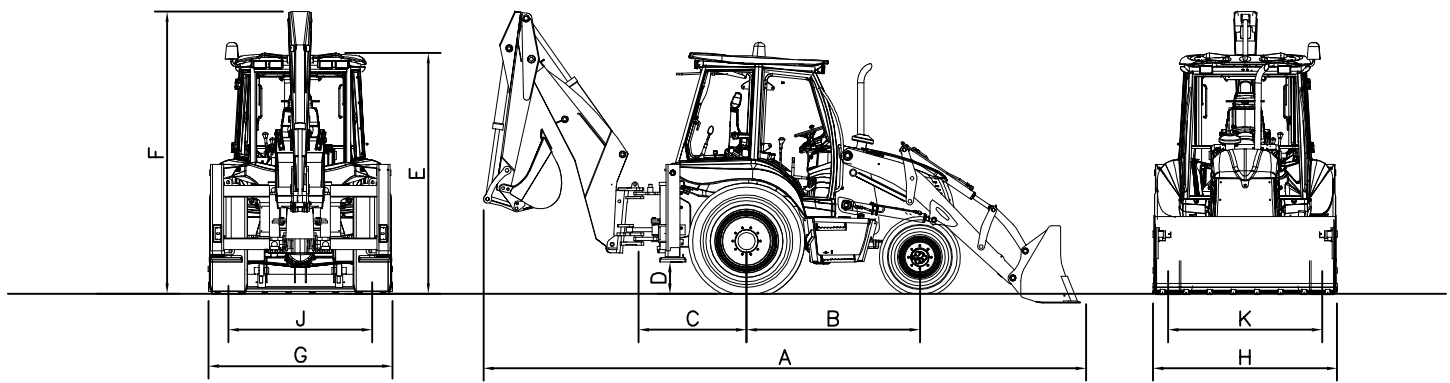
Tyres	
4WD	
Front	12,5 / 80-18
Rear	16,9-28

Cab

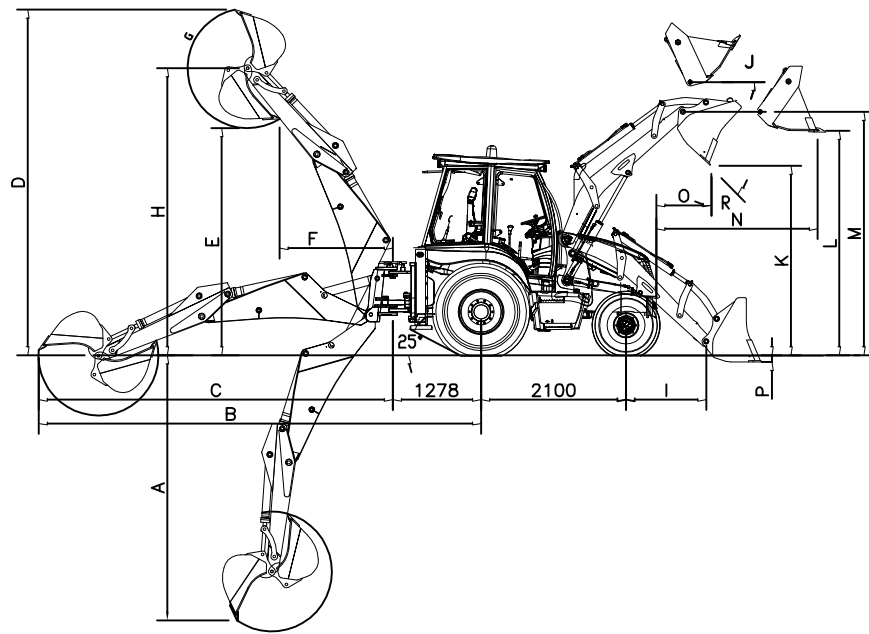
- Specially designed ROPS/FOPS cab provides perfect operating comfort, excellent visibility, and reliability.
- Full-opening of rear side windows, partial and full-opening of the doors provide superior fresh air circulation in the cab, tinted safety glass improves visibility and sun visor protects operator against strong sunlight and ensures clear vision.
- Seat; adjustable to operator s weight.
- Front and side control panels are fully equipped with the latest technology, the arrangement of controls are within easy reach, the audible and visual warning on main function guide operator for failure and adjustable steering column as standard gives extra driving comfort to the operator.

Weights	
Operating Weight	6600-8500 kg

Capacities	Liters
Engine Oil	8,4
Cooling System	23,0
Fuel Tank	140,0
Hydraulic Tank	75,0
Hydraulic System	125,0
Front Axle	8,3
Rear Axle	15,5



A- Overall Machine Length	5710 mm	F- Machine Maximum Height	3553 mm
B- Wheelbase	2100 mm	G- Machine Maximum Width	2209 mm
C- Backhoe Swing Centre Distance	1278 mm	H- AOverall Width - with Bucket	2230 mm
D- Minimum Machine Height	400 mm	J- Real Wheel Track	1740 mm
E- Cab Height	2830 mm	K- Front Wheel Track	1870 mm



Backhoe Dimensions		Retracted	Extended
A- Max. Digging Depth		4005 mm	4805 mm
A- Max. Digging (optional)		4600 mm	5800 mm
B- Max. Reach From Rear Axle Center		6440 mm	7173 mm
C- Max. Reach From Swing Center		5162 mm	5895 mm
D- Max. Digging Height		5015 mm	5515 mm
E- Max. Dumping Height		3275 mm	3810 mm
F- Loadig Reach		1750 mm	2372 mm
G- Bucket Rotation Angle		200°	200°
H- Max Bucket Hinge pin Height		4150 mm	4678 mm
Loader Dimensions			
I- Distance Between Hinge Pin and Frony Axle Center			1161 mm
J- Max. Rollback Angle, Fully Raised			64,25°
K- Dump Height			2764 mm
L- Loadover Height			3240 mm
M- Height to Hinge Pin			3539 mm
N- Max. Reach at Full Height			1199 mm
O- Dumping Reach			775 mm
P- Digging Depth			87 mm
R- Dump Angle			43°

- Illustrations and data may differ from standard equipment.
- Specifications are subject to change without notice.
- See your CUKUROVA dealer for available options.

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
- 4 WD
- 40 kph Transmission

ROPS/FOPS Cab

- Adjustable seat with seat belt and armrest
- Adjustable steering column
- Cab recirculating fan
- Cigarette lighter
- Front windshield washer and wiper
- Left-right side doors with locks
- Mirrors, exterior (2), interior (1)
- Rear windshield wipers
- Rotating beacon (detachable)
- Steering wheel spinner knob
- Sunvisor
- Tinted glass
- Tool box, external
- Ventilation openers
- Working lights, 2 front and 4 rear

Attachments, Front Loader

- General purpose bucket
- Loader arm safety strut

Attachments, Backhoe

- Electro-hydraulic side shifting lock
- ISO pattern controls
- Swing and Boom transport lock with mechanical control from the cab
- Standard-duty bucket(600mm)
- Stabilizer safety check valves



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

Attachments, Backhoe

- Auger
- Backhoe quick coupler
- Compactor
- Different size of backhoe buckets

- Grading bucket
- Grapple
- Hydraulic hammer piping
- Hydraulic hammer
- Safety check valves
- Trapezoidal Bucket
- Telescopic boom

OTHERS

- Air pre-cleaner
- Air condition
- Fuel Pre-Heater
- Hydraulic system
- 3* Fuel filter
- Axial Piston Pump
- Working lights 4 front and 4 rear
- Different Size Fuel Tanks
- Bigger Size Pump and Valves



With a keen awareness of its international positioning, as a pre-requisite of success and growth in a truly global era, Cukurova Makina manages collaborations with leading international partners in Turkey and abroad aiming at long-term benefit of our customers, business partners and staff. These cooperative efforts aim to achieve the highest quality of products and service delivery by Cukurova Makina where it has presence in global.

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