



ÇUKUROVA DEFENCE

4x4x4

**FAST ARMOURED
BACKHOE LOADER**

ÇUKUROVA DEFENCE

GROUP INFO

Çukurova Group is one of the leading players of Turkish economy, taking the Turkish economy to higher levels since the foundation of the Republic. Capitalizing on business opportunities at both domestically and internationally levels, Çukurova group today is on the way to becoming a global player in various fields including industry, construction, information and communication technologies, media, transportation, trade and services, financial services and energy.

Established in 1923 as a textile mill in Tarsus, a small city along the Mediterranean coast of Southern Turkey, Çukurova Group quickly grew into a conglomerate within the industrial sector especially in the area of textiles and construction machinery. Coming from a strong legacy of the industrial sector as its traditional field of activity, the Group has always placed significant emphasis on its industrial operations. As the Group progressed, it acknowledged that further penetration into other sectors was necessary to meet its ambitious strategic targets. As a result of its investments in various other business avenues, today, the group has come to be globally recognized with operations in many different sectors such as industry, defence industry (vehicles, systems and solutions), construction, communication and information technologies, media, transportation, trade and services, financial services and energy.

Effective Protection Against Mines and Explosives (OPTIONAL)

Mine protection was emphasized for preliminary design of Çukurova Armoured Fast Backhoe Loaders. The seats are specially designed for absorbing the effect of mines and secure the life-safety of crew. In addition to steel armoured, as a secondary protect on composite floor material helps for absorbing blast effect of mines. Çukurova Armoured Fast Backhoe Loaders are protected against to armor piercing (A/P) bullets of infantry rifles.



COMPANY INFO

Launched in 1968 to manufacture agricultural machines under a licensing agreement with John Deere, Çukurova Makina produced 26,250 units over the next 18 years.

In 1986, Company has started to manufacture earth moving and industrial machines under its own lisenca and brand name "ÇUKUROVA". The company's outstanding product with the capacity to produce 2,000 units per annum include; forklift trucks backhoe loaders; wheel loaders and excavators. Using and integrating our 37 years group experience in construction machinery + automotive + defence industry we are opening a new product line and feature opportunities with new defence vehicles, systems and solutions. Products are assembled at the Company manufacturing facility located in Tarsus - TÜRKİYE with a covered area of 15,000 square meters situated on a 110,000 square meter site.

Within a few years the company has increased its market share noticeably in both local and global market by reaching a valuable sales volumes over 45 countries in the world. Besides operating in Europe, North Africa, Asia Pasific, Latin America, Middle, East and Ex-Soviet countries under the network of its esteemed dealers, Since 2004 Çukurova Makina Products are marketed globally through three brand families. ÇUKUROVA. TARSUS and CMI. All new and current products are blended by worldwide know components and latest.

Run Flat Tires

Çukurova Armoured Fast Backhoe Loaders are equipped with RTF which are designed to resist the effects of deflation when punctured, and to enable machines to continue to be driven at reduced speeds 15 km/h



FAST and POWER



TECHNICAL SPECIFICATIONS

ENGINE

Cummins: QSB 220 Hp, Tier 3
Rated Power: 220 bhp
Rated Speed: 2200 rpm
Displacement : 6.7 lt
6 Cylinders, In-Line
Max. Power: 220 bhp, 2200 rpm
Max. Torque: 949 Nm, 1500 rpm
Bore and Stroke: 107x124 mm
Water Cooled

DRIVE TRAIN (Transmission)

Make : ZF
Type : Ergopower M-6WG 190
Cooling : Air – Oil Cooler
At full power without loss of speed or momentum, the ZF Ergopower transmission allows gearshifts. Gear shifts are either under operator control or fully automatic. Torque converter and low first and second gear ratios provide excellent tractive effort for loading and field scraping. Transmission with torque converter lock-up clutch. Torque converter stall ratio : 2,42 : 1
Electrical selection of 4WD

STEERING

Power assist mechanism, front steering and electronic control synchronised hydrostatic rear steering, 2WS, 4WS and Crab modes selection
0...25 k/h: Servocom and hydrostatic
0...80 km/h Servocom steering

AXLES

Exclusive Kessler axle used for military and heavy duty vehicles is used in front and rear. 4WD is engaged by the switch on front instrument panel. 4WD can be engaged in all applications; load and carry, roading, in any gear forward or reverse

TYRES AND RIMS

Tyres: 445/80 R 25
Rims: 25 - 14.00 - 1,5

TECHNICAL SPECIFICATIONS

TRAVEL SPEED (km/h)

Gears	Forward	Reverse
1st	8,8	9,4
2nd	14	23,9
3rd	22,4	55,6
4th	34,3	
5th	53	
6th	80	

BRAKES

Service brake double circuit hydraulic disc brake, parking brake on the transmission

SUSPENSION

Hydropneumatic Suspension System (HPSS) On/off road rate, suspension, leveling and stabilizing modest

LOADER PERFORMANCE

Arm Breakout: 5.020 Kgf
Shovel Breakout: 7740 Kgf
Lift Full Height: 3300 Kgf
Shovel Capacity: 1,1 m³

BACKHOE PERFORMANCE

Arm Breakout: 3690 Kgf
Bucket Breakout: 6094 Kgf
Lift Full Height: 1500 Kgf
Bucket Capacity: 0,20 m³



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TECHNICAL SPECIFICATIONS

ELECTRICAL SYSTEM

Battery: 24 V (12V x 135A) x 2
Starter: 24 V - 5,5 kW
Alternator: 24 V - 120 Amp
Black out light system

HYDRAULIC SYSTEM

System Type: Closed Center Flow Sharing
Hydraulic Pump: Variable Axial Piston Pump
Max. Flow: 162 lt/min.
Max. Pressure: 250 bar

DIMENSIONS

Total Lengths: 9070 mm
Wheel Base: 3100 mm
Turning Center Between Rear Axle: 3066 mm
Cabin Height: 2800 mm
Total Width : 2478 mm
Loader Loading Height : 3723 mm
Backhoe Max. Digging Depth: 4159 mm

TURNING (m)

Type	2WS	4WS
Kerb to Kerb	18,35	10,35
Wall to Wall	21	13,3

CAPACITIES

Fuel Tank: 200 lt
Hydraulic Tank: 100 lt
Hydraulic System: 150 lt

ATTACHMENTS AND CONTROLS

Backhoe and Loader Electrical Joystick

PROTECTION LEVEL

BR6 and BR7 (Cabin, Engine Compartment, Fuel Tank, Battery Box, cylinders)

WEIGHT

Operating Weight: 16000 (16500) Kg



TECHNICAL SPECIFICATIONS

OPTIONS

- Camera / Communication
- Central Lubrication System
- Automatic Fire Suppression
- Carbon Filter System
- Run-Flat
- Hydraulic Quick Hitch System on Loader Boom
- Hydraulic Quick Hitch System on Backhoe Boom
- Steering Emergency System
- Mine Protection Stanag 4569 2a/2b (simulation)
- Remote Control System
- Smoke Grenade Launchers
- Fire Extinguishing System
- Wide Range of Excavator Buckets including Ditching
- Breaker
- Auger



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