



**TECHNICAL
BROCHURE**

UL 1

UNDERGROUND LOADER WITH 1 M³ BUCKET, 2 TONS TRAMMING CAPACITY

SUITABLE FOR WORKING IN NARROW VEINS



KARER UL 1 is a very compact and lightweight underground loader (LHD) for narrow-vein underground mining operations.

Its fast and easy loading features offer its users the highest possible efficiency.

KARER UL 1 offers operators very good visibility and safe use. It has fast and safe maneuverability in narrow areas.

The loader is easy to use and maintain. All maintenance points are very well protected and easily accessible.

You have peace of mind with the DEUTZ brand engine with high efficiency, low fuel consumption and easy access to spare parts.

It improves the working environment in terms of noise and emissions thanks to its catalytic purifier with silencer and DEUTZ brand engine.

CAPACITIES

Bucket Volume	1 m ³
Tramming	2,000 kg
Max Breakout Force, Lift	45,000 N
Max Breakout Force, Tilt	50,000 N
Oscillation Angle	8°

DIMENSIONS

Length*Width*Height	585*135*197cm
Min. Ground Clearance	20 cm
Max Lift Height	324 cm
Max Unloading Height	113 cm

MOVEMENT TIMES

Raising	3.8 sec
Lowering	1.9 sec
Dumping	2.5 sec
Max. Speed	8 km/h

WEIGHTS

Operating Weight	6,650 kg
Loaded Weight	8,650 kg
Front Axle (Unloaded)	2,180 kg
Rear Axle (Unloaded)	4,470 kg
Front Axle (Loaded)	5,010 kg
Rear Axle (Loaded)	3,640 kg

* Machine weight may vary depending on options

AKTARMA

Tip	Hidrostatik
Pompa	DANFOSS
Motor	DANFOSS

TRANSMISSION

Type	Hydrostatic
Pump	DANFOSS
Motor	DANFOSS

AXLES

Brand	KARER
Front Axle	Locked
Rear Axle	Standard

BRAKES

The service (working) brake is provided via the hydrostatic transfer case.

The parking brake is located on the hydrostatic transfer case.

The emergency brake is located on the hydrostatic transfer case.

ENGINE

Model	DEUTZ BF4L914
Type	Air-Cool & Turbo-Charge
Power	66kW@2300rpm
Cylinder	In Line 4
Electric	12 V
Emission	Stage 2
Air Filter	Dry Air Cleaner
Exhaust	Catalytic Purifier with Silencer

TANK CAPACITIES

Fuel Tank	70 liters
Hydraulic Oil Tank	200 liters

TRANSFER CASE

Type	Gear
Location	At Rear Chassis

ELECTRIC

Battery	2 * 12V
Starter	4 kW / 24 V
Lights	
Front (At top of Canopy)	2 * 42W LED
Front (Boom Connection Point Top)	1 * 42W LED
Rear	2 * 42W LED

CANOPY

Washable canopy floor to reduce dust

Armrest

Seating area with very good two-way visibility and comfortable use during work

DASHBOARD AND SCREENS

Critical warnings and alarms are displayed with warning lights.

The panel has an electric display.

The panel includes illuminated switches.

WHEELS

Tire Dimensions	10.00-20 PR14 L-4S
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FRAME (CHASSIS)

ROPS/FOPS certified cabin
Seating area that provides a very good two-way view and comfortable use during work
Improved boom and load frame geometry to optimize performance
High strength, heavy impact and load resistant steel structure with optimized material thicknesses
Water washable floor to reduce dust
Bolted and welded tanks
Bucket made of high strength, wear-resistant steel

HYDRAULIC

WALVOIL brand high-quality joystick
WALVOIL brand high-quality control valves
Hydraulic oil cooler
One double acting cylinder with center point joint
The lifting boom system has one cylinder
The lowering boom system has one cylinder.
Steering controlled by hydraulic lever or steering wheel
Bucket and boom movements controlled by joystick
Oil level indicator
The lifting boom system has one cylinder
Releasing the brakes with the hand pump

STEERING

Bucket and boom control is provided by the joystick, which provides ease of use to the operator.
The joystick is equipped with a gear pump that supplies oil to the bucket hydraulic main valve.
A hydraulic lever or steering wheel was used for steering.
DANFOSS brand hydraulic pump was used.

WORKING CONDITIONS

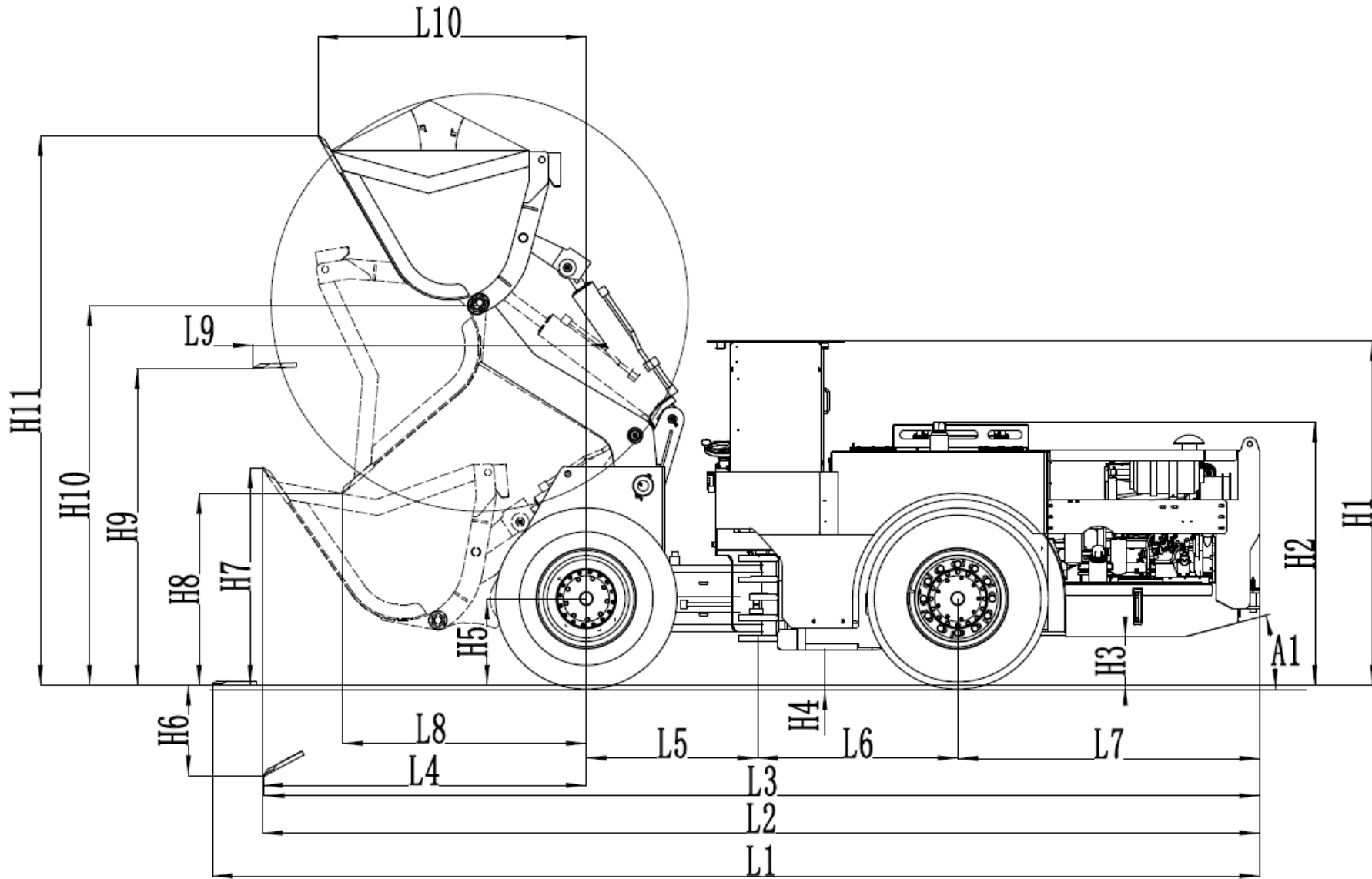
Temp.	-15°C ~ +45°C
Altitude	No power loss at 25°C temperatures between -1,500 and +3,000 meters

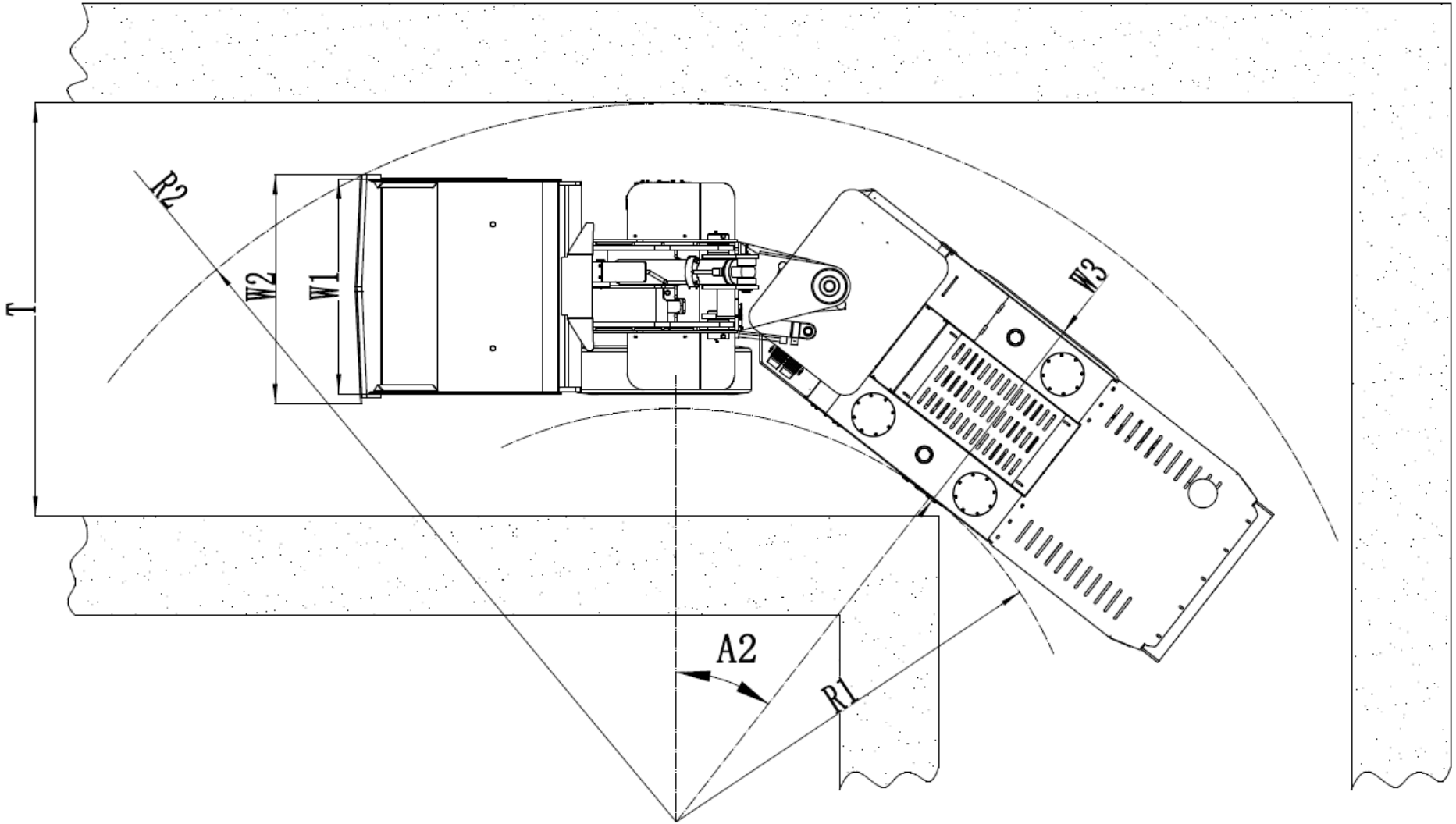
OPTIONAL ENGINE (EURO 5, STAGE V)

Model	DEUTZ TD 3.6 L4
Type	Water Cooled
Power	55,4kW@2600rpm
Cylinder	In Line 4
Electric	12 V
Emission	Stage V
Air Filter	Diesel Particulate Filter
Exhaust	Catalytic Purifier with Silencer

DIMENSIONS

L1 (mm)	6,176
L2 (mm)	5,850
L3 (mm)	5,869
L4 (mm)	1,913
L5 (mm)	1,010
L6 (mm)	1,180
L7 (mm)	1,779
L8 (mm)	1,438
L9 (mm)	1,964
L10 (mm)	1,585
H1 (mm)	1,970
H2 (mm)	1,550
H3 (mm)	285
H4 (mm)	200
H5 (mm)	510
H6 (mm)	533
H7 (mm)	1,282
H8 (mm)	1,130
H9 (mm)	1,866
H10 (mm)	2,238
H11 (mm)	3,238
W1 (mm)	1,300
W2 (mm)	1,350
W3 (mm)	1,300
A1	15°
A2	38°
R1 (mm)	2,100
R2 (mm)	4,350
T (mm)	2,500







KARER KARADAVUT ERDEM MAKİNA ENERJİ SANAYİ VE TİCARET LİMİTED ŞİRKETİ

+90 553 531 77 50 satis@karer.tr

Ostim OSB Mh. 1235. Cd. No:81 Yenimahalle / ANKARA

www.karer.tr