Articulated Truck

TA 230

Operating Weight: 23,300 kg
Engine Output: 270 kW/367 HP
Dump Body Capacity: 19.0 m³
Payload: 30,000 kg



LIEBHERR

Technical Data



Liebherr Diesel Engine Design	D 936 L A6 G-cylinder inline engine, water cooled, turbo-charger, water cooled intercooler, emission improved
Displacement	_ 10.5 l
Performance (ISO 3046)	270 KW/367 HP at 1,900 rpm
Max. torque	_ 1,800 Nm at 1,400 rpm
Exhaust emissions	according to guideline 97/68/EG stage IIIA and EPA/CARB Tier 3
Injection	electronic direct injection
Air filter	dry air filter with precleaner, main and safety element
Cooling	fan hydrostatically driven and temperature regulated
Operating voltage	_24 V
Battery	2 x 12 V/170 Ah
Alternator	2 x 3-phase generator 28 V/80 A
Starter	_7.8 kW



Transmission	electronically controlled, automatic power- shift transmission, torque converter with lock-up clutch, 8 gears forward, 4 gears reverse, integrated distributor gear with powershift lateral differential
Speeds	57 km/h forward with reduced engine rpm
Drive train	16 km/h backwards (electronically limited) 6 x 6 standard drive train with powershift lateral differential between front axle and rear axles



Front axle	two swinging half axles with two hydro- pneumatic cushioning cylinders, cushioning travel ± 75 mm, maintenance-free bearings self-locking transverse differential, 45 % locking effect
Rear axles	heavy duty axles with self-locking transverse differentials, 40 % lock value
Gear ratio	_ planetary gears in the wheel hubs



Operating brake	retarder function consisting of engine brake and transmission retarder, variable adjust- ment, acting upon all wheels
Safety brake	2 circuit, hydraulically operated, oil cooled wet disc brake acting on front and middle axle
Parking brake	spring applied disc brake acting upon the driveshaft of rear axles (hydraulically releasable)



Design	hydraulic, 2 dual acting cylinders, combined articulated and oscillating joint with Liebherr ball bearing ring
Steering angleSteering wheel turns from	_ ± 45°
stop to stop	_ 4.5



Standard tires	. 23.5R25
Design	earthmoving radial, tubeless
Special tires	750/65B25



Hydraulic System

Hydraulic circuit	on-demand flow control, engine driven axial piston pump, wheel driven piston pump for emergency steering
Max. flow	_ 344 l/min.
Max. operating pressure_	_ 25 MPa
Operation	
. Dumping	_ dump body operating lever with automatic engine rpm increase
Retarder	variably adjustable hand lever, retarder steps preselectable, gas pedal overrides retarder
Transmission	automatic mode, gear preselection, manual shift possible
Filtration	_ return filter, 12 μm



operator	5 ddis
Cab	elastic suspension, closed pressure ventilation, electro-hydraulically tiltable by 45° to the right, integrated ROPS/FOPS structure, tinted safety glass, wiper/washing system with interval operation for front window, sound isolated, telescopic and horizontally adjustable steering column, sliding window left and right, fresh air filter with prefilter, additional recirculated air filter, exterior mirror and front window heater
Operator's seat	6-way adjustable, cushioned operator's seat with automatic seat belt, adjustable to the weight of the operator, additional trainer's seat
Ventilation	heater and air conditioning, pressure venti- lation with fresh air intake and filtration, variable fan
Heating	warm water heater, defrost function for front and side windows



Filling Quantities

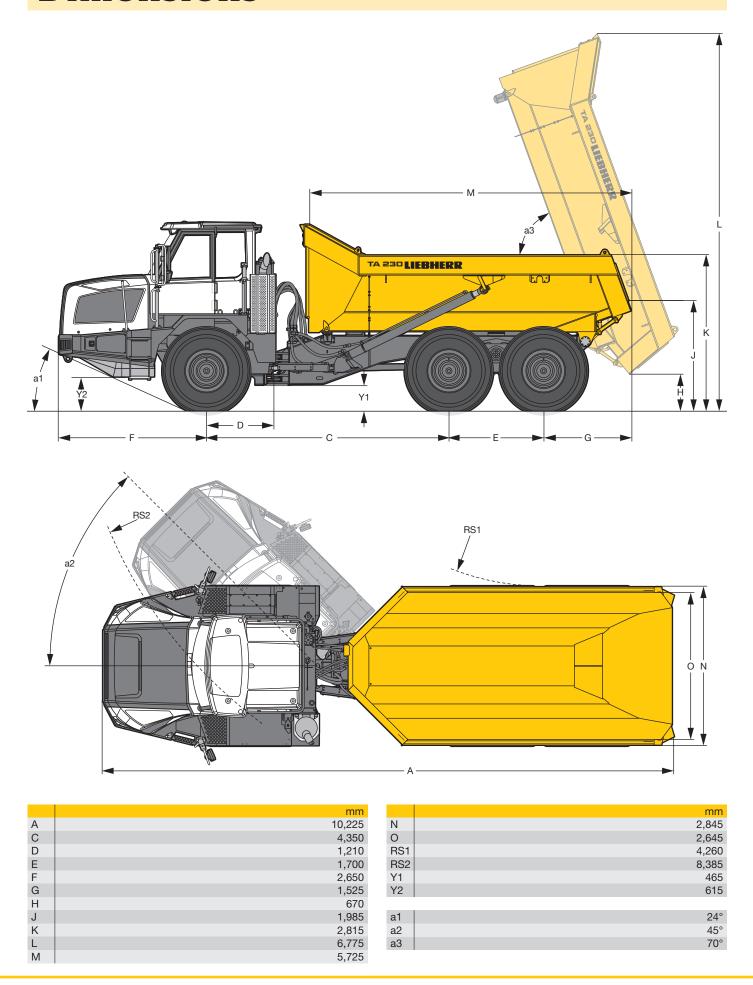
Fuel tank	400 I
Cooling system	120 I
Engine oil (incl. filter)	34 I
Hydraulic tank	250 I
Cooling oil tank brake	64 I
Transmission	55 I
Wheel hub each	3.3 l
Axles	33 I
Differential	18 I



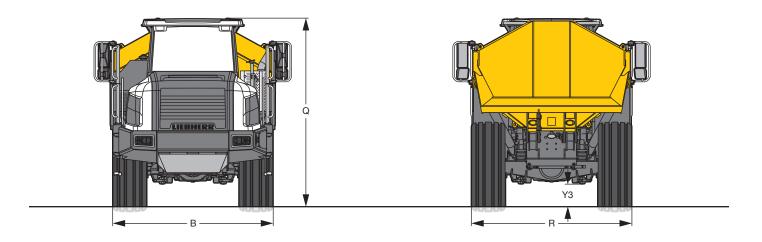
Dump Body Capacity

Volume	
swept	. 14.2 m ³
stacked 2:1	18.0 m ³ according to ISO 6483
with flap swept	. 14.8 m ³
with flap stacked 2:1	. 19.0 m ³ according to ISO 6483
Payload	. 30,000 kg
Dumping time	. 12 s
Lowering time	.8s
	. 70°
. 0	

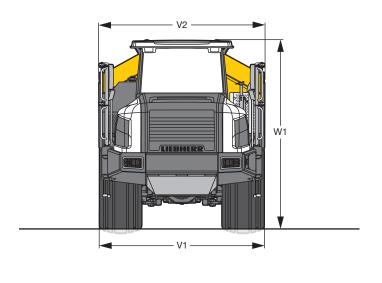
Dimensions

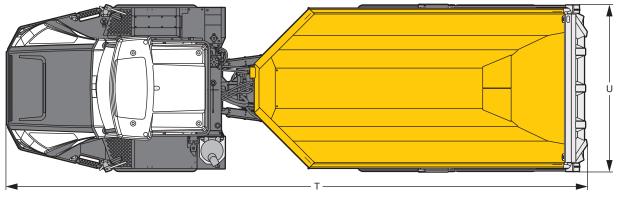


Dimensions



Transport Dimensions Incl. option for dump body flap and including special tires

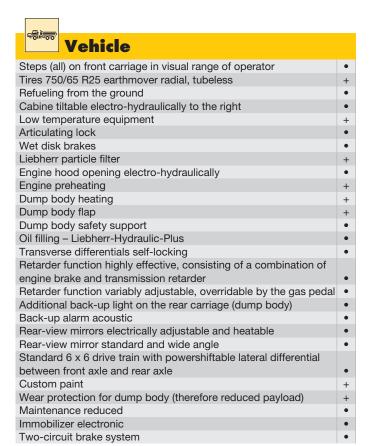


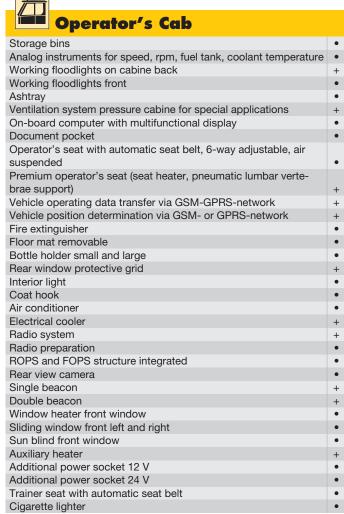


	mm
В	2,885
Q	2,885 3,395
R	2,885 10,325
Т	10,325
U	2,960

	mm
V1	2,960 2,980 3,395 410
V2	2,980
W1	3,395
Y3	410

Equipment





• = Standard, + = Option

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr to retain warranty.

All illustrations and data may differ from standard equipment. Subject to change without notice.

The Liebherr Group of Companies

Wide product range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields, too. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional customer benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical application.

State-of-the-art technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured inhouse, for instance the entire drive and control technology for construction equipment.

Worldwide and independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 100 companies with over 32,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.











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