

Technical data



Diesel engine

Rating	
per SAE J1349	355 HP (265 kW) at 2,100 rpm
per ISO 9249	360 HP (265 kW) at 2,100 rpm
Model	Liebherr D956
Type	6 cylinder in-line
Bore / Stroke	5.1 / 5.9 in
Displacement	732.3 in ³
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooled Reduced emissions
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Electrical system	
Voltage	24 V
Batteries	2 x 12 V / 180 Ah
Alternator	Three-phase current 28 V / 140 A
Starter	6.5 kW
Stage V	
Harmful emissions values	According to regulation (EU) 2016/1628
Emission control	Liebherr-SCRFilter technology
Tier 4 Final	
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)
Emission control	Liebherr-SCR technology
Non-regulated	Only for selected markets
Emission control	Without Liebherr-EGR technology



Cooling system

Diesel engine	Water-cooled Compact cooling system consisting of: cooling units for water, hydraulic oil, fuel and climate condenser, charge the air with stepless thermostatically controlled fan. Foldable radiator allowing easy cleaning
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Drive train

Transmission	Automatic powershift transmission with torque converter and converter bypass clutch, 8 forward and 4 reverse speeds, integral distributor gear box with load-switchable inter-axle differential lock
Speeds	57 km/h forward 16 km/h backwards
Drive train	6 x 6 permanent all-wheel drive with automatic inter-axle differential lock, switchable lateral differential lock on all axles (can be activated manually)



Axles

Front axle	External planetary axle with load-switchable differential lock, four-point suspension with hydro-pneumatic spring cylinders, maintenance-free bearings
Rear axles	External planetary axle with load-switchable differential lock, four-point suspension, maintenance-free bearings



Brakes

Continuous-operation brake system	Electronically controlled continuous-operation brake system consisting of engine brake and hydro-dynamic primary retarder
Operating brake*	Hydraulic multi-disc brakes, 2 brake circuits acting on all wheels
Parking brake*	Disc brake with hydraulic spring accumulator cylinder acting on rear axles

* Brake system complies with standard DIN EN ISO 3450



Steering

Design	Electro-hydraulic, speed-dependent steering, 2 dual-action cylinders combined with articulated steering
Steering angle	± 45°
Steering wheel turns from stop to stop	4.5



Hydraulic system

Hydraulic circuit	On-demand flow control, engine driven axial piston pump, wheel driven piston pump for emergency steering
Max. flow	93 gpm
Max. pressure	3,481 psi
Operation	
Dumping	Dump body operating lever with automatic engine rpm increase
Filtration	Return filter (10 µm), integral magnetic rod



Filling quantities

Fuel tank	96 gal
Urea tank	12 gal
(only Stage V / Tier 4 Final)	
Cooling system	30 gal
Engine oil (incl. filter)	11 gal
Hydraulic tank	44 gal
Gear oil (replacement volume)	13 gal
Axles	28 gal



Tires

Design	Earthmoving radial, tubeless
Wide base tires	750/65 R 25
Rock tires	23.5 R 25
Standard tires	23.5 R 25



Dump body capacity

Volume	
Swept	17.8 yd ³
Stacked 2:1	22.9 yd ³ according to ISO 6483
With flap swept	18.2 yd ³
With flap stacked 2:1	23.7 yd ³ according to ISO 6483
Payload	61,700 lb
Dumping time	12 s
Lowering time	8 s
Dump angle	70°



Operating weight

Axle loads (unladen)	
Front axle	31,100 lb
Middle axle	11,700 lb
Rear axle	11,500 lb
Gross weight	54,200 lb
Axle loads (with maximum load)	
Front axle	35,900 lb
Middle axle	40,100 lb
Rear axle	39,900 lb
Gross weight	116,000 lb



Complete machine

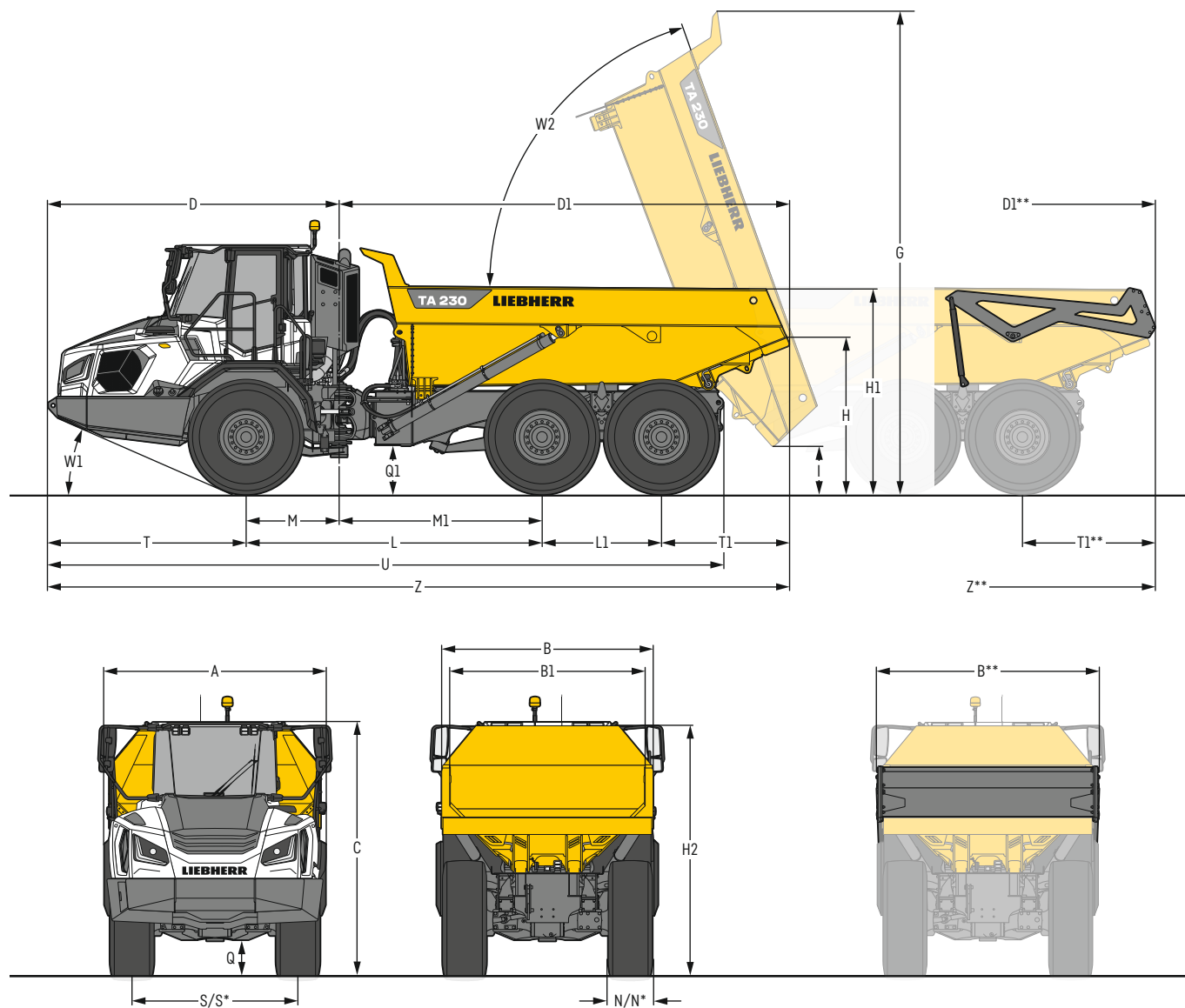
Type	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of dump body and cylinder
Hydraulic cylinders	Hydraulic cylinders with special sealing and guide system and shock absorption which can be activated and deactivated at the touch of a button
Bearings	Sealed, low maintenance
Lubrication	Liebherr automatic central lubrication system for front and rear of the truck
Noise emission	
ISO 6396 (Stage V)	72 dB(A) = L _{PA} (inside cab)
2000/14/EC	109 dB(A) = L _{WA} (surround noise)

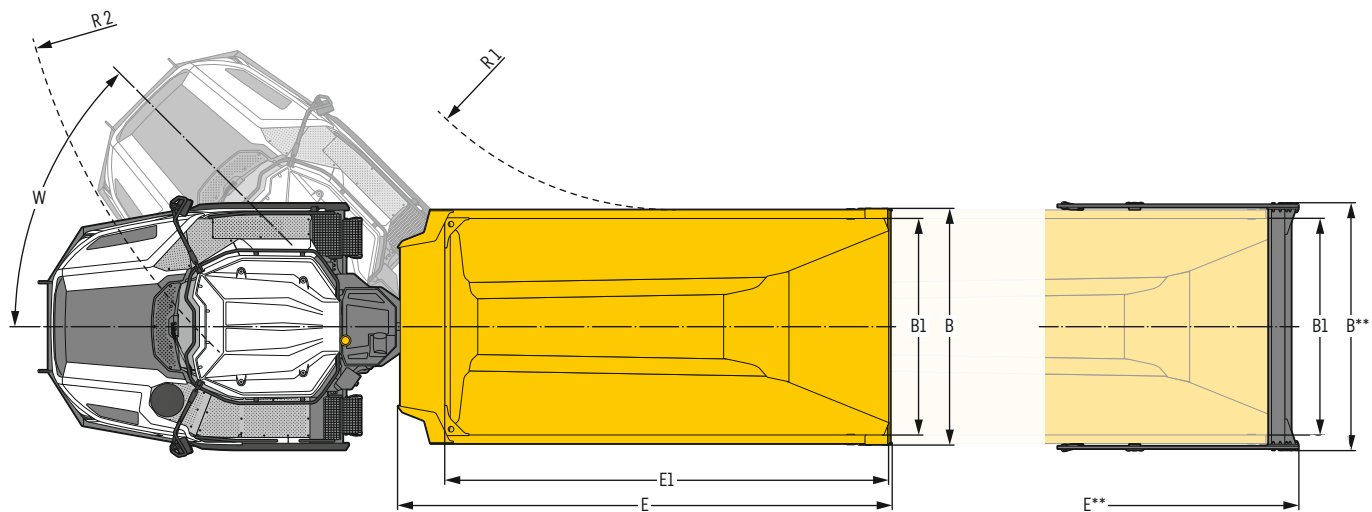


Cab

Cab	Elastically mounted, noise-insulated, integral ROPS / FOPS structure, seal pressurized ventilation system, fresh air filter with initial filter, additional recirculated air filter, operator's cab with excellent visibility to the front and side and in the articulation zone, tinted safety glass all-round, sliding window on the right, rear window heating, wash / wipe system with multi-setting intermittent function for windshield, wide roll-down sun visor for windshield, steering column can be swivelled and telescoped with dirt seal, grab handles for the safety of the operator and passenger, convertible footrest, lots of storage trays with removable inserts, tilt-and-turn drawer, glasses holder, smartphone holder with USB interface charging facility, air conditioned cooling compartment with adjustable nozzle, roof casing with enhanced water flow, surrounding roof railing
Operator's seat Comfort	Operator's seat with adjustable armrests, headrest, lap belt with belt buckle monitor, additional instructor seat, pneumatic suspension with automatic weight adjustment, lockable longitudinal horizontal suspension, adjustable seat cushion inclination and length, adjustable suspension stiffness, pneumatic lumbar vertebrae support, seat heater and passive seat climatization with active coal
Operator's seat Premium (Option)	In addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), additionally locking lateral horizontal suspension, pneumatic low frequency suspension
Operation and displays	Large high-resolution operating unit with touchscreen control, self-explanatory, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine parameters, positions of control elements for intuitive use in the front and top comfort area
Air-conditioning	Automatic air-conditioning, recirculated air function, fast de-icing (Defrost) and demisting at the press of a button, air vents can be operated via a menu; airflow can be directed at door and side windows, recirculated air and fresh air filters can be easily replaced, initial filter can be cleaned; all filters accessible from outside; heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures

Dimensions





	ft in
A	9' 10"
B	9' 5"
B**	9' 10"
B1	8' 8"
C	11' 2"
D	13' 4"
D1	20' 8"
D1**	20' 11"
E	19' 8"
E**	19' 11"
E1	17' 8"
G	21' 11"
H	6' 11"
H1	9' 3"
H2	11'
I	1' 11"
L	13' 7"
L1	5' 6"
M	4' 3"

* = with wide base tires

** = with tailgate

	ft in
M1	9' 4"
N	2'
N*	2' 5"
Q	1' 5"
Q1	1' 11"
R1	13' 5"
R2	26' 5"
S	7' 4"
S*	7' 4"
T	9' 1"
T1	5' 10"
T1**	6' 1"
U	31'
W	45.0°
W1	23.4°
W2	70.0°
Z	34'
Z**	34' 3"