Model code : UKM_40Y6086BAL16
Print date: 13/03/2024
Last updated: 13/03/2024

Prepared for :

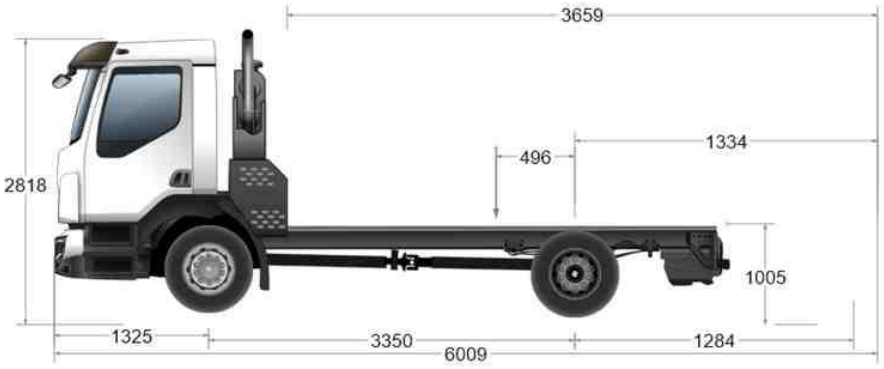
RENAULT TRUCKS D 16 4X2 R SWEEPER 250 E6 - GVW 16T / GCW 16 T SWEEPER

RENAULT TRUCKS

D 16

Body Type:
SWEEPER







WEIGHTS

Wheelbase		mm	3.350
Payload	(C)	Kg	11162
Maximum Weight (registered)	Total (GVW)	Kg	16000
	Front axle 1	Kg	5800
	rear axle 1	Kg	10900
Min. weight complete vehicle unladen	Front axle(s)	Kg	3983
Kerb Weight	total	Kg	4838
Chassis cab kerb weight	Front Axle 1	Kg	3449
	Rear Axle 1	Kg	1389
Total vehicle weight under full load at YMAX	Front axle(s)	Kg	5606
	Rear axle(s)	Kg	10394
Total vehicle weight under full load at YMIN	Front axle(s)	Kg	5100
	Rear axle(s)	Kg	10900

This table includes the weights of the RENAULT TRUCKS options: full urea tank, oil, screen wash fluid and coolant at 100%, fuel fill level 90% and driver present (75 kg)
To maintain the driving comfort (lightness of steering, braking) of vehicles in all load and driving conditions once the vehicle is bodied, the following minimum front axle load(s) must be respected: 2500 kg

LENGTHS

Wheelbase		mm	3.350
Front Overhang	(H / BEP L016)	mm	1325
Wheelbase	(F / BEP L011)	mm	3350
Rear overhang	Chassis, overall (BEP L017)	mm	1284
Bodywork rear overhang	Min. (Xmin / BEP L017)	mm	1030
	Max. (Xmax / BEP L017)	mm	1334
Cab entry	(B / BEP L102)	mm	1025
Body length	Min. (Wmin / BEP L105)	mm	3355
	Max. (Wmax / BEP L105)	mm	3659
Load Centre of Gravity	Total	mm	0
Centre of Gravity of load	Max. (Ymax / BEP L103)	mm	648
	Min. (Ymin / BEP L104)	mm	496
Centre of Gravity of vehicle	at X (BEP L044)	mm	977
Overall Chassis Length	(A / BEP L001)	mm	5959

HEIGHTS

Wheelbase		mm	3.350
Ground clearance, laden	Rear (U3 / BEP H016)	mm	196
	Front (U1 / BEP H015)	mm	228
Max. exterior height unladen	(BEP H001)	mm	3174
Max. exterior height, cab tilted, unladen	(O1 / BEP H061)	mm	3269
Cab height (unladen)	(O)	mm	2818
Distance from ground to lowest point at front of vehicle	Unladen (H0 / BEP H18)	mm	388
	Laden (H0 / BEP H18)	mm	326
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	946
	Laden (H1 / BEP H036)	mm	880
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	1005
	Laden (H2 / BEP H038)	mm	926
Frame top height at the rear of the frame	Unladen (HN)	mm	1024
	Laden (HN)	mm	940
Centre of Gravity of vehicle	Unladen at Z (BEP H044)	mm	794
Side member height	(BEP H032)	mm	234

TOWING DEVICE

Wheelbase		mm	3.350
Distance between the front of the vehicle and the centre of the trailer coupling device	(BEP L045 + L016)	mm	
Distance between centre of last axle to centre of coupling device		mm	
Height of towing hook / top of side member	(BEP H045)	mm	

WIDTHS

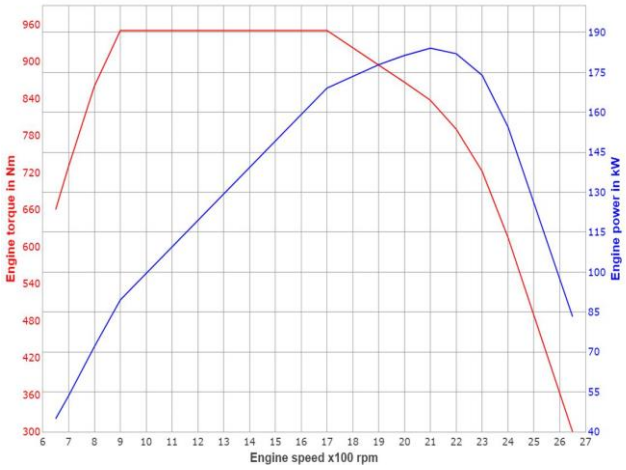
Wheelbase		mm	3.350
Max exterior cab width with rear view mirrors open	(BEP W001)	mm	2985
Max. cab width	(BEP W002)	mm	2276
Frame width	Front (BEP W035)	mm	864
	Rear (BEP W036)	mm	864
Width at rear wheels	Rear axle 1 (V3 / BEP W003.2)	mm	2427
Track	Rear 1 (V2 / BEP W013.2)	mm	1832
	Front (V1 / BEP W013.1)	mm	1922

OTHER

Wheelbase		mm	3.350
Approach angle	(BEP H010)	°	17
Ramp angle	(BEP H012)	°	51.0
Departure angle	(BEP H011)	°	16.7
Side member thickness	(BEP W034)	mm	7
Turning Radius	Overall (BEP W012)	mm	6650
	kerb to kerb	mm	5991.5
	interior	mm	2409

DTI 8 ENGINE

Antifreeze protection: -25°C.
Max. power: 184 kW at 2100 rpm
Max. torque: 950 Nm from 900 rpm to 1700 rpm
Power output (UK): 247 hp
6-cylinder in-line diesel engine - 4 valves per cylinder - Rear-mounted timing
COMMON RAIL high-pressure direct fuel-injection 2000 bar
Bore 110 mm - stroke 135 mm - Capacity 7.7 litres
Variable geometry turbocharger
Exhaust gas recirculation
Direction of rotation (seen from G/B end): anti-clockwise
Oil capacity: 27 L including filtration
Standard engine oil change interval
Sheet metal oil sump
Cooling circuit capacity: 17 litres
EEC EURO VI pollution control level
Compact post-treatment system (7th injector, catalytic converter, DPF, SCR)
Cooling liquid
Manual regeneration of the particulate filter, recommended for bodywork installations with auxiliary motor
Noise standard R51.03



ENGINE EQUIPMENT

Partial gas recycling (semi-closed circuit)
Without engine Power Take Off.
Electronic speed limiter (90 km/h).
Screen under engine to avoid turbulence from fan when sweeping dead leaves

CLUTCH

SAE 395 pushed clutch

GEARBOX

ZF 6S 1000 TO
6-speed manual gearbox (synchromesh) and 1 reverse gear (6.75 - 0.77).
In-line gear pattern.
SERVOSHIFT gear changing assistance.
Cable-operated gearshift control.

RETARDER

Exhaust-mounted retarder (120 kW at 2800 rpm)

POWER TAKE-OFF

Without gearbox mounted PTO

STEERING

Hydraulic steering box with variable step-down power assistance.
Driving on the left

FRONT AXLE

Front axle plating: 5.80 t.

WHEELS AND TYRES

Dimension 285/70 R19.5
Profile G. KMAX S/D
Steel disc wheels

ISO_11992 compatible tyre pressure monitoring system
Front wheel trims
Without spare wheel.

REAR DRIVE AXLE

P11140 drive axle with single reduction
Without differential lock.
Load capacity: Rear axle: 10.9 t
Drive axle ratio: 5.29
Engine speed at 90 km/h: 0 rpm

Service brake:

Braking system with two independent circuits
All-disc brakes
Single cylinder air compressor 500 l/min, 360 cm³
Electronic management of air production by APM (Air Product Management)
Dryer cartridge optimised by preventive maintenance

EBS:

Anti-lock braking system (ABS).
Anti-slip regulation (ASR).
Drag torque control (Torque control during downshifting).
(Disc) brake pad wear compensation
Retarder and service brake linking
Differential engagement management (if equipped) at speeds <10 km/h (4x2)
Hill Start Assist
Braking performance warning
ESC (Electronic Stability Control) trajectory control and anti-rollover system
Coupling traction test
Emergency brake assist (EBA)

Parking brake:

Air operated spring brake actuators on rear wheels

CAB

Cab exterior:

Day cab
All steel Cab, electro-zinc plated and cataphoretic paint treatment.
Cab paint colour: White ekla
technical code: 09350
Red badge
Anti-spray deflectors
Cab suspension with rubber pads on the front and mechanical on the rear
Hydraulic cab tilt.
2 heated, remote control rear view mirrors.
2 wide angle rearview mirrors.
Kerb view mirror.
Rear view mirrors for bodywork from 2500 to 2600 mm wide
Fold-back front view mirror
High-level air intake .
Spray suppression on front wings
LED headlights and LED step lights
Exterior parts finished in black
External sun visor
Tinted, laminated windscreen.
Tinted rear cab window
Passenger side vision door with lower tinted window
Pre-equipment for roof gantry.

Cab interior:

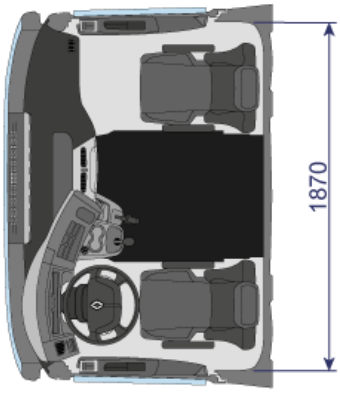
Upper storage shelf, 2 storage boxes (50 l) closed by doors
Driver lateral sun-visor
Three sun blinds on windscreen
With digital camera.
DTCO 4.1 digital tachograph
No roof air vent
Air-suspended COMFORT driver's seat, with lumbar support, heated seat base and seatback, seat depth adjustment and seat-mounted seat belt
Driver's armrest
Red seat belts
Safety belt warning.
Non-suspended fixed passenger seat
Cab lighting time-delay.
2 Coat hooks on rear panel
Electrically operated door windows
Air conditioning
Handbook and Service pack in English.

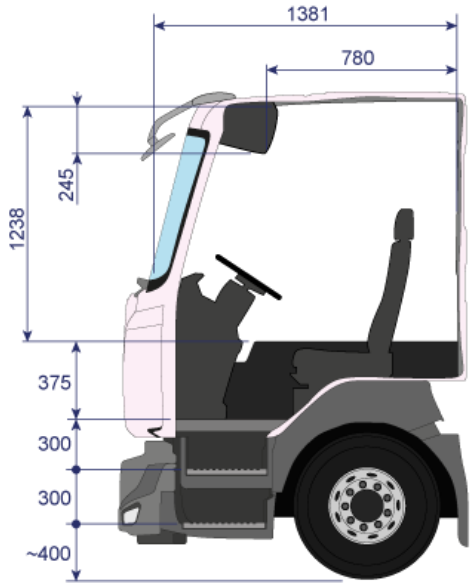
Steering wheel equipment:

4-spoke steering wheel adjustable for height and depth, includes cruise control controls
Analog and digital DAB/DAB+ radio
Bluetooth 4.0 for audio playback streaming with hands-free function and steering wheel-mounted controls
USB port underneath radio

Instrument panel:

Central tablet support with 2 USB-C ports
Speedometer in miles
12V socket on dashboard, for accessories.
Starting inhibitor controlled by transponder key.
Folding key.
Remote control central door locking.
Speed limiter adjustable via steering wheel control (ASL)
Cruise Control with steering wheel-mounted controls





ELECTRONIC EQUIPMENT:

English and French language display
Additional language (German)
SAE cab socket for vehicle data extraction
FMS Gateway fleet management interface
Assistance button for geolocation via the 24/7 platform
4G TGW3 telematics unit (telematic gateway) including an antenna and enabling subscription to Optifleet services (Map, Check, Drive)
TELENOR SIM card
Driver Alert System (DAS) and Lane Departure Warning System (LDWS)
Side radar for covering both sides of the truck
Forward Collision Warning System with Advanced Emergency Braking System (AEBS)

ELECTRICAL EQUIPMENT

Battery capacity: 185 Ah
Batteries with level check
Battery isolation remote control
Alternator : 110 amp capacity.
LED rear signalling and lighting (EEC standard e2 10113)

CHASSIS

Chassis protective paintwork, mineral grey colour
technical code: 03650
Pre-equipment for sweeper body
Standard overhang specific to sweeper
Removable front towing cap
Front under-run protection.
Rear under-run bar
Without rear closing crossmember.
Vertical exhaust with left-hand extension

BUMPER - STEPS AND LIGHTING

Plastic bumper with steel corner pieces
Access to driving position by 2 stepwell steps.
Step lighting.
Lighting adjustment
LED day running lights

SUSPENSION

Front suspension

Front parabolic leaf springs.

Rear suspension:

Rear asymetrical leaf springs.
Telescopic shock absorbers.

FUEL TANK

Plastic tank
130-litre tank located in the rear overhang

AdBlue

32-litre AdBlue tank inside the chassis.

STANDARD EQUIPMENT

Reversing warning buzzer, including night switch.
Windscreen washer bottle capacity: 12L

BODYWORK

Body mounting brackets (front only)
Bodybuilder access through bulkhead

Bodybuilder BBM electronic box interface bodybuilder expert functions via CAN bus).

CAB REAR GROUPING

Grouping air reservoirs, batteries, after-treatment with vertical exhaust and air filter at the back of the cab
200 Amp fuse for bodybuilder connection.
Air Product Manager

SERVICE

Optifleet:

Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 2-year prepaid subscription

GEARBOX RATIOS

1	2	3	4	5	6
6.75	3.60	2.13	1.39	1.00	0.78

The manufacturer reserves the right to modify the specifications above without prior notice.
Non contractual document.
For further assistance please contact Product Applications at Renault Trucks UK Limited, Wedgnock Lane , Warwick , CV34 5YA Telephone +44 (0)1926 475333.