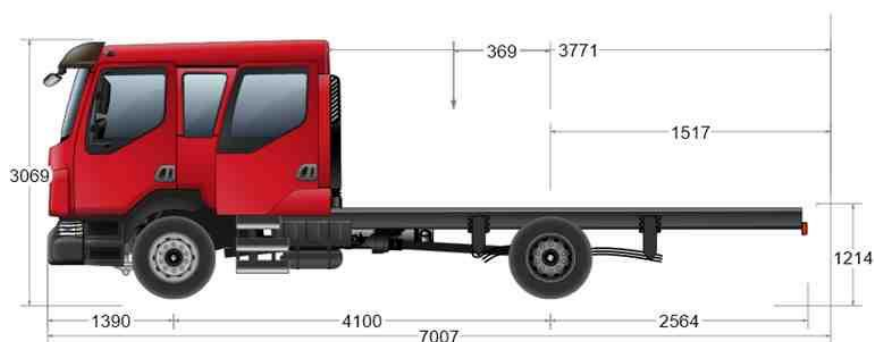


RENAULT TRUCKS D 16 HIGH K P4X4 280E6 - GVM 16 t / DMCZ 25 t

RENAULT TRUCKS

D 16

Body type:
FIRE VEHICLE



MASSES

Wheel base		mm	4,100
Maximum permissible gross vehicle weight for registration purposes	Total (GVM)	kg	16000
Capacity	(C)	kg	9565
Chassis weight	Sum	kg	6435
	front axle group (lowered axle)	kg	4240
	rear axle group (lowered axle)	kg	2195
Maximum permissible gross vehicle weight for registration purposes	Front axle 1	kg	5600
	rear axle 1	kg	10900
Maximum technical weight	total weight (CoC: 16.1)	kg	16000
	front axle group (CoC: 16.3)	kg	5600
	rear axle group (CoC: 16.3)	kg	10900

The table includes the weight of the RENAULT TRUCKS option, full AdBlue, oil, windscreen washer and coolant tanks, fuel level in the tank 90% with driver (75 kg)

In order to maintain driving comfort (steering, braking) in all load conditions after the vehicle bodywork has been completed, the following minimum front axle load must be observed: 2500 kg

INDIVIDUAL TECHNICAL CHARACTERISTICS

LENGTHS

Wheel base		mm	4,100
Built-in length	min (Wmin / BEP L105)	mm	4149
	max. (Wmax / BEP L105)	mm	4714
Front overhang	(H / BEP L016)	mm	1390
The beginning of construction	(B / BEP L102)	mm	1846
Wheel base	(F / BEP L011)	mm	4100
Technical spacing	(F' / BEP L015)	mm	4100
Rear overhang	(BEP L017)	mm	2564
Overall chassis length	(A / BEP L001)	mm	7966
Load center of gravity	mini (Ymin / BEP L104)	mm	369
	max. (Ymax / BEP L103)	mm	369
Minimum vehicle length (Z)	(Zmin / BEP L001)	mm	7007
Maximum vehicle length (Z)	(Zmax / BEP L001)	mm	7007
Rear body overhang	mini (Xmin / BEP L017)	mm	1517
	max (Xmax: BEP L017)	mm	1517

HEIGHTS

Wheel base		mm	4,100
Roof height from ground without load	(ABOUT)	mm	3069
Maximum external height without load	(BEP H001)	mm	3092
Height of stringers	(BEP H032)	mm	236
Ground clearance, with load	front (U1 / BEP H015)	mm	329
	back (U3 / BEP H016)	mm	309
Frame height from ground in front axle position	no load (H1 / BEP H035)	mm	1159
	with load (H1 / BEP H036)	mm	1121
Frame height from the ground in bridge position	no load (H2 / BEP H037)	mm	1214
	with load (H2 / BEP H038)	mm	1138
Height of the end of the frame from the ground	no load (HN)	mm	1247
	with load (HN)	mm	1149

WIDTH

Wheel base		mm	4,100
Cabin width with fenders	(BEP W002)	mm	2400
Frame width	front (BEP W035)	mm	866
	rear (BEP W036)	mm	866
Width at rear wheel height	rear axle 1 (V3 / BEP W003.2)	mm	2432
Wheelbase	front (V1 / BEP W013.1)	mm	1988
	rear 1 (V2 / BEP W013.2)	mm	1833

DIFFERENT

Wheel base		mm	4,100
Thickness of stringers	(BEP W034)	mm	8
Turning radius	between the curbs	mm	8439.5
	external (BEP W012)	mm	9050



INDIVIDUAL TECHNICAL CHARACTERISTICS

DTI 8 ENGINE

Radiator antifreeze: up to -40° C.

Maximum power: 210 kW at 2100 rpm

Max torque: 1050 Nm from 950 to 1600 rpm

Diesel, 6-cylinder, in-line - 4 valves per cylinder - rear timing
2000 bar Common Rail high-pressure direct injection.

Cylinder diameter 110 mm - piston stroke 135 mm -
Displacement 7.7 l.

Supercharged with a variable geometry turbocharger
Exhaust gas recirculation

Direction of rotation (from SB side): counter-clockwise.

Lubrication system capacity: 27 l including filter

Standard engine oil change interval

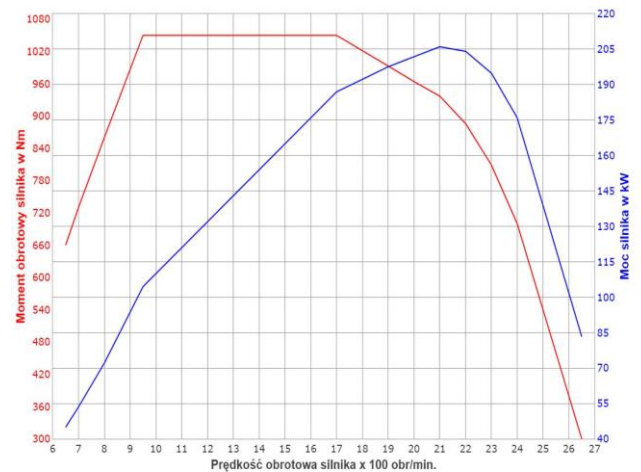
Cooling system capacity: 17 liters

EU EURO VI exhaust emission level

Compact exhaust gas cleaning system (7y injector, catalytic
converter, DPF, SCR)

Coolant

Noise standard R51.03 phase 2



ENGINE ACCESSORIES

Controlling idle speed while driving (muddy site)

Partial oil vapor recirculation (semi-closed system)

Cold engine starting system by heating the intake air.

Without engine power take-off.

Electronic speed limiter (90 km/h)

CLUTCH

SAE 395 push clutch

TRANSMISSION

ZF 6S 1000 TO

6 forward synchronized gears and 1 reverse (6.72 - 0.77).

SERVOSHIFT gear shift assist.

Cable control.

TRANSFER BOX

VG750

Separated from the gearbox.

Gear ratios:

- normal 1/1

- free 1/2

Continuously working in a 4x4 system with an inter-axle
differential. Electropneumatic control of gear ratios and inter-
axle lock.

RELEASE

Exhaust brake (120 kW @ 2800 rpm)

POWER TAKE-OFF

Power take-off NL/10 B 270 Nm.

Output: collar.

Direction of rotation: as engine.

Maximum torque: 270 Nm.

Gear ratio : 2.03.

STEERING SYSTEM

Steering gear integrated with hydraulic power steering with
variable ratio.

FRONT AXLE

FRONT AXLE

Front axle load capacity: 5.6 t.

TIRES AND WHEELS

Dimensions 11 R22.5

Profile G. MSS / MSS

Steel rims

Tire pressure monitoring system in accordance with ISO
11992

Tire inflation valve

Steel covers for front wheel nuts

Spare wheel mounted temporarily.



INDIVIDUAL TECHNICAL CHARACTERISTICS

REAR BRIDGE

P1191 bridge with reduction gears
Differential lock
Rear axle load capacity (technical max.): 10.9 t
Bridge ratio: 5.86
Engine speed at 90 km/h: 0 rpm.

Main brake:

Dual-circuit braking system.
All disc brakes
Air compressor 1080 l/min, 720 cm³ two-cylinder
Electronic control of air production by APM (Air Product Management)
Long-lasting desiccant insert
2-wire trailer brake system with ISO connectors, power (red), control (yellow).
Trailer power socket

EBS:

Anti-lock braking system (ABS)
Coupling the operation of retarders and service brakes control of differential engagement (if equipped) at speed <10 km/h (4x2)
Hill Start Aid
Brake efficiency alarm
Emergency Braking Assist (BAS).
Emergency Brake Lights (EBL)

Handbrake:

Pneumatically controlled, vehicle immobilisation via spring actuators on the rear wheels.

CABIN

Outside the cabin:

Crew Cab
4 doors opening to 90°
The cabin frame is made of electro-galvanized steel and protected against corrosion by cataphoresis.
Cabin color: RED RAL 3000
technical code: 11739
Red plate
Anti-dirt fairings.
Cabin suspension on rubber-metal bushes at the front and mechanical at the rear
Hydraulic cab tilt.
2 heated, remote-controlled rear-view mirrors.
2 wide-angle mirrors.
Ramp mirror.
Rear-view mirrors for bodywork widths 2500 to 2600 mm
Front access mirror
Air intake at cabin height.
Air filter contamination indicator
LED Spotlights and LED Step Lights
Visor.
Bonded, tinted windshield.
Without rear window.

Cabin interior:

Storage compartments above the windscreen protected by a net
three sun visors on the windscreen
Preparation for 24 volt socket above the windscreen.
Digital reversing camera
Preparation for mounting CB radio.
Without a tachograph
Manual roof vent
Air-suspended driver's seat with integrated seat belt
Driver's armrest
Red seat belts
Seat belt light.
Adjustable passenger seat
4-seater rear bench with seat belts,
250 litre underseat storage compartment with retaining handle
2 x 60 litre storage compartments behind the front seats
Interior lighting with directed beam function.
sliding sun visor on the driver's side
4 hangers
Electric window lifters
Air conditioning
User manual in Polish

Steering wheel equipment:

4-spoke steering wheel, adjustable in two planes, with cruise control switch
Steering column adjustable in 2 directions
Analogue and digital radio in DAB / DAB+ format
Bluetooth 4.0 streaming with hands-free calling and steering wheel controls
USB port



INDIVIDUAL TECHNICAL CHARACTERISTICS

Dashboard:

Tablet holder with 2 USB-C ports
12V + 24V socket on dashboard for accessories (24V harness in storage compartments above the windscreen).
Key with engine start lock.
Remote door control.
Adjustable speed limiter with steering wheel controls (ASL)
Cruise control with steering wheel controls

ELECTRONIC EQUIPMENT

Display in Polish and English
Additional language (German)
OBD socket in the cabin for data download and vehicle diagnostics.
Assistance button for easy location via the 24/7 platform
TGW3 (telematic gate away) 4G telematics module with antenna and Optifleet service subscription (Map, Chek, Drive)
Telenor SIM card
Driver Alert Warning System (DDAW)
Left and right side monitoring radars

ELECTRICAL EQUIPMENT

185Ah battery.
Batteries with level indicator
Remote control of the battery switch
110A alternator
Rear lighting (according to EU standard).
Adaptation "Fog lights in steel bumper"

FRAME

Painting the frame gray
technical code: 03650
Standard overhang, body mounting holes.
Removable reinforced front tow hook
Without rear underrun bumper.
Rear cross member for coupling above 3.5 t.
ROCKINGER 400 G 145 coupler, DIN 145 holes and shank diameter 40 mm, D 100 kN
2 plastic wheel chocks.
Right side exhaust

BUMPERS - ENTRANCE STEPS AND LIGHTING

Steel bumper
Grilles covering the headlights.
2 access steps to the driver's position.
Cabin step lighting.
2 steps of access to rear seats
High beam headlight adjustment.
LED daytime running lights, no fog lights
Preparation for rotating lights.

SUSPENSION

Front suspension

Front reinforced parabolic leaf springs.
Stabilizer

Rear suspension

Rear, reinforced, parabolic leaf springs
Telescopic shock absorbers.
Stabilizer

FUEL TANK

Aluminum main fuel tank.
150 liter tank on the right side
Electric fuel heater in the filter.

AdBlue

AdBlue tank 32 liters in frame

STANDARD EQUIPMENT

Hydraulic lift 10 t
Reverse gear buzzer.
Windshield washer fluid tank capacity 8.8 l

BODY

Subframe brackets front and rear
Hole in the cabin for routing the body harness.
Electronic module for body manufacturers. (additional functions via CAN bus).

SERVICE

GEARBOX RATIO

R1	1	2	3	4	5	6
6.06	6.75	3.60	2.13	1.39	1.00	0.78

