

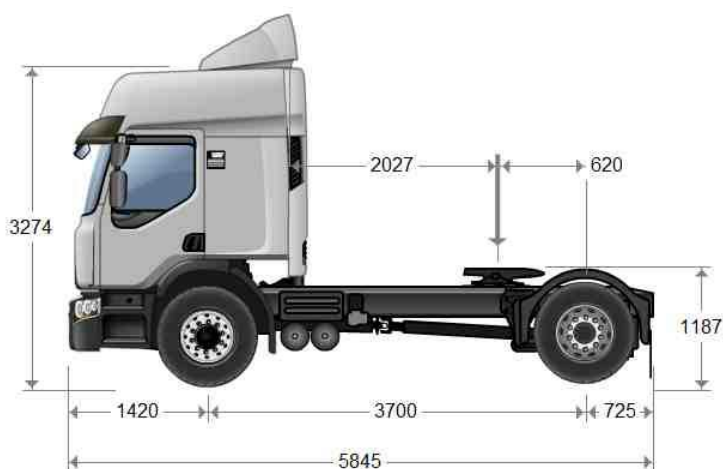
Model code : FRT_20DA016STD11
Print date: 16/06/2020
Last updated: 16/06/2020

Prepared for :

D 19 WIDE 4X2 T 430 E6 - GVW 19T / GTW 40 T

RENAULT TRUCKS

WIDE



WEIGHTS

Wheelbase		mm	3.700
Maximum Weight (registered)	Total (GVW)	Kg	19000
Payload	(C)	Kg	11977
Maximum Weight (registered)	Front axle 1	Kg	7500.00
	rear axle 1	Kg	11500
Min. weight complete vehicle unladen	Front axle(s)	Kg	5512.00
Kerb Weight	total	Kg	7023
	Front Axle 1	Kg	4857.00
Chassis cab kerb weight	Rear Axle 1	Kg	2166.00
	Front axle(s)	Kg	
Total vehicle weight under full load at YMIN	Rear axle(s)	Kg	
	Front axle(s)	Kg	
Total vehicle weight under full load at YMAX	Rear axle(s)	Kg	

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: 3500 kg

LENGTHS

Wheelbase		mm	3.700
Front Overhang	(H / BEP L016)	mm	1420
Wheelbase	(F / BEP L011)	mm	3700
Rear overhang	Chassis	mm	725



Centre of Gravity of vehicle	at X (BEP L044)	mm	1153.00
Overall Chassis Length	(A / BEP L032+L016)	mm	5845

HEIGHTS

Wheelbase		mm	3.700
Ground clearance, laden	Front (U1 / BEP H015)	mm	200
	Rear (U3 / BEP H016)	mm	209
Max. exterior height unladen	(BEP H001)	mm	3675
Max. exterior height, cab tilted, unladen	(O1 / BEP H061)	mm	3980.00
Cab height (unladen)	(O)	mm	3274
Distance from ground to lowest point at front of vehicle	Unladen (H0 / BEP H18)	mm	360.00
	Laden (H0 / BEP H18)	mm	287.00
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	951.00
	Laden (H1 / BEP H036)	mm	892.00
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	955
	Laden (H2 / BEP H038)	mm	931
Frame top height at the rear of the frame	Unladen (HN)	mm	956.00
	Laden (HN)	mm	939.00
Centre of Gravity of vehicle	Unladen at Z (BEP H044)	mm	847.00
Side member height	(BEP H032)	mm	266.00

TOWING DEVICE

Wheelbase		mm	3.700
Distance between the front of the vehicle and the centre of the trailer coupling device	(BEP L073 + L016)	mm	4500.00
Distance between centre of last axle to centre of coupling device		mm	
Fifth wheel height, from top of side member	(BEP H074 + H071)	mm	232.00
Fifth wheel height from ground	Unladen (BEP H076)	mm	1187
	Laden (BEP H078)	mm	1157
Swept Swing Clearance	(BEP L078)	mm	2027.00
Fifth wheel position	Max. (Ymax / BEP L075)	mm	820
Gross Vehicle Weight	at YMAX	Kg	19000.00
Gross Vehicle Weight, load on front axle(s)	at YMAX	Kg	7500.00
Gross Vehicle Weight, load on rear axle(s)	at YMAX	Kg	11500.00
King Pin Load	at YMAX	Kg	11977.00
King Pin Load on Front Axle(s)	at YMAX	Kg	2643.00
King Pin Load on RearAxle(s)	at YMAX	Kg	9334.00
Fifth wheel position	Min. (Ymin / BEP L077)	mm	420
Gross Vehicle Weight	at YMIN	Kg	19000.00
Gross Vehicle Weight, load on front axle(s)	at YMIN	Kg	7500.00
Gross Vehicle Weight, load on rear axle(s)	at YMIN	Kg	11500.00
King Pin Load	at YMIN	Kg	11977.00
King Pin Load on Front Axle(s)	at YMIN	Kg	2643.00
King Pin Load on RearAxle(s)	at YMIN	Kg	9334.00
Fifth wheel position	Manufacturer's recommendation (Y / BEP L076)	mm	620
Gross Vehicle Weight	in fifth wheel position recommended by manufacturer	Kg	18236.00
Gross Vehicle Weight, load on front axle(s)	in fifth wheel position recommended by manufacturer	Kg	6736.00
Gross Vehicle Weight, load on rear axle(s)	in fifth wheel position recommended by manufacturer	Kg	11500.00
King Pin Load	in fifth wheel position recommended by manufacturer	Kg	11213.00
King Pin Load on Front Axle(s)	in fifth wheel position recommended by manufacturer	Kg	1879.00
King Pin Load on RearAxle(s)	in fifth wheel position recommended by manufacturer	Kg	9334.00
Fifth wheel position	Intermediate 1	mm	570.00
Gross Vehicle Weight	in intermediate fifth wheel position 1	Kg	18057.00
Gross Vehicle Weight, load on front axle(s)	in intermediate fifth wheel position 1	Kg	6557.00



Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 1	Kg	11500.00
King Pin Load	in intermediate fifth wheel position 1	Kg	11034.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 1	Kg	1700.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 1	Kg	9334.00
Fifth wheel position	Intermediate 2	mm	520.00
Gross Vehicle Weight	in intermediate fifth wheel position 2	Kg	17883.00
Gross Vehicle Weight, load on front axle(s)	in intermediate fifth wheel position 2	Kg	6383.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 2	Kg	11500.00
King Pin Load	in intermediate fifth wheel position 2	Kg	10860.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 2	Kg	1526.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 2	Kg	9334.00
Sliding fifth wheel	front fork	mm	
	rear yoke	mm	

WIDTHS

Wheelbase		mm	3.700
Max exterior cab width with rear view mirrors open	(BEP W001)	mm	2518.00
Max. cab width	(BEP W002)	mm	2500
Frame width	Front (BEP W035)	mm	1080
	Rear (BEP W036)	mm	850
Width at rear wheels	Rear axle 1 (V3 / BEP W003.2)	mm	2518
Track	Front (V1 / BEP W013.1)	mm	2043
	Rear 1 (V2 / BEP W013.2)	mm	1854

OTHER

Wheelbase		mm	3.700
Approach angle	(BEP H010)	°	14
Ramp angle	(BEP H012)	°	13.40
Departure angle	(BEP H011)	°	58.60
Side member thickness	(BEP W034)	mm	7.00
Turning Radius	Overall (BEP W012)	mm	7450.00
	kerb to kerb	mm	6706.00
	interior	mm	2978.00

DTI 11 ENGINE

Antifreeze protection: -25°C.

Max. power output: 316 kW between 1700 and 1900 rpm

Max. torque: 2050 Nm from 1000 rpm to 1400 rpm

0

6-cylinder in-line diesel engine - Common rail high-pressure fuel-injection (1700 bar) - 24 valves - overhead camshaft, rear-mounted timing

High pressure provided by three pumps on injector bodies

Bore 123 mm - stroke 152 mm - Capacity 10.8 L

Turbocharger

Electronically controlled fan

Direction of rotation (seen from G/B end): anti-clockwise

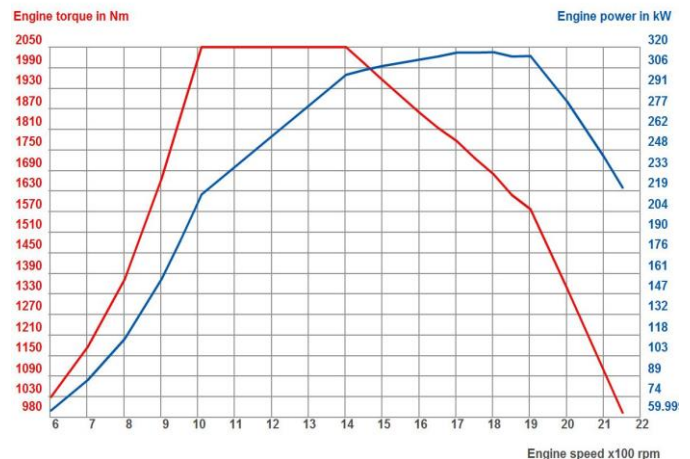
EEC EURO VI pollution control level

Compact after-treatment system (catalytic converter, DPF, SCR)

Liquide de refroidissement

Reduction in engine torque of 25% when vehicle emissions are above the legislative levels, step-D (EC regulation).

Soundproofing level complies with EEC standards (80dB)



ENGINE EQUIPMENT

Power mode inhibited after passing the 'hard spot' of the accelerator pedal

Partial gas recycling (semi-closed circuit)

Automatic engine cut-off (3 min)

Without engine Power Take Off.

Electronic speed limiter (90 km/h).

Single-plate clutch, diameter 430 mm

GEARBOX

Optidriver AT 2412F gearbox (14.94 - 1) with automatic clutch. Aluminium housing.

Max. torque 2400 Nm, 12 forwards gears and 3 reverse gears.

Steering wheel-mounted operating mode selection (automatic/manual) via gear shift selector.

Gearshifting strategy optimised for FUEL ECO

Gearbox oil cooler, oil/water heat exchanger

RETARDER

OPTIBRAKE (power rating 300 kW at 2300 rpm): combination of the exhaust brake and valve compression braking, coupled to service brake
Without gearbox mounted PTO

STEERING

Hydraulic steering box with variable step-down power assistance.

Driving on the right

FRONT AXLE

Load capacity (technical max.) Front axle: 7.5 t.

REAR DRIVE AXLE

P13170-E single reduction final drive axle

Integral differential lock

Rear loading capacity (technical max.): 13 t

Drive axle ratio: 2.85

Engine speed at 90 km/h: 1382 rpm

WHEELS AND TYRES

Dimension 315/70 R22.5

Profile G. KMAX-2 S/D

Alcoa Dura-Bright aluminium wheels.

Front wheel trims

Without spare wheel.

BRAKING

Service brake:

Braking system with two independent circuits

All-disc brakes

Electronic management of air production by APM (Air Product Management)

Dryer cartridge optimised by preventive maintenance

Disengageable air compressor

Twin-cylinder air compressor 1100 l/min, 760 cm³

Aluminium air tanks.

Air tank mounting rubber fittings

Two line trailer braking system (ISO connections).

15-pin electrical accessories socket

Trailer brake device at cab rear

EBS:

Anti-lock braking system (ABS).

Anti-slip regulation (ASR).

Brake balancing between tractor unit and trailer.

(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

Hand brake valve.

Brake adjustment:

Automatic brake lining slack compensation.

Emergency brake:

Ensured by independence of main device circuits

CAB

Cab exterior:

Sleeper Cab

All steel Cab, electro-zinc plated and cathophoretic paint treatment.

Cab paint colour: Grey metallic "Iceberg" technical code: 00640

Black emblem

Anti-spray deflectors

4-point cab air suspension with ride-height control system

Hydraulic cab tilt.

2 heated, remote control rear view mirrors.

Rear view mirrors for bodywork up to 2.55 m wide

Fold-back front view mirror

Air horn

Roof-level air intake.

Air filter clogging indicator

Spray suppression on front wings

Fixed roof deflector



Side deflectors

External sun visor

Tinted, laminated windscreen.

Without rear window.

Passenger side vision door with lower tinted window

Cab interior:

Upper storage cupboards, 2 storage compartments with lids, sliding side sun screen on driver's side, television shelf with 24V provision and 4 fixing rings

Anti-stress ambient lighting for night driving and adjustable spotlights

Three sun blinds on windscreen

Predisposition for 24 volts socket

CB pre-equipment.

DTCO 4.0 digital chronotachograph

Offset 24 V socket

Electrical sun roof (glass).

Air-suspended COMFORT driver's seat, with fitted seat belt, lumbar support, heated cushion and seatback, seat depth adjustment

Driver's armrest

Red seat belts

Adjustable passenger seat

Lower bunk

Upper bunk transformable into storage

Blower socket on central console

Raised engine tunnel.

Cab lighting time-delay.

Curtains around cab.

2 Coat hooks on rear panel

Electrically operated door windows

Cab independent night heater air/air (2 kW)

Air conditioning

Handbook and Service pack in English.

2 kg fire extinguisher in cab, accessible from inside and outside the cab

Steering wheel equipment:

4-spoke leather steering wheel adjustable for height and depth, with control for cruise control

OPTIDRIVER control

OPTIBRAKE and retarder control.

Analogue and digital DAB / DAB+ radio

audio playback streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls

Instrument panel:

Central tablet support with 2 USB-C ports

12 V + 24 V socket on dashboard, for accessories.

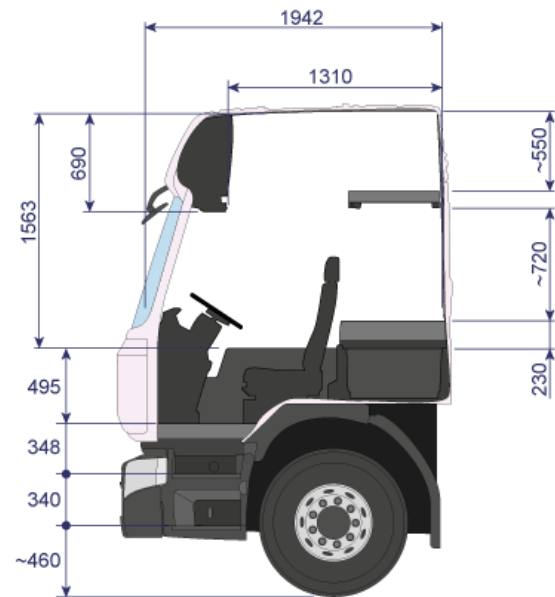
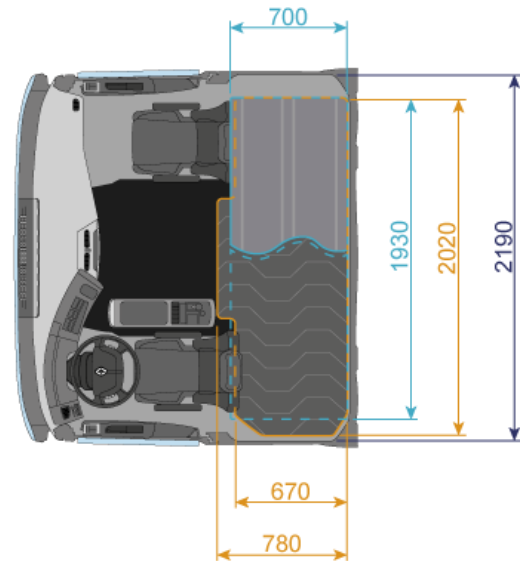
Starting inhibitor controlled by transponder key.

Folding key.

Remote control central door locking.

Speed limiter adjustable via steering wheel control (ASL)

ECO Cruise control with Optiroll



ELECTRONIC EQUIPMENT:

English and French language display

Additional language (Polish)

SAE cab socket for vehicle data extraction

FMS Gateway fleet management interface

Assistance button for geolocation via the 24/7 platform

4G TGW telematics unit (telematic gateway) including an antenna and enabling subscription to Optifleet services (Map, Check, Drive)

Lane Departure Warning System (LDWS)



Constant time gap (CTG) linked to advanced emergency braking system (AEBS)

ELECTRICAL EQUIPMENT

Battery capacity: 225 Ah
Maintenance-free batteries
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
Removable front towing cap.
Front under-run protection.
Closing cross member with pre-drilling for towing yoke
Fifth wheel mounting plate H = 40 mm.
Sheet metal Fontaine SP150 (sheet metal) 2" fifth wheel, D 150 kN
Fifth wheel position: Y = 620 mm
Extended rear platform.
Rear wings with anti-spray
Wings fitted in standard position.
Side exhaust.

BUMPER - STEPS AND LIGHTING

3-part plastic bumper
Access to driving position by 2 stepwell steps.
Step lighting.
Electrical headlamp levelling control.
Running lights
White LED work light (850 lm)
Front fog lights.

SUSPENSION

Front suspension

Front parabolic leaf springs.
Stabiliser bar

Rear suspension:

1	2	3	4	5	6	7	8	9	10	11	12
14.94	11.73	9.04	7.09	5.54	4.35	3.44	2.70	2.08	1.63	1.27	1.00

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, Wedgnoek Lane , Warwick , CV34 5YA Telephone +44 (0)1926 475333.

Rear air suspension.

Stabiliser bar

Suspension remote control (2 channels).

FUEL TANK

Main aluminium tank
Main fuel tank: 405 litres capacity D710 profile mounted on right
Heavy duty sedimenter and prefilter (R90).Bleed control on dashboard.

AdBlue

50 L plastic AdBlue tank for fuel tank capacity greater than 200 litres.

STANDARD EQUIPMENT

Safety vest
Warning triangle.
Reversing warning buzzer, including night switch.
Windscreen washer bottle capacity: 12L

BODYWORK

Bodybuilder access through bulkhead
Orange LED side marker lights with reflector
Provision for bodybuilder electronic box interface.
Bodybuilder suspensions control:
Inhibition of suspension height regulation, platform kneeling, height regulation

SERVICE

Optifleet:

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

Optifleet Map: vehicle geolocation, geofencing and route analysis, 2-year prepaid subscription

GEARBOX RATIOS

