

Model code : UKM\_40J80868HD01  
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Prepared for :

## D 18 HIGH 4X2 R 280 E6 - GVW 18T / GTW 18 T

### RENAULT TRUCKS

#### D 18

#### WEIGHTS

Wheelbase		mm	3.800
Payload	(C)	Kg	12612
Maximum Weight (registered)	Total (GVW)	Kg	18000
	Front axle 1	Kg	7100.00
	rear axle 1	Kg	11500
Min. weight complete vehicle unladen	Front axle(s)	Kg	4781.00
Kerb Weight	total	Kg	5388
Chassis cab kerb weight	Front Axle 1	Kg	3667.00
	Rear Axle 1	Kg	1721.00
Total vehicle weight under full load at YMAX	Front axle(s)	Kg	7100.00
	Rear axle(s)	Kg	10900.00
Total vehicle weight under full load at YMIN	Front axle(s)	Kg	5217.00
	Rear axle(s)	Kg	12783.00

*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	3.800
Front Overhang	(H / BEP L016)	mm	1325
Wheelbase	(F / BEP L011)	mm	3800
Rear overhang	Chassis	mm	1344
Bodywork rear overhang	Min. (Xmin / BEP L017)	mm	1145
	Max. (Xmax / BEP L017)	mm	2280
Cab entry	(B / BEP L102)	mm	586
Body length	Min. (Wmin / BEP L105)	mm	4359
	Max. (Wmax / BEP L105)	mm	5494
Load Centre of Gravity	Total	mm	0
Centre of Gravity of load	Max. (Ymax / BEP L103)	mm	1034
	Min. (Ymin / BEP L104)	mm	467
Centre of Gravity of vehicle	at X (BEP L044)	mm	1231.00
Overall Chassis Length	(A / BEP L001)	mm	6469

#### HEIGHTS

Wheelbase		mm	3.800
Ground clearance, laden	Rear (U3 / BEP H016)	mm	251
	Front (U1 / BEP H015)	mm	292



Max. exterior height unladen	(BEP H001)	mm	3105
Max. exterior height, cab tilted, unladen	(O1 / BEP H061)	mm	3324.00
Cab height (unladen)	(O)	mm	2873
Distance from ground to lowest point at front of vehicle	Unladen (H0 / BEP H18)	mm	372.00
	Laden (H0 / BEP H18)	mm	281.00
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	1001.00
	Laden (H1 / BEP H036)	mm	908.00
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	1052
	Laden (H2 / BEP H038)	mm	956
Frame top height at the rear of the frame	Unladen (HN)	mm	1070.00
	Laden (HN)	mm	973.00
Centre of Gravity of vehicle	Unladen at Z (BEP H044)	mm	806.00
Side member height	(BEP H032)	mm	258.00

## TOWING DEVICE

Wheelbase		mm	3.800
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	3.800
Max exterior cab width with rear view mirrors open	(BEP W001)	mm	2912.00
Max. cab width	(BEP W002)	mm	2400
Frame width	Front (BEP W035)	mm	864
	Rear (BEP W036)	mm	864
Width at rear wheels	Rear axle 1 (V3 / BEP W003.2)	mm	2471
Track	Rear 1 (V2 / BEP W013.2)	mm	1833
	Front (V1 / BEP W013.1)	mm	1996

## OTHER

Wheelbase		mm	3.800
Approach angle	(BEP H010)	°	15
Ramp angle	(BEP H012)	°	24.30
Departure angle	(BEP H011)	°	32.90
Side member thickness	(BEP W034)	mm	7.00
Turning Radius	Overall (BEP W012)	mm	7600.00
	kerb to kerb	mm	6999.00
	interior	mm	3239.00

## DTI 8 ENGINE

Antifreeze protection: -25°C.

**Max. power: 206 kW at 2100 rpm**

**Max. torque: 1050 Nm from 950 rpm to 1600 rpm**

Power output (UK): 276 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

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



## ENGINE EQUIPMENT

Partial gas recycling (semi-closed circuit)  
Without engine Power Take Off.  
Electronic speed limiter (90 km/h).

## CLUTCH

SAE 395 pushed clutch

## GEARBOX

OPTITRONIC 6AS 1000 automated gearbox (6.75 - 0.78) and automated clutch . Aluminium casing.  
6 forward gears and 1 reverse gear.  
Mode use control at steering wheel (automatic / manual / manoeuvre). Gear selection at steering wheel.

## RETARDER

*OPTIBRAKE:*  
*Combination of exhaust brake and valve compression braking. Full electronic management (power: 170 kW at 2800rpm), coupled to service brake*

## POWER TAKE-OFF

*Power take-off S88 C*  
*Output: DIN 5462*  
*Direction of rotation: as engine*  
*Torque: 450 Nm*  
*Ratios: 0.96*  
*Position: 16h*

## STEERING

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

## FRONT AXLE

Load capacity (technical max.) Front axle: 7.1 t.

## WHEELS AND TYRES

Dimension 295/80 R22.5  
*Profile G. OMNITRAC S/ D*  
Steel disc wheels  
Without spare wheel.

## REAR DRIVE AXLE

P11150 drive axle with single reduction  
*Integral differential lock*  
Load capacity: Rear axle: 11.5 t  
*Drive axle ratio: 4.50*  
Engine speed at 90 km/h: 1654 rpm

### Service brake:

Braking system with two independent circuits  
All-disc brakes  
Single cylinder air compressor 500 l/min, 360 cm<sup>3</sup>  
Electronic management of air production by APM (Air Product Management)  
Dryer cartridge optimised by preventive maintenance  
Without rear trailer coupling.

### 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

### Brake adjustment:

Automatic brake lining slack compensation.

### Emergency brake:

Ensured by independence of main device circuits

## CAB

### Cab exterior:

Day cab  
All steel Cab, electro-zinc plated and cataphoretic paint treatment.  
*Cab paint colour: Grey metallic corail*  
*technical code: 0372 1*  
*Black emblem*  
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 2400 to 2500 mm wide*  
Fold-back front view mirror



*Twin air horns - roof mounted.*

Air intake behind cab.

Air filter clogging indicator

Spray suppression on front wings

*External sun visor*

Tinted, laminated windscreen.

*Tinted rear cab window*

*Passenger side vision door with lower tinted window*

**Cab interior:**

*Upper storage cupboard, 2 storage boxes (50 l) with lids*

Three sun blinds on windscreen

*CB pre-equipment.*

DTCO 4.0 digital chronotachograph

*Manual roof 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.

Adjustable passenger seat

*Multi-compartment storage on engine tunnel with 24 V socket*

*Blower socket on central console*

*"Air blower installation inside the cab" adaptation*

Cab lighting time-delay.

side sliding sun blind on driver's side

2 Coat hooks on rear panel

Electrically operated door windows

Air conditioning

Handbook and Service pack in English.

*Second holder for smartphone*

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

**Steering wheel equipment:**

*Adjustable, 4-spoke leather steering wheel.*

OPTIBRAKE and retarder control.

Analogue and digital DAB / DAB+ radio

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

**Instrument panel:**

Central tablet support with 2 USB-C ports

Speedometer in miles

*12V + 24V socket on dashboard, for accessories (24 volt wiring available in the header rail).*

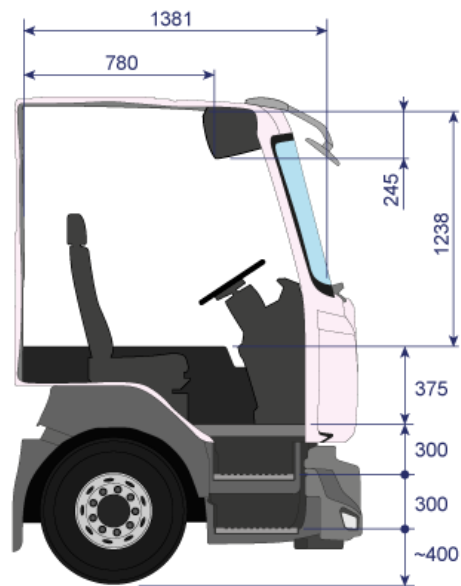
Starting inhibitor controlled by transponder key.

Folding key.

Remote control central door locking.

*3rd ignition key*

Speed limiter adjustable via steering wheel control (ASL)



**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)



Adaptive cruise control (ACC) linked to advanced emergency braking system (AEBS)

## ELECTRICAL EQUIPMENT

*Battery capacity: 185 Ah*

Batteries with level check

Battery isolation switch

Alternator : 130 amp capacity.

*LED rear signalling and lighting (EEC standard e2 10113)*

## CHASSIS

Chassis protective paintwork, mineral grey colour

technical code: 03650

Standard rear overhang, pre-drilled for bodybuilder

Removable front towing cap

Front under-run protection.

Without rear under-run bar .

Closing cross member

*Vertical exhaust outlet with heat shield*

## BUMPER - STEPS AND LIGHTING

3-part plastic bumper

LED position lights

*Windscreen access step*

Access to driving position by 2 stepwell steps.

Step lighting.

LED day running lights

*Front fog lights.*

*2 LED technology orange lights (rotating type)*

## SUSPENSION

### Front suspension

Front parabolic leaf springs.

Stabiliser bar

### Rear suspension:

*Reinforced rear asymmetrical leaf springs.*

Telescopic shock absorbers.

Stabiliser bar

## FUEL TANK

Plastic tank

Main fuel tank: 215 litres capacity mounted on right

## AdBlue

32-litre AdBlue tank

## STANDARD EQUIPMENT

*Reversing warning buzzer, including night switch.*

Windscreen washer bottle capacity: 12L

## BODYWORK

Body mounting brackets front and rear

Bodybuilder access through bulkhead

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

## 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

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.*