

Model code : UKM\_10XC036STPUS  
Print date: 03/06/2022  
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Prepared for :

## T HIGH T6X2 PUSHER 13L E6 - GVW 23.4 T / GTW 44 T

### RENAULT TRUCKS

#### T HIGH 520

#### WEIGHTS

Wheelbase		mm	3.900
Maximum Weight (registered)	Total (GVW)	Kg	23400
Payload	(C)	Kg	14828
Maximum Weight (registered)	Front axle 1	Kg	8000.00
	rear axle 1	Kg	7500
	rear axle 2	Kg	11500
Min. weight complete vehicle unladen	Front axle(s)	Kg	7133.00
	Kerb Weight	total	Kg
Chassis cab kerb weight	Front Axle 1	Kg	5470.00
	Rear Axle 1	Kg	1224.00
	Rear Axle 2	Kg	1878.00
	Front axles (Liftable axle down)	Kg	5470
	Rear axles (Liftable axle down)	Kg	3102
	Front axles (Liftable axle up)	Kg	5811.00
Total vehicle weight under full load at YMIN	Rear axles (Liftable axle up)	Kg	2686.00
	Front axle(s)	Kg	
Total vehicle weight under full load at YMAX	Rear axle(s)	Kg	
	Front axle(s)	Kg	
	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 axle load(s) must be respected: A value corresponding to 26% of the weight of the unladen bodied vehicle kerb weight (with driver, without passenger)

**LENGTHS**

Wheelbase		mm	3.900
Front Overhang	(H / BEP L016)	mm	1365
Wheelbase	(F / BEP L011)	mm	3900
Axle Spacing	Axle 2-3 (BEP L012.2)	mm	1325.00
Rear overhang	Chassis	mm	1046
Centre of Gravity of vehicle	at X (BEP L044)	mm	1233.00
Technical wheelbase	(F' / BEP L015)	mm	3377
Overall Chassis Length	(A / BEP L001)	mm	6311

**HEIGHTS**

Wheelbase		mm	3.900
Ground clearance, laden	Front (U1 / BEP H015)	mm	227
	Rear (U3 / BEP H016)	mm	248
Max. exterior height unladen	(BEP H001)	mm	3973
Max. exterior height, cab tilted, unladen	(O1 / BEP H061)	mm	4576.00
Cab height (unladen)	(O)	mm	3884
Distance from ground to lowest point at front of vehicle	Unladen (H0 / BEP H18)	mm	344.00
	Laden (H0 / BEP H18)	mm	273.00
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	994.00
	Laden (H1 / BEP H036)	mm	935.00
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	1004
	Laden (H2 / BEP H038)	mm	981
Frame top height at the rear of the frame	Unladen (HN)	mm	1006.00
	Laden (HN)	mm	993.00
Centre of Gravity of vehicle	Unladen at Z (BEP H044)	mm	937.00
Side member height	(BEP H032)	mm	300.00

**TOWING DEVICE**

Wheelbase		mm	3.900
Distance between the front of the vehicle and the centre of the trailer coupling device	(BEP L073 + L016)	mm	4715.00
Distance between centre of last axle to centre of coupling device		mm	
Fifth wheel height, from top of side member	(BEP H074 + H071)	mm	270.00
Fifth wheel height from ground	Unladen (BEP H076)	mm	1272
	Laden (BEP H078)	mm	1244
Swept Swing Clearance	(BEP L078)	mm	
Fifth wheel position	Max. (Ymax / BEP L075)	mm	1100
Gross Vehicle Weight	at YMAX	Kg	23400.00
Gross Vehicle Weight, load on front axle(s)	at YMAX	Kg	8000.00
Gross Vehicle Weight, load on rear axle(s)	at YMAX	Kg	15400.00
King Pin Load	at YMAX	Kg	14828.00
King Pin Load on Front Axle(s)	at YMAX	Kg	2530.00
King Pin Load on RearAxle(s)	at YMAX	Kg	12298.00
Fifth wheel position	Min. (Ymin / BEP L077)	mm	550
Gross Vehicle Weight	at YMIN	Kg	23400.00
Gross Vehicle Weight, load on front axle(s)	at YMIN	Kg	4400.00
Gross Vehicle Weight, load on rear axle(s)	at YMIN	Kg	19000.00
King Pin Load	at YMIN	Kg	14828.00
King Pin Load on Front Axle(s)	at YMIN	Kg	-1070.00
King Pin Load on RearAxle(s)	at YMIN	Kg	15898.00

Fifth wheel position	Manufacturer's recommendation (Y / BEP L076)	mm	550
Gross Vehicle Weight	in fifth wheel position recommended by manufacturer	Kg	23400.00
Gross Vehicle Weight, load on front axle(s)	in fifth wheel position recommended by manufacturer	Kg	7885.00
Gross Vehicle Weight, load on rear axle(s)	in fifth wheel position recommended by manufacturer	Kg	15515.00
King Pin Load	in fifth wheel position recommended by manufacturer	Kg	14828.00
King Pin Load on Front Axle(s)	in fifth wheel position recommended by manufacturer	Kg	2415.00
King Pin Load on RearAxle(s)	in fifth wheel position recommended by manufacturer	Kg	12413.00
Fifth wheel position	Intermediate 1	mm	500.00
Gross Vehicle Weight	in intermediate fifth wheel position 1	Kg	23400.00
Gross Vehicle Weight, load on front axle(s)	in intermediate fifth wheel position 1	Kg	7665.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 1	Kg	15735.00
King Pin Load	in intermediate fifth wheel position 1	Kg	14828.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 1	Kg	2195.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 1	Kg	12633.00
Fifth wheel position	Intermediate 2	mm	450.00
Gross Vehicle Weight	in intermediate fifth wheel position 2	Kg	23400.00
Gross Vehicle Weight, load on front axle(s)	in intermediate fifth wheel position 2	Kg	7446.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 2	Kg	15954.00
King Pin Load	in intermediate fifth wheel position 2	Kg	14828.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 2	Kg	1976.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 2	Kg	12852.00
Sliding fifth wheel	front fork	mm	4.71
	rear yoke	mm	4.22

## WIDTHS

Wheelbase		mm	3.900
Max exterior cab width with rear view mirrors open	(BEP W001)	mm	2960.00
Max. cab width	(BEP W002)	mm	2534
Frame width	Front (BEP W035)	mm	1080
	Rear (BEP W036)	mm	850
Width at rear wheels	Rear axle 1 (V3 / BEP W003.2)	mm	2350
	Rear axle 2 (V5 / BEP W003.3)	mm	2518.00
Track	Front (V1 / BEP W013.1)	mm	2043
	Rear 1 (V2 / BEP W013.2)	mm	2038
	Rear 2 (V4 / BEP W013.2)	mm	1854.00

## OTHER

Wheelbase		mm	3.900
Approach angle	(BEP H010)	°	10
Ramp angle	(BEP H012)	°	22.00
Departure angle	(BEP H011)	°	20.60
Side member thickness	(BEP W034)	mm	7.00
Turning Radius	Overall (BEP W012)	mm	6900.00
	kerb to kerb	mm	6206.00
	interior	mm	2773.00

## DTI 13 ENGINE

Max. power: 382 kW from 1430 to 1800 rpm

Max. torque: 2550 Nm from 1000 rpm to 1430 rpm

Power output (UK): 512 hp

6-cylinder in-line diesel engine - Common rail high-pressure fuel-injection (2000 bar) - 24 valves - overhead camshaft, rear-mounted timing

High pressure provided by three pumps on injector bodies.

Bore 131 mm - stroke 158 mm - Capacity 12.8 L

Electronically-controlled fan

Turbocharger

Direction of rotation (seen from gearbox end): anti-clockwise

Oil filter with additive

Intervalle vidange huile jusqu'à 100 000 km

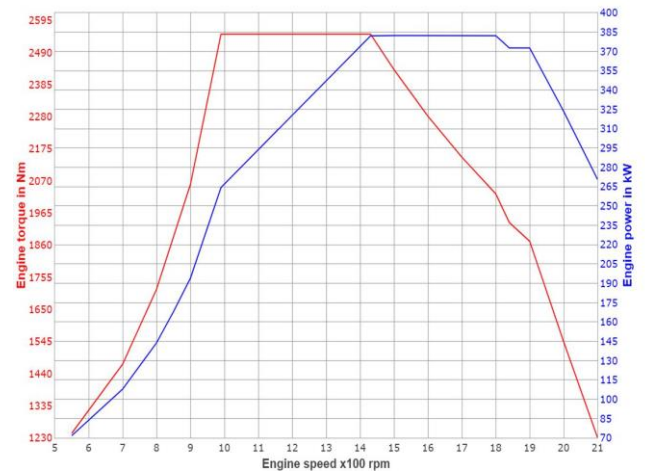
EEC EURO VI pollution control level

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

Cooling liquid

Automatic regeneration of particulate filter





## ENGINE EQUIPMENT

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

## CLUTCH

Single-plate clutch, diameter 430 mm

## GEARBOX

Optidriver AT 2612F gearbox (14.94 - 1) with automatic clutch. Aluminium housing.  
Max. torque 2550 Nm, 12 forwards gears and 3 reverse gears.  
Steering wheel-mounted operating mode selection (automatic/manual) via gear shift selector.  
Gearbox rear intermediate housing in aluminium  
Gearbox oil cooler, oil/water heat exchanger

## RETARDER

OPTIBRAKE+ (power rating 382 kW at 2300 rpm):  
combination of the exhaust brake and valve compression braking, coupled to service brake

## POWER TAKE-OFF

Power take-off S81  
Output: splined hollow shaft (DIN 5462)  
Direction of rotation: opposite to engine  
Torque: 1000 Nm  
Ratios: 0.71/0.90  
Position: 18h

## STEERING

Power steering, variable-flow hydraulic pump  
Steering ratio 20:1 - Steering wheel diameter 460 mm  
Driving on the left

## FRONT AXLE

Axle with zero-maintenance steering knuckles  
Front load capacity (technical max.): 8 t

## REAR AXLE

Liftable rear axle  
Load transfer to drive axle (10.5 t + 30% if speed below 30 km/h)  
Rear axle position : in front of engine drive axle

## WHEELS AND TYRES

Dimension 315/80 R22.5  
Profile C. ECOREGIONAL HS3 / HD3  
Alcoa Dura-Bright aluminium wheels.  
Chrome wheel nut protectors with chrome wheel nut caps  
Without spare wheel.

## REAR DRIVE AXLE

P13170-E single reduction final drive axle  
Integral differential lock  
Rear loading capacity (technical max.): 19 t  
Rear load 7.5t - 11.5t  
Drive axle ratio: 2.64  
Engine speed at 90 km/h: 1207 rpm

## Service brake:

Twin-cylinder air compressor 1100 l/min, 760 cm<sup>3</sup>  
Braking system with two independent circuits.  
Ventilated disc brakes.  
Electronic management of air production by EACU (Electronic Air Control Unit):  
Dryer cartridge optimised by preventive maintenance.  
Disengageable air compressor



**Aluminium air tanks.**

Brake hose couplers, UK standard  
Electrical lead with one 15-pin connector to two 7-pin connectors (24N, 24S)  
Upward orientation of air hoses  
Dummy sockets for electrical cables on DFR  
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)  
*Stop lights emergency lighting*

**Parking brake:**

EPB (Electronic Parking Brake) automatic parking brake, immobilization provided by spring cylinders

**Brake adjustment:**

Automatic brake lining slack compensation.

**Emergency brake:**

Ensured by independence of main device circuits

**CAB****Cab exterior:**

High Sleeper cab  
All steel Cab, electro-zinc plated and cathophoretic paint treatment.  
Cab paint colour: White ekla  
technical code: 09350  
*Black emblem*  
Aerodynamic dirt deflectors on the headlamps  
4-point cab air suspension with ride-height control system  
Electrically operated cab tilt.  
Four side storage compartments of which one is accessible from inside the cab  
2 heated, remote control rear view mirrors.  
2 wide angle rearview mirrors.  
Kerb view mirror.  
Rear view mirrors for bodywork up to 2.55 m wide  
Fold-back front view mirror  
*Twin air horns - roof mounted.*  
Spray suppression on front wings  
*Fixed roof deflector*  
*Side deflectors (2 opening panels)*  
Door extensions  
Exterior parts finished in cab colour  
Wide external sun visor

Tinted, laminated windscreen.

**Cab interior:**

Cab interior finish - Anthracite  
Performance roof console, 4 storage compartments with doors including 1 with key lock, 1 storage space with net, 4 ISO modules  
*Electric interior sun blind on windscreen, manual blinds on driver and passenger side windows*  
*- 7" colour multimedia touchscreen*  
*Pre-equipment for cameras*  
*TV aerial pre-equipment*  
*CB pre-equipment.*  
DTCO 4.0 digital chronotachograph  
Offset 24 V socket  
Electrically operated roof hatch with controls at the driver's position and in the bunk area  
Mosquito net on air vent  
*Synthetic carpet floor mats*  
*Heating system (driver's seat)*  
*Ventilation (siège conducteur)*  
*Seat with longitudinal suspension*  
*Two driver's armrests*  
Red seat belts  
Rappel ceinture enclenchée  
*Air suspension*  
*Adjustable vertical damping*  
*Neck support*  
*Height-adjustable*  
*Easy Access*  
*Stowage on rear of seat back*  
*2 arm rests*  
*Two passenger armrests*  
*Leather seat trim.*  
Performance lower bunk  
*Prise soufflette*  
Grand volume drawer under bunk  
*Cab interior lighting management rotary control (Activity/Rest/Night driving), brightness adjustment*  
*Reading lamps on overhead console*  
*LED direct and indirect cab lighting*  
*Red night lighting covering 3 rows on the overhead console and on the dashboard*  
Cab lighting time-delay.  
*Curtains around cab. Curtain separating driving position from rest area.*  
Bunk area lighting  
*Remote control for comfort functions in bunk area with integrated display*  
Prise 12V & 5V (couchette)  
*Provision for 50A max. electrical power supply*  
*40L refrigerator in central storage under bench, quiet with thermostat and vehicle battery management*  
2 storage boxes under bunk, one accessible from interior and exterior  
*One-touch electric windows*  
Cab independent night heater air/air (2 kW)  
*Electronically regulated comfort air conditioning with compressor optimisation*  
Cab air filtration

Handbook and Service pack in English.  
4 loudspeakers and 2 tweeters

### Steering wheel equipment:

*Ultimate leather steering wheel*

OPTIDRIVER control

OPTIBRAKE and retarder control on right-hand side

Easy Access steering column adjustable in 3 directions

*Removable writing board on steering wheel*

*ROADPAD+:*

- *HGV-specific TOM TOM navigation system*

- *FM and DAB+ radio*

- *USB port and jack socket*

- *dual Bluetooth connection*

### Instrument panel:

Panoramic dashboard including:

- large central storage.

- drawer (capacity 2 litres), transformable into ISO module for supplementary equipment.

- storage tray chilled by air conditioning (capacity 9.4 litres) .

- cup or movable ashtray location.

- A4 size paper storage space (capacity 10 litres).

7" HD colour information display

Speedometer in miles

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

Starting inhibitor controlled by transponder key.

Remote control central door locking with folding key

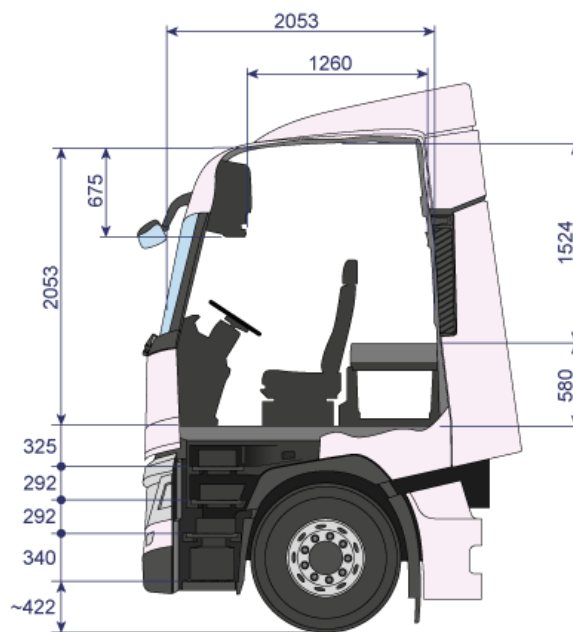
Bouton de démarrage

Vitesse client +5km/h en descente

Cruise control and speed limiter configurable by rotary control

Mode Power (Eco - Eco off)

Sans mode Eco



### ELECTRONIC EQUIPMENT:

English and French language display

Additional language (Spanish)

SAE cab socket for vehicle data extraction

*FMS Gateway fleet management interface 3.0*

Assistance button for geolocation via the 24/7 platform

Lane Departure Warning System (LDWS)

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

### ELECTRICAL EQUIPMENT

Batteries located in the rear overhang

Two 12 V, 210 Ah, 800 A gel batteries

Maintenance-free batteries

Battery cut-out remote control

Electrical circuit automatically goes to standby

Battery charge indicator

Alternator : 150 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.

Transmission crossmember Reinforced

Closing cross member with pre-drilling for towing yoke

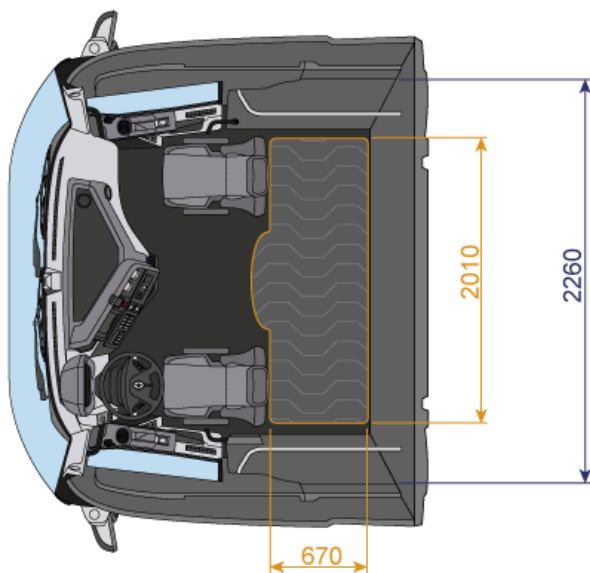
Manual sliding medium fifth wheel mounting H=50 mm

Sheet metal Fontaine SP150 (sheet metal) 2" fifth wheel, D

150 kN

Fifth wheel position: Y = 550 mm

*Extended rear platform.*



Rear wings with anti-spray  
Wings fitted in standard position.  
Side exhaust.

## BUMPER - STEPS AND LIGHTING

Plastic bumper with integral spoiler  
Retractable windscreen access step in radiator grille  
Access to driving position by 4 steps  
Step lighting.  
*Metallic door sills*  
*BUMPER CORNERS, CENTER, AND STEPS PAINTED IN CAB COLOR*  
*Automatic windscreen wiping with rain sensor and automatic illumination of lights*  
Electrical headlamp levelling control.  
LED day running lights  
Provision for lighting rail on front end  
White LED work light (850 lm)  
Front fog lights.  
Fixed Bending Lights  
Feux à LED  
Roof beacon pre-equipment

## SUSPENSION

### Front suspension

2-leaf front leaf springs  
Stabiliser bar

### Rear suspension:

Air suspension  
Suspension remote control (2 channels).

## FUEL TANK

Main aluminium tank  
Main fuel tank: 480 litres capacity D710 profile mounted on left & with access steps  
*Anti-siphoning device*  
Heavy duty sedimenter and prefilter (R90).Bleed control on dashboard.

## AdBlue

*63-litre AdBlue tank*  
*Urea tank at the rear right-hand of the cab*  
*63-litre capacity*

## STANDARD EQUIPMENT

Tool kit.  
*Reversing warning buzzer, including night switch.*

## BODYWORK

Orange LED side marker lights with reflector  
Interface for bodybuilder connections and BBM module (Body Builder Module)

## 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	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, Wedgnock Lane , Warwick , CV34 5YA Telephone +44 (0)1926 475333.*

