Model code : UKM_10XC036STPUS Print date: 06/05/2022 Last updated: 06/05/2022 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	14843
	Front axle 1	Kg	8000.00
Maximum Weight (registered)	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	8557
	Front Axle 1	Kg	5487.00
	Rear Axle 1	Kg	1212.00
	Rear Axle 2	Kg	1858.00
Chassis cab kerb weight	Front axles (Liftable axle down)	Kg	5487
	Rear axles (Liftable axle down)	Kg	3070
	Front axles (Liftable axle up)	Kg	5824.00
	Rear axles (Liftable axle up)	Kg	2658.00
Total vehicle weight under full load at VMIN	Front axle(s)	Kg	
Total vehicle weight under full load at YMIN	Rear axle(s)	Kg	
Total vahiala waight under full load at VMAY	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 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	1222.00	
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)		223
Ground clearance, laden	Rear (U3 / BEP H016)	mm	215
Max. exterior height unladen	(BEP H001)	mm	3967
Max. exterior height, cab tilted, unladen	(O1 / BEP H061)	mm	4570.00
Cab height (unladen)	(O)	mm	3878
Distance from ground to lowest point of front of vehicle	Unladen (H0 / BEP H18)	mm	346.00
Distance from ground to lowest point at front of vehicle	Laden (H0 / BEP H18)	mm	277.00
Frome ten beight at front avla	Unladen (H1 / BEP H035)	mm	988.00
Frame top height at front axle	Laden (H1 / BEP H036)	mm	931.00
France too be what at doing onde	Unladen (H2 / BEP H037)	mm	973
Frame top height at drive axle	Laden (H2 / BEP H038)	mm	952
Frome top beight at the rear of the frome	Unladen (HN)	mm	969.00
Frame top height at the rear of the frame	Laden (HN)	mm	957.00
Centre of Gravity of vehicle	Unladen at Z (BEP H044)	mm	925.00
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) Laden (BEP H078)	mm mm	1245 1219
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	14843.00
King Pin Load on Front Axle(s)	at YMAX	Kg	2513.00
King Pin Load on RearAxle(s)	at YMAX	Kg	12330.00
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	14843.00
King Pin Load on Front Axle(s)	at YMIN	Kg	-1087.00
King Pin Load on RearAxle(s)	at YMIN	Kg	15930.00



PERSONALISED SPECIFICATION SHEET

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	7904.00
Gross Vehicle Weight, load on rear axle(s)	in fifth wheel position recommended by manufacturer	Kg	15496.00
King Pin Load	in fifth wheel position recommended by manufacturer	Kg	14843.00
King Pin Load on Front Axle(s)	in fifth wheel position recommended by manufacturer	Kg	2417.00
King Pin Load on RearAxle(s)	in fifth wheel position recommended by manufacturer	Kg	12426.00
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	7685.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 1	Kg	15715.00
King Pin Load	in intermediate fifth wheel position 1	Kg	14843.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 1	Kg	2198.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 1	Kg	12645.00
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	7465.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 2	Kg	15935.00
King Pin Load	in intermediate fifth wheel position 2	Kg	14843.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 2	Kg	1978.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 2	Kg	12865.00
Sliding fifth whool	front fork	mm	4.71
Sliding fifth wheel	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	2490
width at rear wheels	Rear axle 2 (V5 / BEP W003.3)	mm	2518.00
	Front (V1 / BEP W013.1)	mm	2109
Track	Rear 1 (V2 / BEP W013.2)	mm	2104
	Rear 2 (V4 / BEP W013.2)	mm	1854.00

OTHER

Wheelbase		mm	3.900
Approach angle	(BEP H010)	0	10
Ramp angle	(BEP H012)	0	19.90
Departure angle	(BEP H011)	o	17.90
Side member thickness	(BEP W034)	mm	7.00
	Overall (BEP W012)	mm	6900.00
Turning Radius	kerb to kerb	mm	6243.00
	interior	mm	2633.00

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 385/55 + 385/55 + 315/70 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: 1312 rpm

Service brake:

*Twin-cylinder air compressor 1100 l/min, 760 cm*³ 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 antirollover 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 cataphoretic paint treatment. Cab paint colour: YELLOW RAL 1021. 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 50Å 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

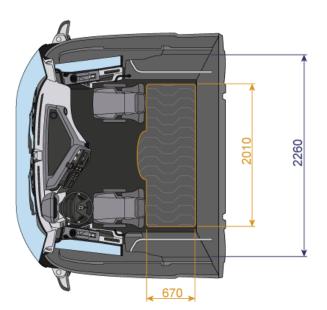
Speedometer in miles

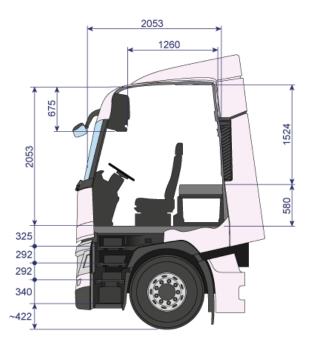
12 V + 24 V socket on dashboard, for accessories.

Starting inhibitor controlled by transponder key. Remote control central door locking with folding key

Bouton de démarrage

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.



Extension de passage de roue 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.

