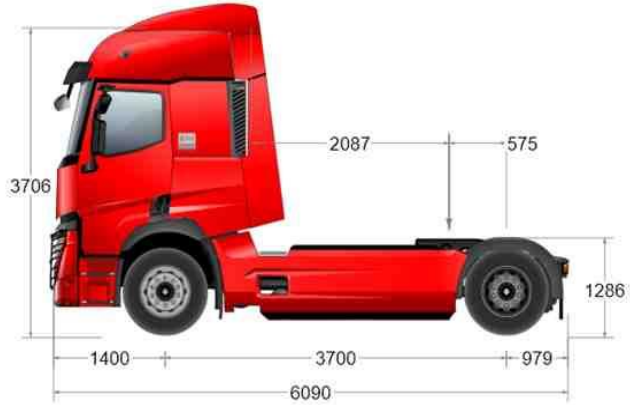


Renault Truck T-High 520 T4X2 13L E5 - GVW 21T / GCW 60T



WEIGHTS

Wheelbase		mm	3.700
Maximum Weight (registered)	Total (GVW)	Kg	21000
Payload	(C)	Kg	13211
Kerb Weight	total	Kg	7789
Maximum Weight (technical)	total (CoC: 16.1.)	Kg	21000
	front axles (CoC: 16.3.)	Kg	8000
	rear axles (CoC: 16.3.)	Kg	13000

LENGTHS

Wheelbase		mm	3.700
Front Overhang	(H / BEP L016)	mm	1400
Wheelbase	(F / BEP L011)	mm	3700
Technical wheelbase	(F' / BEP L015)	mm	3700
Rear overhang	Chassis, overall (BEP L017)	mm	979
Overall Chassis Length	(A / BEP L001)	mm	6090

HEIGHTS

Wheelbase		mm	3.700
Cab height (unladen)	(O)	mm	3706
Max. exterior height unladen	(BEP H001)	mm	3866
Side member height	(BEP H032)	mm	300
Ground clearance, laden	Front (U1 / BEP H015)	mm	293
	Rear (U3 / BEP H016)	mm	237
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	1062
	Laden (H1 / BEP H036)	mm	1000
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	1037
	Laden (H2 / BEP H038)	mm	1012

TOWING DEVICE

Wheelbase		mm	3.700
Swept Swing Clearance	(BEP L078)	mm	2087
Fifth wheel height from ground	Unladen (BEP H076)	mm	1286
	Laden (BEP H078)	mm	1255
Fifth wheel position	Manufacturer's recommendation (Y / BEP L076)	mm	575
	Min. (Ymin / BEP L077)	mm	150
	Intermediate 1	mm	525
	Intermediate 2	mm	475
	Max. (Ymax / BEP L075)	mm	850

WIDTHS

Wheelbase		mm	3.700
Max. cab width	(BEP W002)	mm	2492
Frame width	Front (BEP W035)	mm	1080
	Rear (BEP W036)	mm	852
Width at rear wheels	Rear axle 1 (V3 / BEP W003.2)	mm	2499
Track	Front (V1 / BEP W013.1)	mm	2028
	Rear 1 (V2 / BEP W013.2)	mm	1837

OTHER

Wheelbase		mm	3.700
Side member thickness	(BEP W034)	mm	13
Turning Radius	kerb to kerb	mm	6656
	Overall (BEP W012)	mm	7400

DXi13 ENGINE

Maximum power: 520 hp - 382 kW from 1450 to 1900 rpm.

Maximum torque: 2550 Nm from 1050 to 1400 rpm.

6-cylinder in-line diesel engine - High-pressure fuel-injection (2400 bar) by pump injectors - 24 valves - overhead camshaft, rear-mounted timing

Bore 131 mm - stroke 158 mm - Capacity 12.8L

Electronically controlled fan

Turbocharger

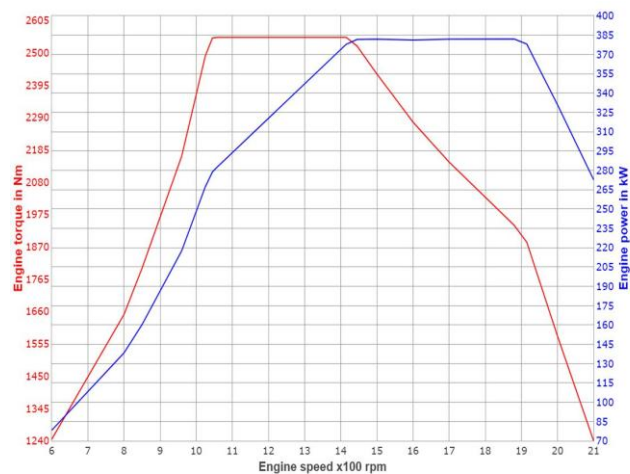
Direction of rotation (seen from G/B end): anti-clockwise

Sheet metal oil sump

EURO 5 EEV (Enhanced Environmentally friendly Vehicle)

EEC EURO V exhaust emissions level

Cooling liquid



ENGINE EQUIPMENT

Fast idling control whilst moving

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

Without engine Power Take Off.

Electronic speed limiter (90 km/h).

CLUTCH

Single-plate clutch, diameter 430 mm

GEARBOX

Optidriver AT 2612 gearbox (14.94 - 1) with automatic clutch. Aluminium housing.

Max. torque 2550 Nm, 12 forward gears and 3 reverse gears.

Steering wheel-mounted operating mode selection

(automatic/manual) via gear shift selector,

Reinforcement of the Optidriver gearbox for heavy duty use (XTREM)

Heavy duty gearbox oil cooler, oil/water external heat exchanger

RETARDER

OPTIBRAKE+ :
Combination of the exhaust brake retarder and valve braking.
Full electronic management (power : 414kW at 2300 rpm),
coupled to service brake.

POWER TAKE-OFF

Power take-off S81
Output: flange (DIN 90)
Direction of rotation: opposite to engine
Torque: 1000 Nm
Ratios: 0.71/0.90
Position: 18h

STEERING

Hydraulic power steering, variable flow pump
Steering ratio 20.0
Integral hydraulic power assisted steering (1 independent
circuit and 1 pump).
Driving on the right

FRONT AXLE

Front suspension lubrication point. Pivot with maintenance-
free rubber ring. Greased front suspension spring.
Front load capacity (technical max.): 8 t

WHEELS AND TYRES

Dimension 315/80 R22.5
Steel disc wheels
ISO_11992 compatible tyre pressure monitoring system
Steel front wheel trims
Spare wheel and tyre supplied loose.

REAR DRIVE AXLE

P13180 drive axle, single reduction, 60 tonnes capacity
Integral differential lock
Rear loading capacity (technical max.): 13 t
Drive axle ratio: 3.08
Engine speed at 90 km/h: 1408 rpm

Service brake:

Twin-cylinder air compressor 900 l/min, 636 cm³
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.
EACU positioned within the track
Disengageable air compressor
Two line trailer braking system (ISO connections).
Electrical lead with one 15-pin connector to two 7-pin
connectors (24N, 24S)
Upward-facing semi-trailer connection
Dummy sockets for electrical cables on DFR
Trailer brake device at cab rear
Low-position rear brake cylinders

EBS:

Hill Start Aid
Wheel anti spin regulation (ASR)
Brake pad wear balancing (discs)
Wheel antilock braking system (ABS)
Emergency braking assist (AFU)
Harmonisation of tractor and trailer braking
Brake performance warning
Coupling of retarders and service brakes
Stop lights emergency lighting

Parking brake:

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

CAB**Cab exterior:**

Sleeper Cab
All steel Cab, electro-zinc plated and cataphoretic paint treatment.
Cab paint colour: Red metallic
technical code: 04711
Red badge
Aerodynamic dirt deflectors on the headlamps
4-point cab air suspension with ride-height control system
Electrically operated cab tilt.
Two side doors of which one is accessible from inside the cab
2 heated, remote control rear view mirrors.
2 wide angle rearview mirrors.
Side view using mirrors only
Kerb view mirror.
Rear view mirrors for bodywork up to 2.55 m wide
Fold-back front view mirror
Air horn
Laminated side windows.
Front wing mudflaps
Adjustable roof deflector
Side deflectors (left-hand opening panel)
Black cab access steps
Door extensions (step cover)
Exterior parts finished in cab colour
Wide external sun visor
Tinted, laminated windscreen.
Without rear window.

Cab interior:

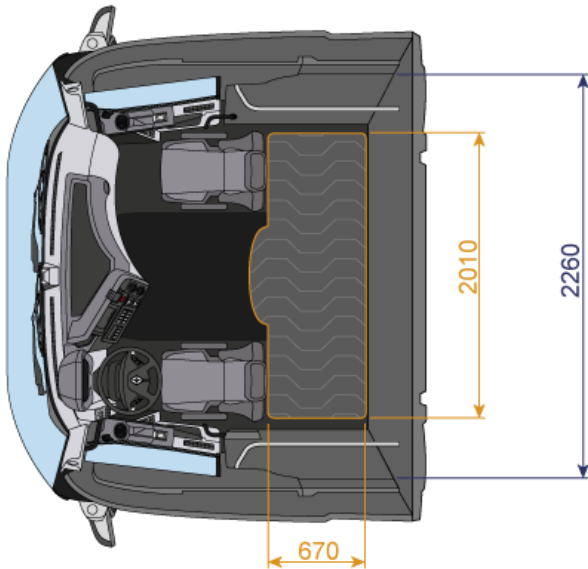
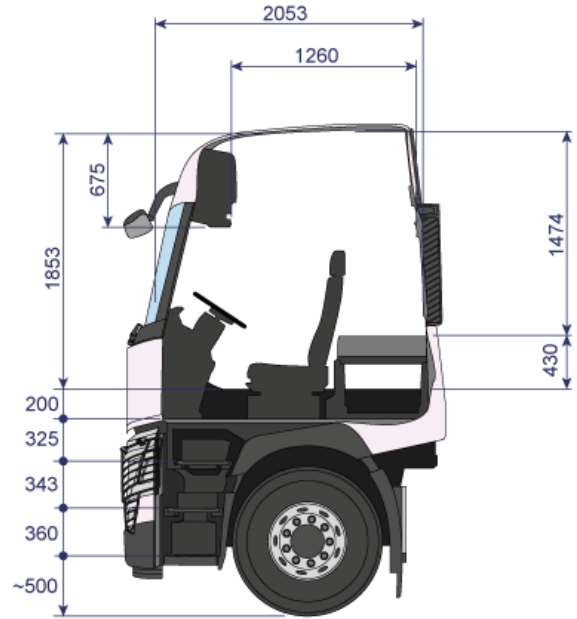
Black grab handles
Interior cab finish - Red
Quality roof console, 2 storage compartments with doors including 1 with key lock, 3 storage spaces with nets, 4 ISO modules
Central storage under bunk
Interior sun blind on windscreen and driver's side window
Digital camera not supplied, no digital connections available
Without tachograph
Without tachograph calibration
Offset 24 V socket
Electrically operated roof hatch.
Mosquito net on air vent
Interior roof grab handle
Rubber insulating floor mats
COMFORT DRIVER'S SEAT:
Adjustable vertical damping
Seat squab tilt
Length and height-adjustable
Removable cover
Adjustable headrest
Seat quick-drop function with height setting memory
Seat back side support adjustment
Seat cushion side support adjustment
Adjustable lumbar support
Extendible seat squab cushion
Two driver's armrests
Red seat belts
Seat belt fastened reminder
seat squab tilt
Length-adjustable
Integral headrest
Without air suspension
Two passenger armrests
Cloth fabric trim
Sérénité lower bunk: 2018mm long, 670mm wide (790mm between seats), mattress thickness: 170mm
Blower
Air blower inside the cab
Central storage under bunk
Reading lamps on overhead ledge
Direct cab lighting
Red night lighting
Cab lighting time-delay.
Curtains around cab. Curtain separating driving position from rest area.
Bunk area lighting
Bunk area remote control
2 storage boxes under bunk, one accessible from interior and exterior
Two coat hooks on rear panel and one on passenger side
First-aid box (Arab countries)
Driver's window with impulse control.
Reinforced heat insulation
Electronically regulated comfort air conditioning with compressor optimisation
Cab air filtration, washable filter
No air-conditioning while parked
Log-book in Arabic
2 loudspeakers and 2 tweeters
2 kg fire extinguisher in cab, accessible from inside and outside the cab

Steering wheel equipment:

"Performance" 4-spoke steering wheel adjustable for height and depth, with control for cruise control
OPTIDRIVER control
OPTIBRAKE and retarder control on right-hand side
3-way adjustable steering column
Writing clipboard
Multifunction screen with DAB radio

Instrument panel:

PANORAMIC dashboard
12" HD colour information display
12 V + 24 V socket on dashboard, for accessories.
Starting inhibitor controlled by transponder key.
Start button
3rd ignition key
Customer adjustable overspeed downhill
Cruise control and speed limiter configurable by rotary control
Power mode inhibited after passing the 'hard spot' of the accelerator pedal
Without Eco Mode



ELECTRONIC EQUIPMENT:

Multilingual display
SAE cab socket for vehicle data extraction
FMS Gateway fleet management interface 3.0
Assistance button for geolocation via the 24/7 platform
4G TGW3 telematics unit (telematic gateway) including an antenna and enabling subscription to Optifleet services (Map, Check, Drive)
AT&T SIM card
Lane Departure Warning System (LDWS)
Electrical pre-arrangement for safety system (LDWS: lane departure warning system, alcolock, cameras)

ELECTRICAL EQUIPMENT

Batteries mounted side by side on LH side.
Battery capacity: 225 Ah
Maintenance-free batteries
Battery cut-out remote control
Electrical circuit automatically goes to standby
Alternator : 150 amp capacity.
No protection on rear lights
LED rear signalling and lighting (EEC standard e2 10113)
"Switch, relay and settings for rotating beacon" adaptation

CHASSIS

Chassis protective paintwork, mineral grey colour
technical code: 03650
Chassis reinforcement from gearbox cross member to rear axle.
Spar thickness: 13mm.(8mm spars + 5mm reinforcement)
Removable front towing cap.
Front under-run protection.
Closing cross member with pre-drilling for towing yoke
Towing and manoeuvring yoke
Medium fifth wheel mounting H=60 mm
Jost JSK 37C, 2" cast iron fifth wheel, D 152 kN
Fifth wheel position: Y = 575 mm
Sheet metal bumper lower corner pieces colour-coded to cab paint colour
Foldaway side fairings, cab colour with extension pieces and integrated walkway access step
Extended rear platform.
Compact air filtration with pre-filter construction suitable for dusty environments such as construction sites
Rear wings with mudflaps
Wings fitted in standard position.
2 foldaway wheel chocks
Lateral exhaust on left side.

BUMPER - STEPS AND LIGHTING

Plastic bumper with steel corner pieces
Retractable windscreen access step in radiator grille
Access to driving position by 3 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
LED day running lights
Provision for lighting rail on front end
White LED work light (850 lm)
Front fog lights.
LED headlights comprising 2 modules of 5 cells:
- 1 module with three cells for main beam (1450 lumen)
- 1 module with two cells for dipped beam (700 lumen)
Indicators and daytime running lights are managed by a high brightness two-tone LED strip light
Roof beacon pre-equipment

GEARBOX RATIOS

R1	R2	R3	1	2	3	4	5	6	7	8	9	10	11	12
17.49	13.73	4.02	14.94	11.73	9.04	7.09	5.54	4.35	3.44	2.70	2.08	1.63	1.27	1.00

SUSPENSION

Front suspension

2-leaf front leaf springs
Front anti-roll bar.

Rear suspension:

Rear air suspension.
Rear stabiliser bar.
Suspension remote control (2 channels).

FUEL TANK

Main aluminium tank
Main fuel tank: 450 litres capacity D710 profile mounted on right
Anti-siphoning device
Heavy duty sedimenter and prefilter (R90).Bleed control on dashboard.

AdBlue

64-litre AdBlue tank.
"D" profile, 560 mm diameter.
Urea tank on the right

STANDARD EQUIPMENT

Tool kit.
Tyre pressure gauge
Tyre inflation extension piece
Jack 20t
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
Interface for bodybuilder connections and BBM module (Body Builder Module)

SERVICE

MANAGE TIRES connected app