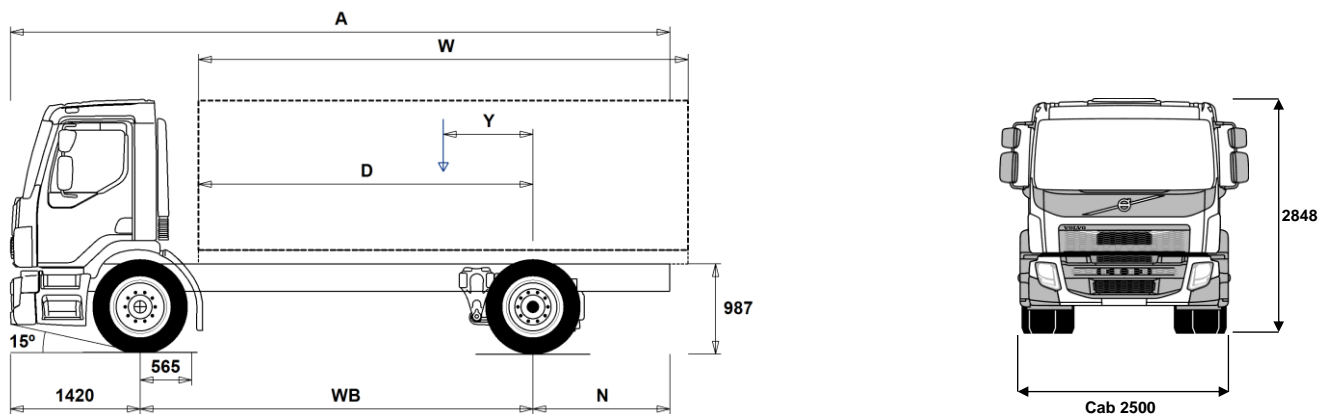


MODEL RANGE

FE 42 CNG Rigid Rear Air FE 42 R AG



Chassis Dimensions [mm]

WB Wheelbase	3500	3700	3900	4100	4300	4500	4750	5000	5250	5500	5800	6100	6450	6800
A Overall Chassis Length	6860	7060	7260	7460	7660	7860	8110	8360	8610	8860	9160	9460	9810	10160
D Center of rear axle to front of body	2861	3061	3261	3461	3661	3861	4111	4361	4611	4861	5161	5461	5811	6161
N Rear Overhang	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940
Y Center of Gravity for Payload (Min.)	205	213	222	230	239	247	259	268	275	284	292	301	313	269
Y Center of Gravity for Payload (Max.)	955	1008	1061	1114	1167	1220	1286	1352	1417	1482	1560	1638	1729	1768
W Body Length (Min.)	3813	4106	4400	4694	4988	5283	5649	6018	6389	6758	7203	7646	8164	8787
W Body Length (Max.)	4961	5281	5601	5921	6241	6561	6961	7361	7761	8161	8641	9121	9681	9941

Chassis Weights [kg]

Front Axle	4315	4330	4340	4350	4355	4365	4370	4385	4400	4405	4425	4435	4445	4550
Rear Axle	2015	2035	2040	2055	2060	2065	2075	2090	2110	2115	2135	2155	2165	2105
Kerb Weight	6330	6365	6380	6405	6415	6430	6445	6475	6510	6520	6560	6590	6610	6655
Payload (including body, driver, fuel, etc.)	11670	11635	11620	11595	11585	11570	11555	11525	11490	11480	11440	11410	11390	11345

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12800	13400	14100	14700	15300	15900	16700	17400	18200	19000	19900	20800	21900	23000
Turning Circle Diameter Wall to Wall	14200	14900	15500	16100	16700	17300	18100	18900	19600	20400	21300	22300	23300	24400

Plated Weights [kg]

Gross Vehicle Weight	18000
Gross Combination Weight	26000
Front Axle	7500
Rear Axle	13000

Design

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +375 mm for CAB-SLP, +204 mm for CAB-SSLP.
 D-measure includes a front clearance of 74 mm and for rigid trucks also a subframe of 120 mm.
 Height can vary ± 20 mm for leaf and ± 10 mm for air suspension.
 All dimensions are for unladen chassis and any tag axles down. Chassis height used: CHH-MED.
 Height change when chassis height CHH-HIGH,FRAME300: 0 mm.

Weight and dimensions are based upon the following tyres:
 Front Axle Tyres: 295/80R22.5
 Drive Axle Tyres: 295/80R22.5

Chassis weight includes oil, water, AdBlue, 0 litres fuel and without driver. Kerb weight can vary ± 3%.

Turning diameters are theoretically calculated.

Legal weights can differ from country to country.

For more detailed weight information, including optional equipment weights, ask your Volvo sales contact to enter your specification into the Volvo Weight Information system (WIS).

Do NOT use this drawing for bodybuilding. Refer to Volvo Bodybuilder Instructions and chassis assembly drawing FE42RAG.

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Transport operation

- TGW-4G** Telematics gateway with 4G modem
- FELECFFG** Low entry cab flat floor CNG
- FELECG** Low entry cab CNG
- RC-ROUGH** The truck is optimised to suit the type of road the truck is going to be used on. Using the Road Condition parameter facilitates specification of frame thickness, suspension and other features.
 - For driving on badly maintained surfaced roads and hard-packed sand or gravel and other surfaces of good or bad quality.
 - These vehicles are robust and built for long-lasting usage in tough conditions
- **RC-SMOOTH** The truck is optimised to suit the type of road the truck is going to be used on. Using the Road Condition parameter facilitates specification of frame thickness, suspension and other features.
 - For long-haul driving on well-maintained and less well-maintained surfaced roads
- GARB-PRE** Garbage vehicle preparation
- TIPP-PRE** Tipper vehicle preparation
- **UNIFORM** Basic platform vehicle

Core components

- CHH-HIGH** Chassis height high - approx. 1000 mm above ground level
- CHH-MED** Chassis height medium - approx. 900 mm above ground level
- **RAD-KR** Rear air suspension, 1 axle - 1 driven (K-ride)
- **CAB-DAY** Day cab
- CAB-SLP** Sleeper cab
- CAB-SSLP** Comfort cab
- **EU6SCR** Euro 6 emission level with Selective Catalytic Reduction (SCR), particle filter and Exhaust Gas Recirculation (EGR)
- **AL306** Automatic 6-speed Allison gearbox. Max input torque up to 1695 Nm.
- RSH1370F** Rear hub reduction solo axle - axle load 13 tonnes, GCW 70 tonnes
- **RSS1344C** Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes, version C

Packages

- DRIVEFE** Driver convenience package FE
- VISIFE** Visibility package FE - Optimizing the drivers field of vision around the cab
- AIRFLOW** Airflow package FL - Includes adjustable roof spoiler, side deflector and sun visor
- AUDIODAB** Audio System DAB
- **AUDIOPD** Audio Preparation DAB kit, incl. DAB-amplifier

Chassis

- FST-AIR** Front air suspension
- **FST-PAR** 2 leaf front parabolic suspension (normal stiffness)
- **FAL7.5** Front axle design capacity 7.5 tonnes
- FAL8.0** Front axle design capacity 8.0 tonnes
- FAL9.0** Front axle load 9.0 tonnes
- **RAL13** Rear axle design capacity 13 tonnes
- **RSTAB1** Rear stabilizer with normal stiffness
- EBS-MED** EBS (Electronic Brake System) medium package incl. traction control system (TCS) and hill start aid
- **EBS-STD** EBS (Electronic Brake System) standard package (without traction control)
- **RST-AIR** Rear air suspension
- RST-AIR5** Rear air suspension, short
- **ABS** Lock free brakes

■ Standard Equipment Optional Equipment

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

For all possible options and combinations of options please consult your Volvo sales contact who can create a specification to match your requirements using the Volvo Sales Support system (VSS).

The factory reserves the right to modify design and change equipment without previous notification. The specification can vary from country to country.

- **SUSPL-E2** Remote control on wander-lead for air suspension levelling with 2 sensors on rear axle
- SUSPL-E4** Integral three dash switches for air suspension levelling control with 2 sensors
- **FRAME300** Frame rail section external height 300 mm
- **FST7070** Frame section thickness - web 7.0 mm / flange 7.0 mm
- FST8080** Frame section thickness - web 8.0 mm / flange 8.0 mm
- **2BATT170** Batteries 2x170 Ah
- 2BATT225** Batteries 2x225 Ah
- **WHC-FIX1** One fixed wheel chock
- WHC-FIX2** Two fixed wheel chocks
- **RFEC-S** Rear frame end, straight cut (for regular platform applications)
- TOWR-ONE** One rear towing device in frame end cross member
- TBC-EC** Trailer brake connection, European Community
- TRBR-STA** Stationary trailer brake control
- RUP-FIX2** Fixed rear underrun protection, EC approved
- RFEND-B** Rear axle 3 piece fenders with anti-spray function
- **RFEND-T** Transport mounted one-piece rear fenders, only for Jockey transport
- RFH-103** Rear fender installation with quarter fender height 103 mm from bottom of rail
- RFH-BAS** Optimal rear fender installation with regard to legal demands, wheel/tyre sizes, chassis height and fifth wheel height.
- RFH-HIG** Highest fender installation - suitable for rough road conditions
- RFH-LOW** Lower rear fender installation - suitable only for smooth road conditions
- ATANK-AL** Aluminium air tank
- **ATANK-ST** Steel air tank
- FRACLOS** Frame end closing
- 2024GSR** General safety regulations 2024

Rims and tyres

- RT-AL** Brushed aluminium rims with std holes (long stud fixing) on all axles
- RT-ALDP** Dura-Bright aluminium rims with std holes (long stud fixing) on all axles
- RT-ALP** Polished aluminium rims with std holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare wheel with tyre equal to front wheel
- SWCP-R** Spare wheel carrier mounted behind rear axle and below frame
- SWCP-T** Spare wheel supplied temporarily strapped to chassis
- **SWCP-TP** Spare wheel carrier transport mounted with the spare wheel on top of the frame rails

Powertrain equipment

- APF-EHH2** Enhanced PTO functions (Auto Neutral / Reverse Inhibit). Garbage - Auto Neutral working on service brake.
- **RET-TPT** Retarder for hydraulic gearbox
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **AIRIN-HI** High air intake, mounted behind cab on left hand side
- AIRIN-RL** Low air intake, chassis mounted behind cab on left hand side
- ACL1ST-S** Air cleaner with additional filter element
- **CCV-C** Closed crankcase ventilation
- 220EBH08** Electrical engine block heater, 220V/0.8kW
- PR-HP4T** Rear gearbox mounted (top of torque converter) Hydrocar PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)
- PR-HP4TL** Rear gearbox mounted (top of converter) Hydrocar low speed PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)

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<ul style="list-style-type: none"> <input type="checkbox"/> PR-HP6TH Rear gearbox mounted (top of converter) Hydrocar high speed PTO with connection (DIN 5462 / ISO 7653) for pump (600 Nm) <input type="checkbox"/> PR-HP6TL Rear gearbox mounted (top of converter) Hydrocar low speed PTO with connection (DIN 5462 / ISO 7653) for pump (600 Nm) <input type="checkbox"/> HPG-F101 Hydraulic gearbox mounted pump F1-101, fixed displacement, single flow <input type="checkbox"/> HPG-F41 Hydraulic gearbox mounted pump F1-41, fixed displacement, single flow <input type="checkbox"/> HPG-F51 Hydraulic gearbox mounted pump F1-51, fixed displacement, single flow <input type="checkbox"/> HPG-F61 Hydraulic gearbox mounted pump F1-61, fixed displacement, single flow <input type="checkbox"/> HPG-F81 Hydraulic gearbox mounted pump F1-81, fixed displacement, single flow <input checked="" type="checkbox"/> ETC Electronic throttle control - dash mounted switch for PTO speed control 	<ul style="list-style-type: none"> <input type="checkbox"/> FBA-BTS Pre-punched front body attachment holes for torsionally stiff body - tanker <input type="checkbox"/> FBA-BTSF Front body attachments for semi-flexible body <input type="checkbox"/> RBA-T1 Rear body attachments, plates <input type="checkbox"/> RBA-T2 Rear body attachments, divided <input type="checkbox"/> HBA-FSFB Holes for body attachments, flexible/semi-flexible body <input type="checkbox"/> HBA-SB Holes for body attachments, stiff body <input type="checkbox"/> TAILPREP Tail lift preparation kit <p>Services</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> WVTA Whole Vehicle Type Approved
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Cab interior

- STWPOS-L** Left hand drive
- TAS-DIG4** version 2, one day digital tachograph, EC approved according to EU regulation 2020/1054
- WARNLAMP** The portable warning lamp can be set out in the event of unplanned standstills and alerts other road users to be careful. It serves as hazard lights, producing either a flashing amber light or a steady white beam which can be adjusted from the rear of the lamp unit. The lamp is equipped with two 6 volt 2.4 watt bulbs and is supplied with five D-size batteries.
- ALARM-B** Burglar alarm - cab
- WARNVEST** Warning vest. Fulfils European standard according to EN 471 class 2.
- AIDKIT** First aid kit containing sticking plaster, washing and drying pads, compresses, elastic bandages, respiratory mask, gloves and scissors.
- AIDKIT1B** First aid kit fulfilling German requirements containing instruction, scissors, triangular cotton bandages, gauze bandages, bandaging cloths, gauze dressings, adhesive bandage, protective gloves, adhesive tape, first aid packets, rescue sheet.
- SPDU-R** Dual speed limiter for rear refuse body steps
- SPDU-S** Dual speed limiter for side loader refuse vehicle
- SPDU-SR** Dual speed limiter for side and rear loader refuse vehicle
- CRUISEC** Cruise control with switches in the steering wheel

Cab exterior

- AUXFS** Extra foot step on both sides
- CF-AFS** Foldable extra front cab foot-step
- RCABS-A** Air rear cab suspension
- RCABS-M** Mechanical rear cab suspension
- AD-ROOFA** Adjustable roof air deflector
- AD-SIDES** Short cab side air deflectors
- HL-CLEAN** High pressure headlamp cleaner
- HL-ADJ** Adjustable headlamps to adjust the height of the light beam
- DRL-LED** V-shaped ("V-light") day running light (LED). Turned on low beam gives a dimmed "V-light".
- BEACON-P** Roof beacon lights wire preparation (two cable pass throughs)
- BEACONA2** 2 amber beacon, roof mounted warning lamps
- HORN-F1S** One front mounted (behind grille) single tone air horn, Jericho. Operated by steering wheel buttons.
- HORN-R2S** Two roof mounted single tone chromed air horns

Superstructure preparations

- FBA-BTF** Front body attachments for flexible body

Standard Equipment Optional Equipment

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Volvo Trucks. Driving Progress