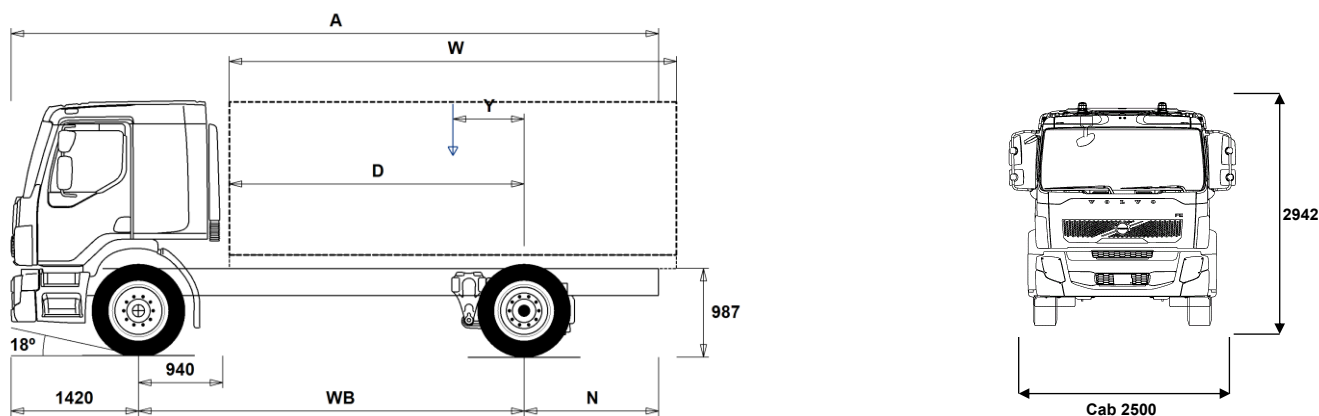


MODEL RANGE

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	2486	2686	2886	3086	3286	3486	3736	3986	4236	4486	4786	5086	5436	5786
N Rear Overhang	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940
Y Center of Gravity for Payload (Min.)	781	824	867	909	952	994	1048	1100	1152	1205	1266	1329	1402	1431
Y Center of Gravity for Payload (Max.)	781	824	867	909	952	994	1048	1100	1152	1205	1266	1329	1402	1431
W Body Length (Min.)	3409	3724	4039	4354	4668	4983	5376	5771	6168	6563	7039	7514	8069	8711
W Body Length (Max.)	3409	3724	4039	4354	4668	4983	5376	5771	6168	6563	7039	7514	8069	8711

Chassis Weights [kg]

Front Axle	4320	4340	4345	4360	4370	4375	4385	4400	4415	4425	4440	4455	4465	4575
Rear Axle	1940	1960	1965	1980	1985	1985	1990	2005	2025	2030	2050	2065	2075	2015
Kerb Weight	6260	6300	6310	6340	6355	6360	6375	6405	6440	6455	6490	6520	6540	6590
Payload (including body, driver, fuel, etc.)	14240	14200	14190	14160	14145	14140	14125	14095	14060	14045	14010	13980	13960	13910

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	20500
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-DAY, -171 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-HIGH.

Height change when chassis height CHH-MED,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 $\pm 3\%$.

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**
- **FELECFFG** Low-entry cab, flat floor, CNG
- **FELECG** Low-entry cab CNG
- **RC-ROUGH** Rough road conditions: frequent driving on poorly maintained surfaced roads, hard-packed sand or gravel, or other surfaces of good or bad quality.
- **RC-SMOOT** Smooth road conditions: at least 95% of the driven distance is on well-maintained or less maintained surfaced roads. Driving may occur on poorly maintained surfaced roads, hard-packed sand, or gravel surfaces of good or bad quality.
- **GARB-PRE** Refuse 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 - one axle, driving
- **FE-DAY2** FE Day cab new
- **FE-SLP2** FE Sleeper cab
- **FE-SSLP2** FE Comfort cab
- **EU6SCR** Euro 6 with SCR, particulate filter and EGR, Turbo-S
- **AL306** Automatic 6-speed gearbox, 1695 Nm
- **RSH1370F** Rear hub reduction solo axle - axle load 13 tonnes, GCW 70 tonnes, version F
- **RSS1344C** Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes, version C

Packages

- **AUDIODAB** Audio system with DAB radio and DAB amplifier
- **AUDIOPD** Preparation kit for DAB radio, including DAB amplifier

Chassis

- **FST-AIR** Front air suspension
- **FST-PAR** Two-leaf front parabolic springs (normal stiffness)
- **FAL7.5** Front axle load 7.5 tonnes
- **FAL8.0** Front axle load 8.0 tonnes
- **FAL9.0** Front axle load 9.0 tonnes
- **RAL13** Rear axle load 13 tonnes
- **RSTAB1** Rear anti-roll bar, normal stiffness
- **EBS-MED** EBS (Electronic Braking System), Medium package
- **EBS-STD** EBS (Electronic Braking System), Standard package
- **RST-AIR** Rear air springs
- **RST-AIR5** Rear air suspension, short
- **ABS**
- **SUSPL-E2** Remote control with wander lead for air suspension levelling, 2 sensors on rear axle
- **SUSPL-E4** Three dashboard switches for air suspension levelling, 2 sensors on rear axle
- **FRAME300** Frame rail section external height 300 mm
- **FST7070** Frame thickness - web 7.0 mm / flange 7.0 mm
- **FST8080** Frame thickness - web 8.0 mm / flange 8.0 mm
- **2BATT170** Batteries, 2x170 Ah
- **2BATT225** Batteries, 2x225 Ah
- **WHC-FIX1** One non-collapsible wheel chock
- **WHC-FIX2** Two non-collapsible wheel chocks
- **RFEC-S** Straight-cut rear frame end
- **TOWR-ONE** Rear towing device in frame-end cross member
- **TBC-EC** Trailer brake connection, European Community
- **TRBR-STA** Stationary trailer brake check

- **RUP-FIX2**
- **RFEND-B** Rear 3-piece mudguards (anti-spray) on all rear axles
- **RFEND-T** Transport mudguard
- **RFH-BAS** Basic mudguard installation height
- **RFH-HIG** High mudguard installation height
- **RFH-LOW** Low mudguard installation height
- **ATANK-AL** Aluminium air tanks
- **ATANK-ST** Steel air tanks
- **FRACLOS** Frame end closing

Rims and tyres

- **RT-AL** Brushed aluminium rims with standard holes (long stud fixing) on all axles
- **RT-ALDP** Dura-Bright® polished aluminium rims with standard holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare front wheel
- **SWCP-R** Spare wheel carrier mounted behind rear axle
- **SWCP-T** Spare wheel transport-mounted on top of frame
- **SWCP-TP** Spare wheel and carrier transport-mounted on top of frame

Powertrain equipment

- **APF-ENH2** I-Shift with enhanced PTO functions (Auto neutral for service brake/Split box connection)
- **RET-TPT** Gearbox-mounted Powertronic primary retarder
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **AIRIN-HI** High air inlet
- **AIRIN-RL** Low air inlet, chassis mounted behind cab on left-hand side
- **ACL1ST-S** Air cleaner with extra filter element
- **CCV-C** Closed crankcase ventilation
- **220EBH08** Engine block heater, 220 V, 0.8 kW
- **PR-HP4T** Rear gearbox (top of converter) PTO with connection DIN 5462/ISO 7653 for pump, 400 Nm
- **PR-HP4TL** Rear gearbox (top of converter) low-speed PTO with connection DIN 5462/ISO 7653 for pump, 400 Nm
- **PR-HP6TH** Rear gearbox (top of converter) high-speed PTO with connection DIN 5462/ISO 7653 for pump, 600 Nm
- **PR-HP6TL** Rear gearbox (top of converter) low-speed PTO, connection DIN 5462/ISO 7653 for pump, 600 Nm
- **HPG-F101** Gearbox-mounted hydraulic pump F1-101, fixed displacement, single flow
- **HPG-F41** Gearbox-mounted hydraulic pump F1-41, fixed displacement, single flow
- **HPG-F51** Gearbox-mounted hydraulic pump F1-51, fixed displacement, single flow
- **HPG-F61** Gearbox-mounted hydraulic pump F1-61, fixed displacement, single flow
- **HPG-F81** Gearbox-mounted hydraulic pump F1-81, fixed displacement, single flow
- **ETC** PTO speed control 900-1500 rpm with dash-mounted switch

Cab interior

- **STWPOS-L** Left-hand drive
- **TAS-DIG4** Gen 4 one-day digital tachograph, EC approved (GNSS & DSRC, EU 2020/1054)
- **WARNLAMP** Portable amber and white warning lamp with batteries
- **TSRS** Road sign recognition
- **TSRS2** Road sign recognition (not ISA compliant)
- **WARNVEST** Reflective vest, fulfils European standard 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

■ 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.

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bandages, bandaging cloths, gauze dressings, adhesive bandage, protective gloves, adhesive tape, first aid packets, rescue sheet.

- **SPDU-R** Dual speed limiter for refuse truck, rear loader
- **SPDU-S** Dual speed limiter for refuse truck, side loader
- **SPDU-SR** Dual speed limiter for refuse truck, side and rear loader

- **CRUISEC**

Cab exterior

- **AUXFS** Extra footstep in cab side
- **CF-AFS** Retractable extra footstep in cab front bumper
- **RCABS-A** Air rear cab suspension
- **RCABS-M** Mechanical rear cab suspension
- **AD-ROOFA** Adjustable roof air deflector
- **AD-SIDES** Cab side air deflectors, short
- **HL-CLEAN** High-pressure headlamp cleaner
- **HL-ADJ** Manually adjustable headlamp beam
- **DRL-LED** Daytime running lamps (LED)
- **BEACON-P** Preparation kit for roof beacons
- **BEACONA2** Two amber LED beacons on cab front roof
- **HORN-F1S** Single-tone Jericho horn behind grille, operated by steering wheel buttons
- **HORN-R2S** Two chromed single-tone air horns on the roof, operated by steering wheel buttons

Superstructure preparations

- **FBA-BTF** Front body attachment brackets, lower, for flexible body
- **FBA-BTS** Pre-punched front body attachment holes for torsionally stiff body, e.g. tanker
- **FBA-BTSF** Front body attachment brackets, lower, for semi-flexible body
- **RBA-T1** Rear body attachment plates
- **RBA-T2** Rear body attachment brackets, lower
- **HBA-FSFB** Holes for body attachments, flexible/semi-flexible body
- **HBA-SB** Holes for body attachments, stiff body
- **TAILPREP** Tail lift preparation kit

Services

- **WVTA** Whole Vehicle Type Approved