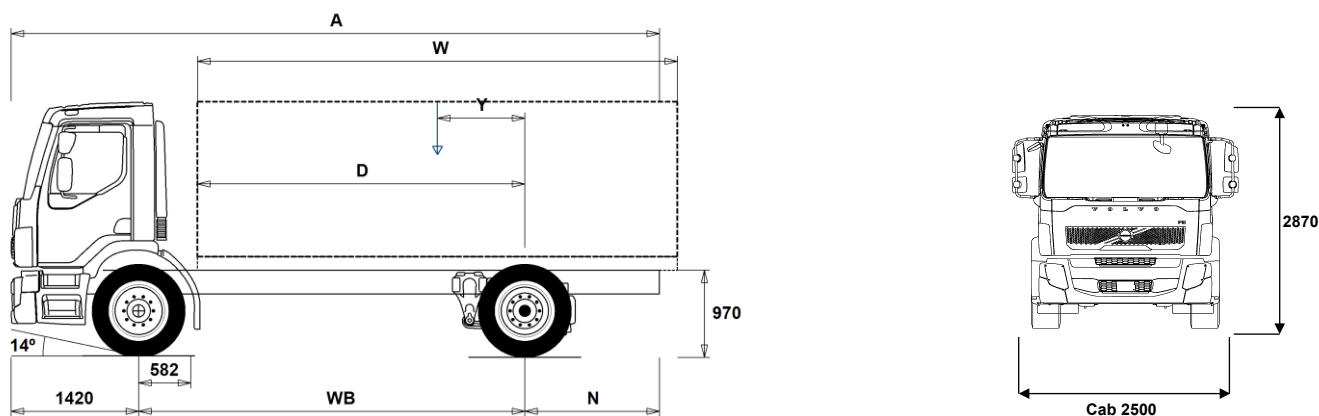


MODEL RANGE

FE 42 Rigid Rear Air FE 42 R A



Chassis Dimensions [mm]

WB Wheelbase	3500	3700	3900	4100	4300	4500	4750	5000	5250	5500	5800	6100	6450	6800
A Overall Chassis Length	6610	6910	7260	7560	7910	8210	8610	9010	9410	9810	10310	10760	11310	11560
D Center of rear axle to front of body	2844	3044	3244	3444	3644	3844	4094	4344	4594	4844	5144	5444	5794	6144
N Rear Overhang (Min.)	640	640	640	640	640	640	640	2590	2740	2890	3090	3240	3440	3340
N Rear Overhang (Max.)	1690	1790	1940	2040	2190	2290	2440	2590	2740	2890	3090	3240	3440	3340
Y Center of Gravity for Payload (Min.)	739	781	824	864	907	949	1001	1053	1106	1158	1219	1280	1354	1421
Y Center of Gravity for Payload (Max.)	739	781	824	864	907	949	1001	1053	1106	1158	1219	1280	1354	1421
W Body Length (Min.)	4209	4526	4839	5159	5475	5790	6185	6582	6976	7372	7850	8328	8880	9447
W Body Length (Max.)	4209	4526	4839	5159	5475	5790	6185	6582	6976	7372	7850	8328	8880	9447

Chassis Weights [kg]

Front Axle	4070	4075	4075	4095	4100	4105	4110	4120	4125	4130	4145	4160	4165	4180
Rear Axle	1695	1700	1720	1760	1775	1785	1800	1825	1845	1860	1900	1930	1950	1950
Kerb Weight	5765	5775	5795	5855	5875	5890	5910	5945	5970	5990	6045	6090	6115	6130
Payload (including body, driver, fuel, etc.)	14335	14325	14305	14245	14225	14210	14190	14155	14130	14110	14055	14010	13985	13970

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	20100
Gross Combination Weight	32000
Front Axle	7100
Rear Axle	13000

Design

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +358 mm for CAB-SLP, +196 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: +17 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 FE42RA.

MODEL RANGE

FE 42 Rigid Rear Air FE 42 R A

Transport operation

□ TGW-4G

- **FELECD** Low-entry cab diesel
- **FELECFDD** Low-entry cab, flat floor, diesel

- **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-SMOOTH** 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-LOW** Chassis height low - approx. 850 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

- **D8K250** Diesel engine, Euro 6, 7.7 litres, 250 hp/184 kW, 950 Nm
- **D8K280** Diesel engine, Euro 6, 7.7 litres, 280 hp/206 kW, 1050 Nm
- **D8K320** Diesel engine, Euro 6, 7.7 litres, 320 hp/235 kW, 1200 Nm
- **D8K350** Diesel engine, Euro 6, 7.7 litres, 350 hp/258 kW, 1400 Nm

- **EBR-CEB** Engine compression and exhaust brake
- **EBR-EPG** Engine brake with exhaust pressure governor

- **AL306** Automatic 6-speed gearbox, 1695 Nm

- **RS1370F** 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

- **RSS1344E** Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes, version E

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)

- **FAL7.1** Front axle load 7.1 tonnes
- **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

- **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

- **FRAME266** Frame rail section external height 266 mm
- **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

■ 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.

- **2BATT170** Batteries, 2x170 Ah
- **2BATT225** Batteries, 2x225 Ah
- **ADR2** ADR adaptation, 1 switch in dashboard, 1 outside on back of cab
- **R255A56** Right 255-litre, D-shaped aluminium fuel tank, 560 mm high
Min volume 160l
Max volume 630l
- **UL-FUEL** Without left side fuel tank
Min volume 160l
Max volume 315l
- **ADTP-L** AdBlue tank on left hand side
- **ADTP-R** AdBlue tank on right hand side
- **WHC-FIX1** One non-collapsible wheel chock
- **WHC-FIX2** Two non-collapsible wheel chocks
- **TB-L33** Tool box on left-hand side, 58-litre - width 330 mm, height 310 mm, depth 660 mm
- **TB-L75** Tool box on left-hand side, 106-litre - width 755 mm, height 430 mm, depth 550 mm
- **TOWMBRH** Towing member, high-mounted in centre of frame
- **RFEC-S** Straight-cut rear frame end
- **C-RI4040** Coupling Ringfeder 4040A G-150
- **C-RI5055** Coupling Ringfeder 5055A G-150
- **C-RO400G** Coupling Rockinger 400 G-150
- **C-RO430G** Towing coupling Rockinger 430 G-150
- **C-RO50** Coupling Rockinger 50 mm
- **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-TP** Spare wheel and carrier transport-mounted on top of frame

Powertrain equipment

- **TP-BAS**
- **TP-DICON**
- **TP-FUEC** Gear-changing software for regional haul
- **APF-ENH** I-Shift with enhanced PTO functions (Auto neutral for p. brake/Reverse inhibit/Split box connection)
- **APF-ENH2** I-Shift with enhanced PTO functions (Auto neutral for service brake/Split box connection)
- **CS39A-O** Single-plate clutch, plate diameter 395 mm
- **CS43B-O** Single-plate clutch, plate diameter 430 mm
- **RET-TPT** Gearbox-mounted Powertronic primary retarder
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **TC-MWO** Basic performance cooler for manual/I-Shift gearboxes – water/oil

MODEL RANGE

FE 42 Rigid Rear Air FE 42 R A

■ AIRIN-HI	High air inlet	□ TSRS2	Road sign recognition (not ISA compliant)
□ AIRIN-RL	Low air inlet, chassis mounted behind cab on left-hand side	□ WARNVEST	Reflective vest, fulfils European standard EN 471 class 2
□ ACL1ST-S	Air cleaner with extra filter element	□ AIDKIT	First aid kit containing sticking plaster, washing and drying pads, compresses, elastic bandages, respiratory mask, gloves and scissors.
□ CCV-C	Closed crankcase ventilation	□ 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.
■ CCV-OX	Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge	□ SPDU-R	Dual speed limiter for refuse truck, rear loader
□ AF-E	Electrically heated fuel filter	□ SPDU-S	Dual speed limiter for refuse truck, side loader
□ EST-AID	Engine intake air heater	□ SPDU-SR	Dual speed limiter for refuse truck, side and rear loader
□ 220EBH08	Engine block heater, 220 V, 0.8 kW	□ CRUIS-E2	Cruise control with I-Roll
□ PTER-100	Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646	□ CRUISEC	
□ PTER-DIN	Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653	Cab exterior	
□ PTER1400	Rear engine, clutch-independent PTO, flange connection, SAE 14110/ISO 7647	□ AUXFS	Extra footstep in cab side
□ PR-HP4T	Rear gearbox (top of converter) PTO with connection DIN 5462/ISO 7653 for pump, 400 Nm	□ CF-AFS	Retractable extra footstep in cab front bumper
□ PR-HP4TL	Rear gearbox (top of converter) low-speed PTO with connection DIN 5462/ISO 7653 for pump, 400 Nm	□ RCABS-A	Air rear cab suspension
□ PR-HP6TH	Rear gearbox (top of converter) high-speed PTO with connection DIN 5462/ISO 7653 for pump, 600 Nm	■ RCABS-M	Mechanical rear cab suspension
□ PR-HP6TL	Rear gearbox (top of converter) low-speed PTO, connection DIN 5462/ISO 7653 for pump, 600 Nm	□ AD-ROOFA	Adjustable roof air deflector
□ PTR-FH1	Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft 800 Nm	□ AD-SIDES	Cab side air deflectors, short
□ PTR-FH2	Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 430 Nm	□ HL-CLEAN	High-pressure headlamp cleaner
□ PTR-FH5	Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 450 Nm	□ HL-ADJ	Manually adjustable headlamp beam
□ PTR-PH1	Rear gearbox PTO Hydrocar S81, connection DIN 5462/ISO 7653 for pump, 800 Nm	□ DRL-LED	Daytime running lamps (LED)
□ PTR-PH2	Rear gearbox PTO Hydrocar S84, connection DIN 5462/ISO 765 for pump, 430 Nm	□ BEACON-P	Preparation kit for roof beacons
□ PTR-PH4	Rear gearbox PTO Hydrocar S88, connection DIN 5462/ISO 7653 for pump, 450 Nm	□ BEACONA2	Two amber LED beacons on cab front roof
□ PTR-PK	Preparation kit for rear gearbox PTO	■ HORN-F1S	Single-tone Jericho horn behind grille, operated by steering wheel buttons
□ PTR-ZF2	Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 410 Nm	□ HORN-R2S	Two chromed single-tone air horns on the roof, operated by steering wheel buttons
□ PTR-ZF4	Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 320 Nm	Superstructure preparations	
□ PTR-ZF5	Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 320 Nm	□ FBA-BTF	Front body attachment brackets, lower, for flexible body
□ PTRD-D1D	Rear gearbox dual PTO flange/propshaft DIN120/ISO7646, 550 Nm, pump DIN5462/ISO7647, 1000 Nm	□ FBA-BTS	Pre-punched front body attachment holes for torsionally stiff body, e.g. tanker
□ PTRA-PH1	Extra rear gearbox PTO with dual S81 connections DIN 5462/ISO 7653 for pump	□ FBA-BTSF	Front body attachment brackets, lower, for semi-flexible body
□ PTRA-PH2	Extra rear gearbox PTO with dual S84 connections DIN 5462/ISO 7653 for pump	□ RBA-T1	Rear body attachment plates
□ HPG-F101	Gearbox-mounted hydraulic pump F1-101, fixed displacement, single flow	□ RBA-T2	Rear body attachment brackets, lower
□ HPG-F41	Gearbox-mounted hydraulic pump F1-41, fixed displacement, single flow	□ HBA-FSFB	Holes for body attachments, flexible/semi-flexible body
□ HPG-F51	Gearbox-mounted hydraulic pump F1-51, fixed displacement, single flow	□ HBA-SB	Holes for body attachments, stiff body
□ HPG-F61	Gearbox-mounted hydraulic pump F1-61, fixed displacement, single flow	□ TAILPREP	Tail lift preparation kit
□ 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-R	Right-hand drive		
□ TAS-DIG	One-day digital tachograph, EC approved (annex 1B regulation)		
■ TAS-DIG4	Gen 4 one-day digital tachograph, EC approved (GNSS & DSRC, EU 2020/1054)		
□ IMMOBIL	Immobiliser		
□ WARNLAMP	Portable amber and white warning lamp with batteries		

■ Standard Equipment

□ Optional Equipment

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MODEL RANGE

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Volvo Trucks. Driving Progress