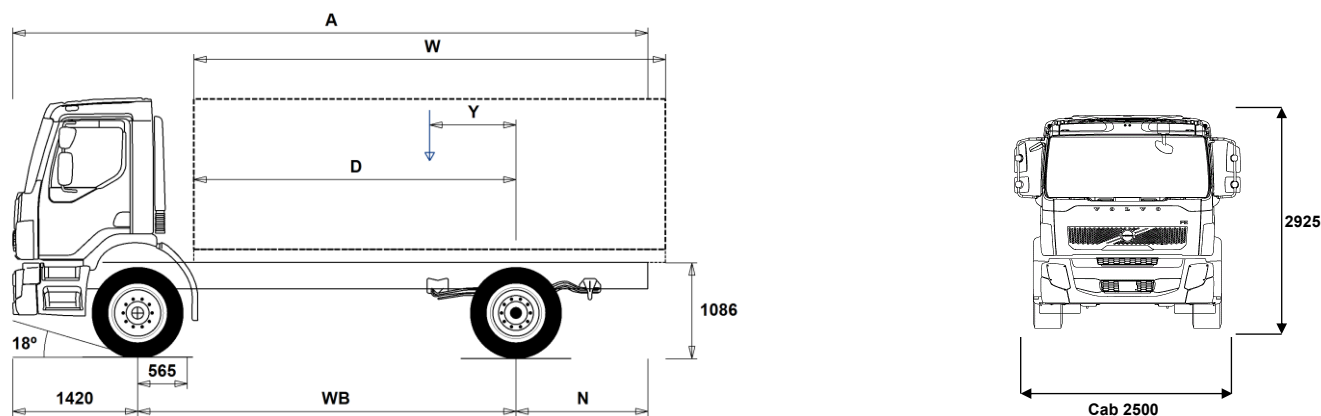


MODEL RANGE

FE 42 Rigid Rear Leaf FE 42 R L



Chassis Dimensions [mm]

WB Wheelbase	3495	3695	3895	4095	4295	4495	4745	4995	5245	5495	5795	6095	6445	6795
A Overall Chassis Length	6610	6910	7260	7560	7910	8210	8610	9010	9410	9760	10310	10760	11310	11560
D Center of rear axle to front of body	2856	3056	3256	3456	3656	3856	4106	4356	4606	4856	5156	5456	5806	6156
N Rear Overhang (Min.)	925	925	925	925	925	925	925	2595	2745	2845	3095	3245	3445	3345
N Rear Overhang (Max.)	1695	1795	1945	2045	2195	2295	2445	2595	2745	2845	3095	3245	3445	3345
Y Center of Gravity for Payload (Min.)	866	917	968	1017	1068	1119	1182	1245	1309	1370	1446	1521	1609	1692
Y Center of Gravity for Payload (Max.)	866	917	968	1017	1068	1119	1182	1245	1309	1370	1446	1521	1609	1692
W Body Length (Min.)	3979	4278	4576	4878	5176	5475	5848	6222	6595	6971	7421	7869	8393	8928
W Body Length (Max.)	3979	4278	4576	4878	5176	5475	5848	6222	6595	6971	7421	7869	8393	8928

Chassis Weights [kg]

Front Axle	3780	3780	3780	3795	3795	3795	3800	3805	3810	3815	3830	3835	3840	3855
Rear Axle	1710	1725	1750	1790	1810	1825	1840	1870	1895	1905	1960	1980	2005	2010
Kerb Weight	5490	5505	5530	5585	5605	5620	5640	5675	5705	5720	5790	5815	5845	5865
Payload (including body, driver, fuel, etc.)	15010	14995	14970	14915	14895	14880	14860	14825	14795	14780	14710	14685	14655	14635

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12800	13400	14000	14700	15300	15900	16700	17400	18200	19000	19900	20800	21900	23000
Turning Circle Diameter Wall to Wall	14200	14800	15500	16100	16700	17300	18100	18900	19600	20400	21300	22200	23300	24400

Plated Weights [kg]

Gross Vehicle Weight	20500
Gross Combination Weight	32000
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.

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 FE42RL.

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Transport operation

- ☐ **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
- ☒ **RAD-L90** Rear leaf suspension - one axle, driving (90 mm wide leaves)
- ☒ **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
- ☒ **ZTO1006** Manual 6-speed gearbox, 1050 Nm
- ☐ **ZTO1109** Manual 9-speed gearbox, 1200 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
- ☐ **RSS1344E** Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes, version E

Packages

- ☐ **DRIVEFE** Driver convenience package FE
- ☐ **VISIFE** Visibility package FE
- ☐ **AIRFLOW** Airflow package with roof and side air deflectors and chassis fairings
- ☒ **AUDIODAB** Audio system with DAB radio and DAB amplifier
- ☐ **AUDIOPD** Preparation kit for DAB radio, including DAB amplifier

Chassis

- ☒ **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
- ☒ **EBS-STD** EBS (Electronic Braking System), Standard package
- ☒ **RST-PAR1** Rear parabolic leaf springs
- ☐ **RST-PAR4** Short four-leaf parabolic rear springs with normal stiffness
- ☒ **ABS**
- ☒ **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
- ☐ **ADR2** ADR adaptation, 1 switch in dashboard, 1 outside on back of cab

☒ 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.

- ☒ **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-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

- ☐ **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
- ☒ **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

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□ CCV-C Closed crankcase ventilation ■ CCV-OX Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge ■ AF-E Electrically heated fuel filter ■ EST-AID Engine intake air heater □ 220EBH08 Engine block heater, 220 V, 0.8 kW □ PTER-100 Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646 □ PTER-DIN Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653 □ PTER1400 Rear engine, clutch-independent PTO, flange connection, SAE 1410/ISO 7647 □ 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 □ PTR-FH1 Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft 800 Nm □ PTR-FH2 Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 430 Nm □ PTR-FH5 Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 450 Nm □ PTR-PH1 Rear gearbox PTO Hydrocar S81, connection DIN 5462/ISO 7653 for pump, 800 Nm □ PTR-PH2 Rear gearbox PTO Hydrocar S84, connection DIN 5462/ISO 765 for pump, 430 Nm □ PTR-PH4 Rear gearbox PTO Hydrocar S88, connection DIN 5462/ISO 7653 for pump, 450 Nm □ PTR-PK Preparation kit for rear gearbox PTO □ PTR-ZF2 Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 410 Nm □ PTR-ZF4 Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 320 Nm □ PTR-ZF5 Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 320 Nm □ PTRD-D1D Rear gearbox dual PTO flange/propshaft DIN120/ISO7646, 550 Nm, pump DIN5462/ISO7647, 1000 Nm □ PTRA-PH1 Extra rear gearbox PTO with dual S81 connections DIN 5462/ISO 7653 for pump □ PTRA-PH2 Extra rear gearbox PTO with dual S84 connections DIN 5462/ISO 7653 for pump □ 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	■ 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 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 □ CRUIS-E2 Cruise control with I-Roll □ CRUISEC Cruise control with switches in the steering wheel
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 □ TGW-4G ■ WVTA Whole Vehicle Type Approved	
Cab interior ■ STWPOS-L Left-hand drive □ 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 ■ TSRS Road sign recognition □ WARNVEST Reflective vest, fulfils European standard EN 471 class 2	

■ Standard Equipment

□ Optional Equipment

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