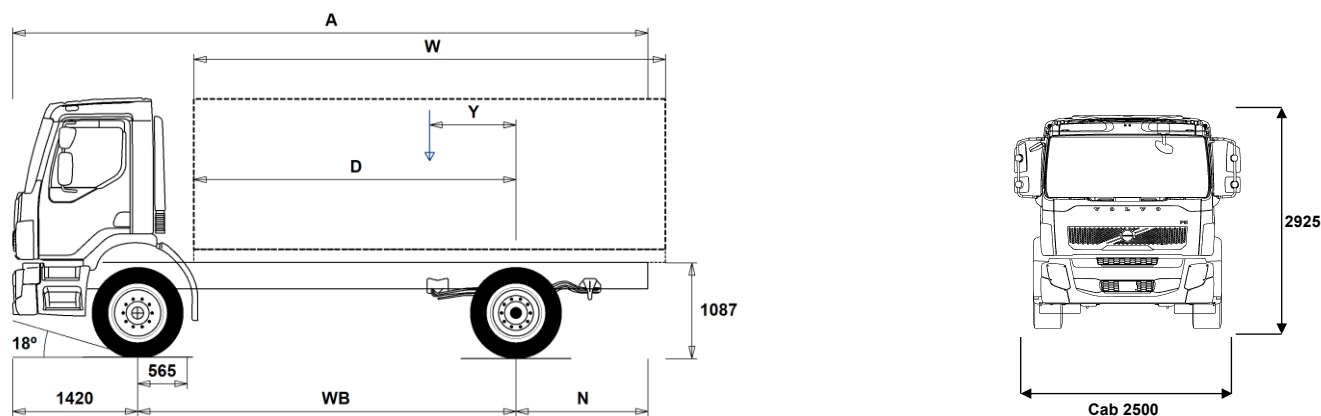


MODEL RANGE

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.)	867	917	968	1018	1069	1120	1183	1246	1310	1372	1448	1523	1612	1695
Y Center of Gravity for Payload (Max.)	867	917	968	1018	1069	1120	1183	1246	1310	1372	1448	1523	1612	1695
W Body Length (Min.)	3979	4277	4575	4876	5174	5473	5846	6220	6592	6967	7417	7865	8388	8922
W Body Length (Max.)	3979	4277	4575	4876	5174	5473	5846	6220	6592	6967	7417	7865	8388	8922

Chassis Weights [kg]

Front Axle	3775	3775	3770	3785	3790	3790	3790	3795	3800	3805	3820	3825	3830	3845
Rear Axle	1700	1715	1735	1775	1795	1810	1830	1860	1880	1895	1950	1970	1995	2000
Kerb Weight	5475	5490	5505	5560	5585	5600	5620	5655	5680	5700	5770	5795	5825	5845
Payload (including body, driver, fuel, etc.)	15025	15010	14995	14940	14915	14900	14880	14845	14820	14800	14730	14705	14675	14655

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

- **TGW-4G**
- **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

■ 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.

- **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-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

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☐ ACL1ST-S	Air cleaner with extra filter element	☐ WARNVEST	Reflective vest, fulfils European standard EN 471 class 2
☐ CCV-C	Closed crankcase ventilation	☐ AIDKIT	First aid kit containing sticking plaster, washing and drying pads, compresses, elastic bandages, respiratory mask, gloves and scissors.
☒ CCV-OX	Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge	☐ 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.
☐ AF-E	Electrically heated fuel filter	☐ SPDU-R	Dual speed limiter for refuse truck, rear loader
☐ EST-AID	Engine intake air heater	☐ SPDU-S	Dual speed limiter for refuse truck, side loader
☐ 220EBH08	Engine block heater, 220 V, 0.8 kW	☐ SPDU-SR	Dual speed limiter for refuse truck, side and rear loader
☐ PTER-100	Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646	☐ CRUIS-E2	Cruise control with I-Roll
☐ PTER-DIN	Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653	☐ CRUISEC	
☐ 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		

Cab interior

☒ STWPOS-L	Left-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
☐ TSRS2	Road sign recognition (not ISA compliant)

☒ Standard Equipment

☐ Optional Equipment

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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
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