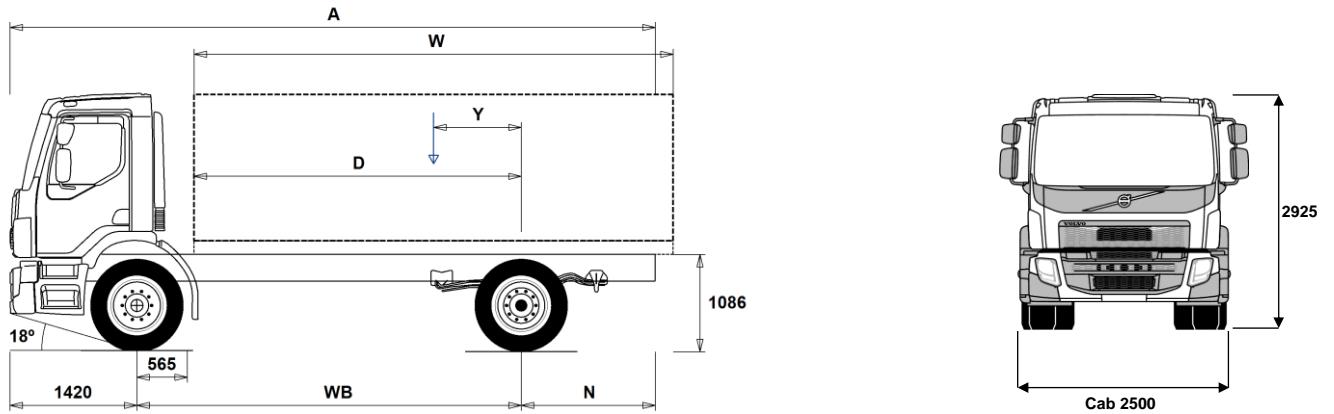


MODEL RANGE

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.)	342	362	382	398	418	438	462	485	509	532	556	584	616	642
Y Center of Gravity for Payload (Max.)	1042	1103	1164	1225	1286	1347	1424	1501	1578	1653	1745	1837	1945	2045
W Body Length (Min.)	3629	3907	4183	4463	4740	5018	5364	5711	6057	6406	6821	7237	7723	8222
W Body Length (Max.)	4953	5273	5593	5913	6233	6553	6953	7353	7753	8153	8633	9113	9673	9941

Chassis Weights [kg]

Front Axle	3780	3780	3780	3795	3795	3795	3800	3805	3810	3815	3830	3835	3840	3855
Rear Axle	1740	1755	1775	1815	1835	1850	1870	1900	1920	1935	1990	2010	2030	2035
Kerb Weight	5520	5535	5555	5610	5630	5645	5670	5705	5730	5750	5820	5845	5870	5890
Payload (including body, driver, fuel, etc.)	12480	12465	12445	12390	12370	12355	12330	12295	12270	12250	12180	12155	12130	12110

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	18000
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 ± 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.

MODEL RANGE

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Transport operation

- TGW-4G** Telematics gateway with 4G modem
- 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
- RAD-L90** Rear leaf suspension, 1 axle - 1 driven (90 mm wide leaves)
- 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)
- D8K250** Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 250 hp, 950 Nm
- D8K280** Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 280 hp, 1050 Nm
- D8K320** Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 320 hp, 1200 Nm
- D8K350** Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 350 hp, 1400 Nm
- EBR-CEB** Engine compression and exhaust brake
- EBR-EPG** Engine brake with Exhaust Press Governor, EPG
- AL306** Automatic 6-speed Allison gearbox. Max input torque up to 1695 Nm.
- AT2412F** I-shift automated 12-speed gearbox, 2400 Nm
- ZTO1006** Overdrive 6 speed manual ZF gearbox, 1050 Nm
- ZTO1109** Overdrive 9 speed manual ZF gearbox, 1200 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
- 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 - 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-PAR** 2 leaf front parabolic suspension (normal stiffness)
- FAL7.1** Front axle design capacity 7.1 tonnes
- 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

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.

- 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-PAR1** Three leaf parabolic suspension with normal stiffness
- RST-PAR4** Short four leaf parabolic rear suspension with normal stiffness
- ABS** Lock free brakes
- 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
- ADR2** ADR adaptation, transportation of dangerous goods, 2 switches
- R255A56** Right 255 litre aluminium 560 mm high D-shaped diesel tank. Usable volume is 97% of stated volume. Min volume 160l Max volume 630l
- UL-FUEL** Without left diesel tank Min volume 160l Max volume 315l
- ADTP-L** AdBlue tank mounted on left hand side
- ADTP-R** AdBlue tank mounted on right hand side
- WHC-FIX1** One fixed wheel chock
- WHC-FIX2** Two fixed wheel chocks
- TB-L33** Toolbox 58 litre on the left hand side - width 330 mm, height 310 mm, depth 660 mm
- TB-L75** Toolbox 106 litre on the left hand side - width 755 mm, height 430 mm, depth 550 mm
- TOWMBRH** High mounted towing member, in centre of frame
- RFEC-S** Rear frame end, straight cut (for regular platform applications)
- C-RI4040** Towing coupling Ringfeder 4040 G-150
- C-RI5055** Towing coupling Ringfeder 5055 G-150
- C-RO400G** Towing coupling Rockinger 400 G-150
- C-RO430G** Towing coupling Rockinger 430 G-150
- C-RO50** Towing coupling Rockinger 50 mm
- 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-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

MODEL RANGE

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<input type="checkbox"/> RT-ALDP	Dura-Bright aluminium rims with std holes (long stud fixing) on all axles	<input type="checkbox"/> PTR-ZF2	Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (410 Nm)
<input type="checkbox"/> RT-ALP	Polished aluminium rims with std holes (long stud fixing) on all axles	<input type="checkbox"/> PTR-ZF4	Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (320 Nm)
<input checked="" type="checkbox"/> RT-STEEL	Steel rims on all axles	<input type="checkbox"/> PTR-ZF5	Rear gearbox mounted ZF PTO with connection (DIN 5462 / ISO 7653) for pump (320 Nm)
<input checked="" type="checkbox"/> SPWT-F	Spare wheel with tyre equal to front wheel	<input type="checkbox"/> PTRD-D1D	Rear gearbox mounted double PTO with flange connection (DIN 120 / ISO 7646) for propeller shaft (550 Nm) and connection (DIN 5462 / ISO 7647) for pump (1000 Nm)
<input type="checkbox"/> SWCP-R	Spare wheel carrier mounted behind rear axle and below frame	<input type="checkbox"/> PTRA-PH1	Extra rear gearbox mounted PTO with double S81 connections (DIN 5462 / ISO 7653) for pump
<input type="checkbox"/> SWCP-T	Spare wheel supplied temporarily strapped to chassis	<input type="checkbox"/> PTRA-PH2	Extra rear gearbox mounted PTO with double S84 connections (DIN 5462 / ISO 7653) for pump
<input checked="" type="checkbox"/> SWCP-TP	Spare wheel carrier transport mounted with the spare wheel on top of the frame rails	<input type="checkbox"/> HPG-F101	Hydraulic gearbox mounted pump F1-101, fixed displacement, single flow
Powertrain equipment		<input type="checkbox"/> HPG-F41	Hydraulic gearbox mounted pump F1-41, fixed displacement, single flow
<input type="checkbox"/> TP-BAS	standard software package supplied with the I-Shift	<input type="checkbox"/> HPG-F51	Hydraulic gearbox mounted pump F1-51, fixed displacement, single flow
<input type="checkbox"/> TP-DICON	adapts the gearbox's function to the specific conditions in the distribution and construction segmen	<input type="checkbox"/> HPG-F61	Hydraulic gearbox mounted pump F1-61, fixed displacement, single flow
<input type="checkbox"/> TP-FUEC	This software package is ideal for long-haul operations where strong emphasis is placed on fuel econ	<input type="checkbox"/> HPG-F81	Hydraulic gearbox mounted pump F1-81, fixed displacement, single flow
<input type="checkbox"/> APF-ENH	Enhanced PTO functions (Auto Neutral / Reverse Inhibit). Garbage - Auto Neutral working on parking brake.	<input type="checkbox"/> ETC	Electronic throttle control - dash mounted switch for PTO speed control
<input type="checkbox"/> APF-ENH2	Enhanced PTO functions (Auto Neutral / Reverse Inhibit). Garbage - Auto Neutral working on service brake.	Cab interior	
<input checked="" type="checkbox"/> CS39A-O	Single plate clutch, plate diameter 395 mm	<input checked="" type="checkbox"/> STWPOS-L	Left hand drive
<input type="checkbox"/> CS43B-O	Single plate clutch, plate diameter 430 mm	<input type="checkbox"/> STWPOS-R	Right hand drive
<input type="checkbox"/> RET-TPT	Retarder for hydraulic gearbox	<input checked="" type="checkbox"/> TAS-DIG4	version 2, one day digital tachograph, EC approved according to EU regulation 2020/1054
<input type="checkbox"/> TC-HWO	Oil cooler for hydraulic transmissions – water/oil	<input type="checkbox"/> IMMOBIL	Immobiliser
<input type="checkbox"/> TC-MWO	Basic performance oil cooler for mechanical transmissions - water/oil	<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> AIRIN-HI	High air intake, mounted behind cab on left hand side	<input type="checkbox"/> ALARM-B	Burglar alarm - cab
<input type="checkbox"/> AIRIN-RL	Low air intake, chassis mounted behind cab on left hand side	<input type="checkbox"/> WARNVEST	Warning vest. Fulfills European standard according to EN 471 class 2.
<input type="checkbox"/> ACL1ST-S	Air cleaner with additional filter element	<input checked="" type="checkbox"/> AIDKIT	First aid kit containing sticking plaster, washing and drying pads, compresses, elastic bandages, respiratory mask, gloves and scissors.
<input type="checkbox"/> CCV-C	Closed crankcase ventilation	<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> CCV-OX	Open crankcase ventilation with oil separator and a maintenance free gas centrifuge	<input type="checkbox"/> SPDU-R	Dual speed limiter for rear refuse body steps
<input checked="" type="checkbox"/> AF-E	Electrically heated fuel filter	<input type="checkbox"/> SPDU-S	Dual speed limiter for side loader refuse vehicle
<input checked="" type="checkbox"/> EST-AID	Engine start pre-heating element	<input type="checkbox"/> SPDU-SR	Dual speed limiter for side and rear loader refuse vehicle
<input type="checkbox"/> 220EBH08	Electrical engine block heater, 220V/0.8kW	<input type="checkbox"/> CRUIS-E2	Cruise control with i-roll
<input type="checkbox"/> PTER-100	Rear engine mounted clutch independent power-take-off with flange connection (DIN 100 / ISO 7646)	<input type="checkbox"/> CRUISEC	Cruise control with switches in the steering wheel
<input type="checkbox"/> PTER-DIN	Rear engine mounted clutch independent PTO with splined shaft groove (female) for a close coupled pump (DIN 5462 / ISO 7653)	Cab exterior	
<input type="checkbox"/> PTER1400	Rear engine mounted clutch independent power-take-off with flange connection (SAE 1410 / ISO 7647)	<input type="checkbox"/> AUXFS	Extra foot step on both sides
<input type="checkbox"/> PR-HP4T	Rear gearbox mounted (top of torque converter) Hydrocar PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)	<input type="checkbox"/> CF-AFS	Foldable extra front cab foot-step
<input type="checkbox"/> PR-HP4TL	Rear gearbox mounted (top of converter) Hydrocar low speed PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)	<input type="checkbox"/> RCABS-A	Air rear cab suspension
<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 checked="" type="checkbox"/> RCABS-M	Mechanical rear cab suspension
<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"/> AD-ROOFA	Adjustable roof air deflector
<input type="checkbox"/> PTR-FH1	Rear gearbox mounted Hydrocar S81 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (800 Nm)	<input type="checkbox"/> AD-SIDES	Short cab side air deflectors
<input type="checkbox"/> PTR-FH2	Rear gearbox mounted Hydrocar S84 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (430 Nm)	<input type="checkbox"/> HL-CLEAN	High pressure headlamp cleaner
<input type="checkbox"/> PTR-FH5	Rear gearbox mounted Hydrocar S88 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (450 Nm)	<input checked="" type="checkbox"/> HL-ADJ	Adjustable headlamps to adjust the height of the light beam
<input type="checkbox"/> PTR-PH1	Rear gearbox mounted Hydrocar S81 PTO with connection (DIN 5462 / ISO 7653) for pump 800 Nm max. Exceptions for AT2412F: 1000 Nm max	<input checked="" type="checkbox"/> DRL-LED	V-shaped ("V-light") day running light (LED).
<input type="checkbox"/> PTR-PH2	Rear gearbox mounted Hydrocar S84 PTO with connection (DIN 5462 / ISO 7653) for pump (430 Nm)		
<input type="checkbox"/> PTR-PH4	Rear gearbox mounted Hydrocar S88 PTO with connection (DIN 5462 / ISO 7653) for pump (450 Nm)		
<input type="checkbox"/> PTR-PK	Electrical and solenoid prep kit for gearbox PTO		
<input checked="" type="checkbox"/> Standard Equipment	<input type="checkbox"/> Optional Equipment		

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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
- **FBA-BTS** Pre-punched front body attachment holes for torsionally stiff body - tanker
- **FBA-BTSF** Front body attachments for semi-flexible body
- **RBA-T1** Rear body attachments, plates
- **RBA-T2** Rear body attachments, divided
- **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