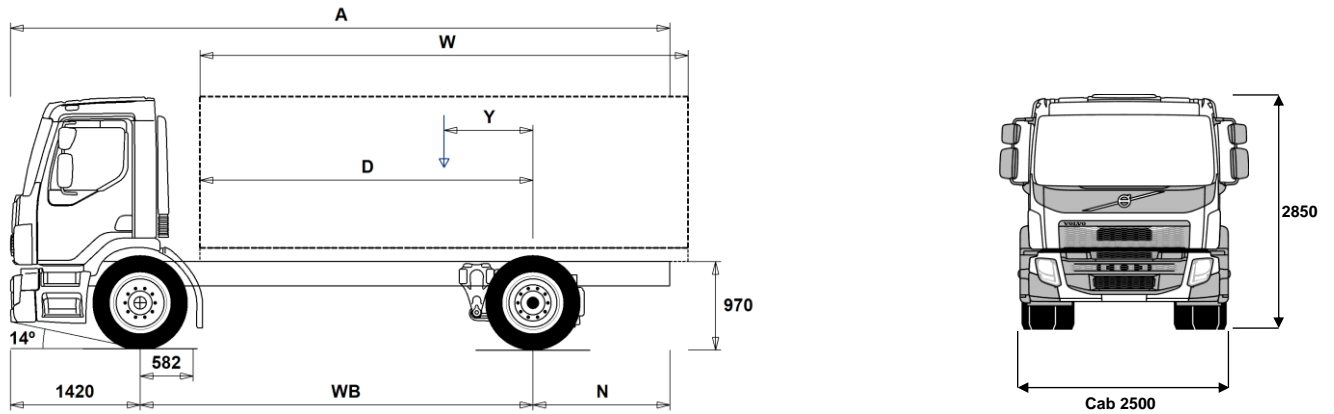


# MODEL RANGE

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.)	303	322	341	355	373	392	414	435	457	479	501	523	554	577
Y Center of Gravity for Payload (Max.)	896	949	1003	1054	1108	1161	1228	1294	1361	1427	1506	1584	1678	1764
W Body Length (Min.)	3896	4191	4483	4779	5072	5365	5732	6100	6466	6834	7276	7720	8232	8760
W Body Length (Max.)	4944	5264	5584	5904	6224	6544	6944	7344	7744	8144	8624	9104	9664	9924

## Chassis Weights [kg]

Front Axle	3925	3925	3920	3935	3935	3930	3930	3935	3935	3940	3955	3965	3965	3980
Rear Axle	1675	1685	1710	1755	1775	1790	1810	1840	1865	1880	1925	1960	1980	1990
Kerb Weight	5600	5610	5630	5690	5710	5720	5740	5775	5800	5820	5880	5925	5945	5970
Payload (including body, driver, fuel, etc.)	12400	12390	12370	12310	12290	12280	12260	12225	12200	12180	12120	12075	12055	12030

## 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	18000
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 ± 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** Telematics gateway with 4G modem
- FELECD** Low entry cab diesel
- FELECFD** Low entry cab flat floor diesel
- 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-SMOOT** 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
- 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, 1 axle - 1 driven (K-ride)
- **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.
- **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-AIR** Front air suspension
- **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
- **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-AIR** Rear air suspension
- RST-AIR5** Rear air suspension, short
- **ABS** Lock free brakes
- **SUSPL-E2** Remote control on wander-lead for air suspension levelling with 2 sensors on rear axle
- SUSPL-E4** Integral three dash switches for air suspension levelling control with 2 sensors
- FRAME266** Frame rail section external height 266 mm
- 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-B** Rear axle 3 piece fenders with anti-spray function
- **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

■ Standard Equipment      □ Optional Equipment

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

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The factory reserves the right to modify design and change equipment without previous notification. The specification can vary from country to country.

# MODEL RANGE

## FE 42 Rigid Rear Air FE 42 R A

- **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
- **RT-ALDP** Dura-Bright aluminium rims with std holes (long stud fixing) on all axles
- **RT-ALP** Polished aluminium rims with std holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare wheel with tyre equal to front wheel
- **SWCP-R** Spare wheel carrier mounted behind rear axle and below frame
- **SWCP-T** Spare wheel supplied temporarily strapped to chassis
- **SWCP-TP** Spare wheel carrier transport mounted with the spare wheel on top of the frame rails

### Powertrain equipment

- **TP-BAS** standard software package supplied with the I-Shift
- **TP-DICON** adapts the gearbox's function to the specific conditions in the distribution and construction segmen
- **TP-FUEC** This software package is ideal for long-haul operations where strong emphasis is placed on fuel econ
- **APF-ENH** Enhanced PTO functions (Auto Neutral / Reverse Inhibit). Garbage - Auto Neutral working on parking brake.
- **APF-ENH2** Enhanced PTO functions (Auto Neutral / Reverse Inhibit). Garbage - Auto Neutral working on service brake.
- **CS39A-O** Single plate clutch, plate diameter 395 mm
- **CS43B-O** Single plate clutch, plate diameter 430 mm
- **RET-TPT** Retarder for hydraulic gearbox
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **TC-MWO** Basic performance oil cooler for mechanical transmissions - water/oil
- **AIRIN-HI** High air intake, mounted behind cab on left hand side
- **AIRIN-RL** Low air intake, chassis mounted behind cab on left hand side
- **ACL1ST-S** Air cleaner with additional filter element
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- **AF-E** Electrically heated fuel filter
- **EST-AID** Engine start pre-heating element
- **220EBH08** Electrical engine block heater, 220V/0.8kW
- **PTER-100** Rear engine mounted clutch independent power-take-off with flange connection (DIN 100 / ISO 7646)
- **PTER-DIN** Rear engine mounted clutch independent PTO with splined shaft groove (female) for a close coupled pump (DIN 5462 / ISO 7653)
- **PTER1400** Rear engine mounted clutch independent power-take-off with flange connection (SAE 1410 / ISO 7647)
- **PR-HP4T** Rear gearbox mounted (top of torque converter) Hydrocar PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)
- **PR-HP4TL** Rear gearbox mounted (top of converter) Hydrocar low speed PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)
- **PR-HP6TH** Rear gearbox mounted (top of converter) Hydrocar high speed PTO with connection (DIN 5462 / ISO 7653) for pump (600 Nm)
- **PR-HP6TL** Rear gearbox mounted (top of converter) Hydrocar low speed PTO with connection (DIN 5462 / ISO 7653) for pump (600 Nm)
- **PTR-FH1** Rear gearbox mounted Hydrocar S81 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (800 Nm)
- **PTR-FH2** Rear gearbox mounted Hydrocar S84 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (430 Nm)

- **PTR-FH5** Rear gearbox mounted Hydrocar S88 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (450 Nm)
- **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
- **PTR-PH2** Rear gearbox mounted Hydrocar S84 PTO with connection (DIN 5462 / ISO 7653) for pump (430 Nm)
- **PTR-PH4** Rear gearbox mounted Hydrocar S88 PTO with connection (DIN 5462 / ISO 7653) for pump (450 Nm)
- **PTR-PK** Electrical and solenoid prep kit for gearbox PTO
- **PTR-ZF2** Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (410 Nm)
- **PTR-ZF4** Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (320 Nm)
- **PTR-ZF5** Rear gearbox mounted ZF PTO with connection (DIN 5462 / ISO 7653) for pump (320 Nm)
- **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)
- **PTRA-PH1** Extra rear gearbox mounted PTO with double S81 connections (DIN 5462 / ISO 7653) for pump
- **PTRA-PH2** Extra rear gearbox mounted PTO with double S84 connections (DIN 5462 / ISO 7653) for pump
- **HPG-F101** Hydraulic gearbox mounted pump F1-101, fixed displacement, single flow
- **HPG-F41** Hydraulic gearbox mounted pump F1-41, fixed displacement, single flow
- **HPG-F51** Hydraulic gearbox mounted pump F1-51, fixed displacement, single flow
- **HPG-F61** Hydraulic gearbox mounted pump F1-61, fixed displacement, single flow
- **HPG-F81** Hydraulic gearbox mounted pump F1-81, fixed displacement, single flow
- **ETC** Electronic throttle control - dash mounted switch for PTO speed control

### Cab interior

- **STWPOS-L** Left hand drive
- **STWPOS-R** Right hand drive
- **TAS-DIG4** version 2, one day digital tachograph, EC approved according to EU regulation 2020/1054
- **IMMOBIL** Immobiliser
- **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.
- **ALARM-B** Burglar alarm - cab
- **WARNVEST** Warning vest. Fulfils European standard according to 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 bandages, bandaging cloths, gauze dressings, adhesive bandage, protective gloves, adhesive tape, first aid packets, rescue sheet.
- **SPDU-R** Dual speed limiter for rear refuse body steps
- **SPDU-S** Dual speed limiter for side loader refuse vehicle
- **SPDU-SR** Dual speed limiter for side and rear loader refuse vehicle
- **CRUIS-E2** Cruise control with i-roll
- **CRUISEC** Cruise control with switches in the steering wheel

### Cab exterior

- **AUXFS** Extra foot step on both sides
- **CF-AFS** Foldable extra front cab foot-step

- Standard Equipment
- Optional Equipment

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# MODEL RANGE

## FE 42 Rigid Rear Air FE 42 R A

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- RCABS-A** Air rear cab suspension
- RCABS-M** Mechanical rear cab suspension
- AD-ROOFA** Adjustable roof air deflector
- AD-SIDES** Short cab side air deflectors
- HL-CLEAN** High pressure headlamp cleaner
- HL-ADJ** Adjustable headlamps to adjust the height of the light beam
- DRL-LED** V-shaped ("V-light") day running light (LED).  
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