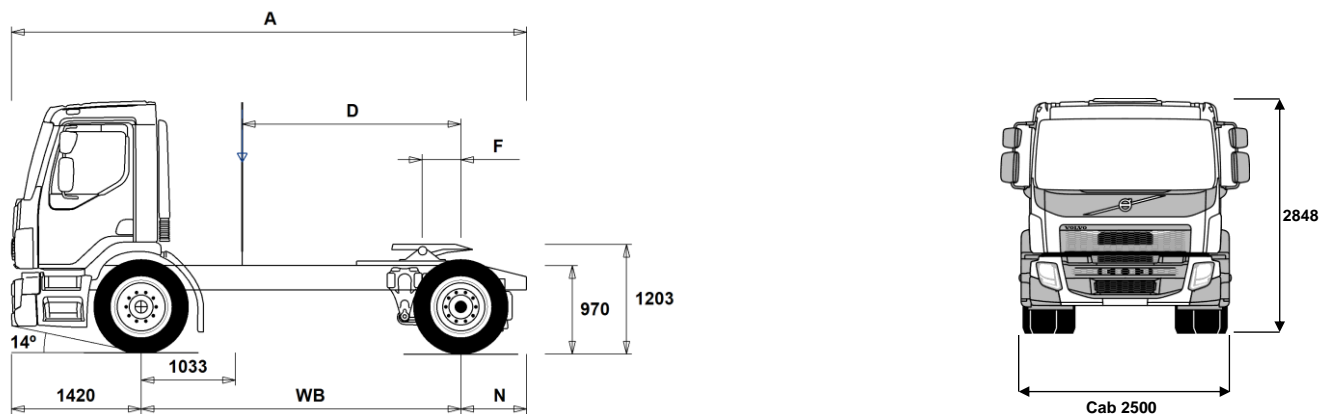


MODEL RANGE

FE 42 Tractor Rear Air FE 42 T A



Chassis Dimensions [mm]

WB Wheelbase	3500	3700	3900
A Overall Chassis Length	5640	5840	6040
D Center of rear axle to back of cab	2393	2593	2793
N Rear Overhang (Min.)	-5	-5	-5
N Rear Overhang (Max.)	720	720	720
F Fifth Wheel Position (EC Directive 96/53)	425	425	425

Chassis Weights [kg]

Front Axle	3975	3970	3965
Rear Axle	1840	1855	1870
Kerb Weight	5815	5825	5835

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12800	13400	14100
Turning Circle Diameter Wall to Wall	14200	14900	15500

Plated Weights [kg]

Gross Vehicle Weight	18000
Gross Combination Weight	32000
Front Axle	7100
Rear Axle	13000

Design

18000
32000
7100
13000

Important Notes

Chassis Dimensions

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 FE42TA.

MODEL RANGE

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Transport operation

- TGW-4G** Telematics gateway with 4G modem
- **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
- **UNIFORM** Basic platform vehicle

Core components

- **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)
- **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
- 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
- **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
- **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
- **ABS** Lock free brakes
- **SUSPL-E1** Remote control on wander-lead for air suspension levelling with 1 sensor on rear axle
- SUSPL-E2** Remote control on wander-lead for air suspension levelling with 2 sensors on rear axle
- SUSPL-E3** Integral three dash switches for air suspension levelling control with 1 sensor

- SUSPL-E4** Integral three dash switches for air suspension levelling control with 2 sensors
- **FRAME266** Frame rail section external height 266 mm
- **FST7070** Frame section thickness - web 7.0 mm / flange 7.0 mm
- 2BATT170** Batteries 2x170 Ah
- **2BATT225** Batteries 2x225 Ah
- ADR2** ADR adaptation, transportation of dangerous goods, 2 switches
- **R220A56** Right 220 litre aluminium 560 mm high D-shaped diesel tank. Usable volume is 97% of stated volume. Min volume 160l Max volume 405l
- **UL-FUEL** Without left diesel tank
- **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
- **RFEC-B** Rear frame end, bent (standard for tractor vehicles)
- TOWR-ONE** One rear towing device in frame end cross member
- **TBC-EC** Trailer brake connection, European Community
- TBC-GBR** Trailer brake connection, Great Britain
- **TRBR-STA** Stationary trailer brake control
- **RFEND-B** Rear axle 3 piece fenders with anti-spray function
- 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
- 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-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 adapts the gearbox's function to the specific conditions in the distribution and construction segmen
- TP-DICON** This software package is ideal for long-haul operations where strong emphasis is placed on fuel econ
- TP-FUEC**
- 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

■ Standard Equipment Optional Equipment

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

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<input type="checkbox"/> TC-MWO	Basic performance oil cooler for mechanical transmissions - water/oil		
<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. Fulfils 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"/> CRUIS-E2	Cruise control with i-roll
<input checked="" type="checkbox"/> AF-E	Electrically heated fuel filter	<input type="checkbox"/> CRUISEC	Cruise control with switches in the steering wheel
<input checked="" type="checkbox"/> EST-AID	Engine start pre-heating element		
<input type="checkbox"/> 220EBH08	Electrical engine block heater, 220V/0.8kW	Cab exterior	
<input type="checkbox"/> PTER-100	Rear engine mounted clutch independent power-take-off with flange connection (DIN 100 / ISO 7646)	<input type="checkbox"/> AUXFS	Extra foot step on both sides
<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)	<input checked="" type="checkbox"/> RCABS-A	Air rear cab suspension
<input type="checkbox"/> PTER1400	Rear engine mounted clutch independent power-take-off with flange connection (SAE 1410 / ISO 7647)	<input checked="" type="checkbox"/> RCABS-M	Mechanical rear cab suspension
<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-ROOFA	Adjustable roof air deflector
<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"/> AD-SIDES	Short cab side air deflectors
<input type="checkbox"/> PTR-FH5	Rear gearbox mounted Hydrocar S88 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (450 Nm)	<input type="checkbox"/> HL-CLEAN	High pressure headlamp cleaner
<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 type="checkbox"/> HL-ADJ	Adjustable headlamps to adjust the height of the light beam
<input type="checkbox"/> PTR-PH2	Rear gearbox mounted Hydrocar S84 PTO with connection (DIN 5462 / ISO 7653) for pump (430 Nm)	<input checked="" type="checkbox"/> DRL-LED	V-shaped ("V-light") day running light (LED). Turned on low beam gives a dimmed "V-light".
<input type="checkbox"/> PTR-PH4	Rear gearbox mounted Hydrocar S88 PTO with connection (DIN 5462 / ISO 7653) for pump (450 Nm)	<input type="checkbox"/> BEACON-P	Roof beacon lights wire preparation (two cable pass throughs)
<input type="checkbox"/> PTR-PK	Electrical and solenoid prep kit for gearbox PTO	<input type="checkbox"/> BEACONA2	2 amber beacon, roof mounted warning lamps
<input type="checkbox"/> PTR-ZF2	Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (410 Nm)	<input checked="" type="checkbox"/> HORN-F1S	One front mounted (behind grille) single tone air horn, Jericho. Operated by steering wheel buttons.
<input type="checkbox"/> PTR-ZF4	Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (320 Nm)	<input type="checkbox"/> HORN-R2S	Two roof mounted single tone chromed air horns
<input type="checkbox"/> PTR-ZF5	Rear gearbox mounted ZF PTO with connection (DIN 5462 / ISO 7653) for pump (320 Nm)	Superstructure preparations	
<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"/> 5WM-ISOL	Fifth wheel ISO mounting on low L-profiles
<input type="checkbox"/> PTRA-PH1	Extra rear gearbox mounted PTO with double S81 connections (DIN 5462 / ISO 7653) for pump	<input type="checkbox"/> 5WH150	Fifth wheel leg-height 150 mm
<input type="checkbox"/> PTRA-PH2	Extra rear gearbox mounted PTO with double S84 connections (DIN 5462 / ISO 7653) for pump	<input checked="" type="checkbox"/> 5WH185	Fifth wheel leg-height 185 mm
<input type="checkbox"/> HPG-F101	Hydraulic gearbox mounted pump F1-101, fixed displacement, single flow	<input type="checkbox"/> 5WT-FO14	Fontaine 150SP pressed steel fixed fifth wheel
<input type="checkbox"/> HPG-F41	Hydraulic gearbox mounted pump F1-41, fixed displacement, single flow	<input type="checkbox"/> 5WT-FO15	Fontaine cast iron 3000 series air actuated sliding fifth wheel. Specified fifth wheel position always gives rearmost position.
<input type="checkbox"/> HPG-F51	Hydraulic gearbox mounted pump F1-51, fixed displacement, single flow	<input checked="" type="checkbox"/> 5WT-JO10	st JSK 36 pressed steel fixed fifth wheel
<input type="checkbox"/> HPG-F61	Hydraulic gearbox mounted pump F1-61, fixed displacement, single flow	<input type="checkbox"/> 5WT-JO9	Jost JSK 42 cast iron fixed fifth wheel
<input type="checkbox"/> HPG-F81	Hydraulic gearbox mounted pump F1-81, fixed displacement, single flow	<input checked="" type="checkbox"/> 5WLM-B	Basic fifth wheel maintenance
<input type="checkbox"/> ETC	Electronic throttle control - dash mounted switch for PTO speed control	<input type="checkbox"/> 5WLM-L	Low fifth wheel maintenance
		<input checked="" type="checkbox"/> RDECK	Rear deck, basic
		<input type="checkbox"/> RDECK-M	Rear deck, medium
		<input type="checkbox"/> WL-TA1A	Working lamp on trailer arch, 1 lamp amber
		<input checked="" type="checkbox"/> WL-TA1W	Working lamp on trailer arch, 1 lamp white
		Services	
		<input checked="" type="checkbox"/> WVTA	Whole Vehicle Type Approved
Cab interior			
<input checked="" type="checkbox"/> STWPOS-L	Left hand drive		
<input type="checkbox"/> STWPOS-R	Right hand drive		
<input checked="" type="checkbox"/> TAS-DIG4	version 2, one day digital tachograph, EC approved according to EU regulation 2020/1054		
<input type="checkbox"/> IMMOBIL	Immobiliser		
<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		
<input checked="" type="checkbox"/> Standard Equipment		<input type="checkbox"/> Optional Equipment	

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