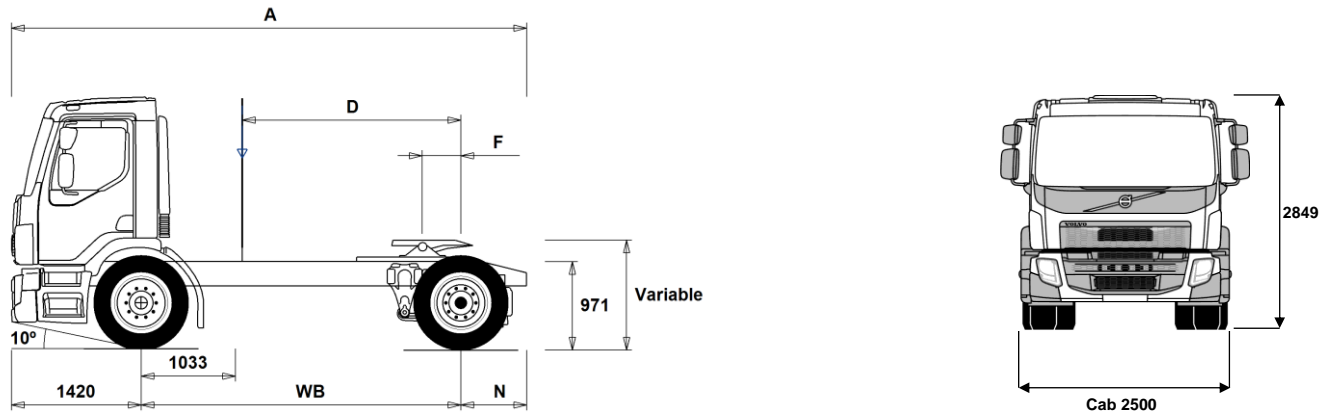


# MODEL RANGE



FE818 4x2 Tractor 18 tonne - Rear Air Suspension FE 42 T A

Volvo Trucks. Driving Progress



## 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	3960	3955	3955
Rear Axle	1775	1790	1805
Kerb Weight	5735	5745	5760

## Turning Diameter [mm]

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

## Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	18000	18000
Gross Combination Weight	32000	32000
Front Axle	7100	7100
Rear Axle	11500	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  $\pm 20$  mm for leaf and  $\pm 10$  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.

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### TRUCK USE

- **TGW-4G** Telematics gateway - GSM/GPRS/4G modem, WLAN
- **RC-SMOOT** Road Conditions - Smooth
- **UNIFORM** Transport Adaption - Basic platform vehicle

### CORE COMPONENTS

- **CHH-MED** Chassis Height - Medium - for loading heights check the unique BEP chassis drawing
- **RAD-KR** Rear suspension - Air 2 bag design
- **CAB-DAY** Cab - Day - with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations
- **CAB-SLP** Cab - Sleeper with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations
- **CAB-SSLP** Cab - Comfort with additional storage space or optional fold up bunk behind the driver - with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations.
- **EU6SCR** Emission level - Euro VI step E
- **D8K280** D8K280 six cylinder 7.7 litre engine developing 280hp at 2100rpm.  
Peak torque 1050Nm at 950-1700rpm.
- **D8K320** Engine - D8K320 six cylinder 7.7 litre developing 320hp at 2100rpm.  
Peak torque 1200Nm at 1050-1600rpm.
- **D8K350** Engine - D8K350 six cylinder 7.7 litre engine developing 350hp at 2100rpm.  
Peak torque 1400Nm at 1200-1600rpm.
- **EBR-CEB** Engine Brake Type - Compression - producing 170kW at 2800rpm
- **EBR-EPG** Engine Brake Type - Exhaust - producing 120kW at 2800rpm
- **AT2412F** Gearbox - I-shift Automated 12-speed - suitable for gross train weights up to 44tonne
- **ZTO1006** Gearbox - Manual 6-speed overdrive
- **ZTO1109** Gearbox - Manual 9-speed range change overdrive
- **RSS1344C** Drive Axle - RS1344C single reduction with differential lock - design GCW 44 tonne
- **RSS1344E** Drive Axle - RSS1344E single reduction with differential lock - design GCW 44 tonne

### Packages

- **DRIVEFE** Cab Package - Drive
- **VISIFE** Visibility Package
- **AIRFLOW** Airflow Package -
- **FUELFE** Fuel Package
- **AUDIODAB** Audio System - Digital DAB AM/FM Radio with Bluetooth - without CD player
- **AUDIOPD** Audio - Preparation for DAB radio including amplifier and aerial

### CHASSIS

- **FST-PAR** Front suspension type - 2 leaf parabolic springs
- **FAL7.1** Front axle design capacity - 7.1 tonne
- **FAL7.5** Front axle design capacity - 7.5 tonne
- **FAL8.0** Front axle design capacity - 8.0 tonne - check tyre capacity
- **RAL13** Rear axle design capacity - 13 tonne
- **RSTAB1** Rear anti-roll bar - Normal stiffness
- **EBS-MED** Brake package - EBS medium including traction control & hill hold
- **EBS-STD** Brake package - EBS standard package without traction control
- **RST-AIR** Rear suspension type - Air
- **ABS** Anti-lock brakes

■ 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.

- **SUSPL-E1** Air suspension levelling control - Remote control on wander-lead
- **SUSPL-E2** Air suspension levelling control - Remote control on wander-lead
- **SUSPL-E3** Air suspension levelling control - Integral dash switches
- **SUSPL-E4** Air suspension levelling control - Integra dash switches
- **FRAME266** Chassis frame section external height - 266 mm
- **FST7070** Chassis frame thickness - 7 mm web and flange
- **2BATT170** Battery Capacity - 2 x 170 Ah on the left-hand side
- **2BATT225** Battery Capacity - 2 x 225 Ah on the left-hand side
- **ADR2** ADR Adaptation - For transportation of dangerous goods on the road - Note does NOT include safe loading pass package if required this is quoted separately
- **R220A56** 220 litre right hand aluminium 560 mm D-shaped fuel tank  
Min volume 160l  
Max volume 405l
- **UL-FUEL** Without left fuel tank
- **ADTP-R** Adblue tank position - Chassis mounted on the right-hand side
- **WHC-FIX1** Wheel chock - One fixed design
- **WHC-FIX2** Two wheel chocks
- **TB-L33** Toolbox - 58 litre - width 330mm, height 310mm, depth 660mm
- **TB-L75** Toolbox - 106 litre - width 755mm, height 430mm, depth 550mm
- **RFEC-B** Rear frame end, bent down - standard for tractor vehicles
- **TOWR-ONE** Light trailer coupling - Pintle type hitch attached to rear cross member for an unbraked trailer
- **TBC-EC** Trailer brakes with EC palm coupling connectors
- **TBC-GBR** 'C' and 'CA' type air line connectors
- **TRBR-STA** Stationary trailer brake control
- **RFEND-B** Three piece rear mudwings
- **RFH-103** Quarter rear wing
- **RFH-BAS** Basic rear wing height
- **RFH-HIG** High rear wing height - higher wing tops
- **RFH-LOW** Lower rear wing height - shallower wing tops
- **ATANK-AL** Air tanks - Aluminium
- **ATANK-ST** Air tanks - Steel

### WHEELS & TYRES

- **RT-AL** Wheels - Alcoa brushed aluminium rims - standard holes for long stud fixing
- **RT-ALDP** Wheels - Alcoa Dura-Bright aluminium rims - standard holes for long stud fixing
- **RT-ALP** Wheels - Alcoa polished aluminium rims - standard holes for long stud fixing
- **RT-STEEL** Wheels - Steel rims
- **SPWT-F** Spare wheel & tyre - Spare with front tyre pattern
- **SWCP-T** Spare wheel supplied temporarily strapped to chassis
- **SWCP-TP** Spare wheel transport mounted on frame, (spare wheel carrier not included)

### DRIVELINE EQUIPMENT

- **TP-BAS** I-shift software - basic
- **TP-DICON** I-shift software - Distribution and Construction
- **TP-FUEC** I-shift software - Fuel & economy
- **APF-ENH** I-shift enhanced PTO functions
- **APF-ENH2** I-shift enhanced PTO functions on service brake
- **CS39A-O** Clutch - Single plate 395mm (16")
- **CS43B-O** Clutch - Single plate 430mm (17")
- **TC-MWO** Basic transmission oil cooler - water to oil
- **AIRIN-HI** Air intake - Mounted behind cab on the left-hand side
- **AIRIN-RL** Air intake - Chassis mounted behind cab on the left-hand side
- **ACL1ST-S** Air filter - two-stage element

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- **24AL110B** Alternator capacity - 110 amp
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- **AF-E** Auxiliary fuel system option - Electrically heated fuel filter
- **EST-AID** Engine starting aid -Preheating element in the air inlet manifold
- **220EBH08** Engine block heater - 220V/0.8kW
- **PTER-100** Engine power-take-off - Rear-mounted with DIN100/ISO7646 flange
- **PTER-DIN** Engine power-take-off - Rear-mounted with DIN5462 (female) splined shaft for a close-coupled pump
- **PTER1400** Engine power-take-off - Rear-mounted with SAE 1410 flange
- **PTR-FH1** Rear PTO Gearbox S81 flange DIN connection
- **PTR-FH2** Rear PTO Gearbox S84 flange DIN connection
- **PTR-FH5** Rear PTO Gearbox S88 flange DIN connection
- **PTR-PH1** Rear PTO Gearbox S81 pump DIN connection
- **PTR-PH2** Rear PTO Gearbox S84 pump DIN connection
- **PTR-PH4** Rear PTO Gearbox S88 pump DIN connection
- **PTR-PK** Electrical and solenoid prep kit for gearbox PTO
- **PTR-ZF2** Rear Power Take Off flange DIN connection
- **PTR-ZF4** Rear PTO Gearbox 320Nm flange connection
- **PTR-ZF5** Rear PTO Gearbox 320Nm pump connection
- **PTRD-D1D** PTO for I shift with twin outputs - flange (550 Nm) and pump connection (1000 Nm)
- **PTRA-PH1** Add PTO for 9sp box twin S81 pump conn
- **PTRA-PH2** Add PTO for 9sp box twin S84 pump conn
- **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** Electronic throttle control - dash mounted switch for PTO speed control

### CAB INTERIOR

- **STWPOS-L** Steering wheel position - LEFT-HAND DRIVE
- **STWPOS-R** Steering wheel position - RIGHT-HAND DRIVE
- **IMMOBIL** Immobiliser
- **WARNLAMP** Portable warning lamp
- **ALARM-B** Vehicle alarm - cab only
- **WARNVEST** High visibility warning vest - no sleeves
- **AIDKIT** First aid kit - Legal demand for EU markets including delivery to EU bodybuilder
- **AIDKIT1B** First aid kit - Legal demand for trucks transiting Germany
- **CRUIS-E2** Cruise control for I shift with Eco-Roll
- **CRUISEC** Cruise control with switches in the steering wheel

### CAB EXTERIOR

- **AUXFS** Extra foot step on both sides
- **RCABS-A** Rear cab suspension - Air
- **RCABS-M** Rear cab suspension - Mechanical spring
- **AD-ROOFA** Adjustable roof deflector with 12 positions
- **AD-SIDES** Cab side air deflector, short extension panels.
- **HL-CLEAN** Head lamp cleaner
- **HL-ADJ** Adjustable headlights with switch in the cab
- **DRL-LED** V-shaped daytime running lights
- **BEACON-P** Beacon preparation

- **BEACONA2** Two amber beacons directly mounted to cab roof
- **HORN-F1S** Horn - Air single tone - chassis mounted
- **HORN-R2S** Horn - Air - Two roof-mounted

### SUPERSTRUCTURE PREPARATIONS

- **5WM-ISOL** Fifthwheel mount - Flush L profiles with 12mm ISO plate - 16mm high above chassis frame
- **5WH150**
- **5WH185**
- **5WT-FO14**
- **5WT-FO15**
- **5WT-JO10**
- **5WT-JO9**
- **5WLM-B**
- **5WLM-L**
- **RDECK** Catwalk - Single plate and step
- **RDECK-M** Catwalk - Extended with two plates and step
- **WL-TA1A** Coupling light - Amber
- **WL-TA1W** Coupling light - White

### DELIVERY SERVICES

- **WVTA** EC Whole Vehicle Type Approved

**V O L V O**

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