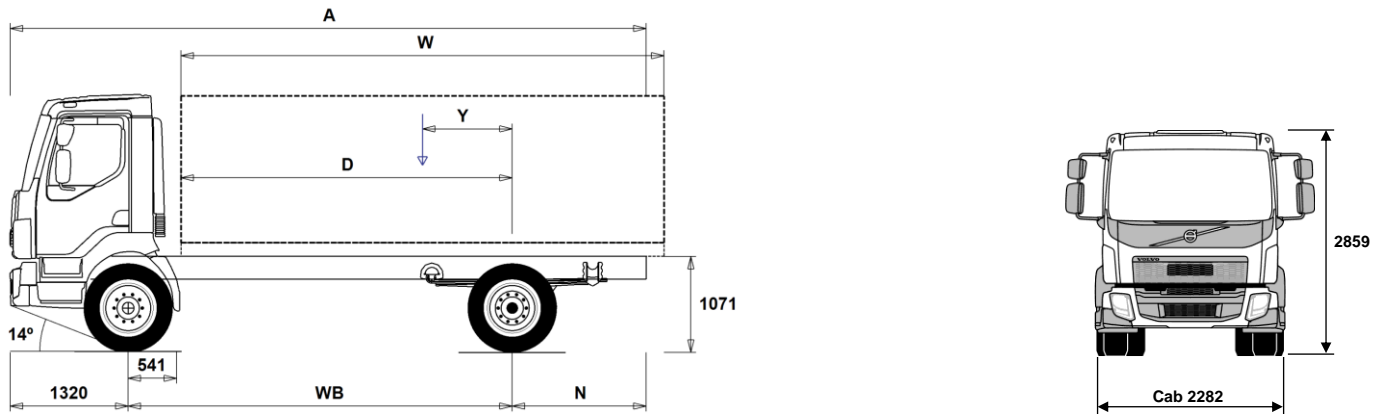


# MODEL RANGE



Volvo Trucks. Driving Progress

FL 42R GVW18 8L leaf FL 42 R 818L



## Chassis Dimensions [mm]

WB Wheelbase	3500	3800	4100	4400	4700	5000	5300	5600	5900	6200	6500	6800
A Overall Chassis Length	6975	7425	7955	8425	8915	9435	9915	10425	10835	11430	11730	12030
D Center of rear axle to front of body	2909	3209	3509	3809	4109	4409	4709	5009	5309	5609	5909	6209
N Rear Overhang (Min.)	1515	1615	1515	1615	1615	1615	1615	1615	1615	1615	1615	1615
N Rear Overhang (Max.)	2155	2305	2535	2705	2895	3115	3295	3505	3615	3910	3910	3910
Y Center of Gravity for Payload (Min.)	861	936	1011	1085	1160	1235	1309	1385	1456	1534	1602	1672
Y Center of Gravity for Payload (Max.)	1025	1113	1203	1292	1381	1471	1560	1650	1737	1830	1913	1997
W Body Length (Min.)	3768	4191	4612	5034	5455	5875	6298	6718	7144	7559	7992	8424
W Body Length (Max.)	4095	4547	4996	5447	5898	6347	6800	7249	7706	8150	8613	9074

## Chassis Weights [kg]

Front Axle	3335	3340	3345	3350	3355	3360	3370	3375	3385	3385	3405	3415
Rear Axle	1810	1830	1860	1880	1905	1930	1960	1980	1995	2025	2040	2040
Kerb Weight	5145	5170	5205	5230	5260	5290	5330	5355	5380	5410	5445	5455
Payload (including body, driver, fuel, etc.)	12855	12830	12795	12770	12740	12710	12670	12645	12620	12590	12555	12545

## Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	13400	14300	15300	16300	17300	18200	19200	20200	21100	22100	23100	24000
Turning Circle Diameter Wall to Wall	14500	15500	16400	17400	18400	19300	20300	21300	22300	23200	24200	25200

## Plated Weights [kg]

Gross Vehicle Weight	18000
Gross Combination Weight	21000
Front Axle	7100
Rear Axle	11500

## Design

18000
21000
7100
11500

## Important Notes

### Chassis Dimensions

Front Axle to Back of Cab: +291 mm for CAB-SSLP.  
 D-measure includes a front clearance of 50 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: 305/70R22.5  
 Drive Axle Tyres: 305/70R22.5

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 FL42R818L.

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## Core components

- **RAD-L80** Rear leaf suspension, 1 axle - 1 driven (80 mm wide leaves)
- **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
- **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.
- **ATO1056** I-Sync, Automated manual 6 speed gearbox, 1070 Nm
- **ZTO1006** Overdrive 6 speed manual ZF gearbox, 1050 Nm
- **RSS1132A** Rear single reduction solo axle - axle load 11 tonnes, GCW 32.5 tonnes

## Packages

- **DRIVEFL** Driver convenience package FL
- **VISIFL** Visibility package FL - 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** Front parabolic leaf suspension (normal stiffness)
- **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 rear suspension with normal stiffness
- **RST-PAR3** Three leaf parabolic rear suspension, stiffer than normal
- **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
- **ADR2** ADR adaptation, transportation of dangerous goods, 2 switches
- **R80P** Right 80 litre plastic diesel tank  
Min volume 80l  
Max volume 430l
- **UL-FUEL** Without left diesel tank  
Min volume 160l  
Max volume 210l
- **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
- **TOWMBRH** High mounted towing member, in centre of frame
- **C-RO40AG** Towing coupling Rockinger 400 G-145
- **TOWF-NO1** One front towing device
- **TOWF-NO2** Two front towing devices
- **TOWR-ONE** One rear towing device in frame end cross member
- **TREL15** 15 pol electrical trailer connector (ADR certified)
- **TBC-EC** Trailer brake connection, European Community
- **RUP-FIX2** Fixed aluminium rear underrun protection, EC approved
- **RFEND-T** Transport mounted one-piece rear fenders, only for Jockey

■ 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.

transport

## Rims and tyres

- **SPWT-F** Spare wheel with tyre equal to front wheel
- **SWCP-LF** Spare wheel carrier on left side in front of rear axle
- **SWCP-R** Spare wheel carrier mounted behind rear axle and below frame
- **SWCP-T** Temporary spare wheel carrier.  
Spare wheel is transport mounted (strapped on top of the frame rails) with plastic strips.
- **SWCP-TP** Spare wheel carrier transport mounted with the spare wheel on top of the frame rails
- **JACK-10T** Jack, 10 tonnes
- **GAUGE-TP** Tyre pressure gauge

## Powertrain equipment

- **CS39A-O** Single plate clutch, plate diameter 395 mm
- **RET-TPT** Retarder for hydraulic gearbox
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **1COMP500** Single cylinder air compressor 360 cc / 500 l/min
- **2COM1080** Dual cylinder air compressor 720 cc / 1080 l/min
- **AIRIN-HI** High air intake, mounted behind cab on left hand side
- **AIRIN-LR** Low air intake, chassis mounted behind cab on left hand side
- **ACL1ST** Air cleaner with one filter element
- **ACL1ST-S** Air cleaner with additional filter element
- **24AL110B** Alternator 110 Ampere
- **24AL130B** Alternator 130 Ampere
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- **EST-AID** Engine start pre-heating element
- **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-HF4S** Rear gearbox mounted (side of torque converter) Hydrocar PTO with flange connection (DIN 100 / ISO 7646) for propeller shaft (400 Nm)
- **PR-HF4SH** Rear gearbox mounted (side of torque converter) Hydrocar high speed PTO with flange connection (DIN 100 / ISO 7646) for propeller shaft (400 Nm)
- **PR-HF6S** Rear gearbox mounted (side of torque converter) Hydrocar PTO with flange connection (DIN 100 / ISO 7646) for propeller shaft (600 Nm)
- **PR-HP4S** Rear gearbox mounted (side of torque converter) Hydrocar PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)
- **PR-HP4SH** Rear gearbox mounted (side of torque converter) Hydrocar high speed PTO with connection (DIN 5462 / ISO 7653) for pump (400 Nm)
- **PR-HP6S** Rear gearbox mounted (side of torque converter) Hydrocar 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)
- **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

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- **PTR-ZF2** Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (410 Nm)
- **PTR-ZF3** Rear gearbox mounted ZF PTO with connection (DIN 5462 / ISO 7653) for pump (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)
- **PTR-ZF6** Rear gearbox mounted ZF PTO with flange connection (DIN 100 / ISO 7646) for prop shaft (270 Nm)
  
- **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 exterior

- **SUNV-B** Exterior transparent dark grey front sun visor
- **SUNV-PK** Exterior front sun visor installation preparation kit (fasteners)
  
- **AD-ROOF** Fixed roof air deflector
  
- **AD-SIDES** Short cab side air deflectors
  
- **BEACON-P** Roof beacon lights wire preparation (two cable pass throughs)
- **BEACON-A2** 2 amber beacon, roof mounted rotating warning lamps

## Superstructure preparations

- **FBA-BTF** Front body attachments for flexible body
- **FBA-BTSF** Front body attachments for semi-flexible body
  
- **RBA-T2** Rear body attachments, divided
  
- **TAILPREP** Tail lift preparation kit

## Services

- **TGW-4G** Telematics gateway with 4G modem
  
- **WVTA** Whole Vehicle Type Approved

**VOLVO**

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