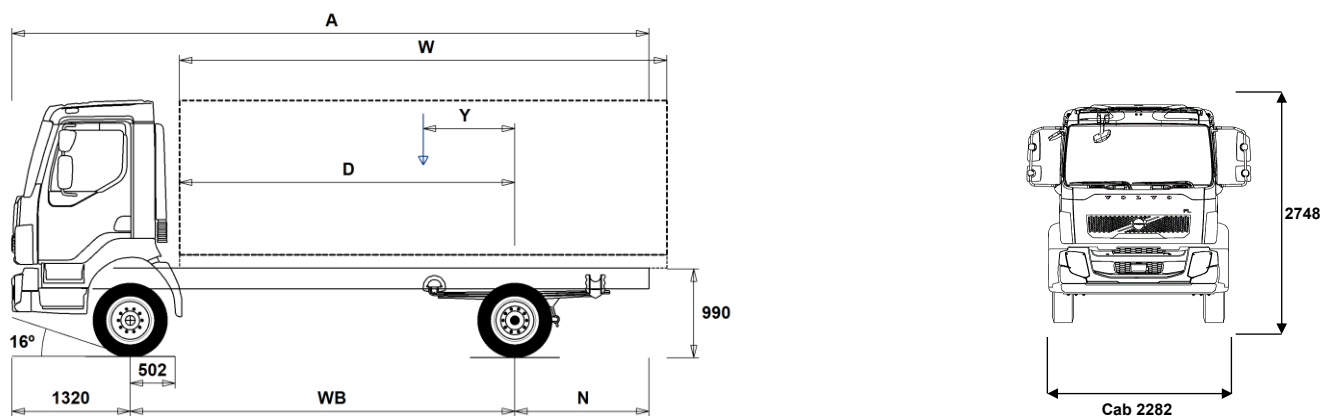


MODEL RANGE

FL 42R GVW14 5L leaf FL 42 R 514L



Chassis Dimensions [mm]

WB Wheelbase	3250	3500	3800	4100	4400	4700	5000	5300	5600	5900	6200	6500
A Overall Chassis Length	6545	6975	7425	7955	8425	8915	9435	9915	10425	10835	11430	11730
D Center of rear axle to front of body	2698	2948	3248	3548	3848	4148	4448	4748	5048	5348	5648	5948
N Rear Overhang (Min.)	1885	2055	1855	2445	2635	2835	2895	2895	3415	3295	3505	3755
N Rear Overhang (Max.)	1975	2155	2305	2535	2705	2895	3115	3295	3505	3615	3910	3910
Y Center of Gravity for Payload (Min.)	476	514	560	608	655	700	745	792	839	879	927	968
Y Center of Gravity for Payload (Max.)	645	697	759	823	887	948	1010	1073	1137	1195	1259	1317
W Body Length (Min.)	4105	4501	4977	5449	5922	6400	6875	7350	7823	8307	8778	9262
W Body Length (Max.)	4444	4867	5376	5880	6386	6897	7405	7913	8408	8888	9368	9848

Chassis Weights [kg]

Front Axle	3095	3095	3095	3090	3085	3090	3095	3095	3095	3105	3105	3115
Rear Axle	1310	1345	1375	1400	1420	1445	1475	1495	1515	1545	1570	1575
Kerb Weight	4405	4440	4470	4490	4505	4535	4570	4590	4610	4650	4675	4690
Payload (including body, driver, fuel, etc.)	9595	9560	9530	9510	9495	9465	9430	9410	9390	9350	9325	9310

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	11600	12400	13300	14200	15100	16000	16900	17700	18600	19500	20400	21300
Turning Circle Diameter Wall to Wall	12900	13700	14600	15500	16400	17300	18200	19100	20000	20900	21800	22700

Plated Weights [kg]

	Design
Gross Vehicle Weight	14000
Gross Combination Weight	15500
Front Axle	5000
Rear Axle	9500

Important Notes

Chassis Dimensions

Cab Height: +39 mm for CAB-CRW.

Front Axle to Back of Cab: +1294 mm for CAB-CRW, +316 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 ± 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.

Weight and dimensions are based upon the following tyres:

Front Axle Tyres: 245/70R19.5

Drive Axle Tyres: 245/70R19.5

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 FL42R514L.

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Core components

- **CHH-HIGH** Chassis height high - approx. 1000 mm above ground level
- **CHH-MED** Chassis height medium - approx. 900 mm above ground level
- **RAD-L80** Rear leaf suspension - one axle, driving (80 mm wide leafs)
- **FL-CREW2** FL Crew cab
- **FL-DAY2** FL Day cab
- **FL-SSLP2** FL Comfort cab
- **EU6SCR** Euro 6 with SCR, particulate filter and EGR, Turbo-S
- **D5K210** Diesel engine, Euro 6, 5.1 litres, 210 hp/154 kW, 800 Nm
- **D5K240** Diesel engine, Euro 6, 5.1 litres, 240 hp/177 kW, 900 Nm
- **ATO1056**
- **ATO8006**
- **STO8006** Manual 6-speed gearbox, 850 Nm
- **ZTO1006** Manual 6-speed gearbox, 1050 Nm
- **EBR-EPG** Engine brake with exhaust pressure governor
- **RSS1125A** Rear single reduction solo axle - axle load 11 tonnes, GCW 25 tonnes
- **RSS1132A** Rear single reduction solo axle - axle load 11 tonnes, GCW 32.5 tonnes

Packages

- **DRIVEFL** Driver convenience package FL
- **VISIFL** Visibility package FL
- **AIRFLOW** Airflow package with roof and side air deflectors and chassis fairings
- **AUDIODAB** Audio system with DAB radio and DAB amplifier
- **AUDIOPD** Preparation kit for DAB radio, including DAB amplifier

Chassis

- **FST-PAR** Two-leaf front parabolic springs (normal stiffness)
- **FST-PAR3** Three-leaf front parabolic springs (stiffer than normal)
- **FAL5.0** Front axle load 5.0 tonnes
- **FAL5.6** Front axle load 5.6 tonnes
- **FAL5.8** Front axle load 5.8 tonnes
- **RAL10.6** Rear axle load 10.6 tonnes
- **RAL9.5** Rear axle load 9.5 tonnes
- **RSTAB1** Rear anti-roll bar, normal stiffness
- **EBS-MED** EBS (Electronic Braking System), Medium package
- **EBS-STD** EBS (Electronic Braking System), Standard package
- **RST-PAR1** Rear parabolic leaf springs
- **RST-PAR3** Three-leaf parabolic rear springs, stiffer than normal
- **FST6060** Frame thickness - web 6.0 mm / flange 6.0 mm
- **FST7070** Frame thickness - web 7.0 mm / flange 7.0 mm
- **FST8080** Frame thickness - web 8.0 mm / flange 8.0 mm
- **2BATT170** Batteries, 2x170 Ah
- **ADR2** ADR adaptation, 1 switch in dashboard, 1 outside on back of cab
- **R80P** Right 80-litre plastic fuel tank
Min volume 80l
Max volume 430l
- **UL-FUEL** Without left side fuel tank
Min volume 80l
Max volume 215l
- **ADTP-L** AdBlue tank on left hand side
- **ADTP-R** AdBlue tank on right hand side
- **WHC-FIX1** One non-collapsible wheel chock
- **WHC-FIX2** Two non-collapsible wheel chocks
- **TOWMBRH** Towing member, high-mounted in centre of frame
- **C-RO40AG** Towing coupling Rockinger 400 G-145
- **TOWF-NO1** One front towing device

■ 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.

- **TOWF-NO2** Two front towing devices
- **TOWR-ONE** Rear towing device in frame-end cross member
- **TREL15** 15-pin trailer connection (ADR certified)
- **TBC-EC** Trailer brake connection, European Community
- **RUP-FIX2**
- **RFEND-T** Transport mudguard

Rims and tyres

- **RT-AL** Brushed aluminium rims with standard holes (long stud fixing) on all axles
- **RT-ALDP** Dura-Bright® polished aluminium rims with standard holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare front wheel
- **SWCP-LF** Spare wheel carrier on left side in front of rear axle
- **SWCP-R** Spare wheel carrier mounted behind rear axle
- **SWCP-T** Spare wheel transport-mounted on top of frame
- **SWCP-TP** Spare wheel and carrier transport-mounted on top of frame
- **JACK-10T** Hydraulic jack, 10 tonnes. Low manual pumping force facilitates use in uncomfortable positions. Has a release valve, which permits safe, easy and precise control over rate of lowering and a filter in the oil reservoir gives protection from contamination. Colour RAL 9004. Height 200-518 mm, weight 9,2 kg
- **JACK-8T** Hydraulic jack, 8 tonnes. Low manual pumping force facilitates use in uncomfortable positions. Has a release valve, which permits safe, easy and precise control over rate of lowering and a filter in the oil reservoir gives protection from contamination. Colour RAL 9004. Height 227-469 mm, weight 7.3 kg
- **GAUGE-TP** Tyre pressure gauge

Powertrain equipment

- **CS39A-O** Single-plate clutch, plate diameter 395 mm
- **RET-TPT** Gearbox-mounted Powertronic primary retarder
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **1COMP500** Single-cylinder air compressor 360 cc, 500 l/min
- **AIRIN-FR** Front air inlet
- **AIRIN-HI** High air inlet
- **AIRIN-RL** Low air inlet, chassis mounted behind cab on left-hand side
- **ACL1ST** Air cleaner with one filter element
- **ACL1ST-S** Air cleaner with extra filter element
- **24AL110B** Alternator 110 Ampere
- **24AL130B** Alternator 130 Ampere
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge
- **EST-AID** Engine intake air heater
- **PTER-100** Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646
- **PTER-DIN** Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653
- **PTER1400** Rear engine, clutch-independent PTO, flange connection, SAE 1410/ISO 7647
- **PR-HF4S** Rear gearbox (side) PTO, flange connection
- **PR-HF4SH** Rear gearbox (side) PTO, flange connection, high-speed
- **PR-HF6S** Rear gearbox (side) PTO, flange connection
- **PR-HP4S** Preparation kit for rear, side-mounted gearbox PTO, pump connection, 400 Nm
- **PR-HP4SH** Rear gearbox PTO, pump connection, side-mounted, high-speed
- **PR-HP6S** Preparation kit for rear, side-mounted gearbox PTO, pump connection, 600 Nm
- **PTR-FH1** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft 800 Nm

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- **PTR-FH2** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 430 Nm
- **PTR-FH5** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 450 Nm
- **PTR-PH1** Rear gearbox PTO Hydrocar S81, connection DIN 5462/ISO 7653 for pump, 800 Nm
- **PTR-PH2** Rear gearbox PTO Hydrocar S84, connection DIN 5462/ISO 765 for pump, 430 Nm
- **PTR-PH4** Rear gearbox PTO Hydrocar S88, connection DIN 5462/ISO 7653 for pump, 450 Nm
- **PTR-PK** Preparation kit for rear gearbox PTO
- **PTR-ZF2** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 410 Nm
- **PTR-ZF3** Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 410 Nm
- **PTR-ZF4** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 320 Nm
- **PTR-ZF5** Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 320 Nm
- **PTR-ZF6** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 270 Nm

- **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** PTO speed control 900-1500 rpm with dash-mounted switch

Cab interior

- **TAS-DIG4** Gen 4 one-day digital tachograph, EC approved (GNSS & DSRC, EU 2020/1054)

- **TSRS** Road sign recognition
- **TSRS2** Road sign recognition (not ISA compliant)

Cab exterior

- **SUNV-B** Exterior front sun visor, transparent dark-grey
- **SUNV-PK** Preparation kit for exterior front sun visor (cab roof reinforcement)

- **AD-SIDES** Cab side air deflectors, short

- **BEACON-P** Preparation kit for roof beacons
- **BEACONA2** Two amber LED beacons on cab front roof

Superstructure preparations

- **FBA-BTF** Front body attachment brackets, lower, for flexible body
- **FBA-BTSF** Front body attachment brackets, lower, for semi-flexible body

- **RBA-T2** Rear body attachment brackets, lower

- **TAILPREP** Tail lift preparation kit

Services

- **TGW-4G**

- **WVTA** Whole Vehicle Type Approved

Volvo Trucks. Driving Progress