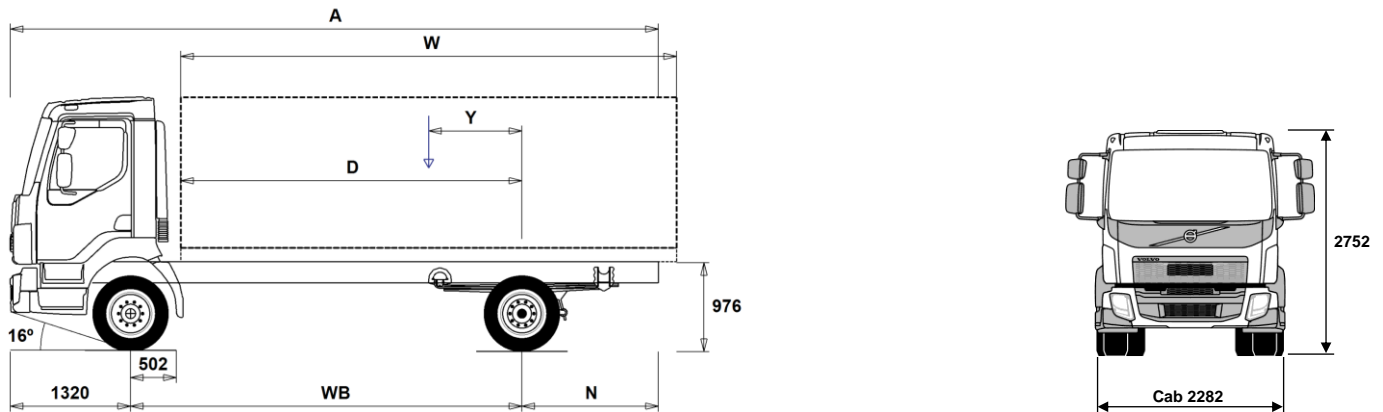


# MODEL RANGE



Volvo Trucks. Driving Progress

FL 42R GVW16 5L leaf FL 42 R 516L



## 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	2485	2685	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.)	575	622	679	738	796	852	910	967	1025	1077	1137	1189
Y Center of Gravity for Payload (Max.)	771	835	910	988	1065	1140	1217	1293	1370	1443	1522	1593
W Body Length (Min.)	3854	4227	4676	5121	5567	6016	6463	6909	7355	7811	8253	8710
W Body Length (Max.)	4247	4652	5138	5620	6104	6591	7077	7561	8046	8541	9022	9518

## Chassis Weights [kg]

Front Axle	3055	3050	3045	3030	3025	3025	3025	3025	3020	3035	3030	3040
Rear Axle	1370	1410	1445	1480	1505	1535	1575	1600	1625	1655	1685	1695
Kerb Weight	4425	4460	4490	4510	4530	4560	4600	4625	4645	4690	4715	4735
Payload (including body, driver, fuel, etc.)	11575	11540	11510	11490	11470	11440	11400	11375	11355	11310	11285	11265

## 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]

Gross Vehicle Weight	16000
Gross Combination Weight	16500
Front Axle	5800
Rear Axle	10900

## Design

## Important Notes

### Chassis Dimensions

Cab Height: +39 mm for CAB-CRW.  
 Front Axle to Back of Cab: +1338 mm for CAB-CRW, +330 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. 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 FL42R516L.

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## Transport operation

- **UNIFORM** Basic platform vehicle

## 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, 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)
- **D5K210** Four cylinder diesel engine, 5.1 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 210 hp, 800 Nm
- **D5K240** Four cylinder diesel engine, 5.1 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 240 hp, 900 Nm
- **EBR-EPG** Engine brake with Exhaust Press Governor, EPG
- **ATO1056** I-Sync, Automated manual 6 speed gearbox, 1070 Nm
- **ATO8006** I-Sync, Automated manual 6 speed gearbox, 850 Nm
- **STO8006** Manual overdrive 6 speed gearbox, 850 Nm
- **ZTO1006** Overdrive 6 speed manual ZF gearbox, 1050 Nm
- **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 - 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)
- **FST-PAR3** Two leaf front parabolic suspension (stiffer than normal), reinforced
- **FAL5.8** Front axle design capacity 5.8 tonnes
- **FAL6.3** Front axle design capacity 6.3 tonnes
- **RAL10.9** Rear axle design capacity 10.9 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-PAR1** Three leaf parabolic rear suspension with normal stiffness
- **RST-PAR3** Three leaf parabolic rear suspension, stiffer than normal
- **RST-PAR4** Short four leaf parabolic rear suspension with normal stiffness
- **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 80l  
Max volume 215l
- **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

■ 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.

- **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 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
- **JACK-8T** Jack, 8 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
- **AIRIN-FR** Front air intake, chassis mounted on right hand side, ahead of front wheel
- **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** 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

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- PTR-FH1 PTO with connection (DIN 5462 / ISO 7653) for pump (600 Nm)
- PTR-FH2 Rear gearbox mounted Hydrocar S81 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (800 Nm)
- PTR-FH5 Rear gearbox mounted Hydrocar S84 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (430 Nm)
- PTR-PH1 Rear gearbox mounted Hydrocar S88 PTO with flange connection (DIN 90 / ISO 7646) for propeller shaft (450 Nm)
- PTR-PH2 Rear gearbox mounted Hydrocar S81 PTO with connection (DIN 5462 / ISO 7653) for pump (800 Nm)
- PTR-PH4 Rear gearbox mounted Hydrocar S84 PTO with connection (DIN 5462 / ISO 7653) for pump (430 Nm)
- PTR-PH5 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-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)
- BEACONA2 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

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