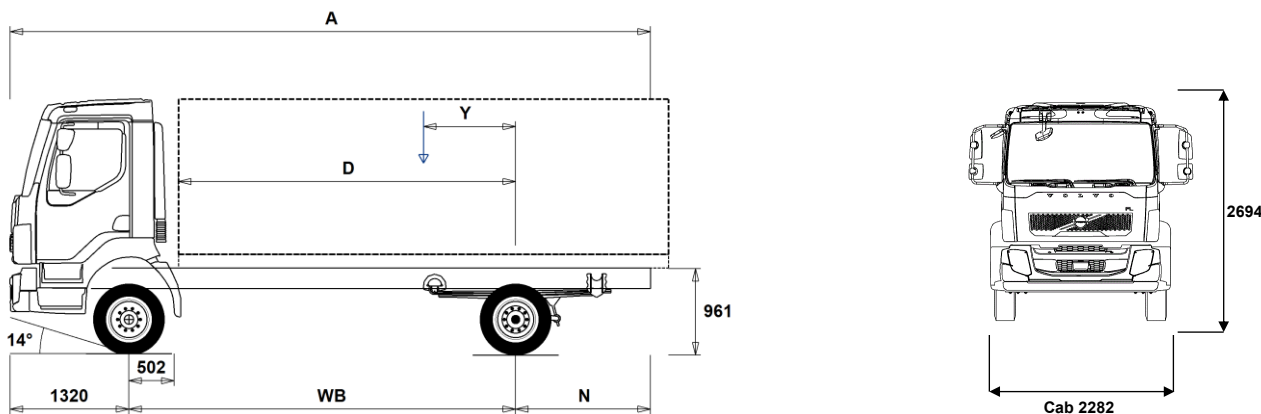


MODEL RANGE

FL510 4x2 Rigid 10 tonne - Steel Suspension FL 42 R 510L



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.)	-230	-244	-278	-299	-322	-350	-380	-406	-432	-472	-498	-531
Y Center of Gravity for Payload (Max.)	622	673	727	788	847	905	962	1021	1080	1132	1194	1246

Chassis Weights [kg]

Front Axle	2830	2825	2840	2840	2840	2845	2855	2855	2855	2870	2870	2880
Rear Axle	1065	1075	1105	1125	1140	1160	1190	1205	1220	1245	1265	1270
Kerb Weight	3895	3900	3945	3965	3980	4005	4045	4060	4075	4115	4135	4150
Payload (including body, driver, fuel, etc.)	6105	6100	6055	6035	6020	5995	5955	5940	5925	5885	5865	5850

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	11600	12300	13200	14100	15000	15900	16800	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]

	Plated	Design
Gross Vehicle Weight	10000	10000
Gross Combination Weight	0	15500
Front Axle	4000	4000
Rear Axle	7600	7600

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.

Weight and dimensions are based upon the following tyres:
 Front Axle Tyres: 235/75R17.5
 Drive Axle Tyres: 235/75R17.5

Chassis weight includes oil, water, AdBlue, 0 litres fuel and without driver. Kerb weight can vary ± 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 FL42R510L.

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TRUCK USE

- **UNIFORM** Transport Adaption - Basic platform vehicle

CORE COMPONENTS

- **CHH-LOW** Chassis height - Low - for loading heights check the unique BEP chassis drawing attached to this quote
- **RAD-L80** Rear suspension - 80mm parabolic rear springs
- **FL-CREW2** Cab - Four door six person crew cab
- **FL-DAY2** Cab - Day, with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations
- **FL-SSLP2** 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
- **D5K210** Engine - D5K210 four-cylinder 5.1 litre developing 210hp at 2200rpm. Peak torque 800Nm at 1100-1700rpm.
- **D5K240** Engine - D5K240 four-cylinder 5.1 litre developing 240hp at 2200rpm. Peak torque 900Nm at 1100-1600rpm.
- **ATO1056** Gearbox - Automated 6-speed I-sync overdrive - if the truck is built from week 47 an 8 speed ZF powerline automatic.
- **ATO8006** Gearbox - Automated 6-speed I-sync overdrive - if the truck is built from week 47 an 8 speed ZF powerline automatic.
- **STO8006** Gearbox - Manual 6-speed overdrive
- **ZTO1006** Gearbox - Manual 6-speed overdrive
- **EBR-EPG** Engine brake type - Exhaust brake controlled by steering column switch
- **RSS0819A** Drive axle - RSS0819A single reduction with differential lock Design GCW 18.75 tonne

Packages

- **DRIVEFL** Cab Package - Drive
- **VISIFL** Visibility package
- **AIRFLOW** Airflow 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 - Parabolic front springs with shock absorbers and anti-roll bar
- **FST-PAR3** Front suspension - Parabolic front springs with shock absorbers and anti-roll bar
- **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 - Without
- **RST-PAR1** Rear suspension - Parabolic springs
- **FST5050** Chassis frame thickness - 5 mm web and flange
- **FST6060** Chassis frame thickness - 6 mm web and flange
- **FST7070** Chassis frame thickness - 7 mm web and flange
- **FST8080** Chassis frame thickness - 8 mm web and flange
- **2BATT170** Battery Capacity - 2 x 170 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
- **R215P** Right fuel tank - 215-litre plastic
Min volume 80l
Max volume 430l
- **UL-FUEL** Left fuel tank - Without

- 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.

- **ADTP-R** Adblue tank position - Chassis mounted on the right-hand side
- **WHC-FIX1** Wheel chock - One fixed design
- **WHC-FIX2** Wheel chocks - Two fixed design
- **TOWMBRH** Tow member - High mounted in centre of frame - Check the GCW in the "Truck Use" section of this specification
- **C-RO40AG** Drawbar coupling - Rockinger 400 G145
- **TOWF-NO1** Front towing device - One pin in bumper
- **TOWF-NO2** Front towing device - Two pins in bumper
- **TOWR-ONE** Rear cross member towing eye - Capacity 3tonne at 20mph
- **TREL15** Trailer electrical connection - Single 15 pin - ADR certified
- **TBC-EC** Trailer brakes with EC palm coupling connectors
- **RUP-FIX2** Rear underrun protection - Fixed EC approved
- **RFEND-T** Rear mud wings - Temporary on drive axle for transport delivery only

WHEELS & TYRES

- **RT-ALDP** Wheels - Howmet Alcoa Dura-Bright aluminium rims - standard holes for long stud fixing
- **RT-STEEL** Wheels - Steel rims
- **SPWT-F** Spare wheel & tyre - Spare with front tyre pattern
- **SWCP-LF** Spare wheel carrier on left side of chassis ahead of rear axle
- **SWCP-R** Spare wheel carrier rear mounted below frame.
- **SWCP-T** Spare wheel supplied temporarily strapped to chassis
- **SWCP-TP** Spare wheel carrier transport mounted on frame (spare wheel carrier not included)
- **JACK-6T**
- **GAUGE-TP** Tyre pressure gauge

DRIVELINE EQUIPMENT

- **CS39A-O** Clutch - Single plate 395mm (16")
- **TC-HWO** Transmission oil cooler - water to oil
- **1COMP500** Air compressor - Single cylinder 360 cc - 500 litres per minute
- **AIRIN-FR** Air intake - Under the front grille - Left-hand drive only
- **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** Air filter - Single element
- **ACL1ST-S** Air filter - two-stage element
- **24AL110B** Alternator capacity - 110 amp
- **24AL130B** Alternator capacity - 130 amp
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- **EST-AID** Engine starting aid -Preheating element in the air inlet manifold
- **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
- **PR-HF4S** Live-drive PTO for Allison gearbox output 400Nm for flange connection mounted on the side of the torque convertor
- **PR-HF4SH** Live-drive high speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PR-HF6S** Live-drive PTO for Allison gearbox output 600Nm for flange connection mounted on the side of the torque convertor
- **PR-HP4S** Live-drive PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PR-HP4SH** Live-drive high speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor

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- **PR-HP6S** Live-drive PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PTR-FH5** Rear PTO Gearbox S88 flange DIN connection
- **PTR-PH4** Rear PTO Gearbox S88 pump DIN connection
- **HPG-F101** Gearbox mounted hydraulic pump - Parker F1-101 hydraulic pump gearbox mounted
- **HPG-F41** Gearbox mounted hydraulic pump - Parker F1-41 gearbox mounted, fixed displacement, single flow
- **HPG-F51** Gearbox mounted hydraulic pump - Parker F1-51 gearbox mounted, fixed displacement, single flow
- **HPG-F61** Gearbox mounted hydraulic pump - Parker F1-61 gearbox mounted, fixed displacement, single flow
- **HPG-F81** Gearbox mounted hydraulic pump - Parker F1-81 gearbox mounted, 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
- **TAS-DIG4** Smart tachograph - Continental VDO 4.1 version 2 - legal demand from 21/08/2023
- **DAS-W2** Driver Alert Support with driver attention monitoring to comply with EU GSR2 step 2 regulations
- **TSRS** Intelligent speed assist & road sign recognition

CAB EXTERIOR

- **SUNV-B** Exterior sun visor - Smoked grey
- **SUNV-PK** Exterior sun visor preparation kit only
- **AD-SIDES** Cab side deflector - Short extension panels
- **BEACON-P** Roof beacons - switch and wiring preparation only
- **BEACONA2** Roof-mounted beacons - Two LED amber beacons mounted direct on roof

SUPERSTRUCTURE PREPARATIONS

- **FBA-BTF** Lower front body attachments - For torsionally flexible - platform body
- **FBA-BTSF** Lower front body attachments - For torsionally semi-flexible body - box or curtainsider
- **RBA-T2** Rear body attachments - Divided
- **TAILPREP** Taillift preparation kit - cab switch and warning in driver display

DELIVERY SERVICES

- **TGW-4G** Telematics gateway - GSM/GPRS/4G modem, WLAN
- **WVTA** Whole Vehicle Type Approved - First stage chassis cab