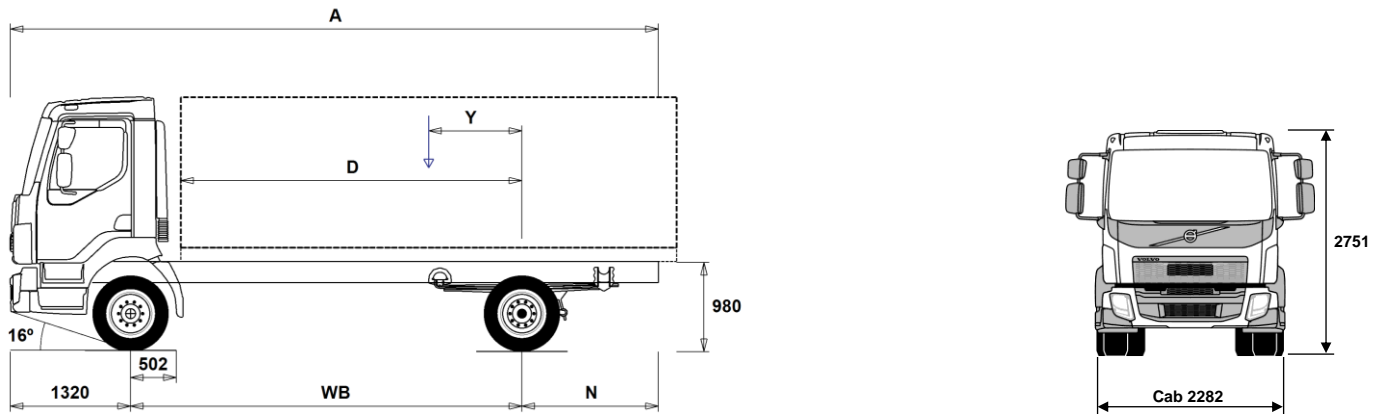


# MODEL RANGE



Volvo Trucks. Driving Progress

FL516 4x2 Rigid 16 tonne - Steel Suspension 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.)	513	557	609	663	717	768	820	873	927	973	1028	1074
Y Center of Gravity for Payload (Max.)	513	557	609	663	717	768	820	873	927	973	1028	1074

## Chassis Weights [kg]

Front Axle	3080	3075	3070	3060	3055	3055	3055	3055	3050	3065	3060	3070
Rear Axle	1265	1305	1340	1370	1400	1430	1465	1495	1515	1550	1580	1590
Kerb Weight	4345	4380	4410	4430	4455	4485	4520	4550	4565	4615	4640	4660
Payload (including body, driver, fuel, etc.)	8855	8820	8790	8770	8745	8715	8680	8650	8635	8585	8560	8540

## 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]

	Plated	Design
Gross Vehicle Weight	13200	16000
Gross Combination Weight	19500	19500
Front Axle	4480	5800
Rear Axle	8720	10900

## 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.

# MODEL RANGE

FL516 4x2 Rigid 16 tonne - Steel Suspension FL 42 R 516L

## TRUCK USE

- **UNIFORM** Basic platform vehicle

## CORE COMPONENTS

- **CHH-HIGH** Chassis height high - N3 "On Road" chassis - For a specific loading height always check the unique BEP chassis drawing
- **CHH-MED** Chassis height medium - For a specific loading height always check the unique BEP chassis drawing
- **RAD-L80** 80mm parabolic rear springs
- **EU6SCR** Emission level - Euro 6
- **D5K210** D5K210 four cylinder 5.1 litre engine developing 210hp at 2200rpm.  
Peak torque 800Nm at 1100-1700rpm.
- **D5K240** D5K240 four cylinder 5.1 litre engine developing 240hp at 2200rpm.  
Peak torque 900Nm at 1100-1600rpm.
- **EBR-EPG** Exhaust brake producing 120kW at 2800rpm controlled by steering column switch
- **ATO1056** 6-speed overdrive "I Sync" automated mechanical gearbox
- **ATO8006** 6-speed overdrive "I Sync" automated mechanical gearbox
- **STO8006** 6 speed overdrive gearbox, 850 Nm
- **ZTO1006** 6-speed overdrive gearbox
- **RSS1125A** RS1125A single reduction rear axle - design GCW 25tonne with differential lock
- **RSS1132A** RS1132A single reduction rear axle - design GCW 32tonne with differential lock

## Packages

- **DRIVEFL** NEW drive package FL
- **VISIFL** NEW visibility package FL
- **AIRFLOW** NEW airflow package
- **AUDIOBAS** AM/FM Radio with Bluetooth and optional DAB signal - without CD player
- **AUDIOPK** Audio preparation

## CHASSIS

- **FST-PAR** Parabolic front springs with shock absorbers and anti roll bar
- **FST-PAR3** Stiff parabolic front springs with shock absorbers and anti roll bar
- **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 anti-roll bar
- **EBS-MED** EBS+ package including traction control & hill hold
- **EBS-STD** EBS standard package without traction control
- **RST-PAR1** Parabolic rear springs
- **RST-PAR3** Stiffer parabolic rear springs
- **RST-PAR4** Assymetric parabolic rear springs - for short rear overhang
- **FST7070** Frame thickness 7mm
- **FST8080** Frame thickness 8mm
- **2BATT170** 2 x 170 Ah capacity batteries on left hand side
- **BAMAFREE** Maintenance free batteries
- **ADR2** ADR package for transportation of dangerous goods on road (Note does NOT include safe loading pass package if required this is quoted seperately)
- **R215P** 215 litre right hand plastic fuel tank  
Min volume 80l  
Max volume 430l
- **UL-FUEL** Without left fuel tank  
Min volume 80l  
Max volume 215l
- **ADTP-L** AdBlue tank on left hand side

- 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 on right hand side
- **WHC-FIX1** One wheel chock
- **WHC-FIX2** Two wheel chocks
- **TOWMBRH** Towing member, high position, mounted in centre of frame
- **C-RO40AG** Rockinger 400 G145
- **TOWF-NO1** One towing device in front.
- **TOWF-NO2** Two towing devices in front.
- **TOWR-ONE** Pintle type towing hitch attached to rear crossmember for 3.5tonne trailer
- **TREL15** Single 15 pole electrical trailer connector - ADR certified
- **TBC-EC**
- **RUP-FIX2** Fixed rear EC approved aluminium underrun
- **RFEND-T** Mudwings on drive axle for transportation only

## WHEELS & TYRES

- **SPWT-F** Spare wheel & tyre 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-10T** 10 tonne bottle jack
- **JACK-8T** 8 tonne bottle jack
- **GAUGE-TP** Tyre pressure gauge

## DRIVELINE EQUIPMENT

- **CS39A-O** Single plate 395mm (16") clutch
- **RET-TPT** Retarder for automatic gearbox
- **TC-HWO** Automatic gearbox oil cooler - water to oil
- **1COMP500** Single cylinder air compressor 360 cc / 500 l/min
- **AIRIN-FR** Front air intake
- **AIRIN-HI** High air intake behind cab on left hand side
- **AIRIN-RL** Chassis mounted mounted behind cab on right hand side
- **ACL1ST** Air cleaner with one filter element
- **ACL1ST-S** Air filter with secondary filter element
- **24AL110B** 110 amp alternator
- **24AL130B** 130 amp alternator
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- **EST-AID** Air inlet manifold starting heater element
- **PTER-100** Rear engine mounted power-take-off with DIN 7476 flange
- **PTER-DIN** Rear engine mounted PTO with DIN5462 (female) splined shaft for a close coupled pump
- **PTER1400** Rear engine mounted power-take-off 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
- **PR-HP6S** Live-drive PTO for Allison gearbox output 600Nm for hydraulic pump connection

# MODEL RANGE

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- PTR-FH1 mounted on the side of the torque convertor
- 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-ZF3 Rear Power Take Off Gearbox pump DIN connection
- PTR-ZF4 Rear PTO Gearbox 320Nm flange connection
- PTR-ZF5 Rear PTO Gearbox 320Nm pump connection
- PTR-ZF6 Rear PTO Gearbox 320Nm flange connection
  
- 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-R RIGHT HAND DRIVE

## CAB EXTERIOR

- SUNV-B Exterior sun visor - smoked grey
- SUNV-PK Sunvisor installation preparation kit
  
- AD-ROOF Fixed cab roof air deflector - not adjustable
  
- AD-SIDES Cab side air deflector, short extension panels.
  
- BEACON-P Beacon preparation
- BEACONA2 Two amber beacons directly mounted to cab 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

- WVTA Whole Vehicle Type Approved - MANDATORY for standard truck

**VOLVO**

Volvo Truck Corporation

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