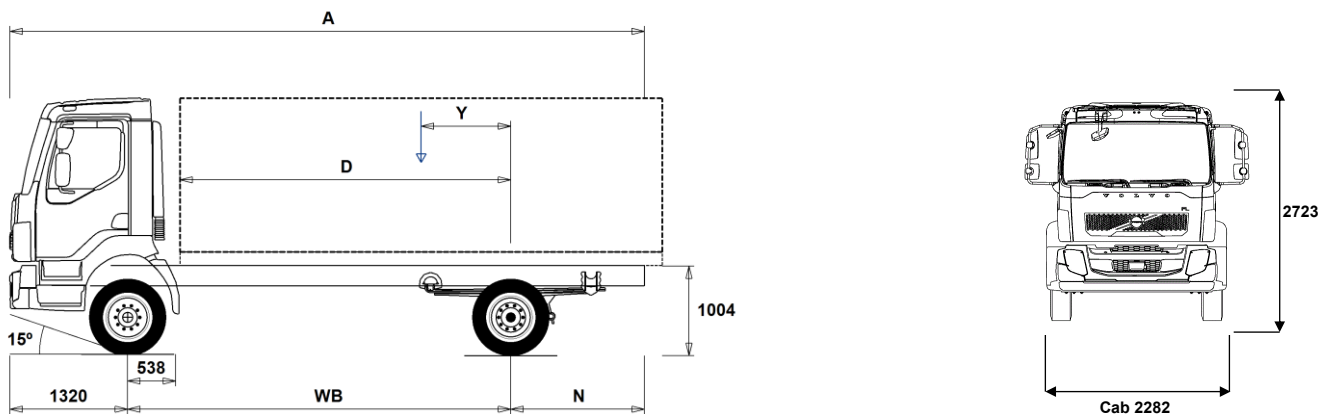


# MODEL RANGE

FL812 4x2 Rigid 12 tonne - Steel Suspension FL 42 R 812L



## 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	2662	2912	3212	3512	3812	4112	4412	4712	5012	5312	5612	5912
N Rear Overhang (Min.)	1515	1685	1615	1515	1615	1615	1615	1615	1615	1615	1615	1615
N Rear Overhang (Max.)	1975	2155	2305	2535	2705	2895	3115	3295	3505	3615	3910	3910
Y Center of Gravity for Payload (Min.)	163	175	189	207	223	236	252	262	276	286	302	304
Y Center of Gravity for Payload (Max.)	589	636	692	750	807	862	919	973	1030	1082	1141	1188

## Chassis Weights [kg]

Front Axle	3120	3120	3125	3120	3120	3125	3125	3130	3135	3140	3140	3155
Rear Axle	1255	1280	1310	1330	1350	1370	1390	1420	1435	1450	1470	1490
Kerb Weight	4375	4400	4435	4450	4470	4495	4515	4550	4570	4590	4610	4645
Payload (including body, driver, fuel, etc.)	7625	7600	7565	7550	7530	7505	7485	7450	7430	7410	7390	7355

## Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	11600	12400	13300	14200	15100	16000	16900	17800	18700	19600	20500	21400
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	12000	12000
Gross Combination Weight	0	15500
Front Axle	4500	4500
Rear Axle	8500	8500

## Important Notes

### Chassis Dimensions

Cab Height: +39 mm for CAB-CRW.  
 Front Axle to Back of Cab: +1258 mm for CAB-CRW, +280 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: 265/70R19.5  
 Drive Axle Tyres: 265/70R19.5

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 FL42R812L.

# MODEL RANGE

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## CORE COMPONENTS

- CHH-HIGH** Chassis height - High - for loading heights check the unique BEP chassis drawing attached to this quote
- CHH-MED** Chassis height - Medium - 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
- **D8K250** Engine - D8K250 six-cylinder 7.7 litre developing 250hp at 2100rpm. Peak torque 950Nm at 900-1700rpm.
- D8K280** Engine - D8K280 six-cylinder 7.7 litre developing 280hp at 2100rpm. Peak torque 1050Nm at 950-1700rpm.
- ATO1056** Gearbox - Automated 6-speed I-sync overdrive - if the truck is built from week 47 an 8 speed ZF powerline automatic.
- **ZTO1006** Gearbox - Manual 6-speed overdrive
- EBR-CEB** Engine brake type - Compression - producing 170kW at 2800rpm
- **EBR-EPG** Engine brake type - Exhaust brake controlled by steering column switch
- **RSS1125A** Drive axle - RS1125A single reduction with differential lock Design GCW 25tonne
- RSS1132A** Drive axle - RS1132A single reduction with differential lock Design GCW 32tonne

## 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
- **FAL4.5** Front axle design capacity - 4.5 tonne
- FAL5.0** Front axle design capacity - 5.0 tonne
- **RAL8.5** Rear axle design capacity - 8.5 tonne
- RAL9.2** Rear axle design capacity - 9.2 tonne
- **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
- RST-PAR3** Rear suspension - Stiffer parabolic rear 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

- 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.

- **R215P** Right fuel tank - 215-litre plastic  
Min volume 80l  
Max volume 430l
- **UL-FUEL** Left fuel tank - Without  
Min volume 80l  
Max volume 215l
- ADTP-L** Adblue tank position - Chassis mounted on the left-hand side
- **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** Light trailer coupling - Pintle type hitch attached to rear cross member for an unbraked trailer
- 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-AL** Wheels - Howmet Alcoa brushed aluminium rims - standard holes for long stud fixing
- 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-10T** 10 tonne bottle jack
- JACK-8T** 8 tonne bottle jack
- GAUGE-TP** Tyre pressure gauge

## DRIVELINE EQUIPMENT

- **CS39A-O** Clutch - Single plate 395mm (16")
- RET-TPT** Retarder for automatic gearbox
- TC-HWO** Transmission oil cooler - water to oil
- **1COMP500** Air compressor - Single cylinder 360 cc - 500 litres per minute
- 2COM1080** Air compressor - Two-cylinder 1080 litres per minute
- **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

# MODEL RANGE

## FL812 4x2 Rigid 12 tonne - Steel Suspension FL 42 R 812L

- **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  
mounted on the side of the torque convertor
- **PTR-FH1** Rear PTO Gearbox S81 flange DIN connection
- **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 - 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
- **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