**Important Notes**

**Chassis Dimensions**
Front Axle to Back of Cab: +375 mm for CAB-SLP, +204 mm for CAB-SSLP.
D-measure includes a front clearance of 74 mm and for rigid trucks also a subframe of 120 mm.
Height can vary ± 2 mm for leaf and ± 1 mm for air suspension. All dimensions are for unladen chassis and any tag axles down.
Chassis height used: CHH-HIGH.

Weight and dimensions are based upon the following tyres:
- Front Axle Tyres: 295/80R22.5
- Drive Axle Tyres: 295/80R22.5

Chassis weight includes oil, water, AdBlue, 70 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 FE42RA.

**Chassis Dimensions [mm]**

<table>
<thead>
<tr>
<th>WB Wheelbase</th>
<th>3500</th>
<th>3700</th>
<th>3900</th>
<th>4100</th>
<th>4300</th>
<th>4500</th>
<th>4750</th>
<th>5000</th>
<th>5250</th>
<th>5500</th>
<th>5800</th>
<th>6100</th>
<th>6450</th>
<th>6800</th>
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<tbody>
<tr>
<td>A Overall Chassis Length</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
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<tr>
<td>D Centre of rear axle to front of body</td>
<td>2861</td>
<td>3061</td>
<td>3261</td>
<td>3461</td>
<td>3661</td>
<td>3861</td>
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<td>4361</td>
<td>4611</td>
<td>4861</td>
<td>5161</td>
<td>5461</td>
<td>5811</td>
<td>6161</td>
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<tr>
<td>N Rear Overhang (Min)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Y Centre of Gravity for Payload (Min)</td>
<td>283</td>
<td>298</td>
<td>313</td>
<td>323</td>
<td>337</td>
<td>351</td>
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<td>393</td>
<td>427</td>
<td>444</td>
<td>485</td>
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<td>Y Centre of Gravity for Payload (Max)</td>
<td>895</td>
<td>946</td>
<td>996</td>
<td>1045</td>
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<td>1463</td>
<td>1536</td>
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<td>1706</td>
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<tr>
<td>W Body Length (Min)</td>
<td>3932</td>
<td>4231</td>
<td>4530</td>
<td>4832</td>
<td>5132</td>
<td>5433</td>
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<tr>
<td>W Body Length (Max)</td>
<td>4961</td>
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<td>5601</td>
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<td>8561</td>
<td>9121</td>
<td>9681</td>
<td>9941</td>
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</tbody>
</table>

**Chassis Weights [kg]**

- Front Axle: 4030, 4035, 4040, 4060, 4065, 4070, 4080, 4090, 4100, 4165, 4135, 4145, 4110, 4170
- Payload (including body, driver, fuel etc): 12005, 11995, 11985, 11930, 11915, 11905, 11890, 11860, 11840, 11650, 11760, 11735, 11845, 11685

**Turning Diameter [mm]**

- Turning Circle Diameter Kerb to Kerb: 12800, 13400, 14100, 14700, 15300, 15900, 16700, 17400, 18200, 19000, 19900, 20800, 21900, 23000
- Turning Circle Diameter Wall to Wall: 14200, 14900, 15500, 16100, 16700, 17300, 18100, 18900, 19600, 20400, 21300, 22300, 23300, 24400

**Plated Weights [kg]**

- Gross Vehicle Weight: 18000
- Gross Combination Weight: 32000
- Front Axle: 7100
- Rear Axle: 13000

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Ref: FE 42 R A  8CE 2015-03-11 ENGVT
Transport operation
- FE-LEC Low entry cab FE
- FECNGEU6
- RC-ROUGH Rough road conditions.
  - Less than 95% of the driven distance on well maintained or less maintained surfaced roads.
  - In total not more than 5% of the driven distance on:
    - Badly maintained surfaced roads.
    - Hard packed sand or gravel surface of very bad quality.
    - Washboards.
    - Soft unpaved surface.
- Off-road
- RC-SMOOT Smooth road conditions.
  - At least 95% of the driven distance on well maintained or less maintained surfaced roads.
  - Badly maintained surfaced roads.
  - Hard packed sand or gravel surface of good or bad quality.

Core components
- RAD-KR Rear air suspension, 1 axle - 1 driven (K-drive)
- EU6SCR Euro 6 emission level with Selective Catalytic Reduction (SCR), particle filter and Exhaust Gas Recirculation (EGR)
- D8K250 Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 250 hp, 950 Nm
- D8K280 Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 280 hp, 1050 Nm
- D8K320 Six cylinder diesel engine, 7.7 litre Euro 6 SCR + EGR (Diesel Particulate Filter), 320 hp, 1200 Nm
- EBR-CEB Engine compression and exhaust brake
- EBR-EPG Engine brake with Exhaust Press Governor, EPG
- AL306 Automatic 6-speed Allison gearbox. Max input torque up to 1695 Nm.
- AT2412E I-shift automated 12-speed gearbox, 2400 Nm
- ZTO1006 Overdrive 6 speed manual 2F gearbox, 1050 Nm
- ZTO1109 Overdrive 9 speed manual 2F gearbox, 1200 Nm
- RSH1370F Rear hub reduction solo axle - axle load 13 tonnes, GCW 70 tonnes
- RSS1344C Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes
- AUDADV Audio advanced (24V/12V converter, radio with CD/MP3 player, cables, integrated blue tooth phone, USB connection, Line input, remote control)
- AUDBS Audio basic (24V/12V converter, radio with CD player, cables)
- AUDMED Audio medium (24V/12V converter, radio with CD/MP3 player, cables)
- AUDMED+ Audio medium plus (24V/12V converter, radio with CD/MP3 player, cables, integrated blue tooth phone)
- AUDPREP Audio preparation (24V/12V converter, radio storage box, cables)

Packages
- DISTRI Distribution cab level package
- DISTRI+ Distribution cab level plus package
- VOCATI Vocational cab level package

Chassis
- FST-AIR Front air suspension
- FST-PAR 2 leaf front parabolic suspension (normal stiffness)
- FAL7.1 Front axle design capacity 7.1 tonnes
- FAL7.5 Front axle design capacity 7.5 tonnes
- FAL8.0 Front axle design capacity 8.0 tonnes
- RAL13 Rear axle design capacity 13 tonnes
- RSTAB 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-AIR Rear air suspension
- RST-AIRS Rear air suspension, short
- ABS Lock free brakes
- SUSPL-E2 Remote control on wander-lead for air suspension levelling with 2 sensors on rear axle
- SUSPL-E4 Integral three dash switches for air suspension levelling control with 2 sensors
- FRAME266 Frame rail section external height 266 mm
- FRAME300 Frame rail section external height 300 mm
- FST7070 Frame section thickness - web 7.0 mm / flange 7.0 mm
- FST8080 Frame section thickness - web 8.0 mm / flange 8.0 mm
- 2BATT140 Batteries 2x140 Ah
- 2BATT170 Batteries 2x170 Ah
- 2BATT22S Batteries 2x225 Ah
- BMAFREE Maintenance free batteries
- ADR2 ADR adaptation, transportation of dangerous goods, 2 switches
- R255AS6 Right 255 litre aluminium 560 mm high D-shaped diesel tank. Usable volume is 97% of stated volume.
  - Min volume 160l
  - Max volume 630l
- UL-FUEL Without left diesel tank
  - Min volume 160l
  - Max volume 315l
- ADTP-L AdBlue tank mounted on left hand side
- ADTP-R AdBlue tank mounted on right hand side
- GHC-FIX1 One fixed wheel chock
- GHC-FIX2 Two fixed wheel choocks
- TB-L33 Toolbox 58 litre on the left hand side - length 330 mm, height 310 mm, depth 660 mm
- TB-L75 Toolbox 106 litre on the left hand side - length 755 mm, height 430 mm, depth 550 mm
- TOWMBRH High mounted towing member, in centre of frame
- RFEC-S Rear frame end, straight cut (for regular platform applications)
- CRI4040 Towing coupling Ringfeder 4040 G 150
- CRI5055 Towing coupling Ringfeder 5055 G 150
- CRI400G0 Towing coupling Rockinger 400 G 150
- CRI40AG Towing coupling Rockinger 400 G 145
- CRI430G0 Towing coupling Rockinger 430 G 150
- CRI43AG Towing coupling Rockinger 430 G 145
- TOW-ONE Rear one towing device in frame end cross member
- TBC-EC Trailer brake connection, European Community
- TRBR-STA Stationary trailer brake control
- RUP-FIX2 Fixed aluminium rear underrun protection (EC approved)
- RFEND-B Rear axle 3 piece fenders with anti-spray function
- RFEND-T Transport mounted one-piece rear fenders
- RFH-103 Rear fender installation with quarter fender height 103 mm from bottom of rail
- RFH-BAS Optional rear fender installation with regard to legal demands, wheel/tyre sizes, chassis height and fifth wheel height.
- RFH-HIG Highest fender installation - suitable for rough road conditions
- RFH-LOW Lower rear fender installation -suitable only for smooth road conditions
- ATANK-AL Aluminium air tank

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.

Ref: FE 42 R A   ICE2015-03-11 ENGv7
FE 42 Rigid rear air

- ATANK-ST Steel air tank
- FRACLLOS Frame end closing

Rims and tyres
- RT-AL Brushed aluminium rims with std holes (long stud fixing) on all axles
- RT-ALDP Dura-Bright aluminium rims with std holes (long stud fixing) on all axles
- RT-ALP Polished aluminium rims with std holes (long stud fixing) on all axles
- RT-STEEL Steel rims on all axles
- SPWTF Spare wheel with tyre equal to front wheel
- SWCP-R Spare wheel carrier mounted behind rear axle and below frame
- SWCP-T Spare wheel carrier transported with the spare wheel on top of the frame rails

Powertrain equipment
- TP-BAS I-shift City gear changing software
- TP-DICON I-shift Distribution and Construction optimized gear changing software
- TP-FUEC I-shift Fuel Economy gear changing software
- CS39A-O Single plate clutch, clutch diameter 359 mm
- CS43B-O Single plate clutch, plate diameter 430 mm
- RET-TPT Retarder for hydraulic gearbox
- TC-HWO Oil cooler for hydraulic transmissions – water/oil
- TC-MW Basic performance oil cooler for mechanical transmissions - water/oil
- 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-S Air cleaner with additional filter element
- CCV-C Closed crankcase ventilation
- CCV-OX Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- AF-E Electrically heated fuel filter
- EST-AID Engine start pre-heating element
- 2200EBO8 Electrical engine block heater, 220V/0.8kW
- PTER-100 Rear engine mounted clutch independent power-take-off with DIN 100 / ISO 7646 flange
- PTER-DIN Rear engine mounted PTO with DIN462 (female) splined shaft for a close coupled pump
- PTER1400 Rear engine mounted power-take-off with SAE 1410/ISO7647 flange
- PR-HP4T Rear gearbox mounted Hydrocar PTO with pump DIN connection mtd on top of torque converter (400 Nm)
- PR-HP4TL Rear gearbox mounted Hydrocar low speed PTO with pump DIN connection mounted on top of the converter (400 Nm)
- PR-HP6TH Rear gearbox mounted Hydrocar high speed PTO with pump DIN connection mounted on top of the converter (600 Nm)
- PR-HP6TL Rear gearbox mounted Hydrocar low speed PTO with pump DIN connection mounted on top of converter (800 Nm)
- PTR-FH1 Rear gearbox mounted Hydrocar S81 PTO with flange DIN connection (800 Nm)
- PTR-FH2 Rear gearbox mounted Hydrocar S84 PTO with flange DIN connection (450 Nm)
- PTR-FH5 Rear gearbox mounted Hydrocar S88 PTO with flange DIN connection (450 Nm)
- PTR-PH1 Rear gearbox mounted Hydrocar S81 PTO with pump DIN connection (800 Nm)
- PTR-PH2 Rear gearbox mounted Hydrocar S84 PTO with pump DIN connection (450 Nm)
- PTR-PH4 Rear gearbox mounted Hydrocar S88 PTO with pump DIN connection (450 Nm)
- PTR-PK Electrical and solenoid prep kit for gearbox PTO
- PTR-ZF2 Rear gearbox mounted ZF PTO with flange DIN connection (410 Nm)
- PTR-ZF3 Rear gearbox mounted ZF PTO with pump DIN connection (410 Nm)
- PTR-ZF4 Rear gearbox mounted ZF PTO with pump DIN connection (320 Nm)
- PTR-ZF5 Rear gearbox mounted ZF PTO with pump DIN connection (320 Nm)
- PTRD-D1D Rear gearbox mounted double PTO with flange (550 Nm) and pump connection (1000 Nm)
- PTRA-PH1 Extra rear gearbox mounted PTO with double SB1 pump connections
- PTRA-PH2 Extra rear gearbox mounted PTO with double SB4 pump connections
- HPF-F101 Hydraulic gearbox mounted pump F1-101, fixed displacement, single flow
- HPF-F41 Hydraulic gearbox mounted pump F1-41, fixed displacement, single flow
- HPF-F51 Hydraulic gearbox mounted pump F1-51, fixed displacement, single flow
- HPF-F61 Hydraulic gearbox mounted pump F1-61, fixed displacement, single flow
- ETC Electronic throttle control - dash mounted switch for PTO speed control
- FLAMEPR Flame protection in the exhaust system

Cab interior
- STWPOS-L Left hand drive
- STWPOS-R Right hand drive
- TAS-DIG Digital tachograph
- IMMOBIL Immobiliser
- WARNLAMP Portable warning lamp (with batteries)
- ALARM-B Burglar alarm - cab
- WARNVEST Warning vest
- AIDKIT First aid kit containing sticking plaster, washing and drying pads, compresses, elastic bandages, respiratory mask, gloves and scissors.
- AIDKTB First aid kit fulfilling German requirements containing instruction, scissors, triangular cotton bandages, gauze bandages, bandaging cloths, gauze dressings, adhesive bandage, protective gloves, adhesive tape, first aid packets, rescue sheet.
- SPDUR-R Dual speed limiter for rear refuse body steps
- SPDUR-S Dual speed limiter for side loader refuse vehicle
- SPDUR-SR Dual speed limiter for side and rear loader refuse vehicle
- CRUISE-E2 Cruise control with eco-roll
- CRUISEC Cruise control with switches in the steering wheel

Cab exterior
- AUXFS Extra foot step on both sides
- CF-AFS Foldable extra front cab foot-step
- RCABS-A Air rear cab suspension
- RCABS-M Mechanical rear cab suspension
- AD-ROOF Fixed roof air deflector
- AD-ROOFFA Adjustable roof air deflector
- AD-SIDES Short cab side air deflectors
- HL-CLEAN High pressure headlamp cleaner
- HL-ADJ Adjustable headlamps
- DRL-LED V-shaped ("V-light") day running light (LED).

- 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).

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Turned on low beam gives a dimmed "V-light".

- **BEACON-P** Roof beacon lights wire preparation (two cable pass throughs)
- **BEACON2** 2 amber beacon, roof mounted rotatating warning lamps
- **HORN-F1S** One front mounted single tone air horn (Jericho)
- **HORN-R2S** Two roof mounted single tone chromed air horns

### Superstructure preparations

- **FBA-BTF** Front body attachments for flexible body
- **FBA-BTS** Front body attachments for stiff body
- **FBA-BTSF** Front body attachments for semi-flexible body
- **RBA-T1** Rear body attachments, plates
- **RBA-T2** Rear body attachments, divided
- **HBA-FSFB** Holes for body attachments, flexible/semi-flexible body
- **HBA-SB** Holes for body attachments, stiff body
- **TAILPREP** Tail lift preparation kit

### Services

- **WVTA** Whole Vehicle Type Approved