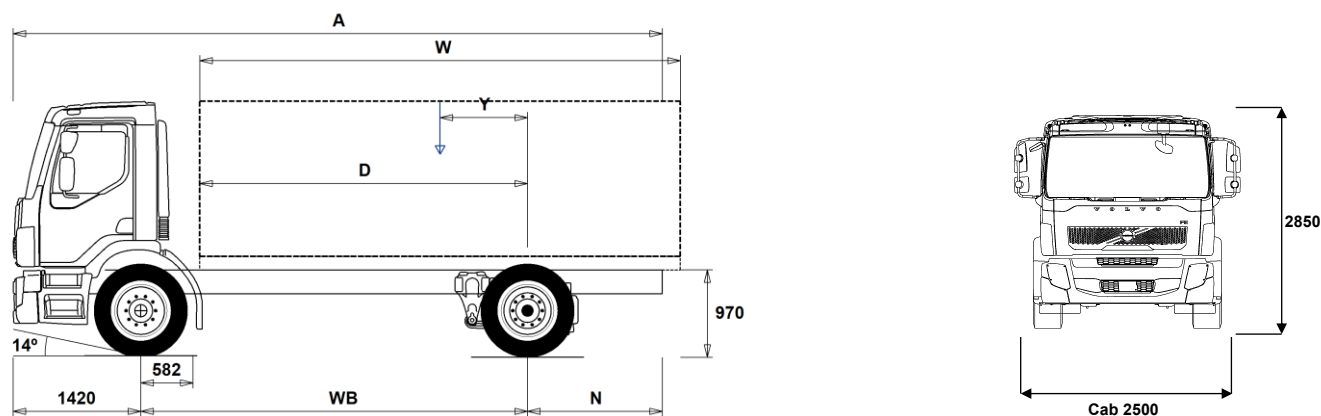


# MODEL RANGE

FE 42 Rigid Rear Air FE 42 R A



## Chassis Dimensions [mm]

| WB Wheelbase                           | 3500 | 3700 | 3900 | 4100 | 4300 | 4500 | 4750 | 5000 | 5250 | 5500 | 5800  | 6100  | 6450  | 6800  |
|----------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| A Overall Chassis Length               | 6610 | 6910 | 7260 | 7560 | 7910 | 8210 | 8610 | 9010 | 9410 | 9810 | 10310 | 10760 | 11310 | 11560 |
| D Center of rear axle to front of body | 2844 | 3044 | 3244 | 3444 | 3644 | 3844 | 4094 | 4344 | 4594 | 4844 | 5144  | 5444  | 5794  | 6144  |
| N Rear Overhang (Min.)                 | 640  | 640  | 640  | 640  | 640  | 640  | 640  | 2590 | 2740 | 2890 | 3090  | 3240  | 3440  | 3340  |
| N Rear Overhang (Max.)                 | 1690 | 1790 | 1940 | 2040 | 2190 | 2290 | 2440 | 2590 | 2740 | 2890 | 3090  | 3240  | 3440  | 3340  |
| Y Center of Gravity for Payload (Min.) | 763  | 808  | 854  | 897  | 943  | 988  | 1044 | 1100 | 1157 | 1213 | 1279  | 1345  | 1424  | 1497  |
| Y Center of Gravity for Payload (Max.) | 763  | 808  | 854  | 897  | 943  | 988  | 1044 | 1100 | 1157 | 1213 | 1279  | 1345  | 1424  | 1497  |
| W Body Length (Min.)                   | 4162 | 4472 | 4780 | 5093 | 5403 | 5712 | 6099 | 6488 | 6875 | 7263 | 7730  | 8199  | 8740  | 9295  |
| W Body Length (Max.)                   | 4162 | 4472 | 4780 | 5093 | 5403 | 5712 | 6099 | 6488 | 6875 | 7263 | 7730  | 8199  | 8740  | 9295  |

## Chassis Weights [kg]

|                                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Front Axle                                   | 3915  | 3910  | 3905  | 3920  | 3920  | 3920  | 3920  | 3925  | 3925  | 3925  | 3940  | 3950  | 3950  | 3965  |
| Rear Axle                                    | 1570  | 1585  | 1610  | 1655  | 1675  | 1690  | 1710  | 1740  | 1760  | 1780  | 1825  | 1860  | 1880  | 1885  |
| Kerb Weight                                  | 5485  | 5495  | 5515  | 5575  | 5595  | 5610  | 5630  | 5665  | 5685  | 5705  | 5765  | 5810  | 5830  | 5850  |
| Payload (including body, driver, fuel, etc.) | 14615 | 14605 | 14585 | 14525 | 14505 | 14490 | 14470 | 14435 | 14415 | 14395 | 14335 | 14290 | 14270 | 14250 |

## 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     | 20100 |
| Gross Combination Weight | 32000 |
| Front Axle               | 7100  |
| Rear Axle                | 13000 |

## Design

## Important Notes

### Chassis Dimensions

Front Axle to Back of Cab: +358 mm for CAB-SLP, +196 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  $\pm 20$  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.

Height change when chassis height CHH-HIGH,FRAME300: +17 mm.

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, 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 FE42RA.

# MODEL RANGE

FE 42 Rigid Rear Air FE 42 R A

## Transport operation

- **TGW-4G**
- **FELECD** Low-entry cab diesel
- **FELECFD** Low-entry cab, flat floor, diesel
- **RC-ROUGH** Rough road conditions: frequent driving on poorly maintained surfaced roads, hard-packed sand or gravel, or other surfaces of good or bad quality.
- **RC-SMOOTH** Smooth road conditions: at least 95% of the driven distance is on well-maintained or less maintained surfaced roads. Driving may occur on poorly maintained surfaced roads, hard-packed sand, or gravel surfaces of good or bad quality.
- **GARB-PRE** Refuse vehicle preparation
- **TIPP-PRE** Tipper vehicle preparation
- **UNIFORM** Basic platform vehicle

## Core components

- **CHH-HIGH** Chassis height high - approx. 1000 mm above ground level
- **CHH-LOW** Chassis height low - approx. 850 mm above ground level
- **CHH-MED** Chassis height medium - approx. 900 mm above ground level
- **RAD-KR** Rear air suspension - one axle, driving
- **FE-DAY2** FE Day cab new
- **FE-SLP2** FE Sleeper cab
- **FE-SSLP2** FE Comfort cab
- **EU6SCR** Euro 6 with SCR, particulate filter and EGR, Turbo-S
- **D8K250** Diesel engine, Euro 6, 7.7 litres, 250 hp/184 kW, 950 Nm
- **D8K280** Diesel engine, Euro 6, 7.7 litres, 280 hp/206 kW, 1050 Nm
- **D8K320** Diesel engine, Euro 6, 7.7 litres, 320 hp/235 kW, 1200 Nm
- **D8K350** Diesel engine, Euro 6, 7.7 litres, 350 hp/258 kW, 1400 Nm
- **EBR-CEB** Engine compression and exhaust brake
- **EBR-EPG** Engine brake with exhaust pressure governor
- **AL306** Automatic 6-speed gearbox, 1695 Nm
- **ZTO1006** Manual 6-speed gearbox, 1050 Nm
- **ZTO1109** Manual 9-speed gearbox, 1200 Nm
- **RSH1370F** Rear hub reduction solo axle - axle load 13 tonnes, GCW 70 tonnes, version F
- **RSS1344C** Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes, version C
- **RSS1344E** Rear single reduction solo axle - axle load 13 tonnes, GCW 44 tonnes, version E

## Packages

- **DRIVEFE** Driver convenience package FE
- **VISIFE** Visibility package FE
- **AIRFLOW** Airflow package with roof and side air deflectors and chassis fairings
- **AUDIODAB** Audio system with DAB radio and DAB amplifier
- **AUDIOPD** Preparation kit for DAB radio, including DAB amplifier

## Chassis

- **FST-AIR** Front air suspension
- **FST-PAR** Two-leaf front parabolic springs (normal stiffness)
- **FAL7.1** Front axle load 7.1 tonnes
- **FAL7.5** Front axle load 7.5 tonnes
- **FAL8.0** Front axle load 8.0 tonnes
- **FAL9.0** Front axle load 9.0 tonnes
- **RAL13** Rear axle load 13 tonnes
- **RSTAB1** Rear anti-roll bar, normal stiffness
- **EBS-MED** EBS (Electronic Braking System), Medium package
- **EBS-STD** EBS (Electronic Braking System), Standard package
- **RST-AIR** Rear air springs
- **RST-AIR5** Rear air suspension, short
- **ABS**

- **SUSPL-E2** Remote control with wander lead for air suspension levelling, 2 sensors on rear axle
- **SUSPL-E4** Three dashboard switches for air suspension levelling, 2 sensors on rear axle
- **FRAME266** Frame rail section external height 266 mm
- **FRAME300** Frame rail section external height 300 mm
- **FST7070** Frame thickness - web 7.0 mm / flange 7.0 mm
- **FST8080** Frame thickness - web 8.0 mm / flange 8.0 mm
- **2BATT170** Batteries, 2x170 Ah
- **2BATT225** Batteries, 2x225 Ah
- **ADR2** ADR adaptation, 1 switch in dashboard, 1 outside on back of cab
- **R255A56** Right 255-litre, D-shaped aluminium fuel tank, 560 mm high  
Min volume 160l  
Max volume 630l
- **UL-FUEL** Without left side fuel tank  
Min volume 160l  
Max volume 315l
- **ADTP-L** AdBlue tank on left hand side
- **ADTP-R** AdBlue tank on right hand side
- **WHC-FIX1** One non-collapsible wheel chock
- **WHC-FIX2** Two non-collapsible wheel chocks
- **TB-L33** Tool box on left-hand side, 58-litre - width 330 mm, height 310 mm, depth 660 mm
- **TB-L75** Tool box on left-hand side, 106-litre - width 755 mm, height 430 mm, depth 550 mm
- **TOWMBRH** Towing member, high-mounted in centre of frame
- **RFEC-S** Straight-cut rear frame end
- **C-RI4040** Coupling Ringfeder 4040A G-150
- **C-RI5055** Coupling Ringfeder 5055A G-150
- **C-RO400G** Coupling Rockinger 400 G-150
- **C-RO430G** Towing coupling Rockinger 430 G-150
- **C-RO50** Coupling Rockinger 50 mm
- **TOWR-ONE** Rear towing device in frame-end cross member
- **TBC-EC** Trailer brake connection, European Community
- **TRBR-STA** Stationary trailer brake check
- **RUP-FIX2**
- **RFEND-B** Rear 3-piece mudguards (anti-spray) on all rear axles
- **RFEND-T** Transport mudguard
- **RFH-BAS** Basic mudguard installation height
- **RFH-HIG** High mudguard installation height
- **RFH-LOW** Low mudguard installation height
- **ATANK-AL** Aluminium air tanks
- **ATANK-ST** Steel air tanks
- **FRACLOS** Frame end closing

## Rims and tyres

- **RT-AL** Brushed aluminium rims with standard holes (long stud fixing) on all axles
- **RT-ALDP** Dura-Bright® polished aluminium rims with standard holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare front wheel
- **SWCP-R** Spare wheel carrier mounted behind rear axle
- **SWCP-T** Spare wheel transport-mounted on top of frame
- **SWCP-TP** Spare wheel and carrier transport-mounted on top of frame

## Powertrain equipment

- **TP-BAS**
- **TP-DICON**
- **TP-FUEC** Gear-changing software for regional haul

■ Standard Equipment      □ Optional Equipment

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

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# MODEL RANGE

## FE 42 Rigid Rear Air FE 42 R A

|                                                     |                                                                                                      |                                                     |                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> <b>APF-ENH</b>             | I-Shift with enhanced PTO functions (Auto neutral for p. brake/Reverse inhibit/Split box connection) | <input type="checkbox"/> <b>ETC</b>                 | PTO speed control 900-1500 rpm with dash-mounted switch                                                                                                                                                                                            |
| <input type="checkbox"/> <b>APF-ENH2</b>            | I-Shift with enhanced PTO functions (Auto neutral for service brake/Split box connection)            | <b>Cab interior</b>                                 |                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> <b>CS39A-O</b>  | Single-plate clutch, plate diameter 395 mm                                                           | <input checked="" type="checkbox"/> <b>STWPOS-L</b> | Left-hand drive                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> <b>CS43B-O</b>  | Single-plate clutch, plate diameter 430 mm                                                           | <input type="checkbox"/> <b>TAS-DIG</b>             | One-day digital tachograph, EC approved (annex 1B regulation)                                                                                                                                                                                      |
| <input type="checkbox"/> <b>RET-TPT</b>             | Gearbox-mounted Powertronic primary retarder                                                         | <input checked="" type="checkbox"/> <b>TAS-DIG4</b> | Gen 4 one-day digital tachograph, EC approved (GNSS & DSRC, EU 2020/1054)                                                                                                                                                                          |
| <input type="checkbox"/> <b>TC-HWO</b>              | Oil cooler for hydraulic transmissions – water/oil                                                   | <input type="checkbox"/> <b>IMMOBIL</b>             | Immobiliser                                                                                                                                                                                                                                        |
| <input type="checkbox"/> <b>TC-MWO</b>              | Basic performance cooler for manual/I-Shift gearboxes - water/oil                                    | <input type="checkbox"/> <b>WARNLAMP</b>            | Portable amber and white warning lamp with batteries                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> <b>AIRIN-HI</b> | High air inlet                                                                                       | <input type="checkbox"/> <b>TSRS2</b>               | Road sign recognition (not ISA compliant)                                                                                                                                                                                                          |
| <input type="checkbox"/> <b>AIRIN-RL</b>            | Low air inlet, chassis mounted behind cab on left-hand side                                          | <input type="checkbox"/> <b>WARNVEST</b>            | Reflective vest, fulfils European standard EN 471 class 2                                                                                                                                                                                          |
| <input type="checkbox"/> <b>ACL1ST-S</b>            | Air cleaner with extra filter element                                                                | <input type="checkbox"/> <b>AIDKIT</b>              | First aid kit containing sticking plaster, washing and drying pads, compresses, elastic bandages, respiratory mask, gloves and scissors.                                                                                                           |
| <input type="checkbox"/> <b>CCV-C</b>               | Closed crankcase ventilation                                                                         | <input type="checkbox"/> <b>AIDKIT1B</b>            | 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. |
| <input checked="" type="checkbox"/> <b>CCV-OX</b>   | Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge           | <input type="checkbox"/> <b>SPDU-R</b>              | Dual speed limiter for refuse truck, rear loader                                                                                                                                                                                                   |
| <input type="checkbox"/> <b>AF-E</b>                | Electrically heated fuel filter                                                                      | <input type="checkbox"/> <b>SPDU-S</b>              | Dual speed limiter for refuse truck, side loader                                                                                                                                                                                                   |
| <input type="checkbox"/> <b>EST-AID</b>             | Engine intake air heater                                                                             | <input type="checkbox"/> <b>SPDU-SR</b>             | Dual speed limiter for refuse truck, side and rear loader                                                                                                                                                                                          |
| <input type="checkbox"/> <b>220EBH08</b>            | Engine block heater, 220 V, 0.8 kW                                                                   | <input type="checkbox"/> <b>CRUIS-E2</b>            | Cruise control with I-Roll                                                                                                                                                                                                                         |
| <input type="checkbox"/> <b>PTER-100</b>            | Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646                             | <input type="checkbox"/> <b>CRUISEC</b>             |                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> <b>PTER-DIN</b>            | Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653        | <b>Cab exterior</b>                                 |                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> <b>PTER1400</b>            | Rear engine, clutch-independent PTO, flange connection, SAE 1410/ISO 7647                            | <input type="checkbox"/> <b>AUXFS</b>               | Extra footstep in cab side                                                                                                                                                                                                                         |
| <input type="checkbox"/> <b>PR-HP4T</b>             | Rear gearbox (top of converter) PTO with connection DIN 5462/ISO 7653 for pump, 400 Nm               | <input type="checkbox"/> <b>CF-AFS</b>              | Retractable extra footstep in cab front bumper                                                                                                                                                                                                     |
| <input type="checkbox"/> <b>PR-HP4TL</b>            | Rear gearbox (top of converter) low-speed PTO with connection DIN 5462/ISO 7653 for pump, 400 Nm     | <input type="checkbox"/> <b>RCABS-A</b>             | Air rear cab suspension                                                                                                                                                                                                                            |
| <input type="checkbox"/> <b>PR-HP6TH</b>            | Rear gearbox (top of converter) high-speed PTO with connection DIN 5462/ISO 7653 for pump, 600 Nm    | <input checked="" type="checkbox"/> <b>RCABS-M</b>  | Mechanical rear cab suspension                                                                                                                                                                                                                     |
| <input type="checkbox"/> <b>PR-HP6TL</b>            | Rear gearbox (top of converter) low-speed PTO, connection DIN 5462/ISO 7653 for pump, 600 Nm         | <input type="checkbox"/> <b>AD-ROOFA</b>            | Adjustable roof air deflector                                                                                                                                                                                                                      |
| <input type="checkbox"/> <b>PTR-FH1</b>             | Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft 800 Nm                         | <input type="checkbox"/> <b>AD-SIDES</b>            | Cab side air deflectors, short                                                                                                                                                                                                                     |
| <input type="checkbox"/> <b>PTR-FH2</b>             | Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 430 Nm                        | <input type="checkbox"/> <b>HL-CLEAN</b>            | High-pressure headlamp cleaner                                                                                                                                                                                                                     |
| <input type="checkbox"/> <b>PTR-FH5</b>             | Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 450 Nm                        | <input type="checkbox"/> <b>HL-ADJ</b>              | Manually adjustable headlamp beam                                                                                                                                                                                                                  |
| <input type="checkbox"/> <b>PTR-PH1</b>             | Rear gearbox PTO Hydrocar S81, connection DIN 5462/ISO 7653 for pump, 800 Nm                         | <input type="checkbox"/> <b>DRL-LED</b>             | Daytime running lamps (LED)                                                                                                                                                                                                                        |
| <input type="checkbox"/> <b>PTR-PH2</b>             | Rear gearbox PTO Hydrocar S84, connection DIN 5462/ISO 765 for pump, 430 Nm                          | <input type="checkbox"/> <b>BEACON-P</b>            | Preparation kit for roof beacons                                                                                                                                                                                                                   |
| <input type="checkbox"/> <b>PTR-PH4</b>             | Rear gearbox PTO Hydrocar S88, connection DIN 5462/ISO 7653 for pump, 450 Nm                         | <input type="checkbox"/> <b>BEACONA2</b>            | Two amber LED beacons on cab front roof                                                                                                                                                                                                            |
| <input type="checkbox"/> <b>PTR-PK</b>              | Preparation kit for rear gearbox PTO                                                                 | <input checked="" type="checkbox"/> <b>HORN-F1S</b> | Single-tone Jericho horn behind grille, operated by steering wheel buttons                                                                                                                                                                         |
| <input type="checkbox"/> <b>PTR-ZF2</b>             | Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 410 Nm                        | <input type="checkbox"/> <b>HORN-R2S</b>            | Two chromed single-tone air horns on the roof, operated by steering wheel buttons                                                                                                                                                                  |
| <input type="checkbox"/> <b>PTR-ZF4</b>             | Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 320 Nm                        | <b>Superstructure preparations</b>                  |                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> <b>PTR-ZF5</b>             | Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 320 Nm                                   | <input type="checkbox"/> <b>FBA-BTF</b>             | Front body attachment brackets, lower, for flexible body                                                                                                                                                                                           |
| <input type="checkbox"/> <b>PTRD-D1D</b>            | Rear gearbox dual PTO flange/propshaft DIN120/ISO7646, 550 Nm, pump DIN5462/ISO7647, 1000 Nm         | <input type="checkbox"/> <b>FBA-BTS</b>             | Pre-punched front body attachment holes for torsionally stiff body, e.g. tanker                                                                                                                                                                    |
| <input type="checkbox"/> <b>PTRA-PH1</b>            | Extra rear gearbox PTO with dual S81 connections DIN 5462/ISO 7653 for pump                          | <input type="checkbox"/> <b>FBA-BTSF</b>            | Front body attachment brackets, lower, for semi-flexible body                                                                                                                                                                                      |
| <input type="checkbox"/> <b>PTRA-PH2</b>            | Extra rear gearbox PTO with dual S84 connections DIN 5462/ISO 7653 for pump                          | <input type="checkbox"/> <b>RBA-T1</b>              | Rear body attachment plates                                                                                                                                                                                                                        |
| <input type="checkbox"/> <b>HPG-F101</b>            | Gearbox-mounted hydraulic pump F1-101, fixed displacement, single flow                               | <input type="checkbox"/> <b>RBA-T2</b>              | Rear body attachment brackets, lower                                                                                                                                                                                                               |
| <input type="checkbox"/> <b>HPG-F41</b>             | Gearbox-mounted hydraulic pump F1-41, fixed displacement, single flow                                | <input type="checkbox"/> <b>HBA-FSFB</b>            | Holes for body attachments, flexible/semi-flexible body                                                                                                                                                                                            |
| <input type="checkbox"/> <b>HPG-F51</b>             | Gearbox-mounted hydraulic pump F1-51, fixed displacement, single flow                                | <input type="checkbox"/> <b>HBA-SB</b>              | Holes for body attachments, stiff body                                                                                                                                                                                                             |
| <input type="checkbox"/> <b>HPG-F61</b>             | Gearbox-mounted hydraulic pump F1-61, fixed displacement, single flow                                | <input type="checkbox"/> <b>TAILPREP</b>            | Tail lift preparation kit                                                                                                                                                                                                                          |
| <input type="checkbox"/> <b>HPG-F81</b>             | Gearbox-mounted hydraulic pump F1-81, fixed displacement, single flow                                | <b>Services</b>                                     |                                                                                                                                                                                                                                                    |
|                                                     |                                                                                                      | <input checked="" type="checkbox"/> <b>WVTA</b>     | Whole Vehicle Type Approved                                                                                                                                                                                                                        |

☒ Standard Equipment

☐ Optional Equipment

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# MODEL RANGE

FE 42 Rigid Rear Air FE 42 R A

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**Volvo Trucks. Driving Progress**