

V O L V O

VOLVO FH16

New FH16 540/600/700

6x4 Tractor



VOLVO FH16 540

TECHNICAL SPECIFICATION

Wheelbase	3600 mm
Front Axle Capacity	9000 kg
Rear Axles Capacity	32000 kg
Gross Vehicle Weight	41000 kg
Gross Combination Weight *)	220000 kg
*) GCW is depending on site / road condition.	

ENGINE

VOLVO D16E-540 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR)

BIODIESEL B30 CERTIFIED

Max Output	540 hp (397 kW) @ 1450 – 1800 rpm
Max Torque	2600 Nm @ 1000-1450 rpm
Number of Cylinders	6
Displacement	16.1 dm3
Cylinder bore x stroke	144 x 165 mm
Compression ratio	17.3 : 1
Economy rev. band	1000 – 1500 rpm
Volvo Engine Brake+ (EBR-VEB+) with maximum 425 kW Braking Power @2200 rpm.	

TRANSMISSION

VOLVO ATO3112 with ASO-ULC

12 Speed electronically controlled splitter and range change gearbox with automated Gear Changing system with Overdrive and Ultra Low Crawler (ASO-ULC and ARSO-MSR), fitted with a Power Take Off and Oil Cooler as standard.
Special heavy duty package (TRAP-HD) concern to reinforce Split Synchronizer, Main Gear Dog Clutches and Counter shaft brake.

Maximum Torque :	3150 Nm
Top Gear	Overdrive
Number of forward gears	12
Number of reverse gears	4
Crawler Forward Ratio	32.04 / 19.38 : 1
Forward ratio range	11.73-0.78 : 1
Crawler Reverse Ratio	37.49 / 13.73 : 1
Reverse ratio range	10.78 – 2.48 :1

REAR AXLE & SUSPENSION

RTH3312

Tandem Axle with Hub Reduction, consist of two spiral bevel single units. Differential lock inter axles and inter wheels as standard.
Final reduction ratio

.....	7.21 : 1
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FIFTH WHEEL

JOST JSK 38C – 3½” Single Oscillating Heavy Duty Mounted on High Z Profile

VOLVO FH16 600

TECHNICAL SPECIFICATION

Wheelbase	3600 mm
Front Axle Capacity	9000 kg / 10000 kg
Rear Axles Capacity	32000 kg / 38000 kg
Gross Vehicle Weight	41000 kg / 48000 kg
Gross Combination Weight *)	285000 kg
*) GCW is depending on site / road condition.	

ENGINE

VOLVO D16E-600 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR)

BIODIESEL B30 CERTIFIED.

Max Output	600 hp (441 kW) @ 1500 – 1900 rpm
Max Torque	2800 Nm @ 1000-1500 rpm
Number of Cylinders	6
Displacement	16.1 dm3
Cylinder bore x stroke	144 x 165 mm
Compression ratio	16.8 : 1
Economy rev. band	1000 – 1500 rpm
Volvo Engine Brake+ (EBR-VEB+) with maximum 425 kW Braking Power @ 2200 rpm.	

TRANSMISSION

VOLVO ATO3512 with ASO-ULC

12 Speed electronically controlled splitter and range change gearbox with automated Gear Changing system with Overdrive and Ultra Low Crawler (ASO-ULC and ARSO-MSR), fitted with a Power Take Off and Oil Cooler as standard.
Special heavy duty package (TRAP-HD) concern to reinforce Split Synchronizer, Main Gear Dog Clutches and Counter shaft brake.

Maximum Torque :	3550 Nm
Top Gear	Overdrive
Number of forward gears	12
Number of reverse gears	4
Crawler Forward Ratio	32.04 / 19.38 : 1
Forward ratio range	11.73-0.78 : 1
Crawler Reverse Ratio	37.49 / 13.73 : 1
Reverse ratio range	10.78 – 2.48 :1

REAR AXLE & SUSPENSION

RTH3815

Tandem Axle with Hub Reduction, consist of two spiral bevel single units. Differential lock inter axles and inter wheels as standard.
Final reduction ratio

.....	7.22 : 1
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FIFTH WHEEL

JOST JSK 50 - 3½” Single Oscillating Heavy Duty Mounted on High Z Profile and Reinforced Heavy Duty Sub frame.

VOLVO FH16 700

TECHNICAL SPECIFICATION

Wheelbase	3600 mm
Front Axle Capacity	10000 kg
Rear Axles Capacity	38000 kg
Gross Vehicle Weight	48000 kg
Gross Combination Weight *)	325000 kg
*) GCW is depending on site / road condition.	

ENGINE

VOLVO D16E-700 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR)

BIODIESEL B30 CERTIFIED.

Max Output	700 hp (515 kW) @ 1550 – 1800 rpm
Max Torque	3150 Nm @ 1000-1500 rpm
Number of Cylinders	6
Displacement	16.1 dm3
Cylinder bore x stroke	144 x 165 mm
Compression ratio	16.8 : 1
Economy rev. band	1000 – 1500 rpm
Volvo Engine Brake+ (EBR-VEB+) with maximum 425 kW Braking Power @2200 rpm.	

TRANSMISSION

VOLVO ATO3512 with ASO-ULC

12 Speed electronically controlled splitter and range change gearbox with automated Gear Changing system with Overdrive and Ultra Low Crawler (ASO-ULC and ARSO-MSR), fitted with a Power Take Off and Oil Cooler as standard.
Special heavy duty package (TRAP-HD) concern to reinforce Split Synchronizer, Main Gear Dog Clutches and Counter shaft brake.

Maximum Torque :	3550 Nm
Top Gear	Overdrive
Number of forward gears	12
Number of reverse gears	4
Crawler Forward Ratio	32.04 / 19.38 : 1
Forward ratio range	11.73-0.78 : 1
Crawler Reverse Ratio	37.49 / 13.73 : 1
Reverse ratio range	10.78 – 2.48 :1

REAR AXLE & SUSPENSION

RTH3815

Tandem Axle with Hub Reduction, consist of two spiral bevel single units. Differential lock inter axles and inter wheels as standard.
Final reduction ratio

.....	7.22 : 1
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FIFTH WHEEL

JOST JSK 52 - 3½” Single Oscillating Heavy Duty Mounted on High Z Profile and Reinforced Ultra Heavy Duty Sub frame.

CAB

Sleeper Cab with Bunk Bed inside

Air Conditioning

Red Safety Belts

Roof Evacuation Hatch

CLUTCH

Single, push-type clutch with large dry friction disc which offer good durability

Disc diameter 430 mm. Pneumatic operated electronically controlled.

POWER TAKE-OFF

Gearbox Driven Power Take-off & Hydraulic Pump Fix Displacement (Standard)

Engine Driven Power Take-Off (Optional)

FRONT SUSPENSION

Type of Suspension Parabolic Springs

Number of springs 4

2 shock absorbers and front stabilizer.

REAR SUSPENSION

Type of Suspension Reinforced T- Ride Boogie

Number of springs & type 9 - multi leaf

2 shock absorbers and rear stabilizer.

BRAKE SYSTEM

VOLVO BRAKE-ZV (Drum Brake Z-Cam)

Dual Circuit Full Air Brake System with Automatic Adjustment and Asbestos free liners.

Auxiliary Parking Brake fitted as standard.

Parking Brake Manually Operated Parking Brake with Electric Button.

Trailer Brake Trailer Brake Connection with Long Coiled Trailer Brake,

Full Pressure Hand Controlled Trailer Brake

Extra 30 litre Air Tank fitted as standard to support Trailer Brake system.

ABS (Antilock Braking System) and EBS (Electronic Braking System) fitted as standard.

FUEL TANK

Right hand fitted Aluminium Fuel Tank with capacity 610 liters.

Left hand fitted Ad-Blue Tank capacity 48 liters.

FRAME

Constant frame width of 850 mm behind the cab made of high tensile steel section height of 300 mm flange width 90 mm. Web and flange thickness are 8 mm. Inner liner thickness 5 mm installed as standard.

All members are cold riveted.

TYRE OPTIONS

325/95R24 or 12.00R24 Tube tire

Wheels : 8.5"x 24"

Spare wheel same type as front wheel.

STANDARD ACCESSORIES

Exterior :

Air Drier

Backup Alarm

Cyclonic air filtration

Electrical Cab Tilt Pump

Exterior Smoke Coloured Front Sun Visor

Fifth Wheel Lamp

Front Close View Mirror

One Front Towing Devices

Rear Deck Platform

Steel Headlamp Protection

Steel Front Bumper

Two LED Beacon Lamp

Two Roof Mounted Single Tone Chrome Air Horn

Trailer Brake and Electrical Connection

Vertical pipe muffler outlet

V-Shape day Running Light

White Front Fog Lamps

Interior :

Adjustable steering wheel

Audio System

Basic Cruise Control

Driver seat with regular air suspension and arm rest

Electrical manually controlled air conditioning

Electrical window lift

Fire Extinguisher 3 kg

Mechanically adjustable steering wheel

Manual door locking

Medium level instrument cluster

12" High Resolution Colour Multi Information Display Instrument Cluster

Passenger seat

RED Safety belt

Rubber floor mats

Standard toolkit with 20T Hydraulic Jack

Tachograph

Telematic Gateway with 4G Modem and WLAN

*) accessories shown in the picture in this brochure may not be a part of standard equipment.

VOLVO reserves the right to modify design and equipment for improvement without prior notification.



Head Office

Kanto A. Mega Glodok Kemayoran

Jl. Angkasa Kav-B6 Kota Baru Bandar Kemayoran, Jakarta 10610

☎ (+62 21) 8591 8444 / 2937 1389 ✉ jkt-adm@ekadharma.co.id

Regional Service Center

Jl. Pendekat Pulau Balang KM 13 RT. 47 Karang Joang

Balikpapan Utara, Balikpapan, Kalimantan Timur 76127

☎ (+62 542) 765 555 ✉ bpp-gen@ekadharma.co.id