

**VOLVO CONSTRUCTION EQUIPMENT**  
**WHEEL LOADERS**



**MORE CARE. BUILT IN.**



# A POWERFUL PARTNER

When it comes to wheel loaders, only one thing really matters – moving material as quickly and cost-effectively as possible.

## High performers from Volvo

Volvo's F-series wheel loaders combine optimal production with cost-effectiveness. Volvo's low emission, high-performance engines give high power and torque even at low rpm for quick response and low fuel consumption, meaning more tons per every unit of fuel. The Volvo countershaft transmission with Automatic Power Shift (APS) allows the operator to choose between gearshifting different shifting modes for optimal performance. F-Series loaders are equipped with the visibility enhanced and patented Torque Parallel Linkage TP linkage\*\* for high breakout torque and optimized parallel action throughout the entire lifting range.

## Intelligent and durable loaders

F-Series wheel loaders feature a powerful and intelligent load-sensing hydraulic system, which provides the power by delivering the exact amount of hydraulic oil flow when and where it is needed. Volvo's transmission offers the smoothest shifting possible, and the APS always selects the correct gear according to both ground speed and engine rpm. Axles on the Volvo F-Series wheel loaders are integrated into the drivetrain to provide rimpull for optimum power. Volvo components and systems are all designed to work together in an intelligent way, year after year.

## A perfect workplace

Volvo wheel loaders feature the Care Cab, a comfortable and safe environment for the operator. A very efficient cab filtration and

ventilation system provides a comfortable cab all year round. Large windows, narrow pillars and a sloped engine hood design give optimized all-round visibility. Improved noise insulation makes our cabs one off the quietest on the market. Simply put, a perfect workplace.

## Keeping track of your total economy

The Contronic system monitors the wheel loader's functions in real-time and helps you add more productive time to your working day by minimizing the need for unplanned service. The operator can check service needs from the cab, service technicians can find problems faster, and can also optimize the wheel loader to new operating conditions, or remote-monitor the machine with the new optional equipment Telematic CareTrack.

## Volvo genuine attachments - for a perfect match

A hydraulic attachment bracket, together with Volvo's extensive attachment range, increases versatility and flexibility. Volvo wheel loaders are renowned for their high quality and Volvo's genuine attachments offer exactly the same high quality.

## Volvo cares

Caring for the environment has always been one of Volvo's core values, and our wheel loaders are naturally designed for minimal impact on the environment. A lot of work has gone into reducing exhaust emissions and noise even further. All wheel loaders come with an environmental declaration and are more than 95% recyclable.



# THE MACHINES YOU CAN ALWAYS TRUST

## World-class, Volvo Care Cab

- Larger, more spacious cab interior with large storage compartments
- Care Cab features the market's best cab filtration system
- Front pillar-mounted switches
- Fully adjustable steering wheel, operator's seat, armrest\*, lever carrier, and steering column
- Improved allround visibility includes wide, laminated front windshield and floor-to-ceiling glass
- Viscous damping helps to eliminate unwanted noise and vibrations

## Access and Serviceability

- Easily accessed hatches and service points
- Centralized, ground level lubrication banks and grouped pressure check connections
- Lubricated-for-life rear axle bearings
- Slip protected service platforms, handrails, wide and angled cab ladders provide safety
- Long lubrication intervals allow more time for productive work

## Volvo Lift Arm System

- Volvo TP-Linkage\*\* - unique patented lift arm system
- Provides superior force throughout the lift cycle
- Optimized attachment visibility and great rollback angles
- Dual pin seals prevent contamination of pins

## Volvo Genuine Attachments

- Volvo's comprehensive attachment range makes it possible to tailor the wheel loader exactly for the applications and conditions on your work site

## Volvo Load-Sensing Hydraulics

- Load-sensing hydraulic system provides exact flow and pressure – when and where it's needed
- 3rd\* and 4th\* hydraulic functions for hydraulic attachments

## Commitment to Volvo's Core Values: Quality, Safety, and Care for the Environment

- Roll Over Protection System (ROPS) provides safe operation
- Non-return valves prevent leakage of both hydraulic and fuel tanks in case of roll-over
- High-quality breather filters on all major components
- Optional biodegradable hydraulic oil allows environment-friendly operation
- All Volvo wheel loaders are more than 95% recyclable
- All electrical wiring is routed through high-quality conduits with sealed connectors



### **Volvo Contronic Monitoring System**

- Network monitors operation and performance in real-time
- The Contronic system warns the operator in time, making it easier for the service technician to troubleshoot, and helps the machine owner tailor the wheel loader to the application
- Fast and easy electronic level checks of oils and fluids
- Display shows continuous operating data, warning texts, and error messages
- Monitors fuel consumption, cycle times, and service intervals
- Available in 24 languages

### **Volvo Designed and Manufactured Engine**

- Turbocharged Volvo V-ACT, Tier 3/Stage IIIA-approved engines provides tremendous power and impressive low-end torque
- Combines outstanding fuel economy, high reliability, and durability with low levels of noise and exhaust emissions
- Engine control with overspeed protection for optimal performance in all operating conditions
- Hydrostatically driven, electronically controlled fan works only when needed, which saves fuel

### **Volvo HTE Heavy-Duty Transmission**

- Automatic Power Shift (APS) with automatic mode selector
- The transmission automatically downshifts to first gear when needed
- Smooth shifts and high comfort with Pulse Width Modulation (PWM) gear selector valve

### **Volvo AWB Heavy-Duty Axles**

- Dual circuit service brakes and automatic parking brake application
- Outboard-mounted wet disc brakes and planetary hub reductions
- Differential lock with 100% locking on the front axle\*\*
- Optional axle oil cooling provides maximized cooling capacity\*
- Simple checking of brake discs with brake wear indicator on all wheels

### **Volvo frames**

- High-quality steel provides stress resistance and operational stability
- Low vibrations and incredibly quiet sound levels
- Well organized articulation joint provides very easy access for inspection and maintenance
- Upper and lower joints designed for the highest stress ensure long life and reliability

\* Optional equipment

\*\* Volvo Z-bar linkage on L350F



# TECHNICAL DATA



## Specifications

		<b>L60F</b>
Engine		Volvo D6E LC E3
Max power at	r/s (rpm)	28,3 (1700)
SAE J1995 gross	kW (m hp)	115 (154)
ISO 9249, SAEJ1349 net	kW (m hp)	114 (153)
Breakout force	kN*	82,9
Static tipping load at full turn	kg*	7380
Buckets	m <sup>3</sup>	1,6-5,0
Log grapples	m <sup>2</sup>	0,7-1,3
Operating weight	t	11,0-12,3
Tires		17.5 R25, 20.5 R25 / 600/65 R25

\*Bucket: 2,1 m<sup>3</sup> straight with bolt-on edges.  
Tires: 20.5 R25 L2. Standard boom

		<b>L70F</b>
Engine		Volvo D6E LB E3
Max power at	r/s (rpm)	28,3 (1700)
SAE J1995 gross	kW (m hp)	126 (171)
ISO 9249, SAEJ1349 net	kW (m hp)	125 (170)
Breakout force	kN*	95,4
Static tipping load at full turn	kg*	8420
Buckets	m <sup>3</sup>	2,0-6,4
Log grapples	m <sup>2</sup>	0,9-1,5
Operating weight	t	12,7-15,0
Tires		20.5 R25, 600/65 R25

\* Bucket 2,3 m<sup>3</sup> straight with bolt-on edges.  
Tires: 20.5 R25 L2. Standard boom

		<b>L90F</b>
Engine		Volvo D6E LA E3
Max power at	r/s (rpm)	28,3 (1700)
SAE J1995 gross	kW (m hp)	129 (175)
ISO 9249, SAEJ1349 net	kW (m hp)	128 (174)
Breakout force	kN*	118,5
Static tipping load at full turn	kg*	9570
Buckets	m <sup>3</sup>	2,1-7,0
Log grapples	m <sup>2</sup>	1,3-2,4
Operating weight	t	15,0-17,0
Tires		20.5 R25, 650/65 R25

\* Bucket 2,5 m<sup>3</sup> straight with bolt-on edges.  
Tires: 20.5 R25 L2. Standard boom



## Specifications

		<b>L110F</b>
Engine		Volvo D7E LB E3
Max power at	r/s (rpm)	28,3 (1700)
SAE J1995 gross	kW (m hp)	170 (231)
ISO 9249, SAEJ1349 net	kW (m hp)	169 (230)
Breakout force	kN*	156,7
Static tipping load at full turn	kg*	11 270
Buckets	m <sup>3</sup>	2,7-9,5
Log grapples	m <sup>2</sup>	1,1-2,4
Operating weight	t	18,0-20,0
Tires		23.5 R25, 750/65 R25

\*Bucket: 3,1 m<sup>3</sup> straight with bolt-on edges.  
Tires: 23.5 R25 L3. Standard boom

		<b>L120F</b>
Engine		Volvo D7E LA E3
Max power at	r/s (rpm)	28,3 (1700)
SAE J1995 gross	kW (m hp)	180 (245)
ISO 9249, SAEJ1349 net	kW (m hp)	179 (243)
Breakout force	kN*	164
Static tipping load at full turn	kg*	12 140
Buckets	m <sup>3</sup>	2,6-9,5
Log grapples	m <sup>2</sup>	1,1-2,4
Operating weight	t	19,0-21,0
Tires		23.5 R25, 750/65 R25

\* Bucket 3,4 m<sup>3</sup> straight with bolt-on edges.  
Tires: 23.5 R25 L3. Standard boom

		<b>L150F</b>
Engine		Volvo D12D LB E3
Max power at	r/s (rpm)	23,3-28,3 (1400-1700)
SAE J1995 gross	kW (m hp)	210 (282)
ISO 9249, SAEJ1349 net	kW (m hp)	209 (280)
Breakout force	kN*	184,7
Static tipping load at full turn	kg*	15 280
Buckets	m <sup>3</sup>	3,1-12,0
Log grapples	m <sup>2</sup>	1,6-3,1
Operating weight	t	23,0-26,0
Tires		26.5 R25, 775/65 R29

\* Bucket 4,0 m<sup>3</sup> straight with bolt-on edges.  
Tires: 26.5 R25 L3. Standard boom

		<b>L180F High-lift</b>
Engine		Volvo D12D LA E3
Max power at	r/s (rpm)	23,3-26,7 (1400-1600)
SAE J1995 gross	kW (m hp)	235 (320)
ISO 9249, SAEJ1349 net	kW (m hp)	234 (318)
Breakout force	kN*	-
Static tipping load at full turn	kg*	-
Buckets	m <sup>3</sup>	-
Log grapples	m <sup>2</sup>	2,3-3,8
Operating weight	t	33,0-36,0
Tires		775/65 R29



## Specifications

		<b>L180F</b>
Engine		Volvo D12D LA E3
Max power at	r/s (rpm)	23,3-26,7 (1400-1600)
SAE J1995 gross	kW (m hp)	235 (320)
ISO 9249, SAEJ1349 net	kW (m hp)	234 (318)
Breakout force	kN*	214,7
Static tipping load at full turn	kg*	18 260
Buckets	m <sup>3</sup>	3,7-14,0
Log grapples	m <sup>2</sup>	1,6-3,5
Operating weight	t	26,0-29,0
Tires		26.5 R25, 775/65 R29

\* Bucket 4,6 m<sup>3</sup> straight with bolt-on edges.  
Tires: 26.5 R25 L3. Standard boom

		<b>L220F</b>
Engine		Volvo D12D LB E3
Max power at	r/s (rpm)	26,7 (1600)
SAE J1995 gross	kW (m hp)	261 (355)
ISO 9249, SAEJ1349 net	kW (m hp)	259 (352)
Breakout force	kN*	224,5
Static tipping load at full turn	kg*	20 750
Buckets	m <sup>3</sup>	4,5-14,0
Log grapples	m <sup>2</sup>	1,7-4,0
Operating weight	t	31,0-33,0
Tires		29.5 R25, 875/65 R29

\* Bucket 5,4 m<sup>3</sup> straight with bolt-on edges.  
Tires: 29.5 R25 L4. Standard boom

		<b>L350F</b>
Engine		Volvo D16E LA E3
Max power at	r/s (rpm)	28,3-30,0 (1700-1800)
SAE J1995 gross	kW (m hp)	397 (540)
ISO 9249, SAEJ1349 net	kW (m hp)	394 (536)
Breakout force	kN*	472,8
Static tipping load at full turn	kg*	34 290
Buckets	m <sup>3</sup>	6,2-12,7
Log grapples	m <sup>2</sup>	5,5-6,3
Operating weight	t	50,0-56,0
Tires		35/65 R33, 875/65 R33

\* Bucket 6,9 m<sup>3</sup> straight with teeth and segments. Tires: 875/65 R33. Standard boom



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**



*Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.*

# **VOLVO**

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[www.volvo.com](http://www.volvo.com)

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