

L60H, L70H, L90H, L110H, L120H, L150H, L180H, L200H High Lift, L220H, L350H

# WHEEL LOADERS IN LOG HANDLING

Volvo Construction Equipment



## Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

### Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



#### Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

#### Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

#### There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.



## **BUILDING TOMORROW**



## The perfect package

### Built for the job

Specialized tasks require specialized equipment, which is why Volvo offers wheel loaders configured to meet the unique requirements of a wide range of applications. Our application specific wheel loaders are designed and built to ensure you achieve superior results according to the unique demands of the segment you are working in. The right machine options, tires and attachments all combine to ensure our specially adapted wheel loaders deliver maximum safety and performance. As with all Volvo products you can trust in the full support and back-up of your Volvo dealer, and aftermarket Volvo solutions, for the lifetime of your machine.



## King of the timber yard

### Introducing Volvo log loaders

Drawing on more than six decades of experience in building machines and attachments for the forestry industry, we present our line-up of Volvo Wheel Loaders, tailor made to cope with the intense demands of logging applications. With the log handling package the proven Volvo Wheel Loaders are configured to boost the capacity for lifting and carrying heavy timber loads, and provide the durability needed to take on tough working environments and round-the-clock shifts.

## Rise to the challenge

Make easy work of daily challenges such as working in confined spaces, reaching high log stacks and tackling adverse terrain, thanks to the purposemade Volvo log loader. Adapted to thrive in forestry environments, these machines deliver the performance and reliability needed to get the job done.

#### Ultimate performance

Volvo log loaders are built to perform. The even weight distribution, logging counterweight and low ground pressure from wide low profile tires provide outstanding stability, traction and tipping load. This is supported by the Torque Parallel linkage system (L60H-L220H), first introduced to the market by Volvo, which secures parallel movement and optimizes lifting, breakout and roll-out forces in top position, helping to stack heavy loads at high heights. On the L350H, the Z-bar lifting arm enables to efficiently handle loads weighing up to 23 tonnes (50,706 lb).



#### Agile and efficient

Shorten cycle times with the Volvo log loader. Highly maneuverable, the wheeled machine features a short overhang, making it the perfect machine to quickly and easily negotiate timber yards and confined areas. Faster operation and improved fuel efficiency are enhanced even further with technologies such as OptiShift and lock-up transmission.



#### **Operator's choice**

Designed to keep operators comfortable, Volvo log loaders provide excellent visibility, with optional light packages also available for low light working conditions. The Boom Suspensions System reduces bouncing when travelling at high speed and the high-quality hydraulic system gives operators the control and responsiveness needed to perform at their best.

#### Mix and match

Whether you need to work with a log grapple or bucket, you can change between attachments on-the-go in seconds with the Volvo Attachment bracket.





#### Simple servicing

Benefit from industry-renowned levels of Volvo uptime with quick and easy servicing, including electronically operated engine hood, slidable cooling installation and auto-lubrication system. For quick and easy access to essential maintenance points, the Volvo cab can be tilted to either a  $30^{\circ}$  or  $70^{\circ}$  angle.

Some features are not available on all models.





## Load Assist suite of apps, accessed from the in-cab Volvo Co-Pilot display

- On-Board Weighing
- Operator Coaching
- Tire Pressure Monitoring System



## L60H to L220H

Windshield guard

**Torque Parallel linkage** 

0.).

Boom Suspension System

Volvo Attachment bracket

Third hydraulic function

OptiShift (L110H-L220H)

Low profile 65 series tires (option)

Roll Over Protection System (ROPS)

Electronically operated engine hood

Tiltable cab (L150H-L220H)



## L350H

**Comfort Drive Control** 

Roll Over Protection System (ROPS)

Log handler lift cylinders

Z-bar linkage

Up to 23 tonne (50,706 lb) workload

OptiShift

Boom Suspension System

Third hydraulic function

Heavy-duty rims and 65 series tires



Remote-control door opener

T

Surrounding walkways

Powerful D16 engine, with optional auto shut down

Radiator grill guard

Heavy-duty logging counterweight

Front and rear belly guards



# Optimize performance

Only by using Volvo Attachments can you be sure of optimum performance from your Volvo Wheel Loader in terms of fuel efficiency, lifting force and break-out forces. We offer a full attachment range engineered to deliver outstanding durability in logging applications.

More information can be found in the Attachments brochure, or in the Attachments selector tool, available for IOS on App store, for Android on Play Store and China Android Store.



# Configured for success

Benefit from all the features and functions found on a standard Volvo Wheel Loader, combined with the specialist equipment needed to succeed in logging. In addition to the log handling package, there are a number of other options we can offer to help you succeed in this application.

• Included in the Log handling package

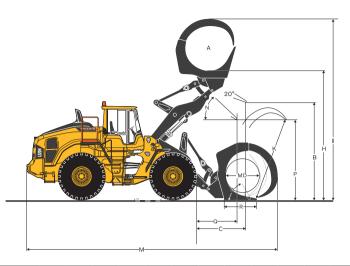
•\* Included in standard machine configuration

o Optional equipment

				VOL		G LOAD	ERS			
	L60H	L70H	L90H	L110H	L120H	L150H	L180H	L200H High Lift		L350H
Attachment bracket	•	•	•	•	•	•	•		•	•
Boom Suspension System (BSS)	•	•	•	•	•	•	•	•*	•	•
Logging counterweight	•	•	•	•	•	•	•	•*	•	•
Log handler lift cylinders										•
Third hydraulic function	•	•	•	•	•	•	•		•	•
Fourth hydraulic function	0	0	0	0	0	0	0		0	0
Comfort Drive Control (CDC)	0	0	0	0	0	0	0	0	0	•*
Log pusher							0	0	0	
Rear-view camera	0	0	0	0	0	0	0	0	0	0
Front-view camera	0	0	0	0	0	0	0	0	0	0
Radar detect system	0	0	0	0	0	0	0	0	0	0
Factory fit Fire supression system	•	•	•	•	•	•	•	0	•	0
Lube system	0	0	0	0	0	0	0	•*	0	0
Reversible fan	0	0	0	0	0	0	0		0	0
Reversible cooling fan and axle oil cooler		0	0	0	0	0	0	0	0	
Front belly guard	•	•	•	•	•	•	•	0	•	0
Rear belly guard	•	•	•	•	•	•	•	0	•	0
Headlight guards	0	0	0	0	0	0	0	0	0	0
Radiator grille guard	•	•	•	•	•	•	•	0	•	•
Tail light guards	0	0	0	0	0	0	0	0	0	0
Windshield guards	•	•	•	•	•	•	•	•*	•	0
Side and rear window guards	0	0	0	0	0	0	0	0	0	0
LED work lights packages Contact your Volvo dealer for more information	0	0	0	0	0	0	0	0	0	0
Engine air pre-cleaner, cyclone type	0	0	0	0	0	0	0	0	0	0
Engine air pre-cleaner, turbo II type	0	0	0	0	0	0	0	0	0	0
OptiShift				0	0	•*	•*	•*	•*	•*
Lock-up	0	0	0							•*
Liquid in rear tires								•*		
Liquid in front tires								O For 775/ 65R29 tires only		

Depending on the country, some optional equipment listed above may be included in the standard machine configuration.

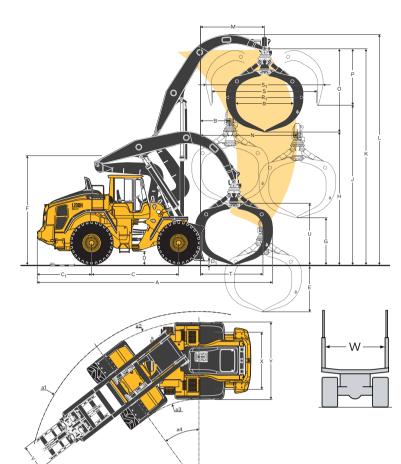
# **Specifications**



Model				L60	DH*	L70	)H*	L90	DH*	L11	0H*	L12	0H*	L15	0H*	L18	0H*	L22	0H*	L35	0H*
Low	profile tires				600/65R25				650/65R25		750/65R25			775/65R29				875/65R29		875/65R33	
Atta	chment							A	ttachr	ment E	Bracke	et + So	rting (	Grappl	e				Pin Gra	On pple	
А		m²	in <sup>2</sup>	1.3	2,015	1.5	2,325	1.8	2,790	2.4	3,720	2.4	3,720	3.1	4,805	3.7	5,735	4	6,200	5.95	9,223
В		mm	ft in	3,380	11'1"	3,350	10'12"	3,510	11'6"	3,470	11'5"	3,550	11'8"	3,660	12'0"	3,760	12'4"	3,930	12'11"	3,950	13'0"
С		mm	ft in	1,510	4'11"	1,620	5'4"	1,540	5'1"	1,850	6'1"	1,890	6'2"	2,110	6'11"	2,260	7'5"	2,260	7'5"	3,090	10'2"
Н		mm	ft in	4,300	14'1"	4,350	14'3"	4,590	15'1"	4,580	15'0"	4,660	15'3"	4,990	16'4"	5,170	17'0"	5,360	17'7"	5,510	18'1"
1		mm	ft in	5,850	19'2"	6,000	19'8"	6,380	20'11"	6,620	21'9"	6,690	21'11"	7,270	23'10"	7,670	25'2"	7,740	25'5"	8,630	28'4"
К		mm	ft in	2,080	6'10"	2,370	7'9"	2,630	8'8"	2,990	9'10"	2,990	9'10"	3,340	10'11"	3,650	12'0"	3,940	12'11"	4,420	14'6"
Μ		mm	ft in	7,890	25'11"	8,020	26'4"	8,240	27'0"	8,840	29'0"	8,930	29'4"	9,670	31'9"	10,020	32'10"	10,380	34'1"	12,300	40'4"
MD		mm	ft in	1,000	3'3"	1,050	3'5"	1,060	3'6"	1,200	3'11"	1,200	3'11"	1,350	4'5"	1,470	4'10"	1,480	4'10"	2,390	7'10"
Ν			D	61		61		60		66		65		58		56		54		34	
0			D	9	97	84		81		76		78		70		70		68		43	
Ρ		mm	ft in	2,680	8'10"	2,610	8'7"	2,710	8'11"	2,500	8'2"	2,580	8'6"	2,700	8'10"	2,750	9'0"	2,960	9'9"	3,420	11'3"
Q		mm	ft in	920	3'0"	980	3'3"	870	2'10"	980	3'3"	1,020	3'4"	1,320	4'4"	1,460	4'9"	1,510	4'11"	2,740	9'0"
R		mm	ft in	870	2'10"	910	2'12"	1,020	3'4"	1,180	3'10"	1,180	3'10"	1,350	4'5"	1,470	4'10"	1,480	4'10"	2,280	7'6"
	Grapple width	mm	ft in	1,600	5'3"	1,600	5'3"	1,630	5'4"	1,630	5'4"	1,630	5'4"	1,800	5'11"	1,830	6'0"	1,830	6'0"	2,750	9'0"
	Static tipping load, straight	kg	lb	5,890	12,985	6,510	14,352	8,060	17,769	9,210	20,305	10,060	22,178	12,420	27,381	14,250	31,416	15,100	33,290	33,400	73,634
	at 35° Turn	kg	lb	5,210	11,486	5,760	12,699	7,080	15,609	8,110	17,879	8,850	19,511	11,030	24,317	12,560	27,690	13,300	29,321	29,400	64,816
	at full turn	kg	lb	5,010	11,045	5,540	12,214	6,790	14,969	7,790	17,174	8,500	18,739	10,870	23,964	12,370	27,271	13,090	28,858	28,940	63,802
	Operating weight	kg	lb	12,390	27,315	14,180	31,262	16,520	36,420	20,000	44,092	20,740	45,724	26,520	58,467	29,760	65,609	33,300	73,414	59,220	130,558

\* Measured with additional logging counterweight

				L6	он	L7	он	L9	он	L11	юн	L12	он	L15	бон	L18	юн	L22	20Н	L350H	
Tire	S	1				20.5R25			23.5R25				26.5R25				29.5R25		875/65R33		
В		mm	ft in	31	0'1"	31	0'1"	5	0'0"	16	0'1"	6	0'0"	-10	-2'0"	10	0'0"	-23	-1'11"	-	-
С		mm	ft in	-29	-1'11"	-29	-1'11"	5	0'0"	-10	-1'12"	-10	-2'0"	9	0'0"	-15	-1'11"	23	0'1"	-	-
н		mm	ft in	31	0'1"	31	0'1"	4	0'0"	16	0'1"	6	0'0"	-10	-2'0"	10	0'0"	-23	-1'11"	-	-
T		mm	ft in	31	0'1"	31	0'1"	4	0'0"	16	0'1"	6	0'0"	-10	-2'0"	10	0'0"	-23	-1'11"	-	-
Р		mm	ft in	31	0'1"	31	0'1"	4	0'0"	16	0'1"	6	0'0"	-10	-2'0"	10	0'0"	-23	-1'11"	-	-
Q		mm	ft in	-29	-1'11"	-29	-1'11"	5	0'0"	-10	-1'12"	-10	-2'0"	9	0'0"	-15	-1'11"	23	0'1"	-	-
	Static tipping load, straight	kg	lb	5	11.0	-1	-2.2	-248	-546.7	-222	-489.4	-264	-582	-330	-728	-404	-891	-433	-955	-	-
	at 35° Turn	kg	lb	8	17.6	З	6.6	-221	-487.2	-194	-427.7	-244	-538	-301	-664	-378	-833	-400	-882	-	-
	at full turn	kg	lb	9	19.8	4	8.8	-213	-469.6	-186	-410.1	-239	-527	-298	-657	-375	-827	-396	-873	-	-
	Operating weight	kg	lb	-24	-52.9	-24	-52.9	-560	-1,235	-568	-1,252	-568	-1,252	-676	-1,490	-772	-1,702	-944	-2081	-	-



ire	s: 875/65 R29*				
Rot	ating grapple, 360°, 4.3 m²	(46.3	8 ft²),	545785	40
В		mm	ft in	1,210	3'12"
С		mm	ft in	3,550	11'8"
C <sub>1</sub>		mm	ft in	2,230	7'4"
D	Ground clearance	mm	ft in	540	1'9"
D1	Ground clearance with log pusher	mm	ft in	250	0'10'
F	Min machine height with grapple tilted forward	mm	ft in	4,790	15'9"
Κ		mm	ft in	9,070	29'9'
L		mm	ft in	9,630	31'7"
Μ		mm	ft in	2,610	8'7"
Ν		mm	ft in	3,970	13'0'
Т		mm	ft in	2,540	8'4"
U		mm	ft in	2,500	8'2"
Х		mm	ft in	2,400	7'10"
Υ		mm	ft in	3,260	10'8"
a1		mm	ft in	7,390	24'3'
a2		mm	ft in	6,980	22'11
a <sub>3</sub>		mm	ft in	3,680	12'1"
a4		0	٥	± 37	± 37
Lo	g pusher length**	mm	ft in	200	0'8"

\* The 775/65 R29 tires affect the dimensions B, E, M, N, T by +70 mm (+0'3") and heights G, H, J, K, L by -70 mm (-0'3"). \*\* The log pusher affects the length A by +200 mm (+0'8") and the lengths B, M, N by -200 mm (-0'8"). Note: When unloading a vehicle, the log grapple's width (R) should be the same or less compared to the distance between the "stakes" (W) on the vehicle.

										Heart shaped											
Tires: 875/65 R29								)											Ø		
Order no.			5501	9257	5501	9260	5501	9263	5501	9272	5501	9148	5501	9230	5501	9243	5457	8540	55019237		
Clamping					,	Ch	ain							Ar	ms				Arms		
Grapple area	m²	ft²	3.4	36.6	3.7	39.8	4	43.1	4.3	46.3	3.4	36.6	3.7	39.8	4	43.1	4.3	46.3	3.7 39.8		
A	mm	ft in	9,620	31'7"	9,680	31'9"	9,740	31'11"	9,770	32'1"	9,620	31'7"	9,680	31'9"	9,740	31'11"	9,770	32'1"	9,680	31'9"	
E	mm	ft in	1,560	5'1"	1,680	5'6"	1,800	5'11"	1,920	6'4"	1,560	5'1"	1,680	5'6"	1,800	5'11"	1,920	6'4"	1,860	6'1"	
G	mm	ft in	2,250	7'5"	2,130	6'12"	2,010	6'7"	1,890	6'2"	2,250	7'5"	2,130	6'12"	2,010	6'7"	1,890	6'2"	1,950	6'5"	
Н	mm	ft in	5,980	19'7"	5,860	19'3"	5,740	18'10"	5,620	18'5"	5,980	19'7"	5,860	19'3"	5,740	18'10"	5,620	18'5"	5,680	18'8"	
J	mm	ft in	6,890	22'7"	6,830	22'5"	6,770	22'3"	6,710	22'0"	6,890	22'7"	6,830	22'5"	6,770	22'3"	6,710	22'0"	6,740	22'1"	
0	mm	ft in	3,090	10'2"	3,210	10'6"	3,330	10'11"	3,450	11'4"	3,090	10'2"	3,210	10'6"	3,330	10'11"	3,450	11'4"	3,390	11'1"	
Р	mm	ft in	2,180	7'2"	2,240	7'4"	2,300	7'7"	2,360	7'9"	2,180	7'2"	2,240	7'4"	2,300	7'7"	2,360	7'9"	2,330	7'8"	
R	mm	ft in	2,400	7'10"	2,400	7'10"	2,400	7'10"	2,400	7'10"	2,400	7'10"	2,400	7'10"	2,400	7'10"	2,400	7'10"	2,400	7'10"	
R <sub>1</sub>	mm	ft in	3,070	10'1"	3,130	10'3"	3,190	10'6"	3,220	10'7"	3,070	10'1"	3,130	10'3"	3,190	10'6"	3,220	10'7"	3,130	10'3"	
S	mm	ft in	3,730	12'3"	3,950	12'12"	4,160	13'8"	4,370	14'4"	3,730	12'3"	3,950	12'12"	4,160	13'8"	4,370	14'4"	4,210	13'10"	
S <sub>1</sub>	mm	ft in	4,300	14'1"	4,500	14'9"	4,700	15'5"	4,900	16'1"	4,300	14'1"	4,500	14'9"	4,700	15'5"	4,900	16'1"	4,410	14'6"	
V	mm	ft in	1,100	3'7"	1,100	3'7"	1,100	3'7"	1,100	3'7"	1,100	3'7"	1,100	3'7"	1,100	3'7"	1,100	3'7"	900	2'11"	
Grapple weight	kg	lb	2,520	5,560	2,580	5,690	2,650	5,840	2,750	6,060	2,870	6,330	2,950	6,500	3,060	6,750	3,140	6,920	2,880	6,350	
Max working load*	kg	lb	11,150	24,580	11,090	24,450	11,030	24,320	10,920	24,070	10,800	23,810	10,730	23,660	10,620	23,410	10,540	23,240	10,790	23,790	
Operating weight**	kg	lb	36,300	80,030	36,360	80,160	36,420	80,290	36,520	80,510	36,650	80,800	36,720	80,950	36,830	81,200	36,910	81,370	36,650	80,800	
Timber			3	<	3	<	3	<	1	x		x		x	3	<		x			
Shortwood (pulpwood)																				х	
Unloading against wall	_																			х	
Tire availability				775 8	& 875			8	75			775 8	& 875			8	75		77	5 & 875	

\* Fully articulated, with tire deflection, boom retracted by ~750 mm (2'6") with 875 tires and by ~850 mm (2'9") with 775 tires./\*\* Including liquid in rear tires. / Note: Log pusher increases operating weight by 970 kg (2,140 lb). Radiator grille guard (WL86023) increases operating weight by 130 kg (290 lb) and increases the working load by 100 kg (220 lb). Fire suppression system increases operating weight by 85 kg (190 lb).

## More than machines

Engineering machines which deliver outstanding results is just the start of how we can support your operation. As your partner we are here to help with every aspect of your Volvo machinery: how you use it, maintain it, pay for it and even how you sell it. Our portfolio of services is designed to complement your machine's performance and boost your profitability.

#### Volvo Simulators

With Volvo Simulators, wheel loader operators can develop their skills without creating risk to site personnel or machinery. Operators can practice specific scenarios related to forestry applications, such as loading and unloading lumber trucks using log grapples, resulting in a safer and more productive workplace when operators get back into real-world conditions.

#### Maintenance and repair agreements

Stay on track with planned servicing and keep your asset covered with our range of flexible maintenance and repair options.

#### ActiveCare Direct

Maximize machine uptime and reduce repair costs with ActiveCare. Utilizing CareTrack data, the intelligent service provides round the clock machine monitoring, as well as customer reports – to help take predictive and preventative maintenance actions.

#### 24h parts delivery guarantee

Maintain productivity and machine uptime with our range of readily available parts, all backed by Volvo warranty – with 24-hour parts delivery guarantee. Only by using Genuine Volvo Parts, can you protect your investment, extend machine life and guarantee long lasting performance.



# Keep it in the family

In addition to wheel loaders, Volvo is proud to provide an extensive portfolio of solutions to the forestry industry. Throughout our machinery line-up we are committed to producing machines which deliver outstanding results in log handling applications.



### **V O L V O**