

Volvo Rigid Haulers 55.0 t 771 hp

R60



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.







Productivity Services



Safety Services



Financial Services



Uptime Services



Rental Services







BUILDING TOMORROW

Driving profits forward

Boost your profits in the Volvo R60 rigid hauler, the perfect partner for all mining and quarrying applications. The efficient, hardworking and hard-wearing machine is packed with technology found on its 100t counterpart which has been proven on jobsites throughout the world.

Balance and stability

Conquer challenging conditions with the optimally balanced R60. Offering a low center of gravity and even weight distribution the machine provides rock-solid stability, spreading the load impacts and structural stresses equally across the truck. The outcome is superb machine and tire longevity leading to significantly reduced operating costs.



Go the distance

Keep working without interruption in the heavy-duty R60, with 500hr service intervals helping to optimize uptime and reduce maintenance costs.



Long life components

The reliable R60 has been rigorously tested under extreme working conditions to meet the highest industry standards of component lifecycles. This includes a proven frame design and two retardation systems as standard which safeguard the primary brake life.





BIG ON EFFICIENCY

Move more using less fuel in the R60 rigid hauler. With Volvo Dynamic Shift Control the gear selection automatically adapts to varying conditions, and with Eco mode the hauler will default to the most efficient gear shifting schedule. Auto engine idle shut down eliminates unnecessary fuel consumption and engine wear.

Move more, earn more

Take productivity to the next level in the Volvo R60 rigid hauler. From the outstanding body and drivetrain engineering through to ancillary equipment and complementary services, this is a machine designed to get the absolute most out of every working day.

Fast cycle times

Effortlessly take on steep gradients thanks to the drivetrain with high torque capabilities and high drive axle multiplication, delivering impressive tractive force and high levels of rimpull. A fast body tipping system further contributes to short cycle times.



The perfect payload

Make sure you haul the optimum amount of material with the optional On-Board Weighing system, providing real-time payload insight via the on-board display. The system helps to eliminate both underloading for peak productivity, and overloading for reduced fuel consumption and machine wear.



Optimum match

The R60 rigid hauler is the perfect match for a 90-tonne excavator, helping to optimize fleet use. With the additional support of Volvo Site Simulation, your Volvo dealer can work with you to advise on the optimum fleet configuration and site set-up for your operation.





LOADS OF PRODUCTIVITY

Move more with every cycle in the high-capacity V-shaped body, which ensures optimal load retention and minimal material carry-back – further enhanced with the exhaust-heated option. For long lasting performance, the body is manufactured from high impact and high abrasion resistant steel. Enhance productivity with our 10-10-20 payload profile policy (please ask your local dealer for more detailed information).

For your comfort and safety

The R60 has been designed to keep operators safe, comfortable and working at their best, delivering outstanding levels of visibility, controllability and comfort.

Always in control

The R60 features two standard retardation systems for enhanced downhill machine control. The transmission retarder limits wheel lock-up while the modulating rear brake retarder, with automatic apply function, helps to maintain a controlled engine speed. Other protective features include transmission overspeed protection, neutral coast inhibitor, fail-safe braking and secondary steering systems.



Smooth operation

Enjoy superior ride quality in the robust R60, equipped with responsive MacPherson strut with lower wishbone connection and viscous-mounted cab, minimizing the transfer of impact and vibrations from the ground to the operator. The responsive low-effort steering system and geometry, combined with the suspension, optimizes maneuverability by minimizing lean on tight corners.



Total access

Gain straightforward entry to the ROPS/FOPS certified cab from both sides using anti-slip steps and secure walkways.



Comfortably productive

A host of comfort enhancing features including climate control, ergonomically positioned displays, responsive fingertip controls and adjustable air-suspended seat and steering wheel combine to keep operators working at their best. With the Bluetooth enabled audio system operators can choose the soundtrack to their working day.





EVERY ANGLE IN VIEW

Operators benefit from unrivalled visibility in the R60 cab. The left-positioned operator station provides an unobstructed view of the surrounding area and aids safe passing, while forward visibility is enhanced by the large windscreen. Take visibility to new heights with the optional Volvo Smart View, giving operators a 360° bird's-eye-view of the work zone.

Access more uptime

Robust, reliable and with an uncomplicated design, you can count on the R60 to keep your operation moving.

Strength and durability

Durable by design, the R60 is built to last. The high strength, flexible chassis structure and responsive MacPherson strut with lower wishbone connection absorb potentially damaging shocks and vibrations that can occur during operation. Regardless of environmental conditions, you can depend on the hydraulic filtration system to protect against contamination, for optimum machine availability.





EASE OF SERVICEABILITY

All service points are conveniently grouped and within easy reach from the ground level or wide platform, helping to keep uptime to a maximum. To simplify mechanical servicing, the hauler features common-sized bearings. Inside the cab, access top-level diagnostic data using the operator-friendly dashboard for fast analysis and solutions.

Drive up your profits

Fuel efficiency

- Volvo Dynamic Shift Control: automatic adaptive gear selection
- Eco mode
- Auto engine idle shut down

Operator's choice

- Cab access from both sides
- Left-hand side positioned operator station, Air-suspended seat
- Low-effort steering, adjustable steering wheel
- Powerful Heating, Ventilation and Air-Conditioning system
- Bluetooth
- Volvo Smart View: 360° visibility (Option)

Safety at the center

- Pressurized ROPS/FOPS-certified cab
- Anti-slip steps, secure walkways
- Selectable transmission retarder, Automatic brake retarder (Option)
- Fail-safe braking and secondary steering systems
- Neutral coast inhibitor
- Transmission overspeed protection
- Integral safety locks
- Easily accessible emergency shutdown switches

Access more uptime

- 500 hr service intervals
- Common-sized bearings
- Straightforward service access
- On-board service diagnostic



Move more, earn more

- 55-tonne payload, 36.04 m³ capacity
 V-shape body for optimum load retention
 High drive multiplication: high levels of rimpull
- Fast body-tipping system
- On-Board Weighing system (Option): real-time payload insight

 • Perfect match to a 90-tonne excavator

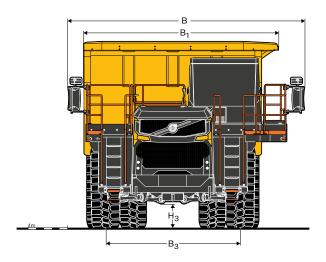


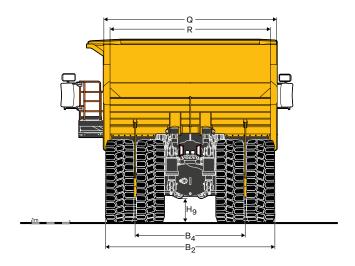
Volvo R60 in detail

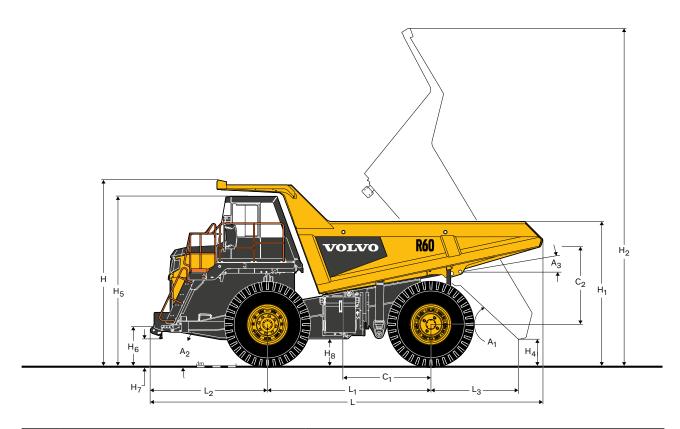
Engine			
Model		CumminsQSK 19, CAC, Tier2 , 567kW	
Туре		Electronic control, four cycle, direct injection, turbo charged and charge air cooled, high-speed electronic control module (ECM) isolated from detrimental vibration loading, fully sealed wiring harness, with fail-safe connectors integrates the ECM with engine sensors for optimised engine performance, monitoring and protection.	
Cylinder/configuration		In line 6 cylinder	
Displacement	I	19	
Bore x Stroke	mm	159	
Max. power at	r/min	2 100	
Gross power (SAE J1995)	kW	567	
,	hp	771	
Net power	kW	526	
. Tot porto.	hp	715	
Max. torque at	r/min	1500	
Gross torque	Nm	3 084	
Engine emissions	INIII	USA EPA 40 CFR 1039 Tier 2 and EU Stage II emissions standards	
•		9	
Electrical Steering System		24v negative ground, Two 12volt 170Ah batteries, 70Amp alternator	
Primary steering pressure is supplied by a pressurhe accumulator circuit provides instant, uniform Pilot operated remote mounted orbitrol control v Secondary steering is provided by an independant	ned steering alve delive	rs light, responsive steering control.	
SAE turning radius	mm	20 400	
Clearing radius	mm	22 500	
Axles			
Torque multiplication takes place through the be wheel hubs. Differential ratio Planetary reduction	veled gear	differential, then transmitted through fully floating shafts to the planetary reduction gears in the 3.73:1 5.8:1	
Overall drivetrain reduction		21.63:1	
rame			
The closed "horse collar" allows for flexibility in t	he frame to impact loa	teel castings in key stress locations absorbing the worksite impacts for long durable life cycles. o dissipate twists and loads while incorporating a reserve of structural strength well in excess o ding when travelling on uneven, high rolling resistance applications.	
Body			
V-shaped that provides excellent centre of gravit Manufactured from high abrasion resistant steel Horizontal side stiffeners dissipate shock loads a Mounted on floating pins for minimal structural s NB: Hardox 400 specification Body steel 360-440 BHN Body yeils strength 1000 Mpa Body tensile strength 1,250 N/mm2	(Hardox 4) occross the	00) for superior lifecycles. The entire side plate. In an angle of the entire side plate. In angle of the entire side plate.	
Floor	mm	19	
Sides	mm	10	
Front	mm	10	
Stuck	m³	25	
Heaped 2:1 (SAE)	m³	36	
ires and Rims			
Tires type		24:00-35	
Rims		17	
Sound Level			
L _{pA}	dB	77	
L_{WA}	dB	120	

Drivetrain				
Transmission		Allison 6620 ORS		
Assembly		Planetary gear type transmission with intergral torque convertor and hydraulic fluid retarder. Electronic controlled connected to engine system via CANBUS. Automatic lockup in all ranges. Mounted mid chassis for ease of access and excellent weight distribution.		
Electronic control		CEC5		
1st gear	km/h	10		
2nd gear	km/h	16		
3rd gear	km/h			
4th gear	km/h	32		
5th gear	km/h			
6th gear	km/h	60.6		
Suspension	,	***		
Front: Independent self contained Macp Widley spaced wheel track for high levels	s of machine stabili e rate (Nitrogen/oil)	le rate (Nitrogen/oil) suspension strut with lower wishbone. ty and easy machine manoeuverability.) suspension struts. The strut is mounted between the chassis and axle. The axle is mounted vi		
Maximum front strut stroke	mm	242		
Maximum rear strut stroke	mm	140		
Brake system				
Fulfills ISO 3450:2011, Braking - Wheel	ed or High-Speed F	Rubber Tracked Machinery		
Front brakes type		Independant hydraulic apply, dry single caliper, Incorporating independent nitrogen/hydraulic pressure accumulator for instant response and reserve pressure.		
Front brake diameter	mm	711		
Front brakes lining area	cm ²	1 394		
Rear brakes type		Independent force cooled, oil emmersed, multi-disc enclosed brakes. Two piston service and park/emergency brakes. Emergency brake spring-applied hydraulic release (SAHR). Service brake is also used for rear brake retardation for safe machine control.		
Rear brake lining area	cm ²	47 151		
Hoist				
Fulfills ISO 4413:2010, Fluid Power Sys	tems - Safety - Hyd	raulics		
System relief pressure	MPa	19		
Pump output flow rate	l/min	336		
at	r/min	2 100		
Body raise time	s	10		
Body lower time	s	15		
Service Refill				
Engine crankcase and filters	I	65		
Transmission and filters	1	90		
Cooling system	1	160		
Fuel tank	1	880		
Steering hydraulic tank	1	302		
Steering hydraulic system (total)	I	380		
Planetaries (total)	T	58		
Differential	ı	95		
Front ride strut (each)	Ī	12.4		
Rear ride strut (each)	ı	7.2		
Power take off		2		
Weights				
Chassis with hoists	kg	34 829		
Body standard	kg	9 991		
Net weight	kg	44 280		
Maximum payload	kg	55 000		
. ,	_	99 280		
Maximum gross weight* Weight distribution (axles)	kg	33 200		
Weight distribution (axles)	0.4	40 / 50		
- Empty	%	48 / 52		
- Loaded	%	32/68		

Specifications







DIMENS	SIONS		
Descript	ion	Unit	R60
Н	Overall height	mm	4 606
H ₁	Loading height	mm	3 675
H ₂	Raise height	mm	8 591
Нз	Front axle ground clerance	mm	662
H ₄	Tail clearance	mm	675
H ₅	Cab height	mm	4 315
H ₆	Bumper ground clearance (no TH)	mm	971
H ₇	Ladder ground clearance	mm	417
H ₈	Frame ground clearance (hoist)	mm	690
H ₉	Rear axle ground clearance	mm	665
В	Overall width (outside of mirrors)	mm	5 921
B ₁	Body width	mm	4 496
B ₂	Rear over tires	mm	4 381
Вз	Front track	mm	3 384
B ₄	Rear track	mm	2 856
L	Overall length	mm	9 992
L ₁	Wheel base	mm	4 170
L ₂	Center front axle to bumper	mm	2 986
Lз	Center rear axle to tipped tail	mm	2 426
SAE_TR	SAE turning radius	mm	20 400
C_{TR}	Clearance turning radius	mm	22 500
A ₁	Body dump angle	o	47
A ₂	Approach angle	۰	21 (to guard)
Аз	Frame angle	۰	10
C ₁	C of G (horizontal) unladen	mm	Dim from body pin 1 400
C ₂	C of G (vertical) unladen	mm	Dim from body pin 567
C ₁	C of G (horizontal) laden	mm	Dim from body pin 1 204
C2	C of G (verical) laden	mm	Dim from body pin 1 036

Measurements to be taken on flat ground

Truck should be unladen
Bridgestone VRLS Tires should be used

Tire pressure should be set as per manual
Suspension should be set at normal operating height

Equipment

STANDARD EQUIPMENT

Engine

Air cleaner with aspirator (vacuum)

Turbocharged and charge air cooler

Direct drive fan

Electronically controlled with Shift Energy Management (SEM)

Engine safe mode

Fuel filter/water separator

Sump guard

Engine idle shut down

Engine enclosures (rubber)

Tires

Standard tires 24:00-35

Drivetrain

Full automatic transmission with manual override

Shift Energy Management

Torque converter with automatic lockup

Volvo Dynamic Shift

Electrical system

Alternator

Batteries

Battery disconnect switch (tag lock out)

Emergency engine shutdown (ground level)

Direction indicators and hazard warning

Lights - side, tail, stop and headlights

LED tail lamps

Power ports - 12V and 24V

Reverse alarm

Reverse lights

ECO mode

Auto retard

Brake system

Hydraulically operated system with independent front and rear control systems

Park brake - electric switch, spring applied hydraulic release

Retardation - finger tip control of transmission retarder or lever mounted on the steering column giving modulated pressure control of the rear oil cooled brakes

Body

Rock ejectors

STANDARD EQUIPMENT

Safety

Anti-slip steps and platforms

Body down indicator

Body - operator guard LHS

Body - up locking pins

Body - up reverse to neutral inhibitor

Body - up shift inhibitor

Brakes - independant front and rear systems

Emergency SAHR brake

Battery disconnect switch (tag lock out)

Engine diconnect switch (Tag lock out)

Emergency engine shutdown (ground level)

Cab - ROPS and FOPS

Electro magnetic compatibility

Handrails on steps and platform

Horn

Neutral start inhibitor

Engine overspeed protection

Neutral coast inhibit

Programmable max. travel speed

Operator safety belt

Operator's field of view

Rear view mirrors

Retarder - transmission

Retarder - rear brake

Secondary steering

Instructor's seat with safety belt

Vibration 2002/44/EC

Windscreen washers

Windscreen wipers

Comfort

Air suspended seat

Heating, Ventilation and Air Conditioning - HVAC

Interior lights

Radio - Bluetooth

USB power take-off

Cup holder

Insulation thermal and acoustic

Storage compartments

Sun visor

Tilt/telescopic steering wheel

Tinted glass

Operator information interface

MacPherson type front suspension with lower wishbone

Exterior

Mud flaps

Diagnostic terminal

Front and rear tow points

Service and maintenance

Pressure check points

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT		
Engine	Electrical system		
Fast fuel	Heated and adjustable electrical mirrors		
Inline fuel heater	LED headlamps		
Tires	Froward work lamps		
Bridgestone	Rear work lamps		
VMTP	Care track telematics		
VZTS	Cab		
VRLS	Amber flashing beacon		
Michelin tires	HEPA filter		
XDTA-4	Body		
XKD1-A	Onboard Weighing System		
E4RTL	Pay load indicator lights		
Goodyear	Body Exhaust Heating		
RL4J	Spill guard		
23775	Body Extensions upon request		
Belshina	Body liner plates (available with full weight or half weight)		
FBEL 150	RHS canopy extension		
BEL 202	Safety		
BEL 122	Fire suppression system		
Techking	Smart view (360 degree camera system)		
ETDT2	Orange flashing beacon		
Magna	Service and maintenance		
MAO4A	Quick oil drain kit		
Drivetrain	Central autolube		
Transmission sump guard	Service lights		
Drive line guard			
Traction bias differential			

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.

V O L V O