



Volvo Rigid Haulers 55.0 t 771 hp



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

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 carryback – 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 insightPerfect 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, full 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	
let power	kW	526	
	hp	715	
/lax. torque at	r/min	1 500	
aross torque	Nm	3 084	
ngine emissions		USA EPA 40 CFR 1039 Tier 2 and EU Stage II emissions standards	
Electrical		24v negative ground, Two 12volt 170Ah batteries, 70Amp alternator	
teering System			
Primary steering pressure is supplied by The accumulator circuit provides instant Pilot operated remote mounted orbitrol Secondary steering is provided by an inc	, uniformed steering control valve delivers	s light, responsive steering control.	
SAE turning radius	mm	20 400	
Clearing radius	mm	22 500	
des			
Forque multiplication takes place throug wheel hubs. Differential ratio Planetary reduction	al ratio 3.73:1		
Overall drivetrain reduction		21.63:1	
rame		21.00.1	
The closed "horse collar" allows for flexil	oility in the frame to osed by impact load	eel castings in key stress locations absorbing the worksite impacts for long durable life cycles. dissipate twists and loads while incorporating a reserve of structural strength well in excess o ing when travelling on uneven, high rolling resistance applications.	
ody			
V-shaped that provides excellent centre Manufactured from high abrasion resist Horizontal side stiffeners dissipate shoc Mounted on floating pins for minimal str NB: Hardox 400 specification Body steel 360-440 BHN Body yeils strength 1000 Mpa Body tensile strength 1,250 N/mm2	ant steel (Hardox 40 k loads accross the e	0) for superior lifecycles. entire side plate. g empty and full transportation.	
loor	mm	19	
ides	mm	10	
ront	mm	10	
ituck	m ³	25	
leaped 2:1 (SAE)	m ³	36	
res and Rims			
īres type		24:00-35	
Rims		17	
ound Level			
L _{pA}	dB	77	
Lwa	dB	120	

Drivetrain		
Transmission		Allison 6620 ORS
Assembly	F	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	21
4th gear	km/h	32
5th gear	km/h	43
6th gear	, km/h	60.6
Suspension		
Front: Independent self contained Macphers Widley spaced wheel track for high levels of	machine stability a	ate (Nitrogen/oil) suspension strut with lower wishbone. and easy machine manoeuverability. Ispension struts. The strut is mounted between the chassis and axle. The axle is mounted via
Maximum front strut stroke	mm	242
Maximum rear strut stroke	mm	140
Brake system		
Fulfills ISO 3450:2011, Braking - Wheeled o	or High-Speed Rub	ber Tracked Machinery
Front brakes type		dependant 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	cm²	47 151
Hoist		
Fulfills ISO 4413:2010, Fluid Power System	s - Safety - Hydrau	lics
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	I	90
Cooling system	1	160
Fuel tank	1	880
	1	880 302
Fuel tank		
Fuel tank Steering hydraulic tank		302
Fuel tank Steering hydraulic tank Steering hydraulic system (total)		302 380
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total)		302 380 58
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each)		302 380 58 95 12.4
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential		302 380 58 95 12.4 7.2
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off		302 380 58 95 12.4
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights		302 380 58 95 12.4 7.2 2
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights Chassis with hoists	 	302 380 58 95 12.4 7.2 2 2 34 829
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights Chassis with hoists Body standard	kg	302 380 58 95 12.4 7.2 2 2 34 829 9 991
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights Chassis with hoists Body standard Net weight	kg kg	302 380 58 95 12.4 7.2 2 2 34 829 9 991 44 280
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights Chassis with hoists Body standard Net weight Maximum payload	kg kg kg	302 380 58 95 12.4 7.2 2 2 34 829 9 991 44 280 55 000
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights Chassis with hoists Body standard Net weight Maximum payload Maximum gross weight*	kg kg	302 380 58 95 12.4 7.2 2 2 34 829 9 991 44 280
Fuel tank Steering hydraulic tank Steering hydraulic system (total) Planetaries (total) Differential Front ride strut (each) Rear ride strut (each) Power take off Weights Chassis with hoists Body standard Net weight Maximum payload	kg kg kg	302 380 58 95 12.4 7.2 2 2 34 829 9 991 44 280 55 000

Specifications







DIMENSIONS				
Description		Unit	R60	
н	Overall height	mm	4 606	
H1	Loading height	mm	3 675	
H ₂	Raise height	mm	8 591	
Hз	Front axle ground clerance	mm	662	
H₄	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	
B1	Body width	mm	4 496	
B ₂	Rear over tires	mm	4 381	
В₃	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	
L ₃	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	o	21 (to guard)	
A ₃	Frame angle	o	10	
C ₁	C of G (horizontal) unladen	mm	Dim from body pin 1 400	
C2	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	

Vehicle measurements assumptions / variables

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	STANDARD EQUIPMENT		
Engine	Safety		
Air cleaner with aspirator (vacuum)	Anti-slip steps and platforms		
Turbocharged and charge air cooler	Body down indicator		
Direct drive fan	Body - operator guard LHS		
Electronically controlled with Shift Energy Management (SEM)	Body - up locking pins		
Engine safe mode	Body - up reverse to neutral inhibitor		
Fuel filter/water separator	Body - up shift inhibitor		
Sump guard	Brakes - independant front and rear systems		
Engine idle shut down	Emergency SAHR brake		
Engine enclosures (rubber)	Battery disconnect switch (tag lock out)		
Tires	Engine diconnect switch (Tag lock out)		
Standard tires 24:00-35	Emergency engine shutdown (ground level)		
Drivetrain	Cab - ROPS and FOPS		
Full automatic transmission with manual override	Electro magnetic compatibility		
Shift Energy Management	Handrails on steps and platform		
Torque converter with automatic lockup	Horn		
Volvo Dynamic Shift	Neutral start inhibitor		
Electrical system	Engine overspeed protection		
Alternator	Neutral coast inhibit		
Batteries	Programmable max. travel speed		
Battery disconnect switch (tag lock out)	Operator safety belt		
Emergency engine shutdown (ground level)	Operator's field of view		
Direction indicators and hazard warning	Rear view mirrors		
Lights - side, tail, stop and headlights	Retarder - transmission		
LED tail lamps	Retarder - rear brake		
Power ports - 12V and 24V	Secondary steering		
Reverse alarm	Instructor's seat with safety belt		
Reverse lights	Vibration 2002/44/EC		
ECO mode	Windscreen washers		
Auto retard	Windscreen wipers		
Brake system	Comfort		
Hydraulically operated system with independent front and rear control	Air suspended seat		
systems	Heating, Ventilation and Air Conditioning - HVAC		
Park brake - electric switch, spring applied hydraulic release	Interior lights		
Retardation - finger tip control of transmission retarder or lever mounted on the steering column giving modulated pressure control of the rear oil	Radio - Bluetooth		
cooled brakes	USB power take-off		
Body	Cup holder		
Rock ejectors	Insulation thermal and acoustic		
	Storage compartments		
	Sun visor		
	Tilt/telescopic steering wheel		
	Tinted glass		

Operator information interface

Exterior Mud flaps

Diagnostic terminal Front and rear tow points Service and maintenance Pressure check points

MacPherson type front suspension with lower wishbone

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT	
Engine	Electrical system	
Fast fuel	Heated and adjustable electrical mirrors	
Inline fuel heater	LED headlamps	
lires .	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.

VOLVO