

Volvo Rigid Haulers 65.0 t 772 hp

R70

R70

The R70 rigid hauler thrives on quarrying and mining sites, where it moves large quantity of material at high speed over long distances, reliably and cost efficiently.



Productivity



- 65 tonnes payload, 42.4 m³ volume
- V-shape body for optimum load retention
- Fast body-tipping system
- High drive axle multiplication: excellent tractive effort and incline performance
- 61 km/h top speed
- 10/10/20 payload policy, supported by On-Board Weighing system (option)
- A match to EC950F and L350H
- Design promotes excellent stability and maneuverability



Fuel efficiency

- Dynamic Shift Control: automatic adaptive gear selection
- Selectable Eco mode
- Auto engine idle shut down
- Include payload sensitive shifting (when connected to optional on-board weighing system)
- HVO compliant

Driving profits forward

Big on productivity but low on cost of operation, the R70 is the perfect partner for quarrying and mining duties. This Volvo Rigid Hauler delivers outstanding performance, reliability and serviceability – not to mention safety and comfort.

Comfort



- Cab access from both sides
- Outstanding visibility: large windscreen, low raked dashboard, left-positioned operator station, optional 360° Volvo Smart View
- Independent suspension and viscous mounted cab
- Adjustable air-suspended seat and steering wheel
- Effortless ergonomic control layout
- Powerful Heating, Ventilation and Air-Conditioning system
- Bluetooth, ample storage space
- Operator cab with pressurized properties
- Independent suspension and viscous mounted cab - reduces vibrations and impacts while harmonizing noise

Safety



- ROPS/FOPS-certified cab with pressurized properties
- Anti-slip steps, secure walkways
- Selectable transmission retarder, Gear dependent speed control
- Transmission overspeed protection
- Fail-safe braking and secondary steering
- Neutral coast inhibitor
- Ground level tag out switch
- Emergency shutdown switch
- Body up movement limiter
- Adaptable top speed restriction

Serviceability and uptime



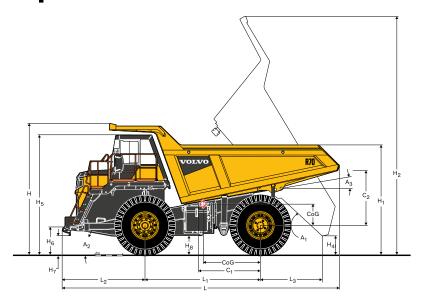
- Maximized component lifecycles
- 500 hr service intervals
- On-board diagnostics
- Straightforward service access
- Common-sized bearings
- CareTrack telematics system for remote monitoring
- Grouped service points
- Aspirated engine air cleaners
- Magnetic hydraulic suction filters
- Pressure filters on the main hydraulic circuits
- Machine operational safety inhibitors

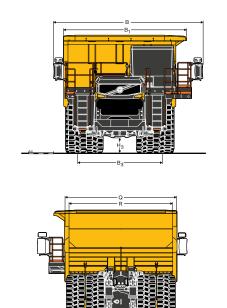
Volvo R70 in detail

Engine		
Model		CumminsQSK 19, CAC, (EU Stage V) (EPA Tier4 f) , 567 kW
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 DEF and SCR emmision contro
Cylinder/configuration		In line 6 cylinder
Displacement	ī	19
Bore x Stroke	mm	159
Max. power at	r/min	2 100
Gross power (SAE J1995)	kW	567
	hp	772
Net power	kW	526
•	hp	715
Max. torque at	r/min	1 500
Gross torque	Nm	3 084
Engine emissions		USA EPA Tier 4f and EU Stage V emissions standards
Electrical		24 V negative ground, Two 12 volt 170 Ah batteries
Steering System		
Primary steering pressure is supplied by a pressure compe The accumulator circuit provides instant, uniformed steerin Pilot operated remote mounted orbitrol control valve delive Secondary steering is provided by an independant nitroge	ng response regardles ers light, responsive s	teering control.
SAE turning radius	mm	20 400
Clearing radius	mm	22 500
Axles		
The rear wheels are driven through single reduction drive a Torque multiplication takes place through the beveled gea wheel hubs.		nsmitted through fully floating shafts to the planetary reduction gears in the
Differential ratio		3.73:1
Planetary reduction		5.8:1
Overall drivetrain reduction		21.63:1
	to dissipate twists and ading when travelling	tress locations absorbing the worksite impacts for long durable life cycles. d loads while incorporating a reserve of structural strength well in excess of on uneven, high rolling resistance applications.
V-shaped that provides excellent centre of gravity for load Manufactured from high abrasion resistant steel (Hardox 4 Horizontal side stiffeners dissipate shock loads accross the Mounted on floating pins for minimal structural stress dur NB: Hardox 400 specification Body steel 360-440 BHN Body yeils strength 1000 Mpa Body tensile strength 1,250 N/mm²	400) for superior lifect e entire side plate.	ycles.
Plate thickness		
Floor	mm	19
Sides	mm	10
Front	mm	10
Body volume		
Stuck	m³	31.6
Heaped 2:1 (SAE)	m³	42.5
Tires and Rims		
Tires type		24:00-35
Rims		17
Sound Level		
Interior sound level according to ISO 6396		
L _{pA}	dB	76
Lwa	dB	101

Drivetrain		
Transmission		Allison 6620 OR
Assembly		Planetary gear type transmission with intergral torque convertor and hydrauli fluid retarder. Electronic controlled connected to engine system via CANBUS Automatic lockup in all ranges
El		Mounted mid chassis for ease of access and excellent weight distribution
Electronic control		CEC
Maximum speed, forward/reverse		
1st gear	km/h	11/
2nd gear	km/h	15/1
3rd gear	km/h	2
4th gear	km/h	3
5th gear	km/h	4
6th gear	km/h	5
Suspension		
Front: Independent self contained Macpherson typ Widley spaced wheel track for high levels of machin Rear: Independent self contained variable rate (Nitt trailing A frame and lateral stabilizing bar.	ne stability and easy mach	
Maximum front strut stroke	mm	24:
Maximum rear strut stroke	mm	140
Brake system		
Fulfills ISO 3450:2011, Braking - Wheeled or Hig	h-Speed Rubber Tracked N	Machinery
Front brakes type		Independant hydraulic apply, dry single caliper, Incorporating independen nitrogen/hydraulic pressure accumulator for instant response and reserve pressure
Front brake diameter	mm	71
Front brakes lining area	cm ²	1 39:
		Independent force cooled, oil emmersed, multi-disc enclosed brakes
Rear brakes type		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 contro
Rear brakes type Rear brake lining area	cm²	Emergency brake spring-applied hydraulic release (SAHR)
Rear brake lining area	cm²	Emergency brake spring-applied hydraulic release (SAHR) Service brake is also used for rear brake retardation for safe machine control
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Rear brake lining area Hoist Fulfills ISO 4413:2010, Fluid Power Systems - Sa System relief pressure Pump output flow rate at Body raise time Body lower time Service Refill Engine crankcase and filters Transmission and filters Cooling system Fuel tank DEF/AdBlue® tank	afety - Hydraulics MPa I/min r/min s s	Emergency brake spring-applied hydraulic release (SAHR) Service brake is also used for rear brake retardation for safe machine contro 67 390 19 336 2 100 1 14 66 90 166 770 5
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Specifications





	Description	Unit	R70
1	Overall height	mm	4 734
11	Loading height	mm	3 975
12	Raise height	mm	8 617
13	Front axle ground clerance	mm	662
H ₄	Tail clearance	mm	667
H ₅	Cab height	mm	4 315
16	Bumper ground clearance (no TH)	mm	971
I ₇	Ladder ground clearance	mm	417
H ₈	Frame ground clearance (hoist)	mm	690
H ₉	Rear axle ground clearance	mm	665
3	Overall width (outside of mirrors)	mm	5 921
31	Body width	mm	4 506
32	Rear over tires	mm	4 381
33	Front track	mm	3 384
3,	Rear track	mm	2 856
-	Overall length	mm	10 005
-1	Wheel base	mm	4 170
-2	Center front axle to bumper	mm	2 986
-3	Center rear axle to tipped tail	mm	2 426
SAE _{TR}	SAE turning radius	mm	20 400
TR	Clearance turning radius	mm	22 500
\ 1	Body dump angle	0	47
\ ₂	Approach angle	۰	21 (to guard)
lз	Frame angle	•	10
of G	from the centre of the rear axle, unladen - horizontal	mm	2 065
of G	from the centre of the rear axle, unladen - vertical	mm	779
of G	from the centre of the rear axle, laden (2:1 heaped) - horizontal	mm	1 310
of G	from the centre of the rear axle, laden (2:1 heaped) - vertical	mm	1 770

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

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 and security

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

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