

Volvo Compact Excavators 2,49-2,96 t / 5.490-6.526 lb 20,9 hp



Volvo Construction Equipment

Small size. Big power.

The ECR25D has been designed with mobility and performance in mind. Featuring a range of innovations engineered for effortless transportation, you'll benefit from an ideal transport weight and an integrated bucket transport system. This powerful, short radius excavator boasts strong lifting capabilities as well as breakout and tear out forces that rival larger machines.

Maintenance made easy

It's easy to keep your hardworking ECR25D up and running with worry-free maintenance. The wide-opening lockable engine hood provides clear access to all daily service points, while the minimum 50-hour interval on all greasing points saves valuable time and money. Check hydraulic oil at a glance with the Volvo patented hydraulic filter, featuring transparent housing to prevent unplanned downtime.



The operator's choice

As the industry's leading operator environment, the easily accessible Volvo cab boasts superb visibility, comfortable seat, ergonomic controls, and conveniently-located cup and phone holders. The flat floor makes cleaning quick and easy, while noise and vibration insulation keep the operator fresh and focused – longer.



Control costs

Decrease your total cost of ownership with a range of built-in features. The ideally matched Volvo engine and single variable displacement pump reduce fuel consumption, while auto-idle and auto-engine shutdown maximizes fuel efficiency, cut service costs and ensure high resale value. Controlling your costs needn't be complicated, which is why the flat glass windows of the cab can be replaced easily and inexpensively.



Intuitive operation

Experience precise, smooth and effortless command of the boom offset and auxiliary hydraulic flows with proportional fingertip controls. The easy-to-use joystick allows you to finetune the maximum hydraulic flow of any attachment to ensure ideal speed and power for any task. And, with automatic twospeed travel, you can drive the machine at high speed, which is automatically reduced when more traction is required.





MADE For Mobility

Conveniently transport this highly mobile machine with up to three buckets and a hydraulic breaker on a small trailer and benefit from a total transport weight of less than 3.5 tonnes. Safe transportation is enabled by four, easily accessible, tie-down points.

All work, all the time

Built to work for you, the ECR25D is an industry-leader. Optimize machine performance, productivity and versatility with Volvo's range of durable attachments and Customer Solutions, tailored to your business and operations. Just like your ECR25D, our unique, global dealer support network is built around you. Protect your profits with a long-term partnership and benefit from an array of services using Genuine Volvo Parts, delivered by passionate people.

Fast, safe change outs

Change attachments quickly and efficiently with the pin-grabber mechanical quick coupler from Volvo. Compatible with the wide range of Genuine Volvo attachments, Volvo couplers ensure the optimum versatility for any task you choose.

Unlock your potential

Unlock the full potential of your operation with the ECR25D, compatible with any attachment, installed safely and easily thanks to built-in relief valves. And, with the secondary accessory circuit, you have the potential to do even more. Contact your local dealer and benefit from leading expertise and advanced attachment solutions.





Volvo - a partner to trust

Being a Volvo customer means having a complete set of services at your fingertips. Your dealer is here for you and your machine anytime, anywhere – offering professional expertise, financial packages and Customer Support Agreements, catered specifically to help you achieve your business objectives.

Keep your Volvo a Volvo

We're committed to providing a complete solution to guarantee the highest performance of your Volvo machine, including high quality Genuine Volvo Parts, extensively tested and approved because every part is vital for performance. Rely on our leading parts availability to ensure maximum uptime, extend the life of your Volvo and optimize the profitability of your business.







BUILT READY

Get the most out of your hardworking ECR25D with Volvo's range of durably-designed attachments. Purpose-built to work in harmony with your machine, Volvo attachments optimize versatility and uptime of your ECR25D, enabling you to effectively perform a variety of jobs.

Up to the challenge

Auto-idle

Engine speed is reduced to idle when controls are inactive for more than five seconds, cutting fuel consumption and noise.

Control costs

Decrease your total cost of ownership with a range of built-in features, which reduce fuel consumption, cut service costs and ensure high resale value.

Built ready

The ECR25D is a perfect match with Volvo attachments for increased versatility, performance and profitability.

Auto engine shutdown

The engine shuts off when inactive for a pre-set amount of time, minimizing operating costs and ensuring a high resale value.

50-hour greasing intervals

Excellent stability and outstanding hydraulics ensure the machines are capable of lifting heavy loads.

Automatic travel speed

Continually drive the machine at high speed. When more traction is needed, the speed is automatically reduced.



The operator's choice

Ergonomic, spacious and safe, the Volvo cab features all around visibility, intuitive controls and built-in comfort.

Patented hydraulic filter

Filtration occurs when the tank is filled and before oil returns via the drain lines. The transparent bowl makes checking for oil contamination easy.

Made for mobility

Conveniently transport the highly mobile ECR25D with up to three buckets and a hydraulic breaker on a small trailer.

Ultimate lifting capacity

Excellent stability and outstanding hydraulics ensure the machines are capable of lifting heavy loads.

Maintenance made easy

Daily service points are grouped under the engine hood and are easily accessible for straightforward maintenance.

Intuitive operation

Use ergonomic fingertip controls for precise, smooth and effortless command of the boom offset and auxiliary hydraulics.

Volvo - a partner to trust

We offer the right solutions throughout the entire life cycle of your Volvo to help you achieve your business objectives.

Volvo ECR25D in detail

Engine		
Engine		D1.1A
Max. power at	r/min (r/s)	2.400 (40)
Gross	kW (hp)	15,6 (20,9)
According to ISO 9249 / SAE J19	95	
Max. torque	Nm (ft lbf)	71,4 (52,7)
at engine speed	r/min	1.600
No. of cylinders		3
Displacement	cm³ (in³)	1.123 (68,5)
Bore	mm (in)	78 (3,07)
Stroke	mm (in)	78,4 (3,09)
Compression ratio		24
Electrical system		
Voltage	V	12
Battery	V	1 x 12
Battery capacity	Ah	70
Alternator	V/Ah	12/40
Hydraulic system		
Pump type		Variable displacement, load sensing
Maximum system flow	l/min (gal/min)	58 (15,3)
Maximum flow for accessories	l/min (gal/min)	50 (13,2)
Maximum pressure for accessories	s MPa (psi)	25 (3.626)
Maximum flow for 2nd accessory circuit (option)	l/min (gal/min)	23 (6,1)
Maximum operating pressure	MPa (psi)	25 (3.626)
Digging Performances		
Standard bucket width (blade, W/ side cutter)	O mm (in)	500 (19,7)
Standard bucket mass	kg (lb)	59 (130)
Standard bucket rated capacity	l (ft³)	74 (2,61)
Bucket rotation	0	205
Bucket breakout force (ISO)	daN (lbf)	2.233 (5.020)
Short arm tearout force (ISO)	daN (lbf)	1.776 (3.993)
With short arm	mm (ft in)	1.050 (3'5")
Long arm tearout force (ISO)	daN (lbf)	1.497 (3.365)
With long arm	mm (ft in)	1.350 (4'5")
Swing System		
Max, slew speed	r/min	9,4
Max, slew torque	daNm (ft lbf)	485 (3.577)

Undercarriage		
Rubber track width	mm (in)	250 (9,8)
Steel track width	mm (in)	300 (11,8)
Bottom/top rollers per side		3/1
Track tension		by grease piston
Blade (width x height)	mm (in)	1.550 x 312 (61 x 12,3)
Travel System		
Max, drawbar pull	daN (lbf)	1.984 (4.460)
Max. travel speed low	km/h (mi/h)	2,4 (1,5)
Max. travel speed high	km/h (mi/h)	4,5 (2,8)
Gradeability	٥	30
Service Refill		
Fuel tank	l (gal)	28 (7,4)
Hydraulic system, total	l (gal)	33 (8,7)
Hydraulic tank	l (gal)	23 (6,1)
Engine oil	l (gal)	5,1 (1,35)
Engine coolant	l (gal)	4 (1,06)
Travel reduction unit	l (gal)	2 x 0,6 (2 x 0,159)
Sound Level		
Interior sound level according to ISO 6	396	
L _{pA}	dB	78
External sound level according to ISO (2000/14/EC) and 474-1:2006 +A1:2		U Noise Directive
Lwa	dB	93
Weight and Ground Pressure		
Operating weight according to ISO 6016	i kg (lb)	2.490 (5.490)
Ground pressure (cab)	kPa (psi)	30,5 (4,42)
Ground pressure (canopy)	kPa (psi)	29,4 (4,26)
Transport weight	kg (lb)	2.412 (5.318)
With heated cab		
With direct-fit bucket		
With rubber tracks	mm (in)	250 (9,8)
With short arm	mm (in)	1.050 (41,3)
With fuel tank capacity	%	100
With canopy	-kg (-lb)	90 (198)
With extra counterweight	+kg (+lb)	100 (221)
With long arm and additional counterweigh		112 (247)
With steel tracks	+kg (+lb)	163 (359)
Steel tracks	mm (in)	300 (11,8)
With rubber tracks	+kg (+lb)	78 (172)
Rubber tracks	mm (in)	300 (11,8)
	. ,	

LIFTING CAPACITY ECR25D

These capacities are given for a machine equipped with a cabin, 250 mm / 0'10" rubber tracks

and without a bucket or quick-coupler.

The below values are in compliance with ISO standard 10567.

They do not exceed 75% of the tipping load or 87% of the hydraulic limit

with the machine on firm level ground. Loads market with an asterisk (*) are limited by machine's hydraulic

lifting capacity rather than tipping load.

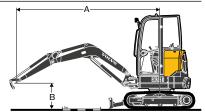
Caution: In accordance with standard EN 474-5, the machine must be

equipped to carry out handling operations.

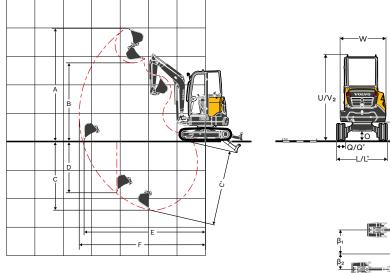
It is the operator's obligation to know and follow the applicable

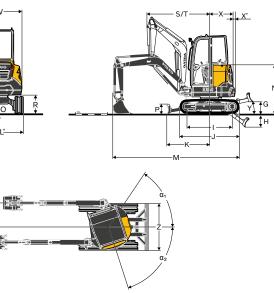
national and local safety regulations.

	Li	fting											Lift	ng poin	t radius	5 (A)																				
	point height (B)										point height (B)								2,0 m	2,0 m / 6'7"				3,0 m / 9'10"						Max. reach					Ma	ax.
m ft in		ft in			Alc underc dozer b	5	Alo underca dozer dov	arriage, blade		oss arriage	underc	ong arriage, Iade up	underc dozer	ong arriage, blade wn	Acr underc	oss arriage	Alo underca dozer b	arriage,	underc dozer	ong arriage, blade wn	Acro underca		m	ft in												
	3	9'10"	kg	lb	-	-	-	-	-	-	436	961	566*	1.248*	418	922	424	935	577*	1.272*	406	895	3.048	10'0"												
Arm:	2	6'7"	kg	lb	-	-	-	-	-	-	430	948	599*	1.321*	412	908	310	683	601*	1.325*	298	657	3.667	12'0"												
1.050 mm/3'5" Counterweight: standard	1	3'3"	kg	lb	-	-	-	-	-	-	406	895	795*	1.753*	389	858	280	617	642*	1.415*	269	593	3.858	12'8"												
	0	0'0"	kg	lb	712	1.570	1.602*	3.531*	670	1.477	390	860	933*	2.057*	373	822	291	642	699*	1.541*	280	617	3.706	12'2"												
	-1	-3'3"	kg	lb	722	1.592	1.543*	3.402*	680	1.499	393	866	849*	1.872*	375	827	369	814	771*	1.700*	354	780	3.144	10'4"												
Arm:	3	9'10"	kg	lb	-	-	-	-	-	-	474	1.045	566*	1.248*	452	996	461	1.016	577*	1.272*	439	968	3.048	10'0"												
1.050 mm/3'5"	2	6'7"	kg	lb	-	-	-	-	-	-	467	1.030	599*	1.321*	445	981	339	747	601*	1.325*	324	714	3.667	12'0"												
Counterweight:		3'3"	kg	lb	-	-	-	-	-	-	443	977	795*	1.753*	422	930	307	677	642*	1.415*	293	646	3.858	12'8"												
+ 100 kg/220 lb additional	0	0'0"	kg	lb	778	1.715	1.602*	3.531*	729	1.607	427	941	933*	2.057*	406	895	320	705	699*	1.541*	305	672	3.706	12'2"												
	-1	-3'3"	kg	lb	789	1.739	1543*	3.402*	739	1.629	430	948	849*	1.872*	409	902	404	891	771*	1.700*	385	849	3.144	10'4"												
Arm: 1.350 mm/4'5" Counterweight:	2	6'7"	kg	lb	-	-	-	-	-	-	465	1.025	500*	1.102*	445	981	294	648	532*	1.173*	282	622	3.971	13'0"												
	1	3'3"	kg	lb	808	1.781	1.334*	2.941*	760	1.676	439	968	715*	1.576*	418	922	269	593	571*	1.259*	258	569	4.142	13'7"												
+ 100 kg/220 lb		0'0"	kg	lb	760	1.676	1.608*	3.545*	713	1.572	417	919	897*	1.978*	397	875	278	613	623*	1.373*	266	586	4.002	13'2"												
		-3'3"	kg	lb	763	1.682	1.659*	3.657*	716	1.579	413	911	902*	1.989*	393	866	335	739	692*	1.526*	320	705	3.502	11'6"												



Specifications





Descr	iption	U	nit	ECR25D					
Arm		mm	ft in	1.050	3'5"	1.350	4'5"		
А	Maximum cutting height	mm	ft in	4.010	13'2"	4.183	13'9"		
В	Maximum dump height	mm	ft in	2.784	9'2"	2.957	9'8"		
В*	Maximum bucket clearance	mm	ft in	2.897	9'6"	3.070	10'1"		
С	Digging depth	mm	ft in	2.461	8'1"	2.761	9'1"		
C*	Maximum digging depth	mm	ft in	2.672	8'9"	2.965	9'9"		
D	Maximum vertical wall digging depth	mm	ft in	1.832	6'0"	2.119	6'11"		
E	Maximum digging reach at ground level	mm	ft in	4.313	14'2"	4.602	15'1"		
F	Maximum digging reach	mm	ft in	4.484	14'9"	4.768	15'8"		
G	Highest position dozer blade	mm	ft in	401	1'4"	401	1'4"		
н	Lowest position dozer blade	mm	ft in	422	1'5"	422	1'5"		
I	Tumbler length	mm	ft in	1.440	4'9"	1.440	4'9"		
J	Track length	mm	ft in	1.906	6'3"	1.906	6'3"		
K	Dozer blade, maximum reach at ground level	mm	ft in	1.365	4'6"	1.365	4'6"		
L	Overall width with 250 mm (9.8") rubber tracks	mm	ft in	1.500	4'11"	1.500	4'11"		
L1	Overall width with 300 mm (11.8") rubber tracks	mm	ft in	1.550	5'1"	1.550	5'1"		
M	Overall length	mm	ft in	4.008	13'2"	3.876	12'9"		
M*	Transport length	mm	ft in	4.595	15'1"	4.525	14'10"		
N	Overall height of engine hood	mm	ft in	1.570	5'2"	1.570	5'2"		
0	Minimum ground clearance	mm	ft in	290	0'11"	290	0'11"		
Р	Dozer blade height	mm	ft in	312	1'0"	312	1'0"		
Q		mm	ft in	250	0'10"	250	0'10"		
Q1	Shoe width (rubber)	mm	ft in	300	1'0"	300	1'00"		
R	Ground clearance to superstructure	mm	ft in	554	1'10"	554	1'10"		
S	Front slew radius	mm	ft in	2.002	6'7"	2.002	6'7"		
Т	Front slew radius with maximum offset	mm	ft in	1.555	5'1"	1.555	5'1"		
U	Overall height cab	mm	ft in	2.535	8'4"	2.535	8'4"		
U*	Overall height canopy	mm	ft in	2.505	8'3"	2.505	8'3"		
W	Overall width of superstructure	mm	ft in	1.340	4'5"	1.340	4'5"		
х	Tail slew radius	mm	ft in	750	2'6"	825	2'8"		
X1	Additional counterweight overhang	mm	ft in	75	0'3"	(incl.)	(incl.)		
Y	Angle of approach		0		3	4			
Z	Dozer blade width	mm	ft in	1.550	5'1"	1.550	5'1"		
α,	Maximum boom swing angle to the left		0		7	2			
β ₁	Maximum boom offset to the right	mm	ft in	784	2'7"	784	2'7"		
α2	Maximum boom swing angle to the right		0		5	6			
β,	Maximum boom offset to the left	mm	ft in	496	1'8"	496	1'8"		

¹: Option

Equipment

STANDARD EQUIPMENT	STANDARD EQU
Engine	Cab
Low emission, water-cooled, Volvo 3-cylinder diesel engine, meeting EU Stage V environmental regulations.	Certified FOPS Certified TOPS
Engine restart prevention system. Starter motor is protected against	Certified ROPS
ignition when engine is already running.	Cushioned oper
Dry-type single element air filter.	Large door acce
Plastic fuel tank with drain plug.	Large and room
Protective strainer on the fuel succion pipe inside the tank.	Gas-strutt assis
Water separator.	Full opening from
Translucent fuel filter.	Front windscree
Drivetrain	Right hand side
Axial piston hydraulic motors equipped with an epicyclic reduction gears.	Flat toughened
Automatic two speed travel.	Heating systems
Bottom flanged rollers lubricated for life.	Multiple adjusta
Grease tensioning wheel lubricated for life.	Filtered air inlet.
Electric / Electronic control system	Toolbox with int
Maintenance free battery.	Cab inside light.
IP67 protected electrical system and high quality connectors.	Seat-belt with w
Protected battery cut-off switch.	Right rear-view
In-cab 12V power socket.	Two working lig
Swing System	Cup holder.
Radial piston hydraulic motor with direct engagement on the ball internal crown wheel (no reduction gears).	Phone holder.
Integrated shockless valve.	Provision for a ra
Automatic multi-disc spring applied hydraulic released slew brake.	Digging equipm Monobloc box w
Centralized and remote lubrication of crown wheel & ball bearing.	
Undercarriage	Boom cylinder r Integrated lifting
"X" shape, box welded fabricated frame with sloping side members.	Monobloc box v
2 Tie-down points on the dozer blade.	Long-life steel b
2 Tie-down points on the frame	Hardened, pre-l
2 lifting points on the frame.	50 hours greasi
Sturdy removeable protecting covers for track motors and slew system.	Machine control
400HB weld-on edge on dozer blade.	Finger tip contro
Hydraulic system	Finger tip contro
Plastic tank with drain plug.	Breaker toggle s
Variable displacement, load-sensing piston pump.	Automatic locki
Closed centre flow-sharing main control valve.	console is raised
Cushoning on cylinders:	Engine starting
Boom up	the starter.
Large tiltable oil cooler.	Pressure accum
Patented filtering and filling element.	engine is switch
Double-acting hydraulic circuit for accessories.	High torque / au
Canopy Certified FOPS level 1 on top (Falling Objects Protective Structure).	High speed togo
Certified TOPS level 1 on top (raining Objects Protective Structure).	Large travel ped
Certified ROPS (Roll-Over Protective Structure).	Instrumentation
Cushionned operator station.	Permanent digit
Large and roomy uncluttered floor.	Water temperat Warning lights f
Left hand-rail access.	Self-acting eme
Seat-belt with warning indicator.	coolant overhea
Right rear-view mirror.	Several warning
One working light on the top front.	malfunction (ove
Toolbox with integrated storage for operator's manual and lockeable door.	Official approval
Phone holder.	Machine conform
There holden	Noise emissions
	Hand Arm Vibra

STANDARD EQUIPMENT i level 1 on top (Falling Object Protective Structure). (Tip-Over Protective Structure). (Roll-Over Protective Structure). rator station. ess. ny uncluttered floor. sted front window opening. ont bay with in-cab storage for the front lower window. en wiper and washer nozzle. e sliding window. glass. is with in-cab adjustment of temperature and air flow level. able air vents. tegrated storage for operator's manual and lockeable door. warning indicator. mirror. ghts on top front. radio (antena and electric wiring already fitted) nent weldded fabricated boom. rod protection. g point on the boom. weldded arms with casted ends. bushings. lubricated and corrosion resistant pins. ing intervals. ls rol for boom offset. rol for auxiliary circuit. switch on right joystick. ing device for pilot controls and travel levers when the left safety device: the left console must be raised to operate nulator to lower the equipment on the ground when the hed off. utomatic two speed change over switch on the dashboard. gle switch on the dozer blade lever. dals. n and monitoring ital hour meter. ture and fuel level gauges. for hydraulic filter and air filter restriction. ergency engine shutdown. Prevents failures in case of ating or too low engine oil pressure. g lights, coupled to an audible signal, in the event of verheating, drop in oil pressure, low battery voltage...) rming to European directive 2006/42/EC.

Noise emissions in the environment conforming to directive 2000/14/EC. Hand Arm Vibrations - Whole Body Vibrations compliant with directive 2002/44/EC.

Electromagnetic compatibility (EMC) conforming to European directive 2004/108/EC and its amendments.

Object handling device conforming to EN 474-1 and EN 474-5 standards. FOPS on top level 1 conforming to ISO 10262 standard.

TOPS conforming to ISO 12117 and EN 13531 standards.

ROPS conforming to ISO 3471-1 and / SAE J1040 standards.

OPG 1 conforming to ISO 10262 standard (when equipped).

OPG 2 conforming to ISO 10262 standard (when equipped).

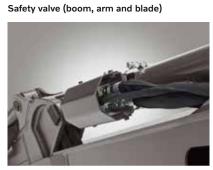
OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Engine	Hydraulic system
Engine auto idling	Proportional finger tip control for boom offset and accessories
Engine auto shut-down with time adjustment	On / Off finger tip control for boom offset and accessories
Dual stage air filter	Accessory flow adjustment
Operator environment	Hammer / shear valve
Canopy	Hydraulic drain for accessories
Cab with heater	Breaker and clamshell auxiliaries
Vinyl or textile seat, low backrest and standard seat belt	Second accessory circuit
Vinyl or textile seat, lumbar asjustment, high backrest and retractable	Flat face hydaulic quick couplings
seat belt	Single acting circuit for hydraulic quick couplers
High visibility 2" orange seatbelt	Double acting circuit for hydraulic quick couplers
3" or 75mm black retracteable seat belt	Boom & arm safety lifting valves with overload indicator
High visibility orange entrance foot step	Boom, arm and dozer blade safety lifting valves with overload indicator
Additional lockeable storage box (behind the seat)	Safety valve certification
ISO / SAE control pattern change	Mineral hydraulic oil VG46
Travel alarm	Bio hydraulic oil VG46 (PANOLIN®)
Radio, AUX, USB, Bluetooth	Mineral hydraulic oil VG68
Anti-theft, code lock	Mineral hydraulic oil VG32
Anti-theft, coded key	Bio hydraulic oil VG32 (PANOLIN®)
Machine exterior	Digging equipment
Left rearview mirror	Short arm 1.200 mm (3'1")
Protected worklight on the boom	Long arm 1.500 mm (4'11")
Rear worklight	Service and maintenance
Rotating beacon, halogen	Tool kit
Warning beacon, flashing LED	Attachments
Halogen worklights	Volvo guick coupler mechanical (pin-on)
LED worklights	Extra pin kit
Additional counterweight	Lehnhoff [®] Quick Coupler Mechanical (MS03)
Front canopy guard (OPG1)	S-type hydraulic quick coupler (S40)
Severe-duty guards for cab or canopy (OPG2, front & top)	General purpose buckets (250 mm (0'10"), 34 L (9 gal) up to 750 mm
Several level of paint customisation (RAL specifications) to match	(2'6"), 119L (31,4 gal))
with your corporate identity	Aggressive cut buckets (350 mm (1'2"), 50 L (13,2 gal) / 550 mm (1'10"
Undercarriage	95 L (25,1 gal))
250 mm / 0'8" rubber tracks	Fix ditching buckets (1.200 mm (3'1"), 125 L (33 gal) / 1.300 mm (4'3"), 141 L (37,2 gal))
300 mm / 0'12" rubber tracks	
300 mm / 0'12" steel tracks	Tiltable ditching buckets (1.200 mm (3'1"), 125 L (33 gal))
	Hydraulic breaker HB03LN
	Hydraulic breaker HB200PLUS
	Telematics

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Specific colours

Anti-theft key





Secondary accessory circuit



LED lights beacon



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