

VOLVO CONSTRUCTION EQUIPMENT
**DEMOLITION
SOLUTIONS**



MORE CARE. BUILT IN.



VOLVO IS YOUR TRUSTED PARTNER FOR COMPLETE DEMOLITION SOLUTIONS.

Demolition. It is a key ingredient in progress. The deconstruction of buildings, bridges and other structures is tough, gritty work. Winning at demolition demands extreme-duty equipment, performance attachments — and a partner to back it all up, shift after shift.

Volvo delivers, with purpose-built demolition excavators, wheel loaders, haulers and more. Trusted solutions for every stage of demolition.

Volvo combines power and performance with altitude in its C-Series Ultra **High Reach (HR) excavators**. With available boom heights from **21 meters to 32 meters**, Ultra **High-Reach** models include the EC360CHR, EC460CHR and EC700BHR. with robust hydraulics, **guarding packages** and ability to work various attachments from 2.5 to 3.5 tons.

For primary and secondary demolition jobs, Volvo has **six Standard Demolition Excavators**, the EC210C, EC240C, EC290C, EC360C, EC460C and EC700C. All models feature **heavy-duty fabrication**, demolition guarding, excellent **visibility** and the industry-leading **Volvo Care Cab**.

Volvo equipment is **engineered for performance** on all types of demolition. Demolishing structures. Sorting and processing **steel beams, rebar, concrete**, wood, tile and more. **Loading and transportation**. Site **remediation** and finishing. Volvo takes you from first stroke to final grade with power, reliability and low cost of operation. Count on it.

Whether you're working Volvo C-Series demolition excavators, wheel loaders, mini-excavators or compact loaders, rely on **clean lines of sight** to the job, **operator comfort** and **protection**, and a **fuel-efficient Volvo powertrain** that perfectly matches engine speed with hydraulic flow to best any demolition task.





• Power and quick cycles for demolition.



• Demolition attachment performance.



• Demolition excavators, wheel loaders — and more.



EXCAVATORS WITH REAL ALTITUDE TAME PRIMARY DEMOLITION JOBS.

Primary demolition is all about reach, power and control. Volvo's line of four Ultra High Reach (HR) excavators have booms from 21-32 meters, high-visibility cabs and smooth, confident hydraulics. Equipped with tools from 2.5 to 3.5 tons, they cut demolition challenges down to size.

Volvo's six Standard Demolition Excavators bring strength, quick cycles, fuel efficiency and superior protection to bear on all your other demolition tasks.

- Choices. You want the **right size machine** to handle high-reach demolition. Volvo has your needs covered with its line of Ultra **High Reach (HR)** excavators:

- EC360CHR 21 m boom
- EC460CHR 27 m boom
- EC700BHR 32 m boom

- Hydraulic **capacity and flow** to power **high-reach attachments** such as **pulverizers, severe-duty grapples, crushers, hammers and shears.** Maximum attachment weight ranges from **2.5 tons** on the EC360C and EC460C, to **3.5 tons** on the EC700B.

- The standard **hydraulically tilting cabin** tilts up to **30 degrees** to enhance visibility and **reduce operator fatigue and neck strain** on high-reach jobs.

- **Excellent stability and safety** throughout the working envelope, thanks to a **long undercarriage**, extra modular counterweight, **boom and arm holding valves**, optional slew-reduction control, and a **Total Moment Indicator** that warns the operator if the machine approaches the maximum safe working load.

- **Productivity-enhancing** features and options include **viscous-mounted and sound-dampened cab**, forward and rear-view **cameras**, and a **reversible fan** to purge the coolers of dust and debris.

- Optional **hydraulically variable undercarriage width** for easier transport and for **optimal stability.**



- Easily change from demolition configuration to straight boom or regular backhoe.

30-minute quick change from demo to backhoe

Total utilization. A innovative design makes it easy to change from the Ultra High Reach boom and arm to a standard backhoe configuration or a straight boom. So your excavator will stay busy even when you don't have high-reach projects.

The Volvo hydraulic modular joint makes this quick change possible. The machine boom engages two full-length pins on the desired equipment — backhoe, straight boom or demolition boom.

A hydraulic joint secures the locking pins, and safety caps are fitted to the ends of each pin to make it ready for operation.

Volvo high-reach excavators come with both the high-reach demolition boom and a digging boom and arm for maximum versatility and uptime. A transportation cradle for both equipment options is also standard.



• Volvo delivers reach and attachment power.



• Strong tear-out forces.



• Stability on uneven ground.



• Control to work in tight spaces.



SECONDARY DEMOLITION, PRIME PRODUCTION.

Extreme conditions. Sharp, jagged, heavy and gritty. Few things in construction put more strain on equipment than moving, sorting, loading and processing demolition debris. Volvo Standard Demolition Excavators have the muscle and the armor to excel at all stages of demolition. You want your jobs done right, done safely and profitably. Volvo gets you there.

- Robust demolition guarding features include a **frame-mounted falling object guard (FOG)**, bolted **side impact protection** system, heavy-duty, **double-thickness side doors**, bucket and boom **cylinder guards** that shield rods, cylinders and piping.

- Undercarriage protection includes full-length **track-chain guards**, thick **10 mm under plating** with bolt-head protection, an 8 mm **swing-ring guard**, and hinged service panels with **recessed hinges** that won't snag on debris.

To lessen the effects of dust and airborne debris, Volvo excavators have **micro-mesh screens** on the side doors and the engine cowl.

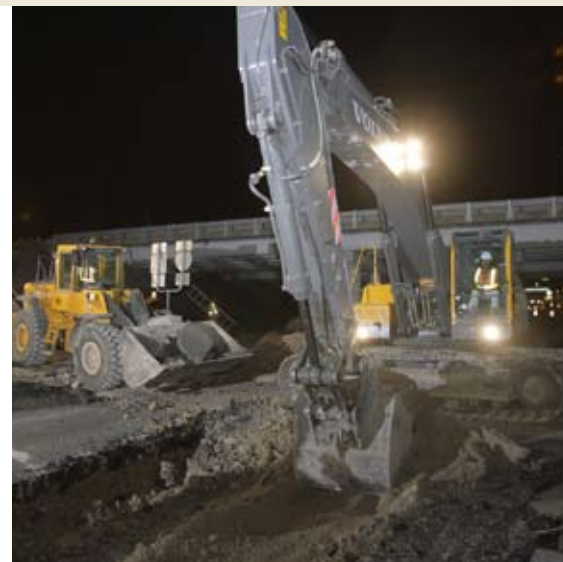
An optional **reversible fan** purges the coolers of debris, enhancing uptime by reducing need to stop the machine for cleaning.

- A **world-class engine and hydraulic system** that perfectly matches hydraulic flow to engine speed. The system ensures hydraulic power when and where it's needed, especially on **combined operations** such as lifting and swinging.

- The **Volvo quick fit** makes it easy to switch **demolition attachments** such as **hammers**, **grapples** for sorting or feeding a crusher, **shears** for cutting or resizing debris, and **pulverizers** for processing concrete and other material. The operator can store and recall **custom hydraulic flow settings** from a keypad in the cab.

Standard demolition machines*		EC210C	EC240C	EC290C	EC360C	EC460C	EC700C
Operating weight, without attachment	kg	22 700	25 900	29 700	37 960	48 000	70 000
Engine		Volvo D6E	Volvo D7E	Volvo D7E	Volvo D12D	Volvo D12D	Volvo D16E
Rated output, at	rpm (r/s)	30 (1 800)	30 (1 800)	30 (1 800)	28 (1 700)	30 (1 800)	30 (1 800)
ISO 9249/SAE J1349, net	kW (hp)	110 (150)	125 (170)	143 (195)	205 (279)	245 (333)	316 (424)
Max. torque	Nm @ rpm	735 @ 1350	870 @ 1800	965 @ 1350	1 660 @ 1 275	1 820 @ 1 350	2 250 @ 1 350
Pump type		2x variable displacement axial piston pumps					
System pressure (attachment)	MPa	32,4 MPa (330 kg/cm ²)					
w. Power Boost (attachment)	MPa	35,3 MPa (360 kg/cm ²)					
Max. flow rate	l/min	2 x 200	2 x 230	2 x 250	2 x 300	2 x 358	2 x 436
Track length	mm	4 460	4 650	4 870	5 180	5 370	5 990
Track gauge	mm	2 390	2 590	2 590	2 740	2 740	3 350
Lifting capacity							
along undercarriage	t	7,1	9,1	10,8	11,3	13,8	20,0
at reach/height	m	6,0 / 1,5	6,0 / 1,5	6,0 / 1,5	7,5 / 1,5	7,5 / 1,5	7,5 / 1,5
Breakout force, SAE	kN	130,4	156,9	173,0	215,0	251,0	301,0

* Figures are with the standard boom/arm combination. Alternate long-arm and ME geometries available.



• Performance for site remediation.



• Stability for compacting and digging debris.



• Frame-mounted FOG protects the operator.



• Micro mesh screens keep particles from coolers.



• Quick cycles for grasping and loading.



• Volvo has complete demolition equipment solutions.



• Harmonized hydraulics for lifting and swinging.



VOLVO DEMOLITION EXCAVATORS: POWER, PRODUCTION & SAFETY.



Tilting cab pivots up to 30 degrees for enhanced visibility and reduced fatigue on high-reach jobs. Standard on Ultra High Reach (HR) models and optional on Standard Demolition Excavator models.



Optional boom-mounted camera boosts productivity on high-reach operations.



Innovative **hydraulic modular joint** uses a **hydraulic lock** mechanism to release digging equipment and **change from high reach** demolition boom to a standard backhoe configuration in **less than 30 minutes**. The feature greatly enhances versatility.



Bucket and boom cylinder guards protect rods, cylinders, HRVs and piping from falling objects. These steel jackets reduce the chance of machine damage and improve uptime on all types of demolition jobs.



Boom-mounted **Total Moment Indicator** provides warning if the HR excavator is approaching maximum safe load.



Volvo hydraulics are ready for a range of demolition **attachments** including **grapples, hammers, shears** and **pulverizers**.



Demolition boom on HR models provides maximum boom pin heights from 21-32 meters.



Swing-ring protection guard jackets the swing ring bearing seal and grease piping from damage by rebar, timber, concrete rubble or other debris.





The **frame-mounted falling object guard (FOG)** protects the operator and cab from wayward debris, enhancing safety and machine uptime.



A **micro-mesh screen** on the doors and engine cowl keeps out fine particles and boosts engine performance.



Double-thickness side doors on both sides of the superstructure protect coolers and pumps in the event of a side impact, and enhance overall machine life.



The bolt-on **side impact protection system** protects the superstructure from damage.



Punched plate is welded to the top of the rail along the cab entrance to provide sure grip for the operator.



Full-length track-chain guards keeps out demolition debris and prevents rebar or other sharp objects from lodging in the tracks. Extendable undercarriage expands by 1 m (3' 3") for increased stability.



Enhanced 8 mm under-guarding of the superstructure and **10 mm guarding under the slew ring**, with bolt-head protection.



VOLVO MEANS RELIABLE PERFORMANCE, SAFETY AND TOTAL CUSTOMER SUPPORT.

For demolition contractors, having great iron is only part of the equation for success on the job site. Customers want more than a machine. They want support. They want solutions. They need to know their equipment — and their brand — will be there. They need to know Volvo.



• Customers rely on Volvo for equipment — and more.

- A **full line** of world-class construction equipment, including tracked and wheeled **excavators, articulated haulers, wheel loaders, backhoe loaders, skid steers** and **compact wheel loaders and excavators.**

- Machines engineered for durability and **reliable performance.** Built-in **safety features** like punched-plate walkways and high-capacity halogen work lights. **Easy machine maintenance** with in-cab monitoring of fluid levels, quick-access filters and grouped grease banks.

- A **global dealer network** that provides **superior customer service** with extended warranties, preventive **maintenance programs,** fleet management, **service contracts** and more.



VOLVO'S LEADERSHIP SPANS LAND, SEA, SKY AND SPACE

As the world's second-largest manufacturer of 9-to 18-liter diesel engines, Volvo has unmatched expertise designing power systems that move the world. Volvo engines for Volvo Construction Equip-

ment, Volvo Aero, Volvo Buses, Volvo Penta and Volvo Trucks define productivity and fuel economy. Our performance has been honed on land, over the sea, across the sky and into space. Leading research and

development keeps all Volvo Group products at the forefront of productivity. So when we say Volvo engines are tested — and proven — you can believe it. Trust in it. It's the real advantage of Volvo Power.





• Experienced field technicians keep you working.



• Trust Volvo for performance and support.



• High-performance parts for long machine life.





Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**



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

Volvo Construction Equipment
www.volvoce.com

PUB 21D1003385
2010.02
Volvo, Global Marketing

English (Global)
EXC