

Progress through Versatility: Liebherr Demolition Excavators.



LIEBHERR



Maximum Economy on Every Project

Whether it's an old building or a bridge, whether it's a factory or a water tower, when it comes to demolition it's the equipment that determines how economical the job is going to be.

1 The Perfect Solution for Every Application

Demolition excavators from Liebherr offer a versatility that provides ultimate performance and that means on every project. Innovative solutions, excellent technical design, and components with long service lives mean that the range of machines and configurations guarantee the best possible results in every aspect of selective demolition.

2 Flexibility from the System Specialists

Liebherr hydraulic excavators have a wide range of accessories and optional tools all ready to be added. This means the machine can be configured to meet any of the specialized demands of demolition. All these components and variants are developed and manufactured exclusively by Liebherr: Perfection, all from one source.

3 Safety Means Success

With demolition excavators from Liebherr, safety means economy too. The best possible stability characteristics, reliable operating performance, and excellent ergonomic design all add up to an absolute advantage when it comes to operational quality and value – plain and simple.





The Perfect Solution for Every Application

1

Liebherr demolition excavators set new standards for efficiency and economy in the industry, and the focus is absolutely on versatility. No matter how varied the circumstances may turn out be, the wide range of models and the wide range of equipment to go with them mean the ideal combination for every situation is easy to find. With the R 934 C, R 944 C, R 954 C, R 974 C, and R 984 C, the right hydraulic excavator can be provided for every size of building and every type of task.

The unique range of extensions, booms, intermediate elements, and demolition stick units allow for best possible performance in every phase of work. Another strength of the Liebherr attachment concept is the flexibility in operation. An attachment change can be executed extremely rapidly and without much effort, which means that the same unit can take on demolition work as well load demolition debris.

Powerful Design

The stable uppercarriage with continuous box beams provide the excavator with an extremely strong foundation, and provides for optimum conducting of the power flow from the unit. This creates a double advantage for the equipment fittings and steel superstructure: High operational reliability and long service life.

Top Quality for Top Performance

The projects may change, but the level of performance stays at the maximum. This is guaranteed by the superb quality of each individual component, quality that makes Liebherr demolition excavators famous the whole world over. Their robust construction, designed to withstand the most extreme conditions, means exceptional availability and performance. Components such as the undercarriage, rotating deck, bearings, bolts, and equipment fittings, are all planned and prepared to withstand extreme stresses and demands over long periods of time. That makes a Liebherr excavator an investment that will pay for itself many times over. And the versatile Liebherr range provides the ideal solution every time, whatever the task may be.

Our Experience - Your Capital Advantage

With more than 60 years of experience in design, construction, operations, and service with demolition excavators, Liebherr can provide you with complete expertise in every situation relating to demolition and selective deconstruction. As a Liebherr customer, you have all this know-how at your disposal, and at any time. Our aim is clear – together with you, we'll find the most economical and most successful way to achieve your goals.



Flexibility from the System Specialists

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The wide range of equipment configurations for Liebherr demolition excavators means complete versatility, and all from one source. The selection extends from demolition with the intention of recycling, through material separation, and up to loading of all kinds. All booms and standard options are manufactured exclusively by Liebherr, and are perfectly matched to one another, right down to the last detail. Thanks to the carefully tailored combination of a basic machine unit and attachment, a total system can be created which provides optimum use with ideal performance and handling qualities. And that is precisely why you can rely on Liebherr in every situation and with every equipment combination; for speed, reliability, and productivity.

Performance Made to Measure

The Liebherr modular system, with different boom lengths and shapes, different bucket stick lengths, and the wide range of versatile operating equipment elements and options all make it possible to configure a unit which precisely meets your specific demands.

Long Live Quality

Thanks to high strength sheet steel and tough cast steel components at all connection points of the attachment components, every piece of the machine will stand up to the hardest conditions, for a long time.

Speed Saves Time and Costs

One particular advantage of the Liebherr concept is that the basic machine, the equipment elements, and the working tools can be assembled and disassembled with minimal effort. This leads to a clear reduction in times and costs in comparison with other systems. Depending on the frequency of the equipment change, Liebherr offers two different interface variants between the basic machine and the operating equipment: There is the mechanically detachable interface making use of expander bolts, and the hydraulic locking and unlocking of the bolts in a way similar to the Liebherr quick-coupling system.

The high-pressure lines between the basic boom and the boom are connected by quick-action couplings. Low-pressure and lubrication lines are gathered together in the Multifast locking system, and can be released or connected by means of a handle. As an option, there is also a multi-coupling system available for high-pressure lines, which again allows for enormous time savings in comparison with quick-couplings when changing equipment.

The Liebherr quick coupler with the positive-fit connection system provides a major time advantage when tools need to be changed frequently. And in order to save even more time when it comes to tool changes, Liebherr can also offer the innovative hydraulic coupling system Likufix to connect up the hydraulic lines.



Safety – the Key to Success

3

Safety for the operator and safety for the excavator on demolition projects has top priority. This is why all Liebherr demolition excavators are provided with a highly developed safety concept, which integrates passive and active components, such as the automatic reach limitation system, and at the same time perceptibly increases the operational value of the machine.

Safety Thanks to State-of-the-art Ergonomics

Liebherr demolition excavators provide the operator with the ideal conditions for relaxed, fatigue-free, and effective work. The special demolition cab is designed in accordance with the very latest ergonomic technology and equipped with comfortable fixtures and fittings to match. This means the operator can concentrate and focus on the work at hand.

- The generously-dimensioned armoured glass in the front and roof windows provides an excellent view of the working area and the surroundings, and the high-strength impact protection adds extra safety.
- The monitor display allows the operator to keep an eye on all important operating status parameters, all the time.
- The design and arrangement of the seat, control system, and display are perfectly matched to each other in an overall ergonomic concept. The cab is also equipped with full climate control.
- The driver's seat is vibration-damped, and can be adjusted to suit the driver's individual requirements. An air-suspension seat is also available as an option.
- Always the best outlook: As an option, Liebherr demolition cabs can also be tilted by 30°.

Liebherr Demolition Control System LDC

These active safety components, ergonomically arranged in the driver's field of view, provide details in real time of the tool position and the standing inclination of the machine. If a critical measured value is exceeded, the LDC automatically activates the electronic reach limitation system. When the limit is reached, the system ensures that no further movements of the equipment elements are possible which might reduce the stability of the excavator.







Maximum Stability

Depending on the size of the machine, a range of different undercarriages are available, rigid or mechanically or hydraulically adjustable. These rugged, heavy undercarriages have a wide stance to ensure optimum stability, letting the operator work in confidence and with precision. This eases the stress not only on the track components but on the machine as a whole. Even on uneven ground, the excavator remains safe and stable in every situation.

Compact for Relocation

For rapid and problem-free transport, the mechanically or hydraulically adjustable undercarriages of Liebherr demolition excavators can be reduced to an outer width which makes transport simpler and even more convenient.

Turning Instead of Maneuvering

As a unique performance feature, Liebherr demolition excavators provide a 360° working radius with absolute stability and consistent reach. This makes for definite time advantages if demolition material needs to be removed from the work area, or a tool change is to be carried out.



Liebherr Demolition Excavators – an

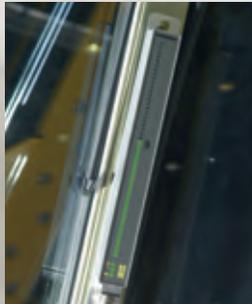
Hydraulic quick coupling system for booms
for rapid change of the working equipment elements (optional, not for R 974 C)



Piston rod protection for boom cylinders
helps to prevent damage to the cylinders (optional - R 954 C and up)



LDC Display
to display the reach limitation in the cab, for maximum safety during demolition work



Integrated protective guards
in two versions, for maximum operator safety (optional)



Demolition cab, 30° tiltable
for an excellent view of the working area and fatigue-free working (optional)

VD-HD undercarriage
Hydraulically-adjustable undercarriage for optimum stability when working and reduced width for transport (optional)



Folding access steps
for easy access and reduced transport width (VH-HD undercarriages only)



Track guide
prevents the track from sliding off when forces are exerted transverse to the direction of travel and simultaneous travel (optional in a number of versions)



Overview



Piston rod protection for tilting cylinder prevents damage to the cylinder



One of three LDC sensors on the attachment for permanent monitoring of the equipment position



Likufix for rapid change of the add-on tools (optional)

Multi-coupling system for high-pressure lines for very rapid change of operational equipment elements within 15 minutes (optional)



Quick release fastenings for high-pressure lines and Multifast locking system for low-pressure lines for easy change of operating equipment



Counterweight can be hydraulically lowered for lowering the weight during transport



Superstructure protection prevents damage to the superstructure



Range of Versatility

Characteristic Data and Demolition Equipment Combinations

R 934 C Litronic

| | | |
|-------------------------------------------|----------------------|--------------------------------|
| Engine output | 150 kW / 202 HP(I)** | |
| Undercarriage variant | S-HD | VH-HD hydraulically adjustable |
| Track gauge | 7'10" | 7'7"-10'6" |
| Reach height at stick end | 63'12" | 63'12" |
| Tool weight at stick end with reach up to | 26'3" 4.400 lb | 5.500 lb |
| Demolition boom | 24'7" | • |
| Intermediate boom | 6'11" | • |
| Demolition stick | 17'1" | • |
| Operating weight | approx. 93.700 lb | approx. 104.700 lb |

R 944 C Litronic

| | | |
|-------------------------------------------|-----------------|---|
| Engine output | | |
| Undercarriage variant | HD-SL | |
| Track gauge | 8'6" | |
| Reach height at stick end | 68'11" | |
| Tool weight at stick end with reach up to | 32'10" 4.400 lb | |
| Demolition boom | 23'11" | • |
| Demolition boom | 30'06" | — |
| Intermediate boom | 7'5" | • |
| Demolition stick | 20'8" | • |
| Operating weight | approx. 48.5 t | |

R 954 C Litronic

| | | | | | |
|-------------------------------------------|--------------------|---------------------------|--------------------|--------------------|-------------------------------|
| Engine output | | | | | |
| Undercarriage variant | HD | V mechanically adjustable | S-HD | HD-EW | V-HDW mechanically adjustable |
| Track gauge | 9' 6" | 7' 10" - 9' 6" | 9' 6" | 11' 12" | 9' 6" - 11' 2" |
| Reach height at stick end | 83' 12" | 83' 12" | 83' 12" | 83' 12" | 83' 12" |
| Tool weight at stick end with reach up to | 39' 4" 5,500 lb | 6,000 lb | 6,000 lb | 6,600 lb | 6,600 lb |
| Demolition boom | 28' 10" | • | • | • | • |
| Demolition boom | 37' 1" | — | — | — | — |
| Intermediate boom | 8' 2" | • | • | • | • |
| Demolition stick | 28' 1" | • | • | • | • |
| Operating weight | approx. 133.400 lb | approx. 140.000 lb | approx. 144.400 lb | approx. 152.000 lb | approx. 159.000 lb |

R 954 C Litronic 111' 7" m

| | |
|-------------------------------------------|---------------------------------|
| Engine output | 240 kW / 322 HP(I)** |
| Undercarriage variant | VH-HDW hydraulically adjustable |
| Track gauge | 9' 4" - 12' 8" |
| Reach height at stick end | 111' 7" |
| Tool weight at stick end with reach up to | 45' 11" 6,600 lb |
| Demolition boom | 47' 7" • |
| Intermediate boom | 8' 2" • |
| Demolition stick | 36' 1" • |
| Operating weight | approx. 188.500 lb |

R 974 C Litronic

| | | |
|-------------------------------------------|----------------------|--------------------------------|
| Engine output | 400 kW / 536 HP(I)** | |
| Undercarriage variant | HD-EW | VH-HD hydraulically adjustable |
| Track gauge | 15' 1" | 11' 2" - 15' 5" |
| Reach height at stick end | 134' 6" | 134' 6" |
| Tool weight at stick end with reach up to | 59' 1" 6,600 lb | 6,600 lb |
| Demolition boom | 55' 9" • | • |
| Intermediate boom | 8' 10" • | • |
| Demolition stick | 44' 3" • | • |
| Operating weight | approx. 280.000 lb | approx. 290.000 lb |

The useful loads on the stick apply to a swing radius of 360°, including quick coupling system, attachment plate, and add-on tool or special attachment.

| 190 kW / 255 HP(l)** | | | | | |
|----------------------|---------------------------|--------------------------------|--------------------|---------------------------|--------------------------------|
| S-HD | V mechanically adjustable | VH-HD hydraulically adjustable | S-HD | V mechanically adjustable | VH-HD hydraulically adjustable |
| 9'6" | 7' 10" - 9' 6" | 7'10" - 10'10" | 9'6" | 7'10" - 9'6" | 7' 10" - 10' 10" |
| 68'11" | 68'11" | 68'11" | 75'6" | 75'6" | 75'6" |
| 5.500 lb | 6.000 lb | 6.600 | 5.000 lb | 5.500 lb | 6.600 lb |
| • | • | • | — | — | — |
| — | — | — | • | • | • |
| • | • | • | • | • | • |
| • | • | • | • | • | • |
| approx. 115.000 lb | approx. 121.300 lb | approx. 129.000 lb | approx. 117.000 lb | approx. 124.000 lb | approx. 131.000 |

| 240 kW / 322 HP(l)** | | | | | |
|--------------------------------|---------------------------|--------------------|--------------------|-------------------------------|--------------------------------|
| VH-HD hydraulically adjustable | V mechanically adjustable | S-HD | HD-EW | V-HDW mechanically adjustable | VH-HD hydraulically adjustable |
| 7' 10" - 10' 10" | 7' 10" - 10' 10" | 9' 6" | 11' 12" | 7' 10" - 10' 10" | 7' 10" - 10' 10" |
| 83' 12" | 91' 10" | 91' 10" | 91' 10" | 91' 10" | 91' 10" |
| 6,600 lb | 2.25 t | 2.25 t | 6,600 lb | 6,600 lb | 6,600 lb |
| • | — | — | — | — | — |
| — | • | • | • | • | • |
| • | • | • | • | • | • |
| • | • | • | • | • | • |
| approx. 164.200 lb | approx. 142.200 lb | approx. 146.600 lb | approx. 154.100 lb | approx. 161.200 lb | approx. 166.700 lb |

R 984 C Litronic *

| | | |
|-------------------------------------------|---------------------------------|-----------|
| Engine output | 504 kW /676 HP(l)** | |
| Undercarriage variant | VH-HDW hydraulically adjustable | |
| Track gauge | 9' 4" - 12' 8" | |
| Reach height at stick end | 121' 5" - 213' 3" | |
| Tool weight at stick end with reach up to | 121' 5" | 13,000 lb |
| Tool weight at stick end with reach up to | 213' 3" | 5,500 lb |
| Operating weight | approx. 485.000 lb | |

* Details at request

** HP(l) according to SAE J1349



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