Liebherr Specialized Machines

for **Demolition**



LIEBHERR

Liebherr Specialized Machines for Demolition









The concept of demolition encompasses many more activities today than in the past. Simple tear down of structures, dismantlement of commercial properties, or deconstruction of buildings with the purpose of reuse and recycle building components are all handled by demolition contractors nowadays. Regardless of the task, each demolition project is unique and careful consideration should be given when selecting the proper equipment. These projects require heavy-duty equipment that is also reliable and versatile – to handle a number of different functions.

Liebherr offers a full line of purpose-built heavy duty demolition equipment and attachments for all stages of the demolition and deconstruction process. Our machines are built from the ground up with Liebherr technologies and components. As a result, Liebherr's high performance machines operate in the toughest demolition conditions here in the United States and around the world. From high-reach demolition excavators and attachments equipped with demolition control software, to industrial loaders and dozers equipped with Liebherr electronics and control systems.

Our goal is clear, at Liebherr, we are passionate about delivering solutions to your demolition challenges and help you succeed.

Demolition Equipment:

Material Handling Machines Crawler Excavators Wheel Loaders Crawler Loaders

Material Handling Machines



Performance

Equipment performance is extremely important in demolition projects. Liebherr material handlers are ideal for wide range of tasks such as: demolition work, loading and unloading trucks and containers, sorting tasks or piling up and moving materials of any kind. Liebherr offers custom solutions and equipment for demolition projects and the tough challenges customers are presented with. The optimal interaction between the hydraulics and electronics ensures fast and powerful movements of the machine for sensitive, and precise work during challenging demolition tasks.

Economy

The new generation of material handling machines are powerful and efficient. Liebherr achieves this difficult balancing act with its own engine technology manufactured in-house which is optimized to meet the requirements of controlled hydraulics. Liebherr relies here on state-of-the-art engine technology with intelligent machine controls that enhance the interplay of the drive components in terms of efficiency. Liebherr-Power Efficiency (LPE) enables machine operation in the area of the lowest specific fuel use for less consumption and greater efficiency with maximum performance.

Reliability

Liebherr material handlers offer stability, smooth operation and feature a sturdy and durable design which is ideal for demolition work. Equipment such as air filters with dust extraction, reversible fans or coarse matrix radiators, have been especially developed for deployment in areas heavily contaminated with dust ensuring maximum reliability under these demanding conditions. Long service life and maximum machine productivity are also assured by the in-house production of all key components such as diesel engine, hydraulic and electronic components, slew ring, swivel drive and steel structure, developed, tested and produced by Liebherr all at the high level of quality one would expect.

Comfort

The newly developed Liebherr cab gives the operator the necessary space and comfort to make the best possible use the machine's capability. Large glass panels, various cab elevations and rear and side cameras provides optimum viewing for the operator of the working area and their surroundings at all times. In addition, the Comfort driver's seat, the intuitive touchscreen color display, central lubrication systems and its working tool provide the necessary comfort for the operator to allow him to concentrate on what is important.

Maintainability

Machine maintenance played an important role in the machine design to ensure short servicing times and reduced maintenance costs. All of the maintenance points are easily accessible due to the large, wide-opening service doors. The enhanced service concept places the maintenance points close to each other and reduces their number to a minimum. This means that service work can be completed faster and efficiently.

Material Handling Machines Overview

Operator's Cab

- Windows made from impactresistant laminated safety glass for maximum safety
- Top and front guards for greatest protection
- Optimum visibility due to large glass surfaces and standard rear and side camera
- Proportional control as standard with 4-way mini joystick for greater precision, high-precision control and functions

Uppercarriage

- Greater fuel efficiency thanks to the latest engine technology with intelligent machine control
- Optimal engine output and high pump flow for fast work cycles and maximum handling performance
- Recycling package with reversible fan, air pre-filter with dust trap and external air conditioning condenser to ensure high performance
- Optimized machine servicing concept, all maintenance points are conveniently located for fast and easy access to minimize machine downtime





Attachment

- Stick with tipping kinematics with sorting grab or demolition shear for further machine versatility
- Long service life due to piston rod protection for hoist, stick and tipping cylinder
- Pipe fracture safety valves on hoist and stick cylinders and retract stick shut-off for maximum safety during every application
- Quick coupling systems and working tools made by Liebherr for maximum machine capacity and greater handling performance

Undercarriage

- Various undercarriage options as mobile or crawler to further increase machine versatility
- Central lubrication system manual or full automatic for more productive working time
- Piston rod protection for support cylinders or protection for travel drive for a long service life of the components
- Less downtime thanks to maintenance free support cylinders

Technical Data

1" 1" 1" 1" 1	39' 4" aprox. 50,000 – 51,100 110/148 Tier 4f LH 30 M Industry Litronic 45' 11" approx. 58,400 – 64,200
5/141 r 4f 26 M Industry Litronic 8" orox. 53,400 – 54,000	110/148 - Tier 4f LH 30 M Industry Litronic 45' 11"
5/141 r 4f 26 M Industry Litronic 8" orox. 53,400 – 54,000	110/148 - Tier 4f LH 30 M Industry Litronic 45' 11"
26 M Industry Litronic 8" orox. 53,400 – 54,000	LH 30 M Industry Litronic 45' 11"
26 M Industry Litronic 8" orox. 53,400 – 54,000	LH 30 M Industry Litronic 45' 11"
8" orox. 53,400 – 54,000	45' 11"
orox. 53,400-54,000	
	approx 58 400 64 200
5/154	appiux. 50,400-04,200
· · · · · ·	140/188
	-
r 4f	Tier 4f
35 M Industry Litronic	LH 40 M Industry Litronic
3"	52' 6"
prox. 67,700-70,300	approx. 80,200-85,300
0/188	155/208
	220
r 4f	Tier 4f
50 M Industry Litronic ¹	LH 60 M Industry Litronic ¹
1"	65' 7"
orox. 88,200-103,400	approx. 121,300-160,100
5/208	190/255
5	334
r 4f	Tier 4f
r	35 M Industry Litronic 3" orox. 67,700 – 70,300 0/188 50 M Industry Litronic 1" orox. 88,200 – 103,400 5/208

		LH 22 C Industry Litronic	LH 30 C Industry Litronic
Reach	ft in	32' 10"	45' 11"
Operating weight*	lb	approx. 46,300-48,900	approx. 59,700-66,600
Engine output (SAE J1349)	kW/HP	105/141	140/188
System performance	kW	-	-
Emission stage	Stage	Tier 4f	Tier 4f
			_
		LH 40 C Industry Litronic	LH 50 C Industry Litronic ³
Reach	ft in	52' 6"	59' 1"
Operating weight*	lb	approx. 82,900-90,200	approx. 117,500-121,000
Engine output (SAE J1349)	kW/HP	155/208	155/208
System performance	kW	220	245
Emission stage	Stage	Tier 4f	Tier 4f
			_
		LH 60 C Industry Litronic ¹	LH 80 C Industry Litronic ²
Reach	ft in	65' 7"	72' 2"
Operating weight*	lb	approx. 114,600-167,100	approx. 146,600-248,000
Engine output (SAE J1349)	kW/HP	190/255	230/308
System performance	kW	334	437
Emission stage	Stage	Tier 4f	Tier 4f

^{*} without working tool

 $^{^{\}rm 1}$ also available as High Rise $^{\rm 2}$ also available as High Rise and Gantry/ $^{\rm 3}$ only available as High Rise

Crawler Excavators



Performance

Liebherr demolition excavators are extremely versatile and provide excellent performance on demolition projects. Liebherr's innovative solutions, equipment design and long service life of components ensure the best possible result.

Economy

Liebherr demolition excavators have a wide range of factory fitted attachments. This means that a wide variety of demolition jobs can be covered with the machine configuration. All of these combinations and components are developed and manufactured exclusively by Liebherr. A one stop shop for your demolition needs.

Reliability

The upper carriage design features a swing ring with a continuous box beam providing a solid and strong structure able to withstand the extreme demands of demolition jobs. Liebherr demolition excavators are extremely reliable and offer a long service life.

Experience

With over 50 years of experience designing and manufacturing equipment and solutions for demolition applications, Liebherr provides customers with complete expertise in every demolition and deconstruction application. Together with you, we'll find the most cost-effective and successful way to achieve your goals.

Comfort

Liebherr demolition excavators are designed to provide a comfortable, fatigue-free, and effective working environment. The cab is specially designed in accordance with the very latest ergonomic technology and equipped with comfortable fixtures and fittings. This means the operator can concentrate on the task at hand and provide his best performance for hours on end.

High Reach Machines Overview

LDC System

Liebherr Demolition Control monitors the positioning of the demolition equipment at all times ensuring the stability of the high reach

30 Degree Adjustable Cab

for operator's comfort and increased visibility

Removable Counterweight

for easy transportation (optional: hydraulic version)





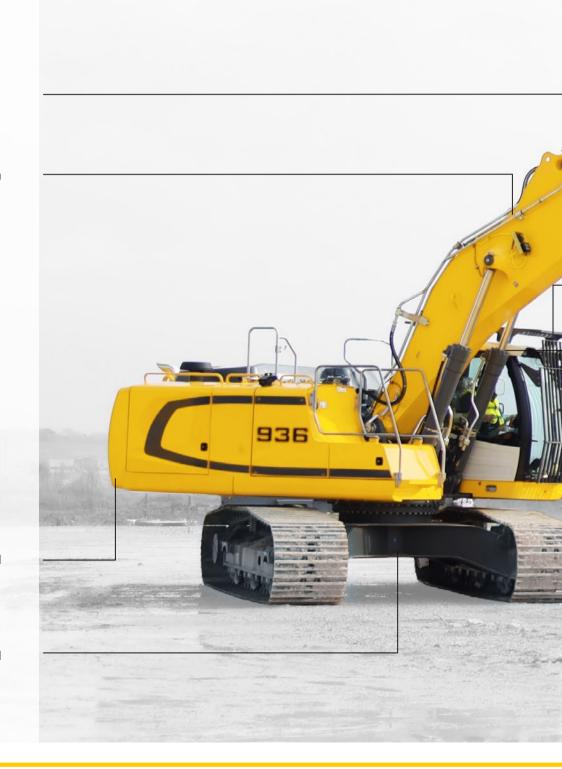
High Reach Machines Overview

Larger diameter steel piping for demolition work

Straight Boom: for increased reach

Uppercarriage Guarding: Additional 4" Steel Protection around and under uppercarriage

Undercarriage Guarding: Additional 4" of steel on the underbelly of the undercarriage





Bucket Cylinder Protection: Cylinder rod fully protected in all working positions (Hoist Cylinder Protection optional)

Impact Resistant Glass for increased security

Casted Machine Parts on high stress points on boom and stick for added durability

Front & Top Guards: Variety of top & front guards available for protection

Technical Data

		R 950		R 960			
Working height	ft in	73' 10" – 95' 2"		96' 9"-108'	96' 9"-108' 3"		
Operating weight	lb	117,070-163,360		170,420-21	170,420 – 215,390		
Engine output (SAE J1349)	kW/HP(I)	200-268		250-335	250-335		
Emission stage	Stage	Tier 4 Final		Tier 4 Final			
		R 914 Compact	R 918	R 920 Con	npact I	R 922	
Engine torque	lbf ft	-	503 at 1,400 rpm	503 at 1,400	rpm 5	503 at 1,400 rpm	
Operating weight	lb	36,000	49,000	42,880		51,480	
Engine output (SAE J1349)	kW/HP(I)	90 – 121	120 – 161	110 – 148	1	120-161	
Emission stage	Stage	Tier 4 Final	Tier 4 Final	Tier 4 Final	1	Tier 4 Final	
	_		_	_			
		R 924	R 926 Compact	R 926	l I	R 936	
Engine torque	lbf ft	503 at 1,400 rpm	503 at 1,400 rpm	896 at 1,100) rpm	922 at 1,100 rpm	
Operating weight	lb	54,015	57,760	60,850	7	74,030	
Engine output (SAE J1349)	kW/HP(I)	129-173	129 – 173	140 – 188	1	170 – 228	
Emission stage	Stage	Tier 4 Final	Tier 4 Final	Tier 4 Final	1	Tier 4 Final	
		•	_	_	_	_	
		R 936 Compact	R 946	R 956	R 966	R 976	
Engine torque	lbf ft	1,068 at 1,100 rpm	1,453 at 1,000 rpm	1,682 at 1,000 rpm	2,028 at 1,100 r	rpm 2,200 at 1,200 rpm	
Operating weight	lb	75,650	91,700	119,380	158,510	202,820	
Engine output (SAE J1349)	kW/HP(I)	190 – 255	220 – 295	240 - 322	320 - 429	400 – 536	
Emission stage	Stage	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	

Examples of Use







Wheel Loaders



Performance

The powerful Liebherr wheel loaders L 526 – L 580 XPower® are used in every stage of selective deconstruction, as well as in recycling of building materials and at processing facilities. Liebherr wheel loaders are versatile and offer excellent handling capacity in demolition sites. Customers are able to choose between Z-bar linkage or industrial lift arm/parallel linkage depending on their needs. This ideal machine configuration is created for specific loading and transportation of construction and demolition waste or feeding a crusher plant with building debris. The versatility of the linkage choice ensures that the customer can decide which attachment is right for them, enhancing efficiency and productivity.

Economy

The innovative drive concepts of the Liebherr wheel loaders reduces fuel consumption by 30%. The drive concept also creates minimal tire and brake wear at the maximum handling capacity. This feature is highly beneficial in reducing fuel consumption and servicing costs for customers.

Reliability

Liebherr wheel loaders components are designed in-house to work in synergy with the machine and meet Liebherr's high quality standards.

Comfort

The modern, ergonomic cab design provides the maximum comfort level to operators, allowing productivity to become the main focus. The cab's control lever allows accurate control of the machine, ensuring safe and precise operations. Overall visibility is presented to the operator through the large surrounding cab windows. These features provide safety, comfort and productivity during applications, which benefit the customer.

Maintainability

The Liebherr wheel loaders feature easily accessible service points for fast maintenance.

Wheel Loaders L 526-L 580 XPower® Overview

Maximum Operator Comfort for Greater Productivity

- Automatic central lubrication system (optional)
- Premium display (Touchscreen)
- Liebherr control lever with mini joystick (optional)
- Joystick steering or 2-in-1 steering (optional)
- Ride control (L 526-L 546 optional/L550-L580 as standard)
- Preparation for protective ventilation and dust filtration device (optional)

Highest Level of Performance

- Industrial lift arm/parallel linkage or Z-bar linkage (L 526-L 566 and L 580 optional)
- · LIKUFIX quick hitch (L 526-L 546 optional)
- Comprehensive range of special equipment for demolition applications (optional)

High Quality and Rugged Design for Machine Durability

- Tilt cylinder protection (optional)
- Lamp carrier in steel design (L 526-L 546 as standard/L 550-L 580 optional)
- Guard for headlights (optional)
- Special tires for demolition application (optional)





Productive and Safe Working

- Soundproof ROPS/FOPS cab
- Windscreen guard (optional)
- Additional working lights, front/rear (optional)
- Adaptive working lighting (optional)
- Roof camera for front area monitoring (with Liebherr camera via Liebherr display) (optional)
- Skyview 360° (optional)
- Safe, non-slip ladder access to cabin

Short Service Times for Greater Productivity

- Radiator easy to maintain
- Fluff trap for radiator (optional)
- Large-mesh radiator (optional)
- Reversible fan drive (optional)
- Air pre-cleaner (optional)

Productive and Safe Working

- Anti-slip steps and sturdy handrails
- Rear space monitoring camera via Liebherr display
- Reversing obstruction detector with smart alarm (optional)

High Quality and Rugged Design for Machine Durability

- Crash protection, rear (optional)
- Chassis protection (optional)
- Widening for mudguard (optional)

Technical Data

		L 526	L 538	
Tipping load	lb	14,350-17,085	17,020-20,060	
Bucket capacity	yd ³	2.7-7.2	3.0-8.5	
Operating weight	lb	27,820 - 30,180	30,645-33,070	
Engine output (ISO 14396)	kW/HP(I)	100/134	111/149	
Emission stage	Stage	IV/Tier 4f	IV/Tier 4f	
		L 546	L 550 XPower®	
Tipping load	lb	18,080-21,495	20,505-24,470	
Bucket capacity	yd ³	3.3-9.8	3.9-11.8	
Operating weight	lb	31,525-34,835	41,225-44,755	
Engine output (ISO 14396)	kW/HP(I)	120/161	140/188	
Emission stage	Stage	IV/Tier 4f	IV/Tier 4f	
		L 556 XPower®	L 566 XPower®	
Tipping load	lb	23,150-27,335	26,675-33,070	
Bucket capacity	yd ³	4.3-13.1	4.6-15.7	
Operating weight	lb	42,990-46,740	54,675-59,305	
Engine output (ISO 14396)	kW/HP(I)	165/221	200/268	
Emission stage	Stage	IV/Tier 4f	IV/Tier 4f	
	I	L 580 XPower®		
Tipping load	kg	32,630-39,130		
Bucket capacity	m ³	5.9-18.3		
Operating weight	kg	61,840-66,360		
Engine output (ISO 14396)	kW/HP(I)	230/308		
Emission stage	Stage	IV/Tier 4f		

L 526 - L 546 correspond to the data in parallel linkage incl. quick coupler and L 550 XPower® - L 580 XPower® correspond to the data in industrial lift arm incl. quick coupler.

Examples of Use









Crawler Loaders



Performance

Used in demolition applications, the crawler loader is a highly versatile machine. Applications range from moving and loading material to tearing down structures or cleaning up once the job is done. Due to its robust heavy duty, tracked undercarriage the crawler loader can be used on almost any type of terrain. Its high mobility including the possibility to turn on the spot combined with the unparalleled breakout force, makes the crawler loader a key machine in demolition applications.

Economy

For smaller demolition projects where room is tight and the job has to be done efficiently; the crawler loader is the ideal machine. On larger job sites, crawler loaders can be used to support other equipment such as high reach demolition excavators. Operation costs are minimized with the Liebherr crawler loader; due to the reasonable purchase pricing and very low fuel consumption.

Reliability

Liebherr offers a wide range of guarding options that protect the machine even in the most demanding applications. Options range from guarding packages against rebar and other metal debris, heavy dust and falling objects. The crawler loader and protective gear are engineered for the operation in heavy-duty demolition applications based on industry requirements and customer feedback.

Comfort

The Liebherr crawler loaders are equipped with an industry leading, spacious cab that provides the best visibility to the attachments so the operator can focus on the job at hand. The single joystick control or optional V-pattern controller with foot pedal steering allow for a precise and smooth operation even on the roughest terrain.

Maintainability

Liebherr crawler loaders are built for maximum uptime. All service points are easily accessible from the ground and designed to keep maintenance cost to a minimum.

Crawler Loaders Overview

High Performance and Easy Handling

- Single-lever control including the "turning on the spot" function
- Optional "V-lever" version plus foot pedal steering
- Tough Z-kinematics lifting frame and buckets made of high-grade
- Multi-purpose bucket for pushing, excavating, loading and cleaning
- Variably adapted teeth and cutting segments

Durable Design

- · Heavy duty tilt cylinder guard for protection from falling objects
- Lift cylinder guards for best protection of hydraulic lines and cubes
- Steel container protection for the hydraulic tank and AdBlue (DEF)
- Seal between basic unit and cab and engine compartment seals
- · Heavy duty radiator guard and reversible swing out fan for easy cleaning





Safety and Visibility

- Integrated, internationally certified roll-over and rock protection structure (ROPS/FOPS)
- Impact resistant polycarbonate screen for best visibility
- Protective grid for rear window
- Effective sound insulation and pressurized cab for a dust-free environment

Maximum Undercarriage Life

- Highest reliability trough wear-free hydrostatic travel
- Double mechanical seals with leak monitoring plus additional protection rings
- Rear striker bars to keep debris from being picked up with the tracks
- Optional full-length track guard

Technical Data

		LR 626	LR 636
Operating weight	lb	36,081 – 37,955	46,460-48,235
Bucket capacity	yd ³	1.96-2.35	2.75-3.14
Engine output (ISO 9249)	kW/HP(I)	105/143	135/184
Emission stage	Stage	IV/Tier 4f	IV/Tier 4f

Examples of Use





Liebherr Dealers



Alabama

Heavy Machines Inc. www.heavymachinesinc.com Mobile 2 (888) 366-9028 Birmingham 2 (205) 323-6108

Arizona

Bejac Corporation www.bejac.com Phoenix 2 (800) 77-Bejac

Arkansas

Lift Truck Service Center, Inc. www.ltscforklift.com Little Rock 2 (501) 590-5821 Springdale 2 (479) 756-6231 Russelville 2 (479) 967-3548 Van Buren 2 (479) 474-0289

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Mechanicsburg

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Power Equipment Company www.power-equip.com West Jordan 2 (801) 280-4105

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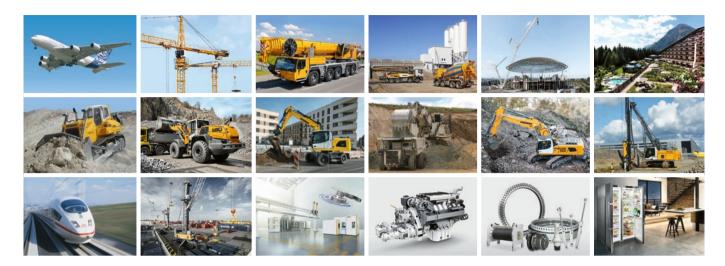
RECO Equipment, Inc. www.recoequip.com

Wyoming

Power Equipment Company www.power-equip.com Casper 2 (800) 883-9275

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The Liebherr Group of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's quality products and services hold a high reputation in many industries. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer customers the highest benefits in practical applications.

State-of-the-art Technology

Liebherr attributes great importance to the product areas of core technology and components, in order to achieve its consistent, top-quality products. Important modules and components are developed and manufactured in-house, for instance, the entire drive and control technology for the construction equipment and mining trucks.

Worldwide and Family-Owned

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with nearly 44,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.us