



E60.1

Compact & Flexibel

**POWERED
BY LIMACH**

We are Limach!

Limach started developing electric excavators back in 2017. There was initial skepticism in the market about the feasibility of electric excavators, but Limach's drive to improve pushed us forward.

Better for all of us. At Limach, we believe in sustainable technology that we apply smartly and creatively to existing concepts. From day one, Limach chose to work with the quality of Volvo machines, producing a first-class product fueled by Limach's ambition and creativity. It's no wonder our slogan is: **Powered by Limach!**

At Limach, we think carefully about our concepts. Unbound by existing ideas, our engineers develop the best and most accessible solutions. Since our machines weigh 6 tons and above, we've introduced a battery exchange system. All mini excavators are available with various battery packs tailored to your specific tasks.





 **LIMACH®**

FULL ELECTRIC

E18.3

Member of the Volvo Group



Since 2022, Volvo Construction Equipment has held a majority stake in Limach. This partnership has injected new energy into the collaboration between the two manufacturers, with a focus on efficiency and sustainability. Volvo builds the base machine without any diesel components, and the machine is delivered as a semi-finished product to the Limach factory, where it is fully converted to electric. This process eliminates unnecessary time and material waste. A jointly developed concept is now available for you, built on a Volvo foundation and powered by Limach!



Battery pack

The Limach E60.1 is equipped with a powerful 90 kWh battery pack, delivering hours of continuous operation. Thanks to its smart swap system, the battery pack can be exchanged quickly and easily, keeping you productive at all times. Weighing approximately 1,000 kg, the battery pack is easy to handle and highly versatile. It can be charged via a mains connection, charging container, or public charging station—so you're always ready for the next job.





Safety & quality

Naturally, we pay great attention to the safety of our electric machines. A major benefit of Limach machines is that we use a low-voltage system, ensuring safety for both you and us.

Limach is committed to quality, ensuring minimal downtime for your machine. We only use standardized components and follow the latest regulations. During regular maintenance, we inspect vital mechanical and electrical parts of your machines.

The E60.1 in detail

The Limach E60.1 combines powerful performance with cutting-edge electric technology. Equipped with a 90 kWh battery pack, this machine delivers hours of uninterrupted operation. Thanks to the smart swap system, the battery can be exchanged quickly and easily, keeping you productive at all times. With intuitive controls and flexible charging options, the E60.1 is the ideal choice for sustainable and efficient work.



Features and benefits

CO₂-neutral operation

Charge using renewable energy sources and work completely CO₂-neutral on-site.

Low operating costs

Thanks to the electric motor and efficient battery packs, you save on both maintenance and running costs.

Advanced hydraulic system

Perfectly matched to the electric motor for fast, smooth, and efficient performance.

Stable and reliable

Robust construction and optimal weight distribution ensure stability and safe operation, even on challenging terrain.

Spacious, comfortable cab

The E60.1 features a cab that is 10% larger, offering more comfort and freedom of movement during long working hours.

Powerful climate control

With seven ventilation outlets for rapid heating or cooling, the system boosts operator comfort and productivity.

Easy battery swap

Thanks to the integrated swap system, operators can easily replace a depleted battery without additional equipment or extra costs.

Work while charging

Continue working while the next battery pack charges—no need for high-power fast charging on-site.

Smart and flexible charging

Avoid peak loads and charge at the most cost-effective times. Choose the charging method that best suits your worksite: mains connection, charging container, or public charging station.

No more CO2 emissions

Clean, quiet, and usable everywhere. Fully emission-free, higher efficiency from the electric motor, and a low noise level). Usable for demolition and renovation work in buildings, urban areas with environmental zones, nighttime repairs, and more. Limach offers endless possibilities.

Hydraulic system

The proven Volvo hydraulic system combined with Limach's electrical engineering ensures efficiency and working comfort. The rear-positioned lift cylinder reduces the risk of damage and downtime.



Superior operating environment

The ergonomic, spacious, and safe cabin is characterized by excellent all-around visibility, intuitive controls, and comfort.

Low maintenance costs

With no need to change oil, filters, or other parts related to the diesel engine, maintenance costs are reduced.

Chargeable everywhere

Can be charged via a standard 230 V socket and 400 V three-phase power. The machine can also be charged at a public charging station.



Undercarriage

The durable and robust X-shaped undercarriage provides superior stability and extends the machine's lifespan.

Service

The Limach service network consists of specialists with years of experience in earthmoving equipment. Your local dealer or distributor has the expertise to maintain and repair your machine when needed. The Limach team supports your local service partner with specialist knowledge if necessary, ensuring you receive the right service on-site.



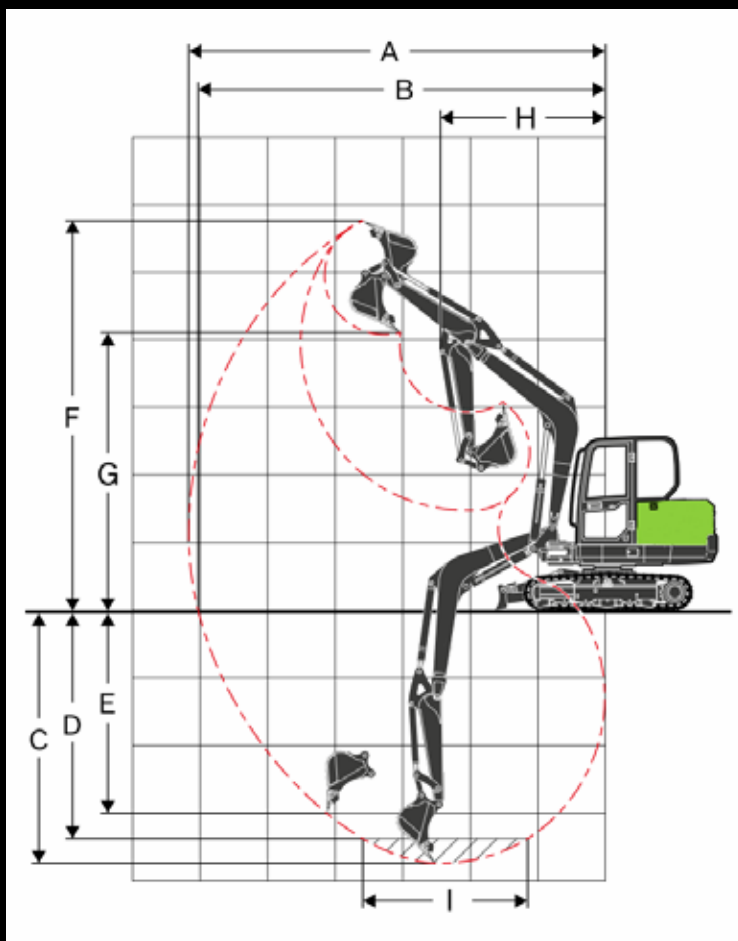


Connect & support

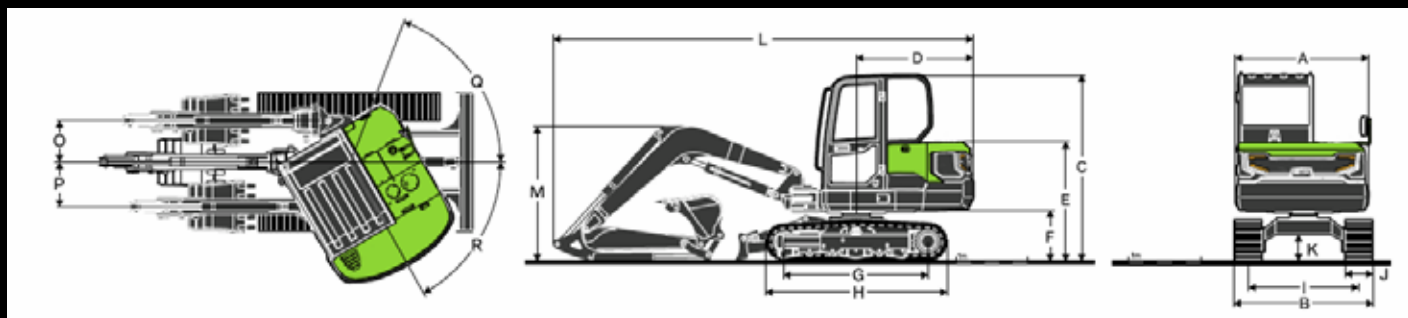
Limach is always connected to your machine. Although the electric mini excavator has far fewer moving parts, you want to be sure your machine is up and running. With Limach Connect & support, your machine is monitored by Limach specialists. If something happens that could lead to a breakdown, Limach proactively contacts you to discuss and decide on the actions needed to avoid downtime.

Specifications

Dimensions E60.1

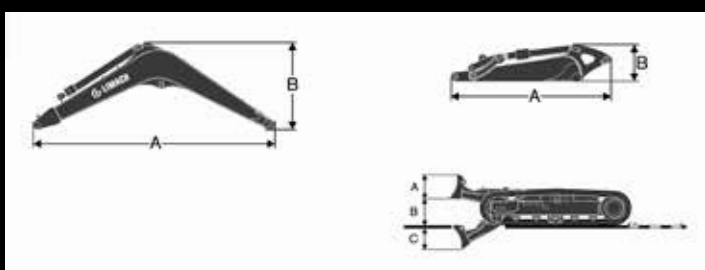


Working range				
Boom		m	3.0	
Arm		m	1.6	1.9
A	Maximum digging reach	mm	6.105	6.395
B	Maximum digging reach at ground level	mm	5.970	6.260
C	Maximum digging depth	mm	3.695	3.995
D	Maximum digging depth (l=2440mm level)	mm	3.295	3.640
E	Maximum digging depth for vertical wall	mm	2.625	2.990
F	Maximum cutting height	mm	5.695	5.885
G	Maximum dumping height	mm	4.150	4.340
H	Minimum front swing radius	mm	2.465	2.470



Dimensions

Boom		m	3.0	
Arm		m	1.6	1.9
A	Total width with superstructure	mm	1 845	1 845
B	Overall width	mm	1 920	1 920
C	Overall height to cab	mm	2 584	2 584
D	Rear swing radius	mm	1 650	1 650
E	Overall engine hood height	mm	1 630	1 630
F	Ground clearance to upperstructure	mm	671	671
G	Wheelbase	mm	1 990	1 990
H	Undercarriage length	mm	2 500	2 500
I	Track gauge	mm	1 520	1 520
J	Track shoe width	mm	380	380
K	Minimum ground clearance	mm	350	350
L	Overall length	mm	5 800	5 865
M	Overall boom height	mm	1 854	1 978
O	Maximum boom offset (R)	mm	684	684
P	Maximum boom offset (L)	mm	755	755
Q	Maximum boom swing angle (R)	°	80	80
R	Maximum boom swing angle (L)	°	50	50



Dozer blade

A	Height	mm	350
	Width	mm	1.920
B	Lift height	mm	351
C	Digging depth	mm	446

Boom and Arm

Boom including cylinder, hoses, and pin

Arm including cylinder, hoses, and pin

Boom		m	3.0	1.6	1.9
A	Length	mm	3.110	2.102	2.402
B	Height	mm	1.192	488	497
	Width	mm	336	300	300
	Weight	kg	378	168	181

Specifications

Details E60.1

Electric system		
Battery type		Lithium-ion
Battery voltage	V	104
Battery capacity (pack)	kWh	90
Internal battery	kWh	10
Auxiliary battery voltage	V	12
Runtime	uur	tot 4
Charging time		
With 400V AC	uur	tot 9
Electric motor		
Motor type		Permanent magneet
Motor power (peak)	kW	85
Motor power (continuous)	kW	45
Operating mode max./standard	r/min	2900
Operating mode max./boost	r/min	3100
Swing system		
Max. swing speed	r/min	8,7
Max. swing torque	kNm	12,3
Travel system		
Max. tractive force	kN	52,8
Max. travel speed (low)	km/h	2,7
Max. travel speed (high)	km/h	4,4
Hydraulic system		
Max. flow rate (main pump)	l/min	2x60,5
Max. flow rate (gear pump)	l/min	1x35,2
Max. flow rate for 2nd auxiliary circuit (optional)	l/min	24,6
Max. working pressure	Mpa	29,4
Fluid capacities		
Hydraulic system, total	l	120
Hydraulic tank	l	76
Undercarriage		
Lower rollers		2x5
Upper rollers		2x1
Track shoes		2x39

Digging performance			
Boom	m	3.00	
Arm	m	1,6	1,9
Bucket breakout force (ISO)	kN	43,3	43,3
Arm breakout force (ISO)	kN	28,8	25,4
Bucket rotation angle	°	196	

Weight and ground pressure

Boom 3.0 m, Arm 1.6 m	Shoe width (mm)	Operating weight (kg)	Ground pressure (kPa)
Steel tracks			
Rubber tracks	380	6 697	40,88
Rubber pads	500	6 799	31,54
Boom 3.0 m, Arm 1.9 m	400	6 550	37,98
Steel tracks	400	6 869	39,83
Rubber tracks			
Rubber pads	380	6 747	41,19
	500	6 849	31,78
Rubberen rupsen	400	6 600	38,27
Rubberen pads	400	6 919	40,12





Curious about this and other machines in our range?
Visit our website or get in touch with us!

ADRES

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