



E27.3

Productive & efficient

**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. From 6 tonnes operating weight, Limach machines are equipped with the unique Battery Swap System. All mini excavators are available with various battery packs tailored to your specific tasks.



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

Our machines are equipped with a powerful electric motor powered by high-quality NCM batteries. The number of battery modules determines the machine's operating time. We offer various capacities and configurations in battery packs.



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 E27.3 in detail

The E27.3 combines power and versatility with an operating weight of 2,990 kg, providing excellent stability. Equipped with a battery pack ranging from 30 to 50 kWh and a 9.9 kW onboard charger, this machine offers a zero-emission solution for sustainable projects. Thanks to its reduced noise levels and the absence of harmful emissions, the E27.3 is designed to operate safely in any environment. With intuitive controls and a comfortable operator experience, the E27.3 delivers outstanding performance on any jobsite, enabling you to tackle demanding tasks with ease.



Features and benefits

Powerful performance

With increased digging force and a strong lifting capacity, the E27.3 delivers outstanding performance, even in demanding applications.

Flexible charging options

Charge via a standard 230V outlet, three-phase power connection, charging station, charging container, or mobile battery pack, depending on your site conditions.

Expandable battery capacity

The battery capacity can be expanded at any time, allowing the machine to adapt to your changing operational needs.

Stable and reliable

With an operating weight of 2,990 kg, the E27.3 offers exceptional stability, ensuring safe and efficient operation, even on challenging terrain.

Water-cooled electric motor

Delivers reliable performance, even in high ambient temperatures and during intensive operations.

Precise and smooth control

Proportional control of the auxiliary functions enables highly accurate adjustment of speed and power, allowing hydraulic attachments to be operated with maximum precision.

Standard 9.9 kW onboard charger

The integrated 9.9 kW onboard charger provides maximum flexibility, allowing you to charge the machine without an external charger in as little as 4 to 6.5 hours, depending on the battery capacity.

Compatible with attachments

Thanks to its powerful electric drivetrain, extensive battery capacity, and efficient cooling system, the E27.3 can easily operate attachments such as breakers, tiltrotators, and sorting grapples.

Optional: Plugged-in operation

With the optional 'Plugged-in operation' (continuous charging) feature, the machine can be charged while operating, allowing you to keep working without interruption.

No more CO2 emissions

Fully zero-emission, with the efficiency of an electric drivetrain and exceptionally low noise levels. Ideal for demolition and renovation inside buildings, urban projects in low-emission zones, nighttime maintenance work, and many other demanding applications. With Limach, the possibilities are virtually limitless.

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.

Hydraulic system

The proven Volvo hydraulic system, combined with Limach's electric technology, ensures maximum efficiency, reliability, and operator comfort.

Charging and operating at the same time

The 'plugged-in operation' (continuous charging) option allows simultaneous working and charging.

Superior operating environment

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

8 hours of operation

With various battery configurations, the Limach E27.3 can provide up to 8 hours of operating time.



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.



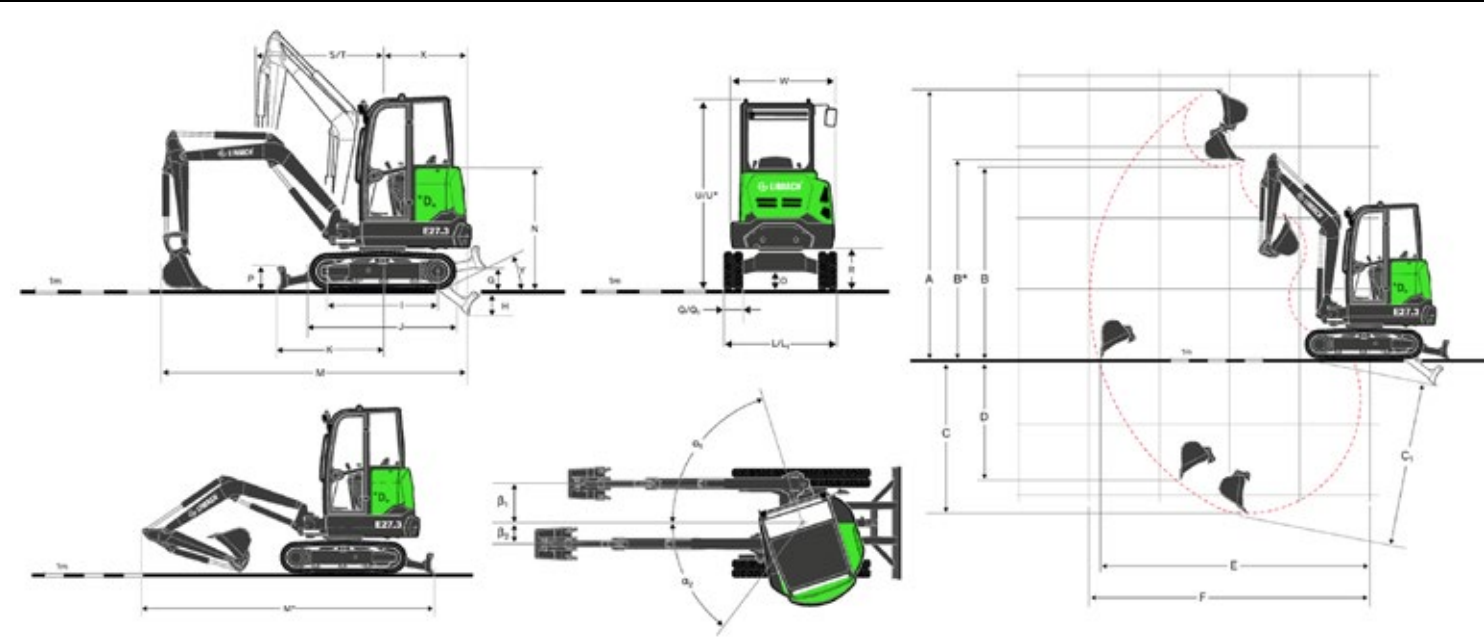
Specifications E27.3

Dimensions & specs E27.3

Description		
Electric system		
Battery type		Lithium-ion
Battery voltage	V	88
Battery capacity	kWh	30
	kWh	40
	kWh	50
Auxiliary battery voltage	V	12
Indicative runtime (30 kWh)	hours	up to 5
Indicative runtime (40 kWh)	hours	up to 6,5
Indicative runtime (50 kWh)	hours	up to 8
Charging time		
With 400V AC (30 kWh)	hours	up to 4
With 400V AC (40 kWh)	hours	up to 5,5
With 400V AC (50 kWh)	hours	up to 6,5
Electrical motor		
Motor type		Permanent magnet
Motor power (peak)	kW	30
Motor power (continuous)	kW	13
Operating mode max. / standard	r/min	2.200
Operating mode max./ boost	r/min	2.400
Swing system		
Max. slew speed	r/min	10,1
Max. slew torque	kN	4,9
Travel system		
Max. drawbar pull	kN	25
Max. travel speed low	km/h	2,4
Max. travel speed high	km/h	4,1
Digging performances		
Bucket breakout force (ISO)	kN	24,6
Short arm tearout force (ISO)	kN	18,1
Long arm tearout force (ISO)	kN	15,4

Hydraulic system			
Max. system flow	l/min		65
Max. flow voor accessoires	l/min		50
Max. flow for accessories (optionel)	l/min		23
Max. operating pressure	Mpa		25
Weight and ground pressure			
Operating weight ISO 6016	kg		3.065
Ground pressure (cabine)	kPa		31,66
Ground pressure (canopy)	kPa		30,74

	Unit	Value
Transport weight	kg	2.990
With canopy	kg	-90
With long arm	kg	12
Heavy counterweight	kg	100
Hydraulic system capacity		
Hydraulic system, total	l	33
Hydraulic tank	l	23
Undercarriage		
Bottom./top rollers per side		3 / 1
Track tension		By grease piston
Blade (width x height)	mm	1.550 x 312



Description	Unit		
Arm	mm	1.200	1.500
A	mm	4.333	4.598
B	mm	3.092	3.209
B*	mm	3.198	3.280
C	mm	2.486	2.859
C*	mm	2.715	3.088
D	mm	1.959	2.601
E	mm	4.295	4.665
F	mm	4.427	4.786
G	mm	401	
H	mm	422	
I	mm	1.440	
J	mm	1.906	
K	mm	1.365	
L	mm	1.550	
L1	mm	1.500	
M	mm	3.933	3.811
M*	mm	4.400	4.295
N	mm	1.571	
O	mm	290	
P	mm	312	
Q	mm	300	
Q1	mm	250	
R	mm	559	
S	mm	1.712	1.759
T	mm	1.346	1.389
U	mm	2.535	
U*	mm	2.505	
W	mm	1.340	
X	mm	1.230	
Y	°	31	
Z	mm	1.550	
α1	°	72.5	
β1	mm	542	
α2	°	53	
β2	mm	279	





Curious about this and other machines in our range?
Visit our website or contact us!

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