LIMACH®
MEMBER OF THE VOLVO GROUP

E27.1

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. 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

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 E27.1 in detail

The E27.1 combines power and versatility with an operating weight of 2,990 kg for optimal stability. Equipped with a battery pack of 30 to 50 kWh and a 9.9 kWh battery charger, this machine offers an emission-free solution for sustainable projects. Thanks to the reduced noise output and the absence of harmful emissions, the E27.1 is designed to operate safely in any environment. With intuitive controls and comfort for the operator, the E27.1 performs well on any terrain, allowing you to tackle large jobs with ease.

Features and benefits

Powerful performance
With over 42 kN of digging force and strong lifting capacity, the E27.1 delivers excellent performance, even on heavy jobs.

Stable and reliable
With an operating weight of 2,990 kg, the E27.1 offers exceptional stability, ensuring safe and efficient operation even on challenging terrain.

Efficient operation with fewer loading moments
Thanks to the wide working range, you need to reposition the machine less often, allowing for faster and more efficient work.

Precise, smooth control
The proportional fingertip control and the ability to adjust hydraulic flow rate and power precisely make every task simple and accurate.

Standard with 9.9 kWh charger
Thanks to the built-in 9.9 kWh charger, you have the flexibility to charge your machine without an external charger in 4 to 6.5 hours, depending on the battery capacity.

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.

Charging and operating at the same time

The ‘plugged-in operation’ option allows simultaneous working and charging.

8 hours of operation

With various configurations, Limach offers you the possibility to operate the E27.1 for 8 hours.

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.

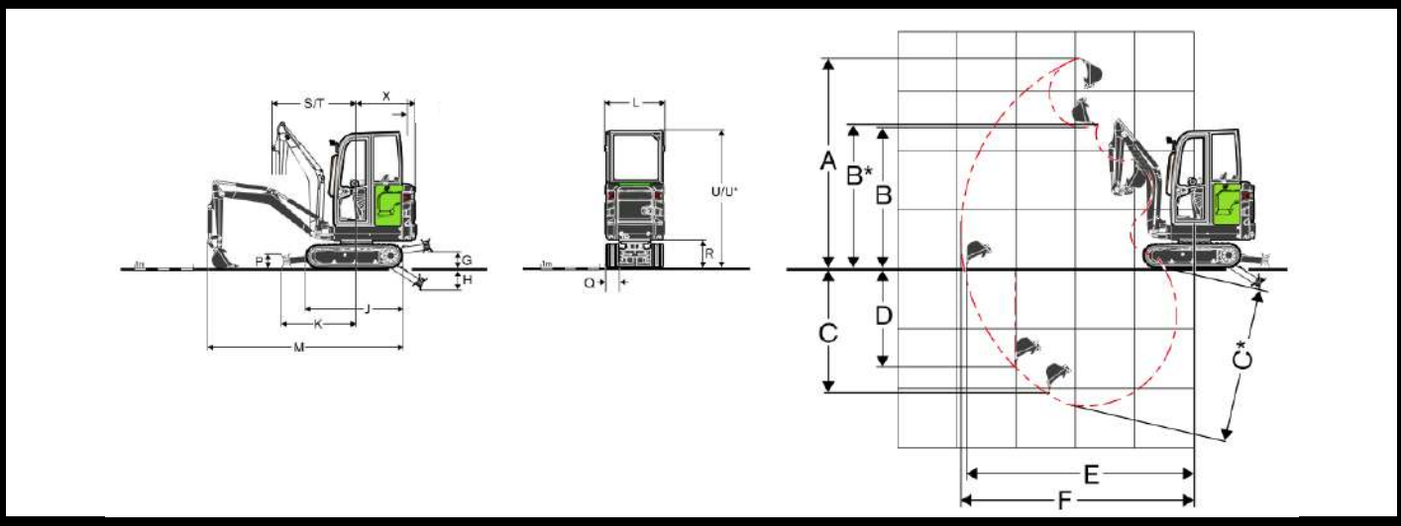
Specifications E27.1

Dementions E27.1

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 (30 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	25
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	485
Travel system		
Max. drawbar pull	daN	2.500
Max. travel speed low	km/h	2,4
Max. travel speed high	km/h	4,1
Digging performances		
Bucket breakout force (ISO)	daN	2.459
Short arm tearout force (ISO)	daN	1.806
Long arm tearout force (ISO)	daN	1.543

Hydraulic system		
Max. system flow	l/min	65
Max. flow voor accessoires	l/min	50
Max. flow for accessories	l/min	23
Max. operating pressure	Mpa	25
Weight and ground pressure		
Operating weight ISO 6016	kg	3.115
Ground pressure (cabine)	kPa	31,66
Ground pressure (canopy)	kPa	30,74

Transport weight	kg	2.990
With rubber tracks	mm	300
With short arm	mm	1.200
With canopy	kg	-90
With long arm	kg	12
With long arm and heavy counterweight	kg	112
With heavy counterweight	kg	100
Service refill		
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			
	Arm	mm	**1.200**	**1.500**
A	Maximum cutting height	mm	4.333	4.598
B	Maximum dumping height	mm	3.092	3.209
B1	Maximum bucket clearance	mm	3.198	3.280
C	Digging depth	mm	2.486	2.859
C1	Maximum digging depth	mm	2.715	3.088
D	Maximum digging depth vertical wall	mm	1.959	2.601
E	Maximum digging reach at bottom	mm	4.295	4.665
F	Maximum digging reach	mm	4.427	4.786
G	Highest position of dozer blade	mm	401	401
H	Lowest position of dozer blade	mm	422	422
I	Length of track frame center-to-center	mm	1.440	1.440
J	Total length of track frame	mm	1.906	1.906
K	Dozer blade, maximum reach at ground level	mm	1.365	1.365
L	Total width with 300 mm rubber tracks	mm	1.550	1.550
L1	Total width with 250 mm rubber tracks	mm	1.500	1.500
M	Total length	mm	3.933	3.811
M1	Transport length	mm	4.400	4.295
N	Total height of engine cover	mm	1.571	1.571
O	Minimum ground clearance	mm	290	290
P	Height of dozer blade	mm	312	312
Q	Width of track plate	mm	300	300
Q1	Width of track plate	mm	250	250
R	Ground clearance to upper structure	mm	559	559
S	Swing radius front	mm	1.712	1.759
T	Swing radius front at maximum offset	mm	1.346	1.389
U	Total height of canopy	mm	2.505	2.505
V	Total height of cabin	mm	2.535	2.535
W	Total width of upper structure	mm	1.340	1.340
X	Swing radius rear	mm	1.230	1.230
Y	Gradeability	°	53	53
Z	Width of dozer blade	mm	1.550	1.550
α1	Maximum swing angle boom to the left	°	72.5	72.5
β1	Maximum offset boom to the right	mm	542	542
α2	Maximum swing angle boom to the right	°	53	53
β2	Maximum offset boom to the left	mm	279	279

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

ADRES

Faradaystraat 17
6718 XT Ede

CONTACT

www.limach.nl
info@limach.nl
085 - 0438 353

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