



E18.3

Compact & flexible

**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

acks

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

Limach brings flexibility, reliability, and the freedom to organize your workday the way you want. With a choice of 20kWh or 30kWh battery packs, you can adjust the machine to your tasks. Whether you need to charge during the day or run a full day on a single charge, the choice is yours!





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 E18.3 in detail

The E18.3 is the best-selling and most delivered excavator in the Limach range. This market leader offers performance equal to that of diesel machines, but with the benefits of electric drive. The E18.3 is also prepared for future hydrogen technology, contributing to a sustainable future.



Features and benefits

Internal fast charger

The machine offers an excellent balance between operating and charging times, so you can quickly get back to work.

Flexible charging options

You can charge the machine using a standard 230V socket, three-phase power, charging station, charging container, or mobile battery pack, depending on your working environment.

Expandable battery capacity

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

Air conditioning and pressurization system

For a comfortable and clean working environment, even under tough conditions.

Water-cooled electric motor

Ensures reliable performance even at high ambient temperatures and during intensive work.

Usable with attachments

With sufficient power, expanded battery capacity, and an efficient cooling system, working with attachments like a demolition hammer, tiltrotator, or sorting grapple is no problem.

No more CO2 emissions

Clean, quiet, and usable everywhere. Fully emissionfree, higher efficiency from the electric motor, and a noise level of just 72 dB(A). 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 technology, ensures efficiency and work comfort. The rear-mounted lifting 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.



Drive speeds

The E18.3 is equipped with two driving speeds, providing a flexible and efficient driving experience. These speeds can be easily adjusted to different driving conditions, ensuring both power and control.

Undercarriage

The hydraulically extendable undercarriage makes the E18.3 ideal for working in tight spaces or behind narrow passages. With a width ranging from 995mm to 1,352mm, the machine is narrow in transport mode and extra stable during work.

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

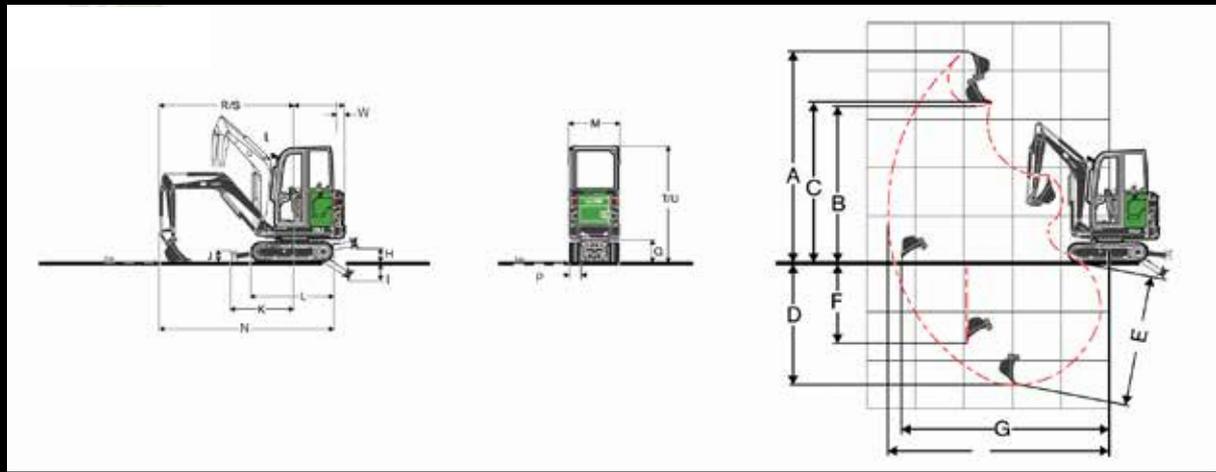
Limach is always connected to your machine. Although the electric mini excavator has far fewer moving parts, you want to be sure your machine is up and running. With Limach Connect & Support, your machine is monitored by Limach specialists. If something happens that could lead to a breakdown, Limach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

Specifications E18.3

Description		
Electrical system		
Battery type		Lithium-ion
Battery voltage	V	88
Battery capacity	kWh	20
	kWh	30
Auxiliary battery voltage	V	12
Indicative runtime (20 kWh)	hours	up to 6
Indicative runtime (30 kWh)	hours	up to 8
Charging time		
With 230V AC (20 kWh)	hours	up to 6
With 230V AC (30 kWh)	hours	up to 9
With 400V AC (20 kWh)	hours	up to 3
With 400V AC (30 kWh)	hours	up to 4
Electrical motor		
Motor type		Permanent magnet
Motor power (peak)	kW	44
Motor power (continuous)	kW	25
Operating mode max./standard	r/min	3.000
Operating mode max./boost	r/min	3.500
Swing system		
Max. slew speed	r.min	9,3
Max. slew torque	daNm	243
Travel system		
Max. drawbar pull	daN	1,3
Max. travel speed low	km/u	1,5
Max. travel speed high	km/u	3,1

Description		
Digging performances		
Bucket breakout force (ISO)	daN	1,29
Short arm tearout force (ISO)	daN	795
Long arm tearout force (ISO)	daN	695
Hydraulic system		
Max. system flow	l/min	34
Max. flow for accessories	l/min	30
Max. flow for 2nd accessories	l/min	23
Max. operating pressure	MPa	17
Weight and ground pressure		
Operating weight ISO 1606	kg	1.975
Ground pressure (cabine)	kPa	30,2
Ground pressure (canopy)	kPa	28,9
Transport weight	kg	1.900
With rubber tracks	mm	230
With short arm	mm	950
With canopy	-kg	84
With long arm	kg	4
With long arm and heavy counterweight	kg	42
With heavy counterweight	kg	38
With steel tracks	kg	32
Service refill		
Hydraulic system, total	l	21
Hydraulic tank	l	15
Undercarriage		
Bottom./top rollers per side		3/0
Track tension		By grease piston
Blade (width x height)	mm	1.340 x 230





Description			950	1.150
	Arm			
A	Maximum cutting height	mm	3.439	3.439
B	Maximum dump height	mm	2.444	2.444
C	Maximum bucket reach	mm	2.482	2.482
D	Digging depth	mm	2.234	2.234
E	Maximum digging depth	mm	2.500	2.500
F	Maximum vertical digging depth	mm	1.898	1.898
G	Maximum digging reach at ground level	mm	3.800	3.800
H	Dozer blade maximum lift position	mm	225	225
	Long blade	mm	267	267
I	Dozer blade lowest position	mm	296	296
	Long blade	mm	386	386
J	Dozer blade height	mm	231	231
K	Dozer blade maximum reach at ground level	mm	1.082	1.082
	Long blade	mm	1.272	1.272
L	Track length	mm	1.620	1.620
M	Total width	mm	995	995
	Max.	mm	1.352	1.352
N	Total length	mm	3.550	3.550
O	Transport length	mm	3.810	3.824
	Long blade	mm	4.000	4.000
P	Track shoe width	mm	230	230
Q	Ground clearance to upper structure	mm	456	456
R	Front swing radius	mm	1.455	1.455
S	Front swing radius with maximum offset	mm	1.181	1.181
T	Total height cabin	mm	2.334	2.334
U	Total height canopy	mm	2.298	2.298
V	Swing radius, rear	mm	1.018	1.018
W	Rear overhang (over tracks)	mm	342	342
	Maximum offset boom to the right	mm	419	419
	Maximum offset boom to the left	mm	525	525



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

ADRES

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