



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

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, rotating tilt coupler, or sorting grab is no problem.

No more CO2 emissions

Clean, quiet, and usable everywhere. Fully emissionfree, 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 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.

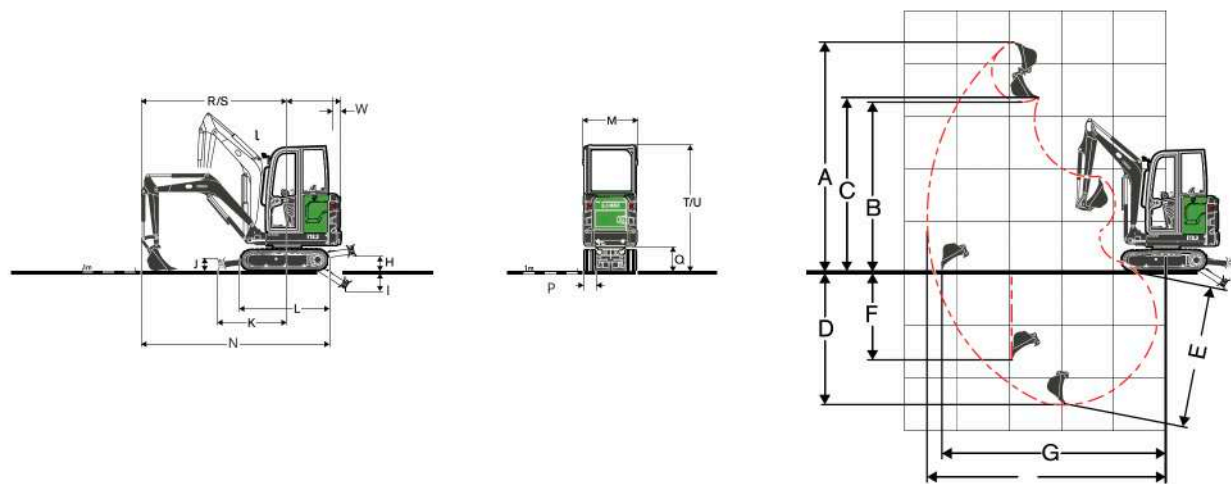
Specifications

Dimensions E18.3

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	3000
Operating mode max. / boost	r/min	3500
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/h	1,5
Max. travel speed high	km/h	3,1
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 circuit (option)	l/min	23
Max. operating pressure	Mpa	17
Weight and ground pressure		
Operating weight according to ISO 6016	kg	1975
Ground pressure (cab)	kPa	30,2
Ground pressure (canopy)	kPa	28,9
Transport weight	kg	1900
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	1340 x 230





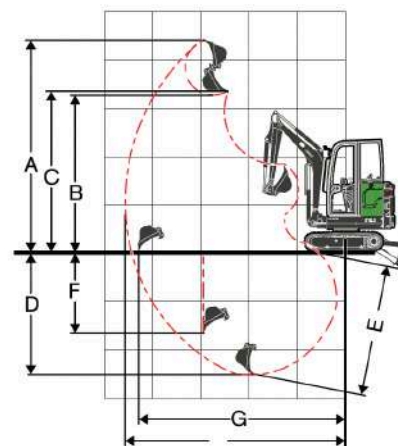
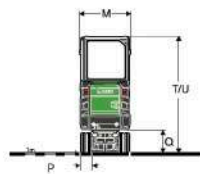
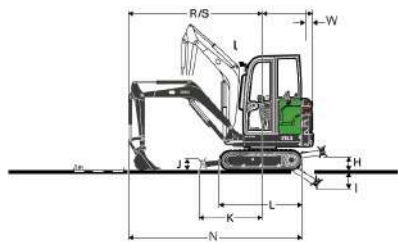
Description	Unit	Short dipper arm	Long dipper arm
Dipper arm	mm	950	1,15
A	Maximum cutting height	mm	3,439
B	Maximum dump height	mm	2,444
C	Maximum bucket reach	mm	2,482
D	Digging depth	mm	2,234
E	Maximum digging depth	mm	2,5
F	Maximum vertical digging depth	mm	1,898
G	Maximum digging reach at ground level	mm	3,8
H	Dozer blade maximum lift position	Short blade	mm
	Long blade	mm	267
I	Dozer blade lowest position	Short blade	mm
	Long blade	mm	386
J	Dozer blade height	mm	231
K	Dozer blade maximum reach at ground level	Short blade	mm
	Long blade	mm	1,272
L	Track length	mm	1,62
M	Total width	Min.	mm
	Max.	mm	1,352
N	Total length	mm	3,55
O	Transport length	Short blade	mm
	Long blade	mm	4
P	Track shoe width	mm	230
Q	Ground clearance to upper structure	mm	456
R	Front swing radius	mm	1,455
S	Front swing radius with maximum offset	mm	1,181
T	Total height cabin	mm	2,334
U	Total height canopy	mm	2,298
V	Rear swing radius	mm	1,018
W	Rear overhang (over tracks)	mm	342

Specificaties

Afmetingen E18.3

Electrical system			Digging performances		
Battery type		Lithium-ion	Bucket breakout force (ISO)	daN	1,29
Battery voltage	V	88	Short arm tearout force (ISO)	daN	795
Battery capacity	kWh	20	Long arm tearout force (ISO)	daN	695
	kWh	30			
Auxiliary battery voltage	V	12	Hydraulic system		
Indicative runtime (20 kWh)	hours	tot 6	Max. system flow	l/min	34
Indicative runtime (30 kWh)	hours	tot 8	Max. flow for accessories	l/min	30
			Max. flow for 2nd accessories circuit (option)	l/min	23
Charging time			Max. operating pressure	Mpa	17
With 230V AC (20 kWh)	hours	tot 6			
With 230V AC (30 kWh)	hours	tot 9	Weight and ground pressure		
With 400V AC (20 kWh)	hours	tot 3	Operating weight according	kg	1.975
With 400V AC (30 kWh)	hours	tot 4	to ISO 6016	kg	30,2
			Ground pressure (cab)	kPa	28,9
Electrical motor			Ground pressure (canopy)	kPa	1900
Motortype		Permanent magnet	Transport weight	kg	230
Motor power (peak)	kW	44	With rubber tracks	mm	950
Motor power (continuous)	kW	25	With short arm	mm	84
Operating mode max. / standard	r/min	3.000	With canopy	-kg	4
Operating mode max. / boost	r/min	3.500	With long arm	+kg	42
			With long arm and heavy counterweight	+kg	38
Swing system			With heavy counterweight	+kg	32
Max. slew speed	r/min	9,3	With steel tracks	+kg	32
Max. slew torque	daNm	243			
			Service refill		
Travel system			Hydraulic system, total	l	21
Max. drawbar pull	daN	1,3	Hydraulic tank	l	15
Max. travel speed low	km/h	1,5			
Max. travel speed high	km/h	3,1	Undercarriage		
			Bottom/top rollers per side		3 / 0
			Track tension		By grease piston
			Blade (width x height)	mm	1340 x 230





Description		Unit	Short arm	Long arm
Arm	mm	mm	950	1.150
A	Maximum cutting height	mm	3.439	3.582
B	Maximum dump height	mm	2.444	2.588
B*	Maximum bucket clearance	mm	2.482	2.625
C	Digging depth	mm	2.234	2.434
C*	Maximum digging depth	mm	2.500	2.700
D	Maximum vertical wall digging depth	mm	1.898	2.091
E	Maximum digging reach at ground level	mm	3.800	3.993
G	Highest position dozer blade	mm	225	267
H	Lowest position dozer blade	mm	296	386
J	Track length	mm	1 620	1 620
K	Dozer blade, maximum reach at ground level	mm	1 082	1 272
L	Overall width with 230mm tracks	mm	995	1 352
M	Overall length	mm	3.550	3.431
M*	Transport length (arm lowered)	mm	3.810	3.824
P	Dozer blade height	mm	231	231
Q	Shoe width (rubber)	mm	230	230
Q(1)	Shoe width (steel)	mm	230	230
R	Ground clearance to superstructure	mm	456	456
S	Front slew radius	mm	1.455	1.476
T	Front slew radius with maximum offset	mm	1.181	1.184
U	Overall height cab	mm	2.334	2.334
U*	Overall height canopy	mm	2.298	2.298
X	Tail slew radius	mm	1.018	1.018
X*	Rear overhang (across tracks)	mm	342	342
β1	Maximum boom offset to the right	mm	419	419
β2	Maximum boom offset to the left	mm	525	525



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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