



E20.3

Powerful & productive

**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

Limach brings flexibility, reliability, and the freedom to organize your workday the way you want. With a choice of 20 kWh or 30 kWh 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 E20.3 in detail

This market leader delivers performance equal to that of diesel machines, but with the benefits of electric drive. The E20.3 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.

Compatible with attachments

Thanks to its powerful electric drivetrain, extensive battery capacity, and efficient cooling system, the E20.3 can easily operate attachments such as breakers, tiltrotators, and sorting grapples.

Reinforced boom construction

The E20.3 is equipped with a reinforced boom structure for optimal strength under tough conditions.

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

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.

Low maintenance costs

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



Hydraulic system

The proven Volvo hydraulic system, combined with Limach's electrical technology, ensures efficiency and work comfort.

Travel speed

The E20.3 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.

Superior operating environment

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

Undercarriage

The hydraulically extendable undercarriage makes the E20.3 ideal for working in tight spaces or behind narrow passages. With a width ranging from 995 mm to 1,352 mm, 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 & specs E20.3

Electric System		
Battery type		Lithium-ion
Battery voltage	V	88
Battery capacity	kWh	30
Auxiliary battery voltage	V	12
Indicative operating time	hours	up to 7

Charging time		
With 230V AC	hours	up to 9
With 400V AC	hours	up to 4

Electric Motor		
Motor type		Permanent magnet
Motor power (peak)	kW	44
Motor power (continuous)	kW	25
Max. / standard RPM	r/min	3.000
Max. / boost RPM	r/min	3.500

Swing System		
Max. swing speed	r.min	9,5
Max. swing torque	daNm	345

Drive System		
Max. tractive force	daN	1.620
Max. travel speed (low)	km/h	2,5
Max. travel speed (high)	km/h	4,6

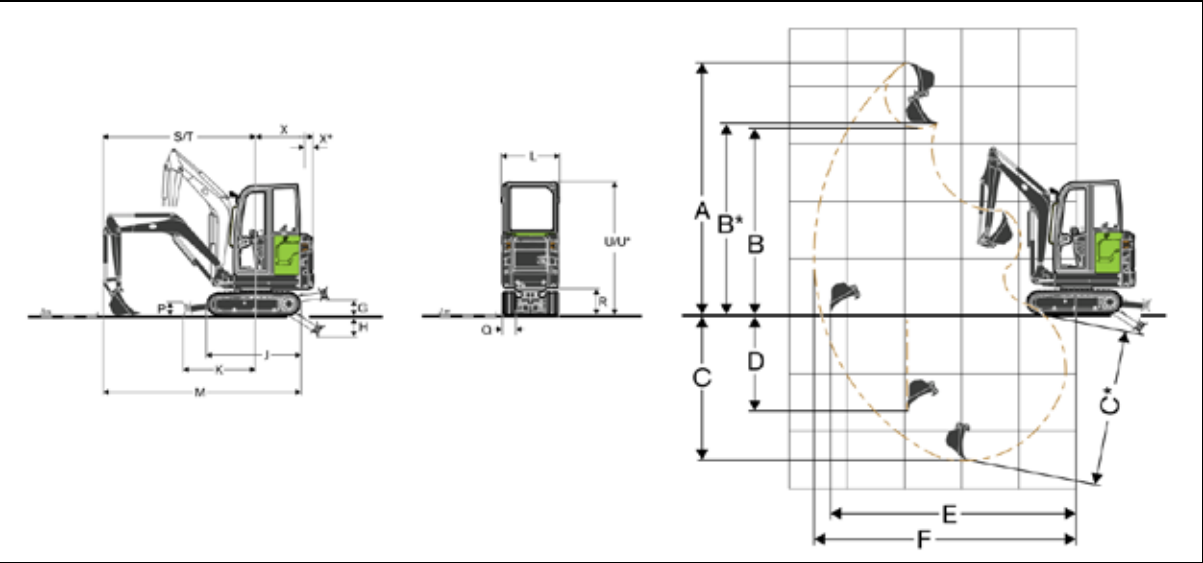
Digging Performance			
Bucket breakout force (ISO)	kN	18,3	
Short arm tear-out force	kN	12,3	
Long arm tear-out force	kN	10,3	

Hydraulic System			
Max. pump capacity	l/min	48	
Max. auxiliary flow	l/min	43	
Max. auxiliary flow 2nd circuit (option)	l/min	23	
Max. working pressure	MPa	21	

Weight and Ground Pressure		
Operating weight according to ISO 6016	kg	2.125
Ground pressure (cab)	kPa	32,6
Ground pressure (canopy)	kPa	31,3
Transport weight	kg	2.050
With rubber tracks	mm	230
With short arm	mm	950
With canopy	-kg	84
With long arm	+kg	4
With steel tracks	+kg	78

Service Refill Capacities		
Hydraulic system (total)	l	21
Hydraulic tank	l	15

Undercarriage		
Lower/upper rollers per side		3/0
Track tensioning system		By grease piston
Dozer blade (width x height)	mm	1.340 x 241



Dimensions		Unit	Short arm	Long arm
Dipper arm		mm	1.050	1.350
A	Maximum cutting height	mm	3.793	3.968
B	Maximum dump height	mm	2.621	2.796
B*	Maximum bucket clearance	mm	2.733	2.908
C	Digging depth	mm	2.279	2.456
C*	Maximum digging depth	mm	2.636	2.853
D	Maximum vertical wall digging depth	mm	1.713	1.917
E	Maximum digging reach at ground level	mm	3.976	4.266
G	Highest position dozer blade	mm	259	
H	Lowest position dozer blade	mm	404	
J	Track length	mm	1.265	
K	Dozer blade, maximum reach at ground level	mm	1.288	
L	Overall width min.	mm	995	
L	Overall width max.	mm	1.352	
M	Overall length	mm	3.707	3.554
M*	Transport length (arm lowered)	mm	4.145	4.030
P	Dozer blade height	mm	241	
Q	Shoe width (rubber)	mm	230	
R	Ground clearance to superstructure	mm	456	
S	Front slew radius	mm	1.679	1.732
T	Front slew radius with maximum offset	mm	1.401	1.450
U	Overall height cab	mm	2.334	
U*	Overall height canopy	mm	2.298	
X(1)	Tail slew radius	mm	1.048	
X*	Rear overhang (across tracks)	mm	372	
β ₁	Maximum boom offset to the right	mm	398	
β ₂	Maximum boom offset to the left	mm	545	





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

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