





Together for tomorrow

Maximum efficiency, minimum emissions – the Putzmeister iONTRON family



ONTRUN

The Putzmeister eRoadmap

With the iONTRON product family, Putzmeister paves the way to an environmentally friendly construction site with the possibility of working completely self-sufficiently, independent of external energy sources. For almost every application situation, you will find the efficient and sustainable solution with up to zero CO₂ emissions.

Become part of the revolution on construction sites worldwide!



IONTRON Hybrid BSF 2021



Introduction of the first hybrid truckmounted concrete pump



IONTRON eMixer 2022



Introduction of the first all-electric mixer with SANY substructure



IONTRON 2024



Introduction of the first battery-electric



IONTRON Hybrid 2.0 2024

Next generation

with 15 - 40%

higher efficiency





IONTRON lite Hybrid 2025



Agitator, flushing water pump and high-pressure cleaner available as options in battery operation



Mobile Power Station 2025



Mobile charging station for energy supply in case of poor infrastructure



iONTRON eMixer Gen II 2025



Further development of the all-electric mixer with the new generation on a CNG truck of the SANY truck



iontron Hvbrid & CNG 2025



First iONTRON truckmounted concrete pump



2025



First all-electric iONTRON truck-mounted concrete pump on electric truck





 \bigcirc = external power supply \bigcirc = Gas drive







iONTRON Lite Hybrid – the entry-level model

- # 4-6 l/h less fuel consumption
- # Reduced costs during idle time
- # 6 kWh for agitator and wash mode
- # Charging with generator or 230 V on-board charger





iONTRON Hybrid 2.0 the next generation

- # Pumping concrete with up to zero CO. emissions, with half as much noise
- # "Plug and Pump" all-electric pumping via the construction site current
- # 15 to 40 % more efficiency on the construction site

🕶 🛨 🔕 0 kWh Battery / Plug-In



iONTRON Hybrid & CNG hybrid pump with gas drive

- # Compatible with gas trucks from various manufacturers
- # Switching between E-mode and CNG on the fly
- # Lower fuel costs, less noise



🔥 + 😰 0 kWh Battery / Plug-In



iONTRON eMixer 2.0 -100 % electric

- # 350 kWh battery for approx. 8 h
- # Fast intermediate charging thanks to CCS Combo2 connector
- # Comfort thanks to air-sprung cab and optional rear axle with air suspension
- # Safety with driver assistance systems





iONTRON GridXpress mobile charging station

- # Mobile 192 kWh lithium-ion battery
- # Perfect for all iONTRON models and other eMachines on the construction site
- # With CEE plugs (125 A) and CCS2 fast charging (120 kW)



- # Battery-electric self-sufficient work for up to 8 h
 - # Up to zero CO₂ emissions, half as much noise

iONTRON BSA 1005 -

- # Charging during pumping and overnight completely at the station
- # With 220 V Schuko, 400 V/16 A or 32 A at CEE socket or with the type 2 charging gun with max. 22 kW







192 kWh Battery



360 kWh Battery

iONTRON eTruck-mounted concrete pump -The "game changer"

- # Compatible with electric chassis from various truck manufacturers
- Fully electric driving and pumping thanks to fast charging function and WWC
- # Less operating costs, less maintenance
- # Up to zero CO₂ and noise emissions

FOR YOUR MISSIONS, FOR OUR FUTURE

The perfect eMatch for every challenge

ONTRUN







Simple and efficient two modes for countless construction sites

Innovative, sustainable, sophisticated: The Putzmeister hybrid approach combines electric and conventional or other drives and makes it possible to operate the concrete pump via the truck engine as well as from the power grid.

Deactivate the transfer

gearbox again

#3

Activate the transfer gearbox at the construction site





125 A / 63 A socket



#2

Unwind cable and connect to



#4

Switch the main switch to E-mode



#5

Start the electric motor with the radio remote control



#6

Work environmentally friendly with less noise and CO₂









More efficiency on the construction site

Generation 2.0 of our iONTRON BSF Hybrid brings up to 40 % more efficiency to the construction site. This means that you have more energy available to achieve the same performance with less energy or to achieve a higher flow rate and pressure with the same energy consumption.

What's new? Low pressure reduction

Increased efficiency in partial load operation by reducing pressure in the low range, increases energy savings and thus reduces operating costs.

ENERGY SAVINGS: UP TO 6 kW

Optimisation of the storage loading pump

Further increase in efficiency through targeted adaptation to the actual system requirements enables energy-optimized performance.

SYSTEM OPTIMIZATION: TARGETED

eMotor speed optimization

Additional efficiency increases by lowering the minimum speed in partial load and idle mode lead to lower energy consumption and less wear.

SPEED REDUCTION: OPTIMIZED

Ergonic Output Control (EOC)

Improved efficiency through demandbased speed adjustment in the electric operation for minimized power losses and maximized output.

SPEED CONTROL: VARIABLE

MORE DELIVERY PRESSURE

+ MORE OUTPUT

= ENERGY-EFFICIENCY OPTIMIZATION



BSF
HYBRID 2.0
COMPLETE
SUCCESS
SINCE 2021

Our iONTRON BSF has been on the market for more than three years, is in series production and has gained enormous construction site experience with over 100 machines in the field. All this experience has been incorporated into the further development over time.









EMISSION-FREE TRANSPORT AND PUMPING

- # Protects the environment and increases competitiveness
- # Enables the use of government subsidies
- # Contribution to achieving ESG goals in terms of sustainability

A WIN-WIN FOR EVERYONE – MINIMAL NOISE LEVEL

- # Ideal for urban and residential construction sites
- # Pleasant for machinists and site personnel

LOWER OPERATING COSTS WITH HIGH EFFICIENCY

- # Optimized energy consumption
- # Reduced operating costs during ongoing operation due to construction site electricity
- # Less maintenance effort

First all-electric iONTRON truckmounted concrete pump on eChassis

The Putzmeister iONTRON is deliberately kept open to technology and is now also compatible with electric trucks, as the example of the cooperation with Volvo eTrucks shows. This means that the Putzmeister body can be connected to eChassis from various manufacturers. The first e-truck concrete pump, an M42-5 iONTRON, will soon be on its way to conquer the (environmentally friendly) construction sites of the world.

RELIABLE ENERGY FOR A LONG WORKING DAY

The Putzmeister charging concept reliably provides energy* for a long working day:

- # Thanks to intelligent integration in trucks, the usual performance, e.g. for 15iLS pumps with up to 150 m³/h
- # The truck has a fast charging function with CCS2 combo charging plug
- # The battery can also be charged while the machine is pumping ('work while charge' (WWC)

* depending on the different parameters and conditions on the construction site

The best of both worlds: Putzmeister iONTRON plus Volvo eTruck

Two that go well together: the all-electric Volvo truck 'FM Battery-Electric 8x4 Tridem' and Putzmeister iONTRON. The truck on four axles with a total weight of 32 t consumes an average of 1.6 to 2.0 kWh per kilometre while driving. The vehicle's electric motors have a continuous output of 330 kW with a usable battery capacity of 250 kWh. A specially developed energy storage system provides a total of 360 kWh of power. The iLS pump thus has the full 220 kW of power at its disposal.

UP TO ZERO CO₂ & ZERO NOISE EMISSIONS

+ 360 KWH BATTERY

= ALL-ELECTRIC FUTURE



MORE POSSIBILITIES WITHOUT NOISE AND CO₂

Today, environmental protection is a decisive factor in tenders and the awarding of contracts. With the iONTRON eMixer, you can drive to various construction sites in urban areas at any time of the day. In addition, you drive on the safer, more economical side — regardless of the availability and costs of fossil fuels. So you are well positioned for a successful and clean future.



ENVIRONMENTALLY FRIENDLY

- # Low noise level: 57.3 dB at 50 km/h
- # Halving of the perceived noise level while driving by up to 10 dB
- # Reduction of CO₂ emissions up to 0 depending on the local electricity mix

HIGHLY EFFICIENT

- # Battery charge sufficient for a day with up to 6 tours
- # 350 kWh battery power
- # Consumption (empty/mixed): 130 to 170 kWh per 100 km
- # SOC charging time from 20 to 80 %: approx. 50 minutes
- # Fast charging with up to 250 kW

SAFE & COMFORTABLE

- # Safety on the road with the latest ADAS driver assistance systems
- # Stable, smooth handling thanks to air suspension
- # Spacious and user-friendly driver's cab
- # Driving comfort thanks to air-sprung cab and rear axle



The eMischer is a milestone on the way to becoming an environmentally friendly construction site. However, it is not only a benefit for the environment, but also a bull's eye from an economic point of view. This is already confirmed by many satisfied customers from more than 15 countries.



- > 15 EUROPEAN COUNTRIES
- > 200,000 MISSIONS COMPLETED
- > 2,900,000 KM COVERED
- > 1,290,000 m³ OF CONCRETE DELIVERED

* as of March 2025





Since August 2023, the prototypes of the BSA 1005 iONTRON (EU and US version) have been in field testing in Germany, Belgium, Holland, Sweden, Canada, Texas and California. With positive feedback: The operators were able to switch to the iONTRON BSA without any problems. Pumping behavior and operation would hardly differ from diesel-powered BSAs of the 1000 series. In a wide variety of applications, concrete qualities and conveyor line lengths – and under sometimes adverse climatic conditions the machine met all expectations.





FIELD TESTS WITH TWO PROTOTYPES # IN 6 COUNTRIES (EU & USA & CANADA)

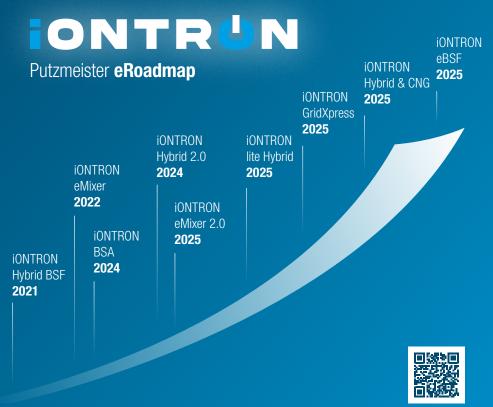




The Putzmeister path to greater efficiency and sustainability

We think long-term, always with the goal of CO_2 neutrality — and we clearly see our responsibility here as the number one in the electrified concrete value chain. Whether efficient, energy-saving diesel engines with additional batteries, fully electric construction machinery or the combination with alternative drives such as CNG gas technology — we offer solutions. And we leave it up to our customers to decide which technology they choose.

With Putzmeister "TOGETHER FOR TOMORROW", so that housing and infrastructure become affordable and sustainable.



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