

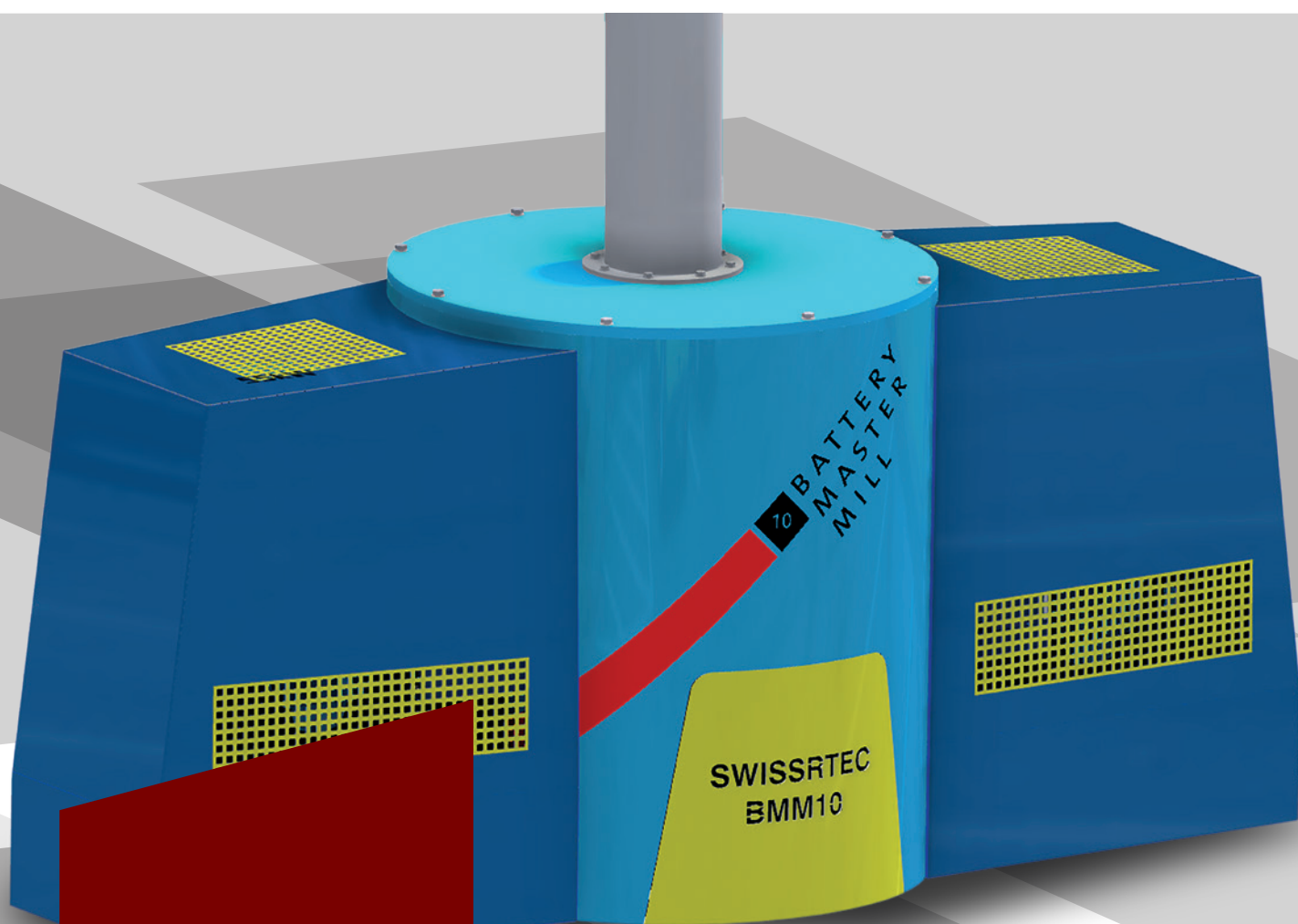
ENGLISH

SWISSRTEC

BATTERY MILLING HAS AN ADDRESS

SWISSRTEC BATTERY MASTER MILL

Li-Ion Batteries :: Anode and Cathode Foils with Black Mass :: Production Waste



Li-Ion Batteries?

SWISSRTEC supplies
Turnkey Milling and
Separation Plants.



SWISSRTEC BATTERY MASTER MILL

The BATTERY MASTER MILL is an impact mill specially designed for the post-treatment and ball shaping of anode and cathode material from Li-ion battery recycling.

The input material is fed into the mill from the top. During the process, high impact forces act on the material, the adhering black mass detaches in the process, and the anode and cathode material is simultaneously crushed and ball shaped. The material is pneumatically conveyed through the mill.

The subsequent separation steps enable the individual fractions to achieve high quality output.

	BMM10	BMM12
Rotor Diameter	1'000 mm	1'200 mm
Number of Rotor / Stator Tooling	18 / 36	22 / 44
Input Material Size (max.)	< 20 mm	< 20 mm
Rotor Speed	40 – 100 m/s	40 – 100 m/s
Throughput	700 kg/h	1'100 kg/h
Dimension	2'900 x 1'200 x 1'300 mm	3'100 x 1'400 x 1'300 mm
Weight	5'500 kg	6'600 kg
Power	2 x 45 kW / 2 x 55 kW	2 x 55 kW / 2 x 75 kW

Product Advantages

- Gentle liberation of the black mass
- Ball shaping of anode and cathode material
- Bidirectional rotor
- Maintenance friendly
- Fast tooling replacement and multiple use
- Energy optimized drive
- Solid, reliable machine design

SWISSRTEC – TURNKEY PLANTS

In addition to the BATTERY MASTER MILL SWISSRTEC offers complete solutions in the field of Li-ion battery recycling.

In the customer's pre-process, Li-Ion batteries are crushed and dried. The SWISSRTEC module separates the loose black mass, separator foil and heavy parts in a first step. The anode and cathode material is fed to the BATTERY MASTER MILL. In the separation unit, the now detached black mass, copper and aluminum are separated. The dedusting system allows a residual dust content of < 0.01 mg/m³.

Satisfied customers worldwide speak for the quality, reliability and added value of SWISSRTEC equipment.



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