

VT Battery

ONE COMPANY – INFINITE POSSIBILITIES

Battery assembly

TECHNOLOGY

DYNAMISM

PROGRESS

STABILITY

MILESTONES

- first phase of battery production at Kaposvár



1997-2002



2008

- re-start of battery production with a site acquisition at Marcali
- SOP of Li-ion batteries

- electronic tools
- automotive market entry (Ni-Mh) ISO16949
- medical market entry



2010



2012

- Li-ion e-bike packs
- first self-designed battery pack concept
- stick vacuum cleaner Li-ion batteries

- expanded automotive business share
- e-call battery assembly
- beginning of VTBH cooperation



2015



2018

- new customer and market segment in our portfolio
- a member of the European Battery Alliance

- own designed assembly lines
- production automation



2020

TYPICAL BUSINESS MODEL

1

DESIGN



CELL RESPONSIBILITY



2



3



BATTERY BUSINESS HIGHLIGHTS



47 mEUR

cell value



6 main

cell suppliers



60 mpcs

used battery cells



43 mpcs

delivered
finished products

PRODUCTION COMPETENCY

PURCHASED

raw material (resin)

insulation, contacts,
screws, damping
materials...

electrical components
(resistor; fuse...)
& raw material

cell, contact

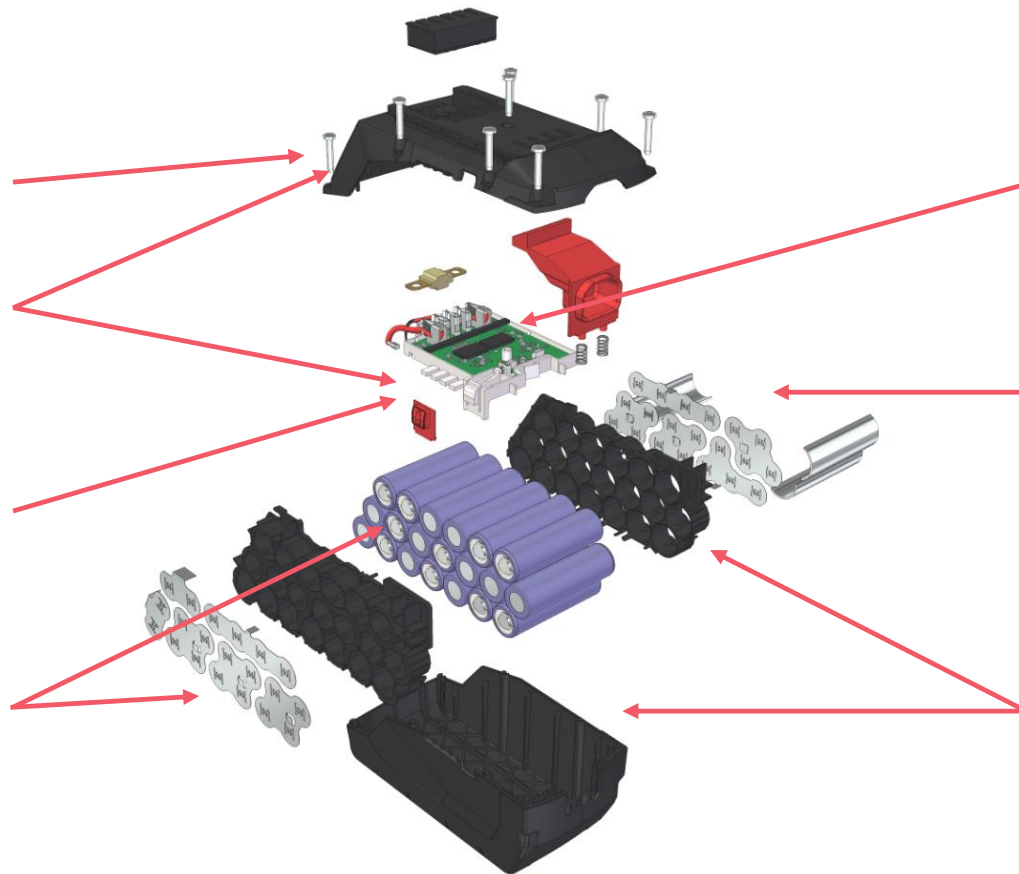
 **VIDEOTON**

PCB production in
corporation with Videoton
Electronic Assembly
Services Ltd.

assembly of
battery pack

assembly
testing
marking
packaging

Production of plastic
parts



 **VIDEOTON**

PORTFOLIO

FROM UNIQUE CELL TO COMPLETE BATTERY PACKS

As for chemistry

- Li-ion rechargeable batteries
- Ni-MH rechargeable batteries
- Li-metal batteries



Li-ion rechargeable batteries



Ni-MH rechargeable batteries



Li-metal batteries



PORTFOLIO

FROM UNIQUE CELL TO COMPLETE BATTERY PACKS

Battery pack according to its cell number

• **1 – 2 – 3 – 4 – 5 – 6 – 10 – 14 – 20 – 40 – 50 – 108 – 144**

Forms

- cylindrical
- prismatic
- button

As for usage



Mobile



Consumer use



Power tool



Automotive industry



E-bike



Industrial usage



Health care



Entertainment

TECHNOLOGIES



- blistering
- shrinking
- soldering
- resistance welding

- laser welding
- screwing
- charging
- testing (complex)

- tamper printing
- laser marking
- packaging

CONSUMER SPECIFIC PRODUCTION



Design and construction of means of production

- unique production cells
- traditional manual assy lines
- automated assembly lines



Production area design for customer needs

- separate customers
- team dedicated to production
- establishing clean room
- industry 4.0 solutions



ESD protection, air control system

- ESD floor, human earthing
- humidity control
- central ventilation system
- zonal division



Logistics, storage

- unique barcode identification
- supermarket system
- air-conditioned warehouse for Li-ion products
- planned smart solutions

MARKET EXPOSURE



PRESENT



POSSIBILITY



FUTURE PLAN

THANK YOU FOR YOUR KIND ATTENTION!



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