

# VT Battery

ONE COMPANY – INFINITE POSSIBILITIES

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Battery assembly

TECHNOLOGY

DYNAMISM

PROGRESS

STABILITY

# MILESTONES

- first phase of battery production at Kaposvár



**1997-2002**



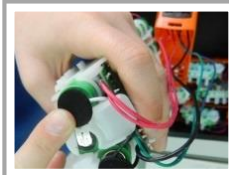
**2008**

- 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 manufacturer

## CELL RESPONSIBILITY

 cell manufacturer

2

 customer

 customer

 VIDEOTON

 customer

 VIDEOTON

 customer

3

 VIDEOTON

 VIDEOTON

# BATTERY BUSINESS HIGHLIGHTS



**47 mEUR**

cell value



**6 main**

cell suppliers



**60 mpcs**

used battery cells



**50 mpcs**

delivered  
finished products

# PRODUCTION COMPETENCY

## PURCHASED

raw material (resin)

insulation, contacts,  
screws, damping  
materials...

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

cell, contact

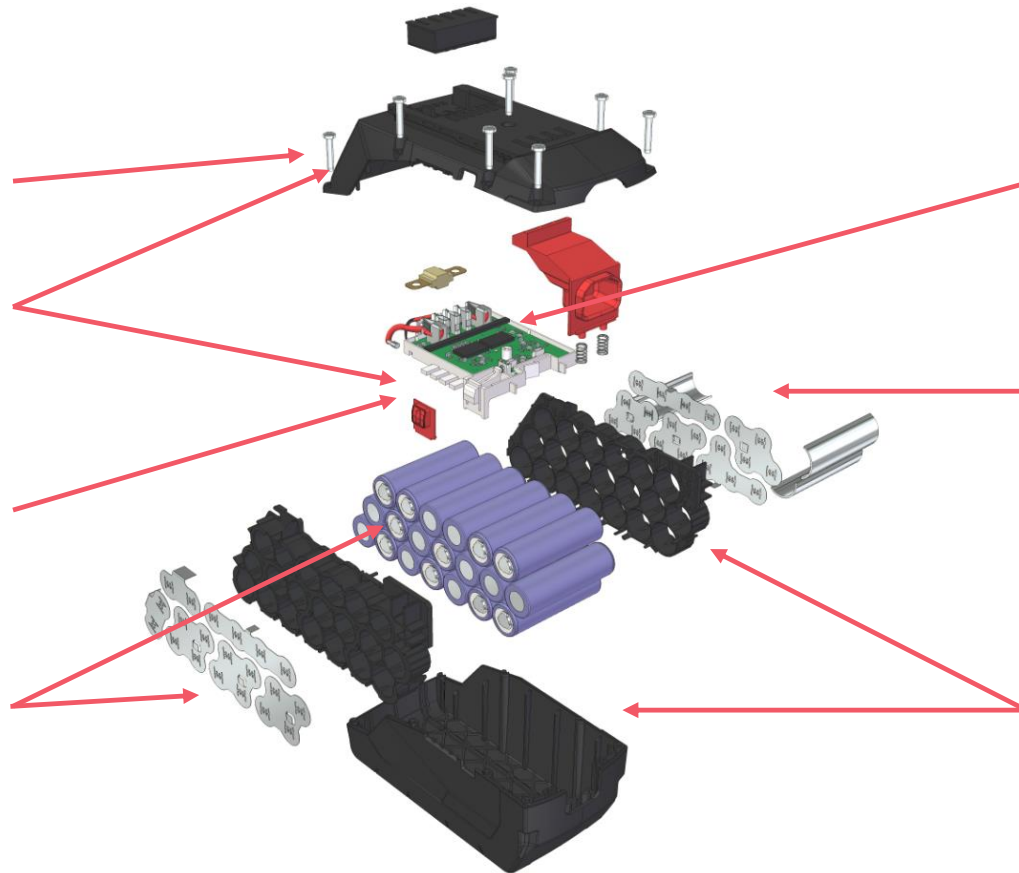
 **VIDEOTON**

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)
- tampo 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

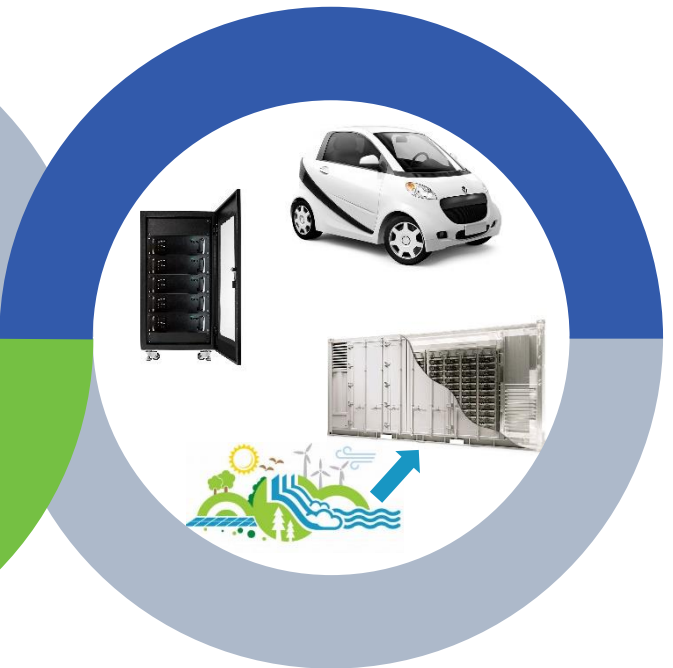
# MARKET EXPOSURE



**PRESENT**



**POSSIBILITY**



**FUTURE PLAN**

# THANK YOU FOR YOUR KIND ATTENTION!



VT Battery

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