

# **VT ElektroPlast**

## **VT Battery**

ONE COMPANY – INFINITE POSSIBILITIES

—  
2021

**TECHNOLOGY**

**DYNAMISM**

**PROGRESS**

**STABILITY**

# VIDEOTON KAPOSVÁR - MARCALI



## Who we are...

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- [Facts & figures](#)
- [Org chart](#)



## How we think...

- [Mission, Vision, Values, CSR](#)



## How we do it...

- [Certificates](#)
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## What we do...

- [Our portfolio](#)
- [Referencies](#)
- [Closing slide](#)

# HISTORY

## 1970-1997

- establishing the plant
- TUNGSRAM – electron tubes
- Plastic injection moulding (1990)
- MBKE Kft. ('93-'97)



## 1998

- start of household appliances production

## 2008

- Marcali acquisition for our battery assembly activities

## 2017

- automatized battery assembly
- on-line data collection system

## 1997

- VIDEOTON acquisition
- 1997-2002 battery assembly started in Kaposvár

## 2004

- expanding customer base

## 2013

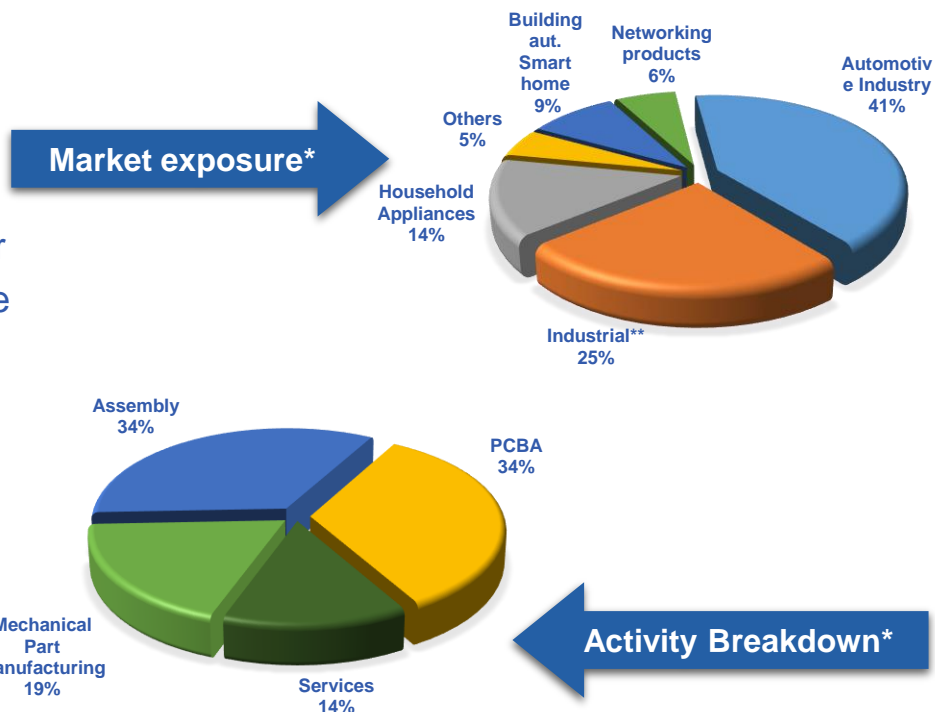
- establishing clean room production area
- ESD protection area in Marcali

## 2020

- focusing more on start-up companies

# GENERAL INFORMATION ABOUT VIDEOTON HOLDING

- privately owned, financially strong, vertically integrated industrial group in best-cost Europe
- one of the leading European EMS providers
- turn-key & flexible contract manufacturing partner for both established multinationals and young innovative emerging companies
- competent multi-commodity supplier of parts, modules and assemblies
- complex service provider owning and operating industrial parks



\* Turnover without Services

\*\* Including Electrical safety, Power generation, UPS, Instrumentation & Measurement, Semiconductor industry, Photovoltaics, Terminals & vending machines, Commercial and Industrial HVACR, LED Lighting, 3D printers, Robotics, Water treatment, Elevators, Power tools, Professional floor care machines

# HIGHLIGHTS OF HOLDING

Founded in  
**1938**

Private since  
**1992**

Revenue  
(2020)  
**558**  
Mill €

Equity  
No debt since 2005  
**429**  
Mill €

**1<sup>st</sup>**  
Most Valuable  
Company in HUN  
Ownership\*

**11**  
Locations

**8600**  
Employees\*\*  
(December 2019)

**4<sup>th</sup>**  
Among EMS  
Companies HQ'd  
in Europe

*\* According to Forbes in 2017 and 2018*

*\*\* 2100 employees in Services*

# GROUP STRUCTURE OF HOLDING

## VIDEOTON HOLDING

Property Mgmt

Controlling

Finance

HR

Legal

IT

Business Development

Sourcing

Design & Engineering

### Manufacturing Subsidiaries

PCBA & Box build assy.



**VT Automotive Electronics**  
Automotive EMS  
Box build assembly



**Videoton EAS**  
Non-automotive EMS  
Box build assembly



**Videoton EAS Bulgaria**  
Non-automotive EMS  
Box build assembly

Part mfg. & Box build assy.



**VT Elektro-PLAST**  
Assembly & box build  
Plastic injection moulding



**VT Battery Technology**  
Battery pack assembly



**VTES**  
Sheet metal fabrication  
Enclosure manufacturing  
Box build assembly



**VTBH (Bulgaria)**  
Electromechanical and mechanical  
assembly & box build services



**VT Mechatronics**  
High complexity assembly  
and machining



**TIPA**  
Robotized assembly lines  
Testers



**VT-ASYST**  
Robotized assembly lines  
Testers

Part mfg. & Heavy duty assy.



**VT Plastic**  
Automotive-focused injection  
moulding



**VT Bulplast (Bulgaria)**  
Thermoplast injection and thermoset  
injection and compression moulding  
Tooling



**VT METAL**  
Medium to high volume machining  
Electroplating, KTL



**KVJ Muvek**  
Stamping w/ presses



**VT Precizios**  
Injection moulds



**VENTIFILT**  
Heavy-duty fans, filters  
Large steel fabs



**VT-Systemtechnics**  
Shelter / container mfg.

### Services Subsidiaries



**Pannonjob**  
HR services



**Industrial Park**  
Building lease & services



**VT ARtrans**  
Logistics services



**Pannonfacility**  
Facility management

# FACTS AND FIGURES

- number of employees cca. 1 300
- turnover (2020) 120 mill EUR
- planned turnover(2021) 148 mill EUR
- production area (Kaposvár) 34 500 m<sup>2</sup>
- production area (Marcali) 9 000 m<sup>2</sup>



**million**

pcs products



**million**

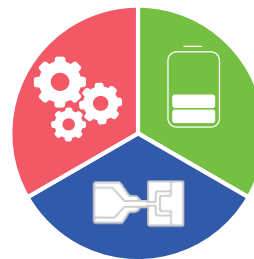
assembled  
batteries



**million**

pcs plastic  
parts

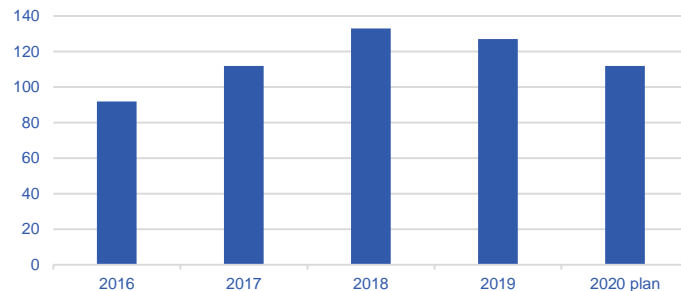
KAPOSVÁR



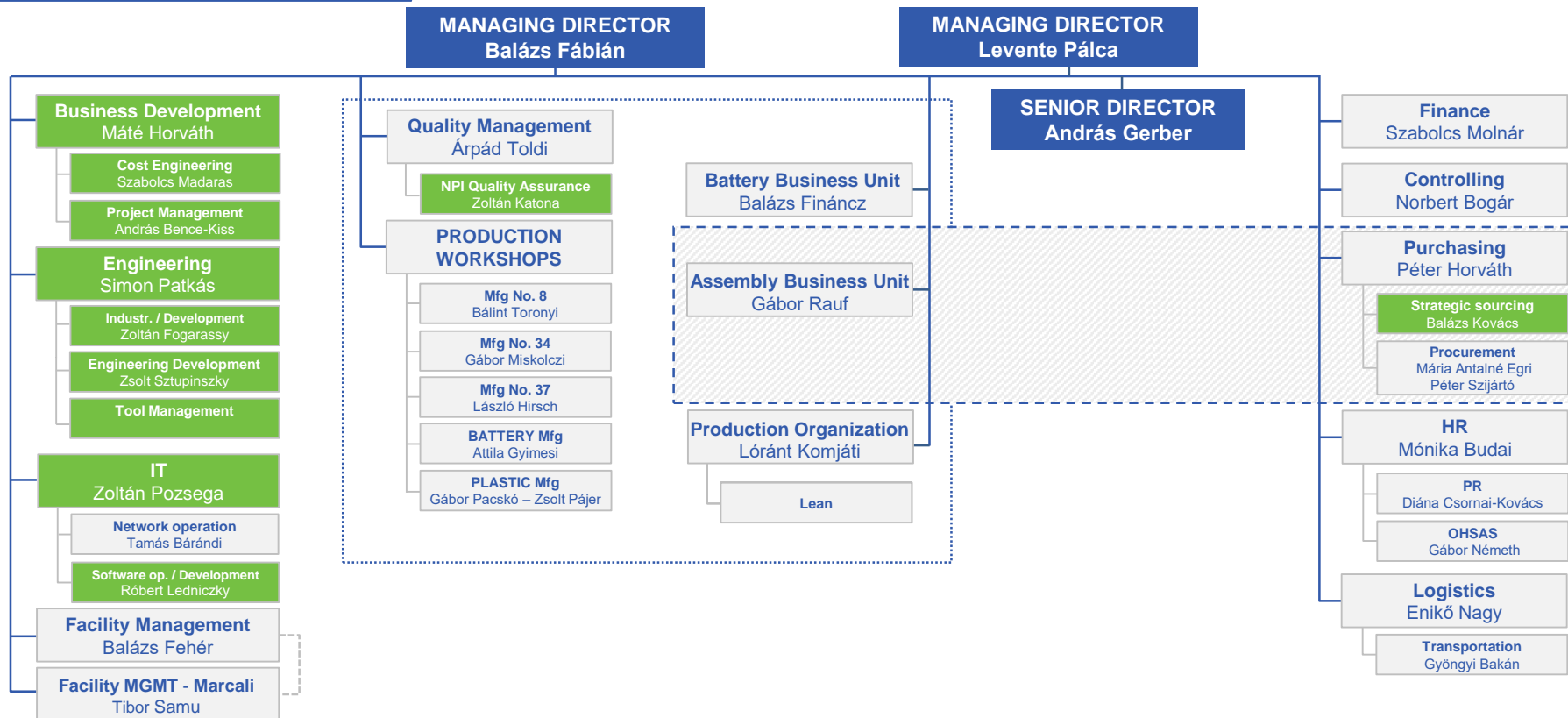
MARCALI



Turnover / m EUR



# ORG CHART





# HOW WE THINK...

## MISSION

- provide full service from product design through sourcing, industrialization, in-house injection moulding to mass production and delivery

## VISION

- to be a worldwide well-known and recognized manufacturing partner in the field of plastic-based products and battery driven appliances

## VALUES

- tradition and innovation
- proactive mindset
- customer oriented organisation

## CSR POLICY

- we are sensitive to environmental changes
  - we protect our employees from negative effects
  - we maintain company culture based on a 50-year history
- [CSR activities](#)

# CERTIFICATES

## ISO 9001:2015 (VTEP-VTBT)



## ISO 14001:2015 (VTEP - VTBT)

## IATF 16949:2016 (VTEP - VTBT)



## ISO 13485:2016 (VTEP)

## ISO 45001:2018 (VTEP - VTBT)



## AEOF 2014 (VTEP - VTBT)

## ISO 50001:2018 (VTEP)



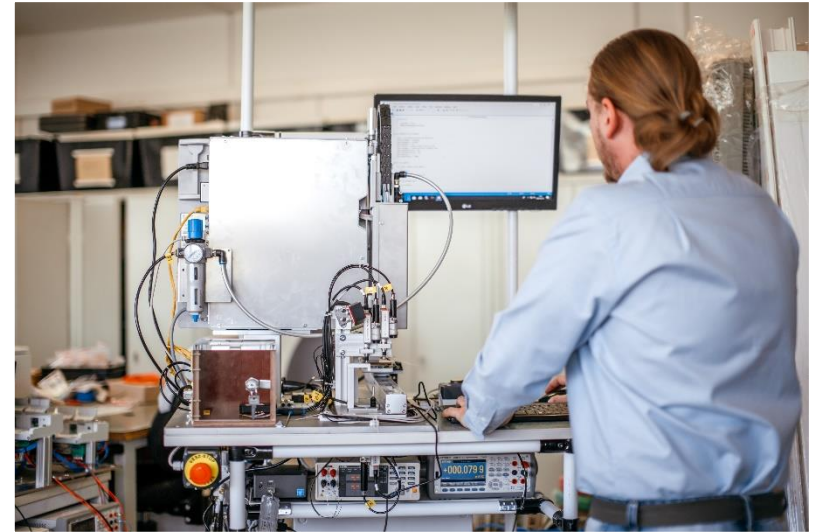
# BUSINESS MODEL



# PRODUCT DEVELOPMENT

1/2

- industrial / common design for product components with customers
  - design plastic and material components, sub-assembly
  - design electronics
- product renewing, facelift
  - products re-design, additional functions
- creating 2D and tolerance chain calculation, 3D doc
- feasibility studies, CFMEA, DFMEA, PFMEA, patent research, risk assessment
- creating prototype parts and devices – 3D printer (Objet3)
- 3D scanner for product and tool approbation
- special pre-approbation test devices, jigs
- pre-approbation tests in internal and external labs
- product approbation (TÜV Rheinland InterCert Hungary)



- infrared camera
- product design tests
- product release test
- product functionality-related
- product performance-related test
- battery related tests – charging, discharging, capacity tests, short circuit analysis
- RoHS compliance (XRF tester)
- pre-approbation tests
- internal test for investigation of quality problems



# INDUSTRIALIZATION

- state-of-the-art technologies
- process automation
- single-purpose machines
  - life-span and function testers
  - traceability systems
  - assembly fixtures, jigs
- high voltage testers
- assembly lines – from simple to automated



# SOURCING

## Tool management (more than 10 partners)

- supplier selection
- price negotiation
- regular site visits
- time tracking

## Strategic sourcing and procurement

- available supplier base – more than 500 vendors
- supplier development (co-operation, price negotiation)
- specialized commodity sourcing
- building strategic partnerships, seeking and qualifying new suppliers





# INJECTION MOULDING

- thermoplastic injection moulding
- 99 pcs PIM machines, 15-650 t clamp force (vertical, horizontal and 2K)
- on-line real time data collection and evaluation system
- automation, robotized production cells
- smart solutions: tool positioning system
- tampon printing, hot stamping, laser engraving
- welding technologies (IR, mirror, ultrasonic, friction)



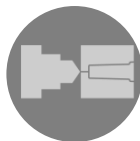
**270 types**  
resin and  
colouring



**75**  
supplier



**2600 t**  
annual resin  
consumption



**1100**  
active injection  
moulding tool





# ASSEMBLY

1/2

- engineering samples, mass production and service parts
- different country and colour versions
- customized, personal solutions – production cells to assembly lines
- self-made and purchased components
- wide range of complex sub-assemblies / end-products
- assembly, testing, late customizing



# ASSEMBLY – BATTERY PACKS

2/2

- Li-ion, Ni-MH, Li-metal batteries
- single cells and complete battery packs
- enormous diversity and usage
- types according to its forms: cylindrical, prismatic, button
- technologies: blistering, shrinking, soldering, resistance welding, laser welding, screwing, charging, testing (complex), tamper printing, laser marking, packaging
- a member of the European Battery Alliance since 2018



**55 mEUR**

cell value



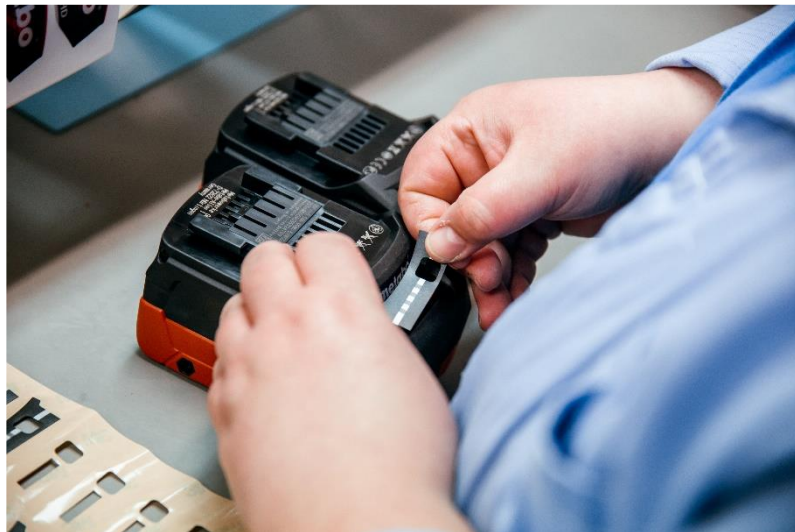
**7 main**

cell suppliers



**1-144 cells**

contained in battery  
packs



# LOGISTICS

- 2600 tons of processed resin per year
- 11 000-pallet storage capacity
- 40 incoming trucks / week
- 25 outgoing trucks / week
- handling all Incoterms from EXW to DDP for incoming and outgoing goods



# QUALITY MANAGEMENT

- customers satisfaction first
- excellent quality products
- high level of services
- fulfillment of ISO standards and legislation
- continuous improvement
- strong supplier base



# PORTFOLIO

Household  
appliances



Personal care /  
Mother & child  
care



Batteries



Industrial  
appliances



Automotive  
parts





# REFERENCES

**3M**

**AKG**  
by HARMAN

 **BOSCH**

DēLonghi Group | **BRAUN**

 **TASKI**

**FDK**

**ghd**  
good hair day, every day

**HI-LEX**

 **instagrid**

**metabo**

 **peiker**  
a Valeo brand

**PETZL**

**PHILIPS**

**P&G**  
**BRAUN**

**VolaPlast**  
Kunststoff- und Systemtechnik

# THANK YOU FOR YOUR KIND ATTENTION!



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