

VT ElektroPlast VT Battery

ONE COMPANY – INFINITE POSSIBILITIES

—
2020

TECHNOLOGY

DYNAMISM

PROGRESS

STABILITY

VIDEOTON KAPOSVÁR - MARCALI



Who we are...

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



How we think...

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



How we do it...

- [Certificates](#)
- [Business model](#)



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

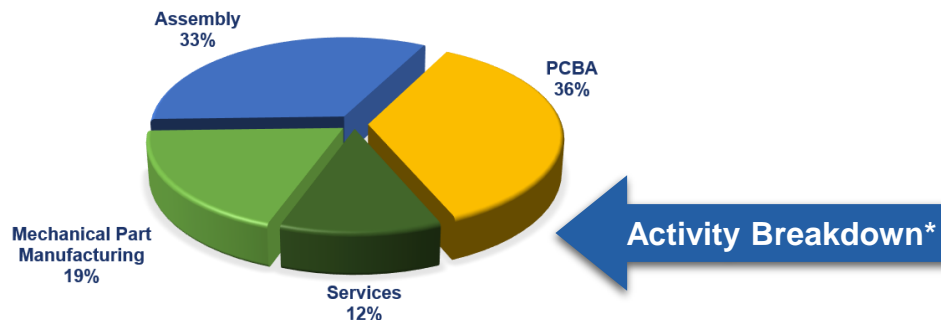
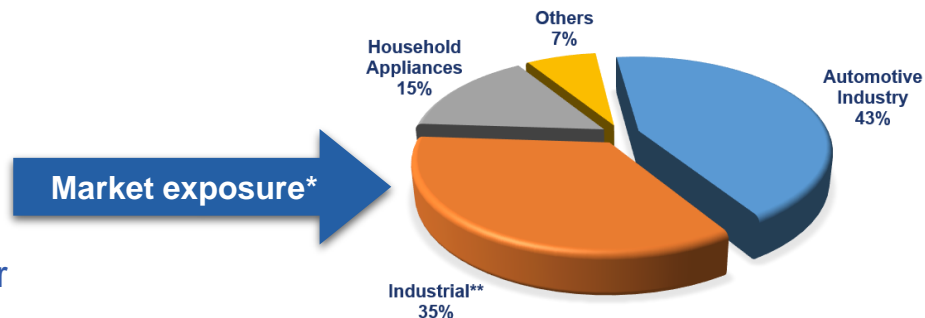
- establishing clean room production area
- ESD protection area in Marcali

2019

- Factory of the Year in Innovation category
- self developed semi-automated assembly lines

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 Building automation, Electrical safety & power generation, Instrumentation, Metering & Measurement, Semiconductor industry, Terminals & vending machines, Commercial and Industrial HVACR, Railway, LED Lighting, 3D printers

HIGHLIGHTS OF HOLDING

Founded in
1938

Private since
1992

Revenue
(2018)
590
Mill €

Equity
No debt since 2005
394
Mill €

1st
Most Valuable
Company in HUN
Ownership*

11
Locations

9600
Employees**
(December 2018)

3rd
Among EMS
Companies HQ'd
in Europe

** According to Forbes in 2017 and 2018*

*** 2600 employees in Services*

GROUP STRUCTURE OF HOLDING

VIDEOTON HOLDING

Property Mgmt

Controlling

Finance

HR

Legal

IT

Business Development

Sourcing

Design & Engineering

Manufacturing Subsidiaries

Services Subsidiaries

PCBA & Box build assy.

Part mfg. & Box build assy.

Part mfg. & Heavy duty 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



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



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.



Pannonjob
HR services



Industrial Park
Building lease & services



VT ARtrans
Logistics services

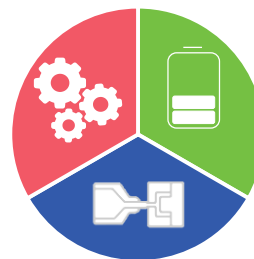


Pannonfacility
Facility management

FACTS AND FIGURES

- number of employees cca. 1 500
- turnover (2019) 127 mill EUR
- planned turnover(2020) 112 mill EUR
- production area (Kaposvár) 34 500 m²
- production area (Marcali) 9 000 m²

KAPOSVÁR



MARCALI



million

pcs products



million

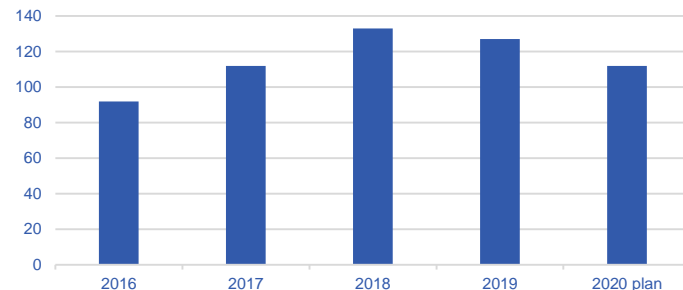
processed battery
cells



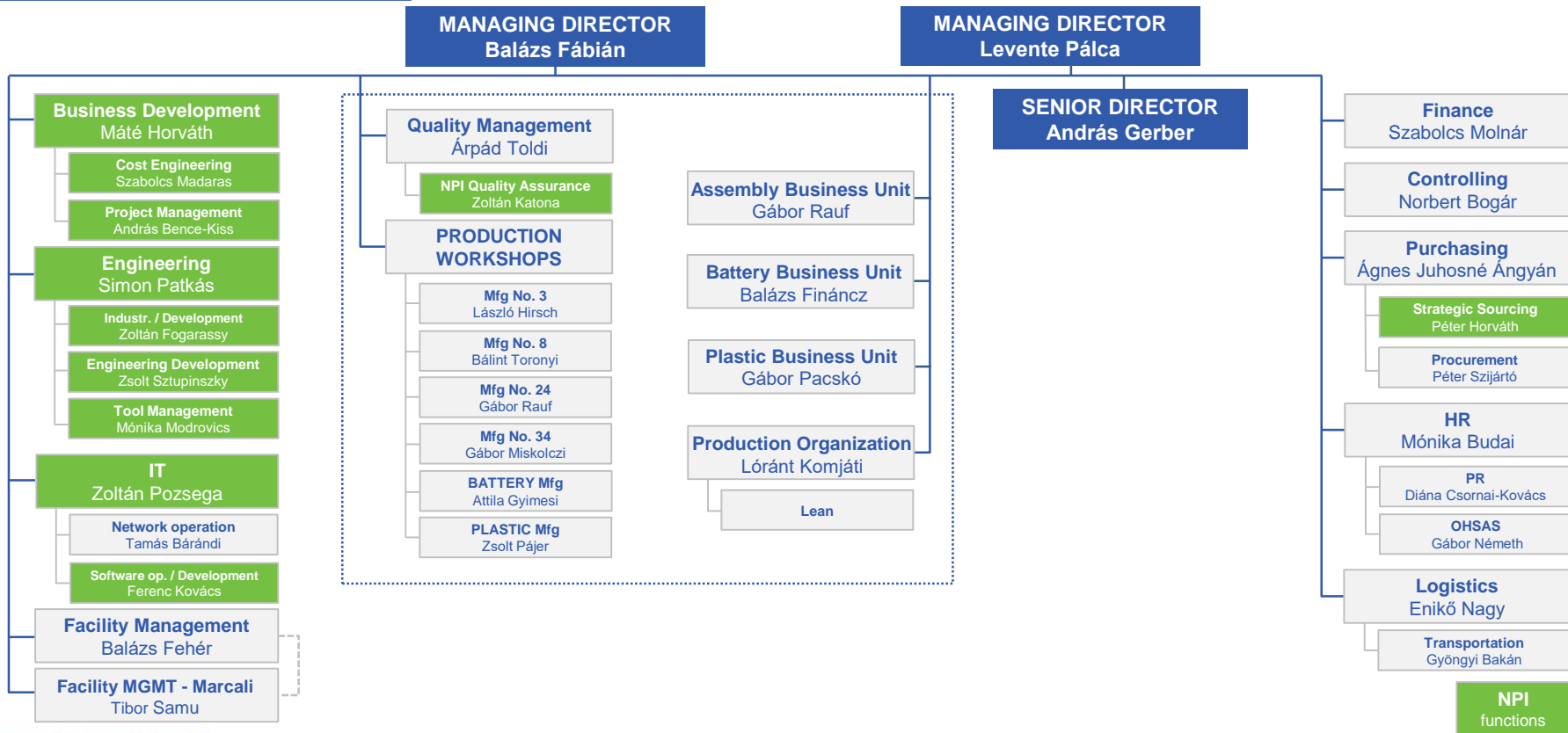
million

pcs plastic
parts

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)



OHSAS 18001:2007 (VTEP - VTBT)



AEOF 2014 (VTEP - VTBT)



ISO 50001:2011 (VTEP)



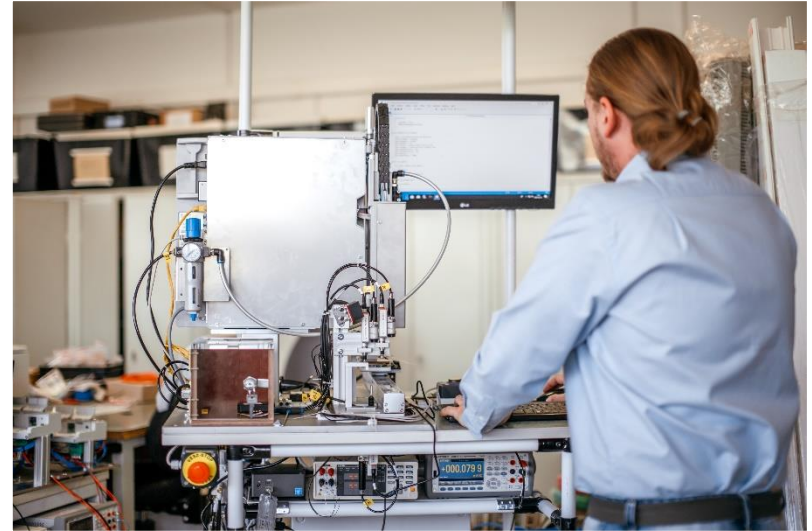
BUSINESS MODEL



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)



TESTLAB

2/2

- 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
- 104 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
- tamper printing, hot stamping, laser engraving
- welding technologies (IR, mirror, ultrasonic, friction)



270 types

resin and
colouring



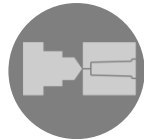
75

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 – 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



47 mEUR

purchased cell value



6 main

cell supplier



1-120 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



[Main page](#)

[References](#)

[Closing slide](#)

REFERENCIAS

3M

AKG
by HARMAN

 **BOSCH**

DēLonghi Group | **BRAUN**

 **TASKI**

FDK


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!

 **VIDEOTON**
VT ElektroPlast **VIDEOTON**
VT Battery

VIDEOTON Elektro-PLAST Kft.
VIDEOTON Battery Technologies Kft.
3 Izzó Str. H-7400 Kaposvár
Phone: + 36 82 502 100
vtep@vtep.videoton.hu

Máté Horváth
Business Development Manager
Phone: + 36 82 123 456
Mobile: + 36 20 123 4567
horvath.mate@vtep.videoton.hu