

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](#)
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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

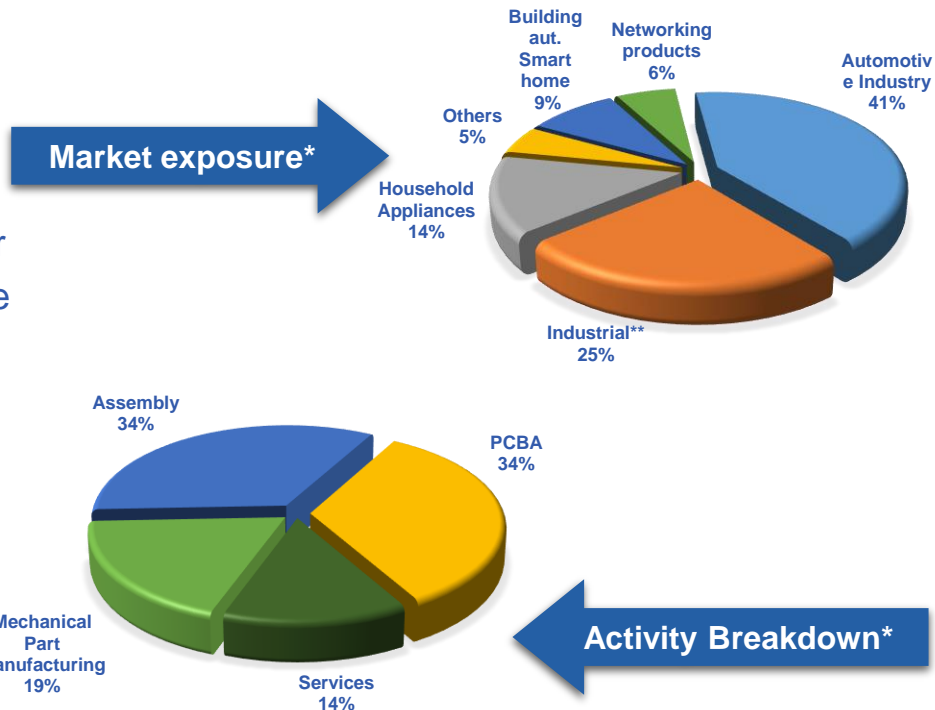
- establishing clean room production area
- ESD protection area in Marcali

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 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
(2019)
586
Mill €

Equity
No debt since 2005
429
Mill €

1st
Most Valuable
Company in HUN
Ownership*

11
Locations

8600
Employees**
(December 2019)

4th
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

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



million

pcs products



million

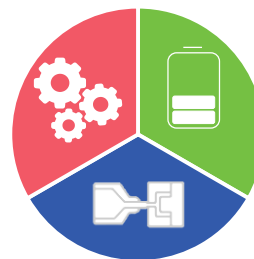
assembled
batteries



million

pcs plastic
parts

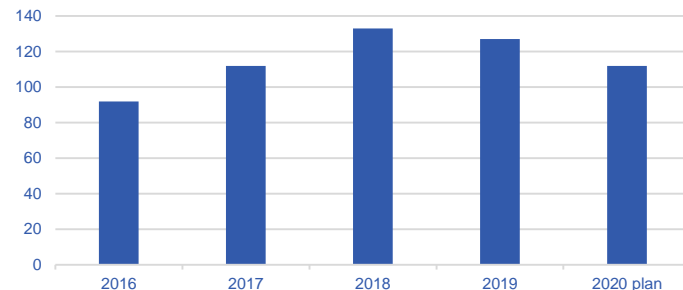
KAPOSVÁR



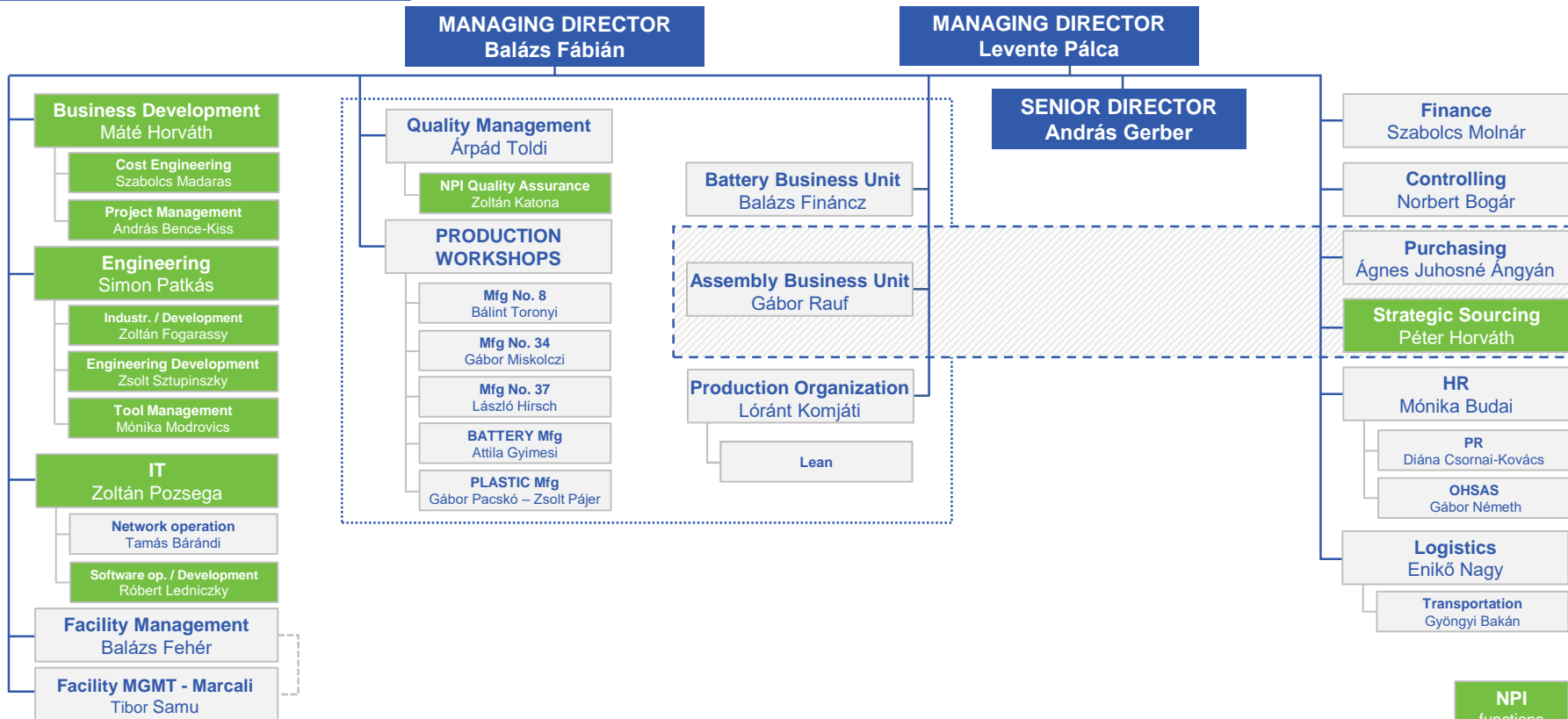
MARCALI



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

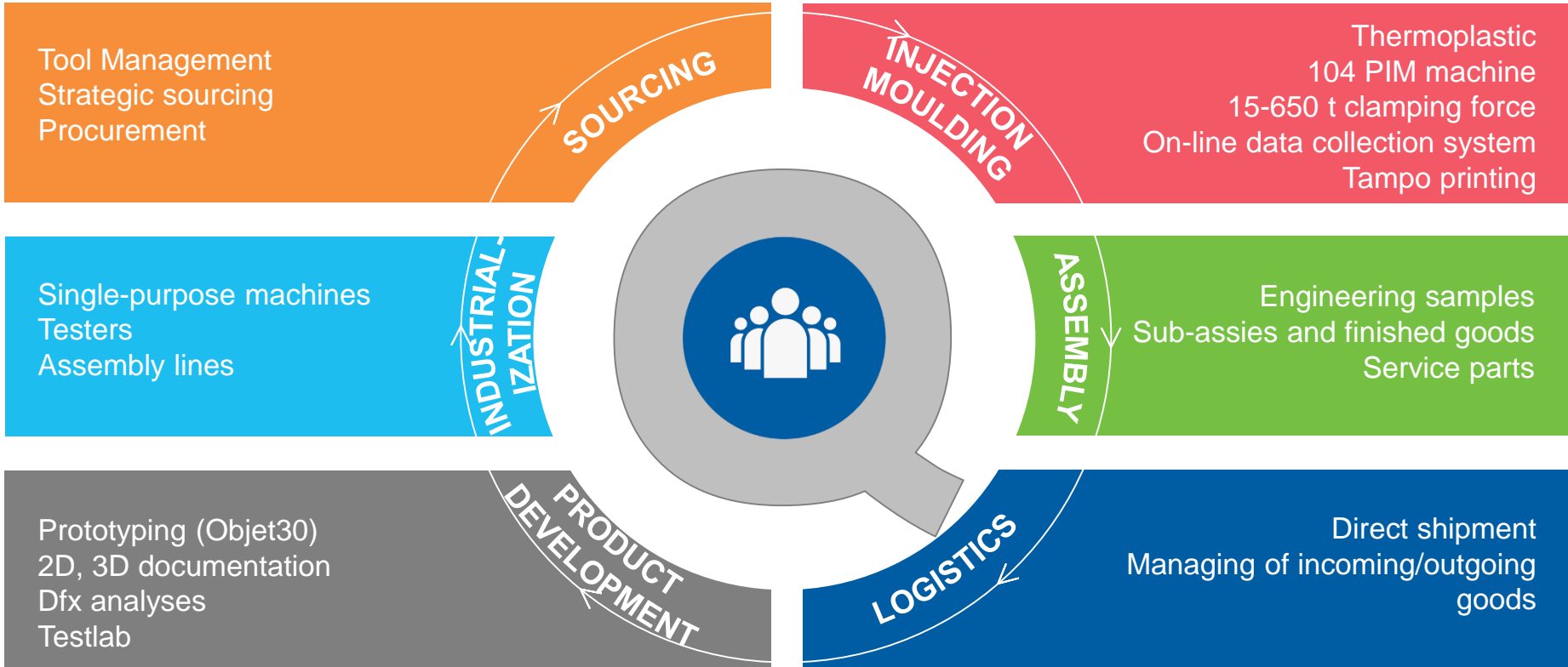
VALUES

- 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](#)

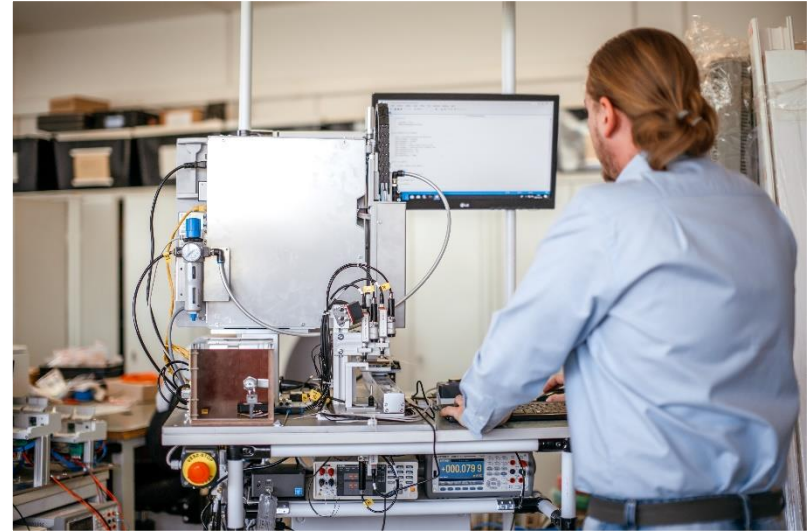
BUSINESS MODEL



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



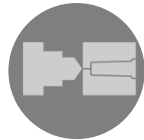
75

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, 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



47 mEUR

cell value



6 main

cell supplier



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



[Main page](#) [References](#) [Closing slide](#)

REFERENCES

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!



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