

VT ElektroPlast VT Battery

ONE COMPANY – INFINITE POSSIBILITIES

—
2023

TECHNOLOGY

DYNAMISM

PROGRESS

STABILITY

VIDEOTON KAPOSVÁR - MARCALI



Who we are...

- [History](#)
- [Facts & figures](#)
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How we think...

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



How we do it...

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



What we do...

- [Our portfolio](#)
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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

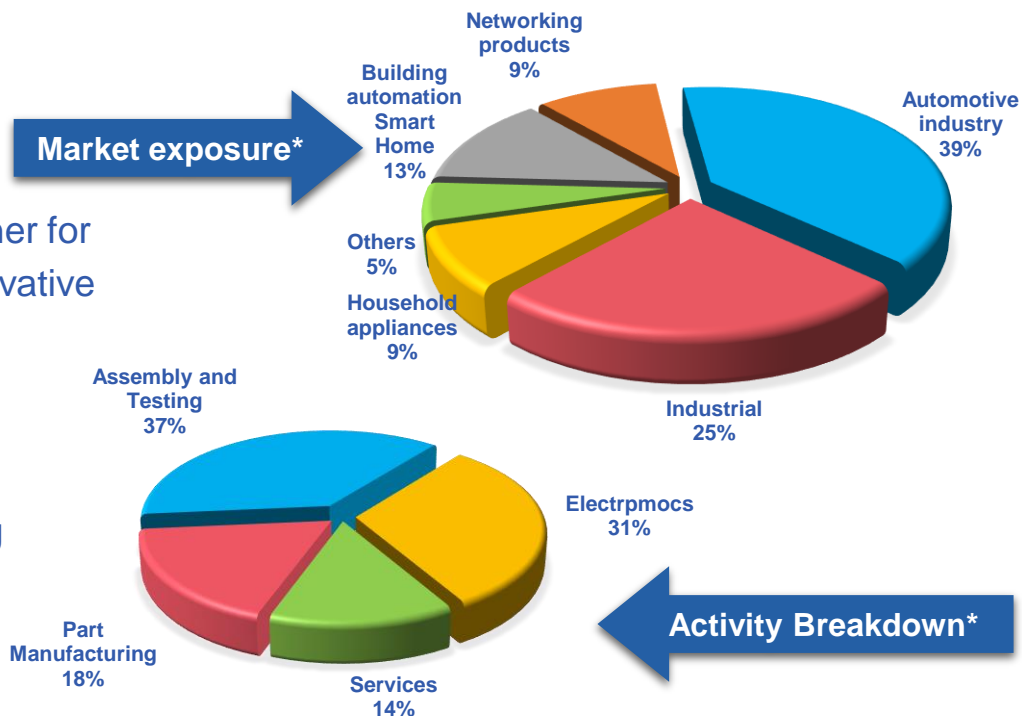
- establishing clean room production area
- ESD protection area in Marcali

2021

- Videoton Kaposvár plant 50th anniversary
- Achieving a significant milestone on TO basis

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
(2022)
677
Mill €

Equity
No debt since 2005
457
Mill €

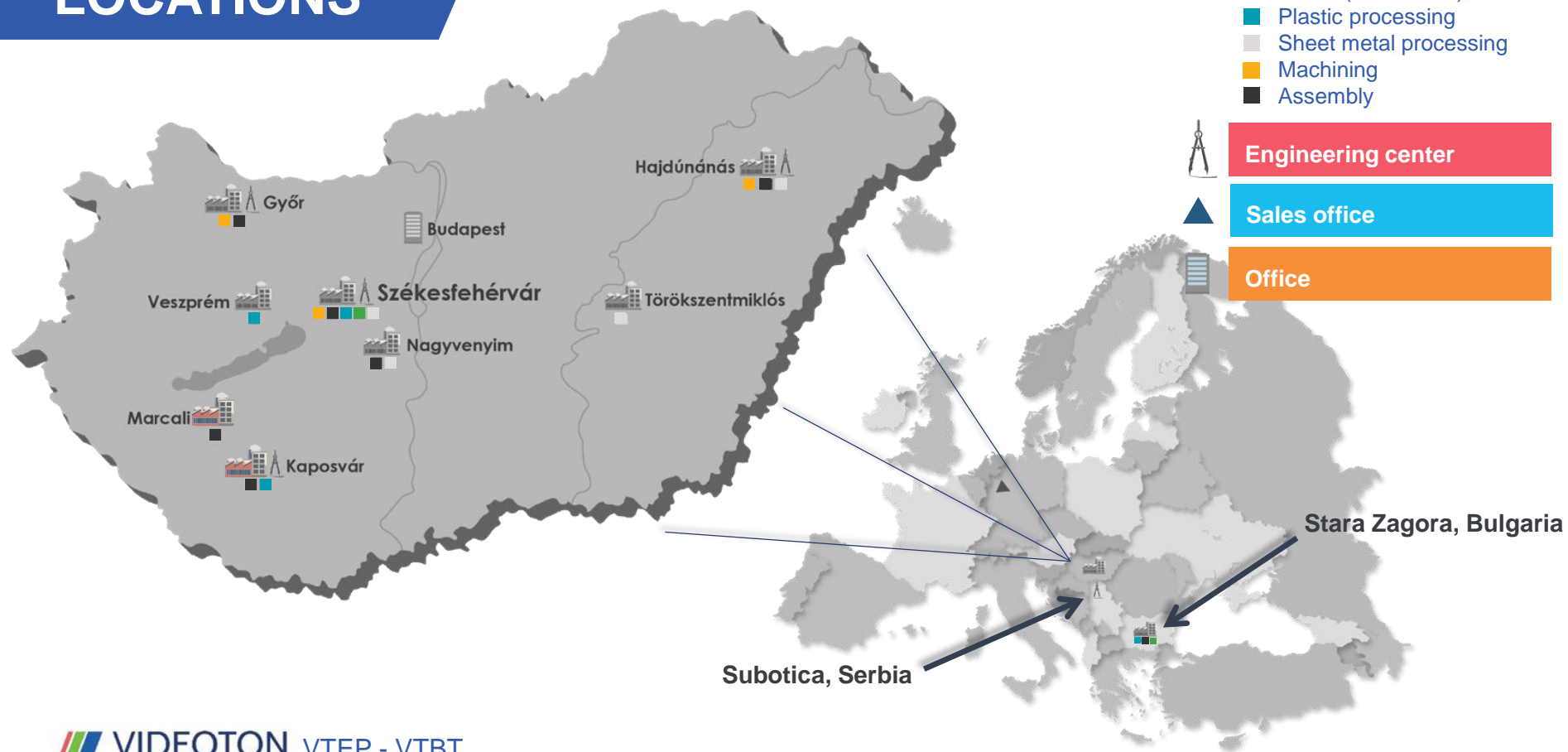
1st
Most Valuable
Company in HUN
Ownership*

11
Locations

8900
Employees**
(2021)

3rd
Among EMS
Companies HQ'd
in Europe

LOCATIONS



CORE TECHNOLOGIES OF VIDEOTON



SHEET METAL PROCESSING

VTES, KVJ Muvek



PLASTIC MOULDING

VTEP, VT Plastic, VT Precizios, VT Bulplast



MACHINING

VT Metal, VT Mechatronics



PCB ASSEMBLY AND TESTING

VT Automotive Electronics, VEAS, VEAS Bulgaria



BOX BUILD ASSEMBLY

VTEP, VTBT, VTES, VTBH, TIPA, VT-ASYST



OTHERS

VT-Systemtechnics, Ventfilt, Pannonjob, Industrial park, VT ARtrans, Pannonfacility

FACTS AND FIGURES

- number of employees cca. 1 000
- turnover (2022) 115 mill EUR
- planned turnover (2023) 108 mill EUR
- production area (Kaposvár) 34 500 m²
- production area (Márcali) 9 000 m²



million

pcs products



million

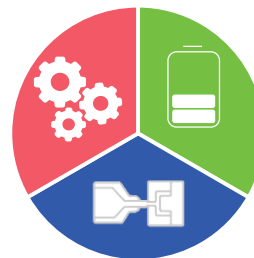
assembled
batteries



million

pcs plastic
parts

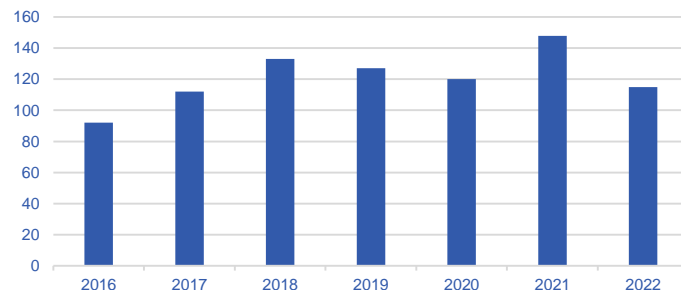
KAPOSVÁR



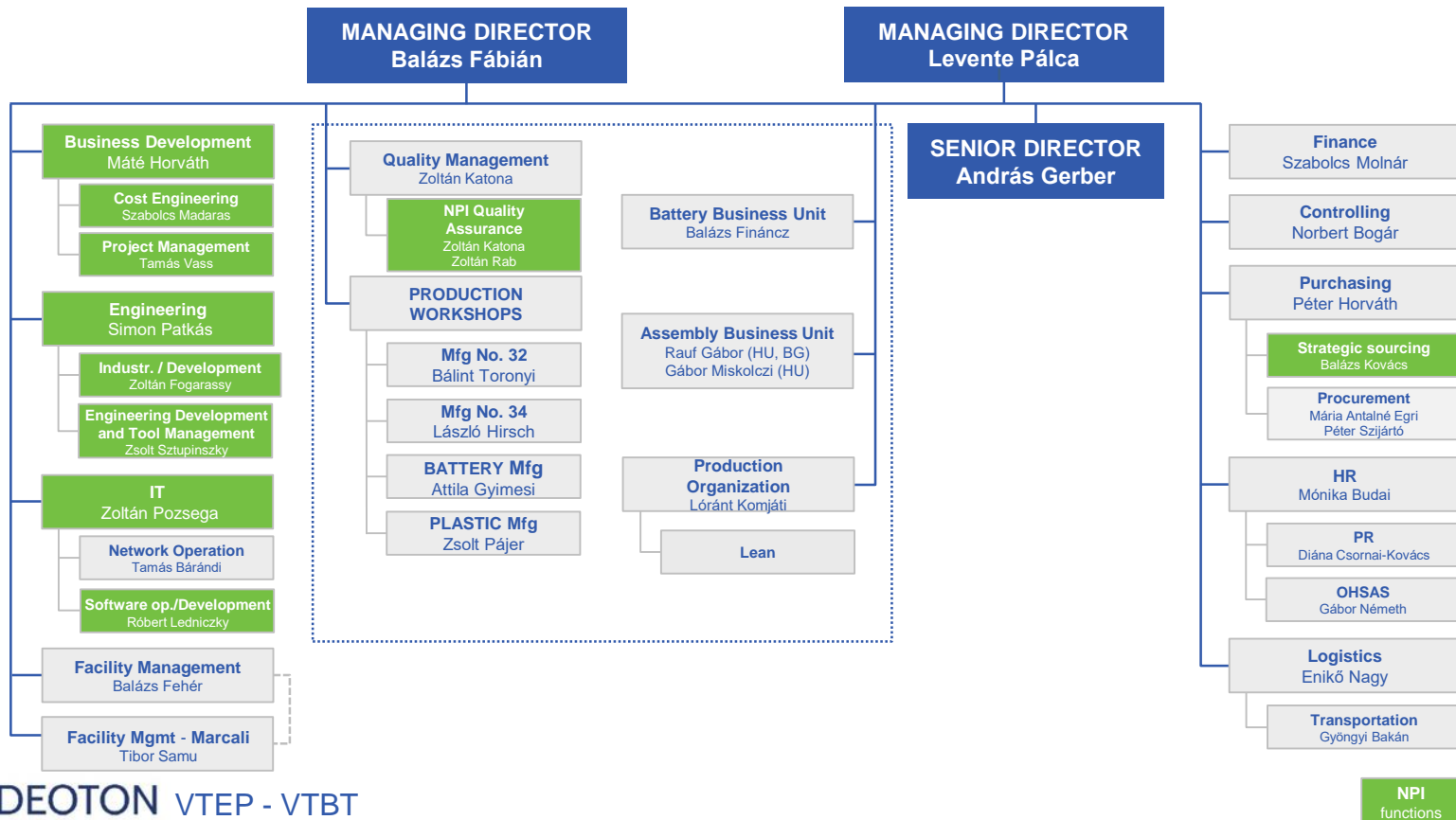
MÁRCALI



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)



AEOF 2014 (VTEP - VTBT)



ISO 50001:2018 (VTEP)



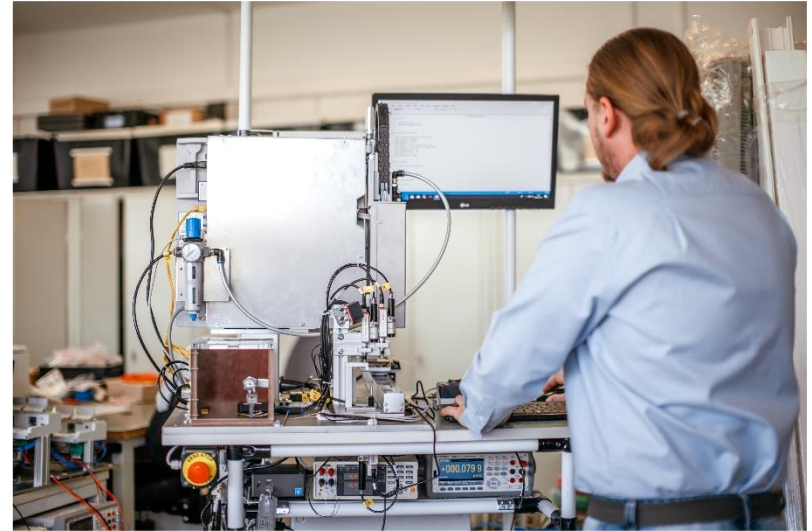
BUSINESS MODEL



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
- 81 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)



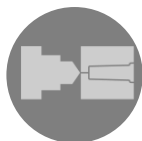
270 types
resin and
colouring



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



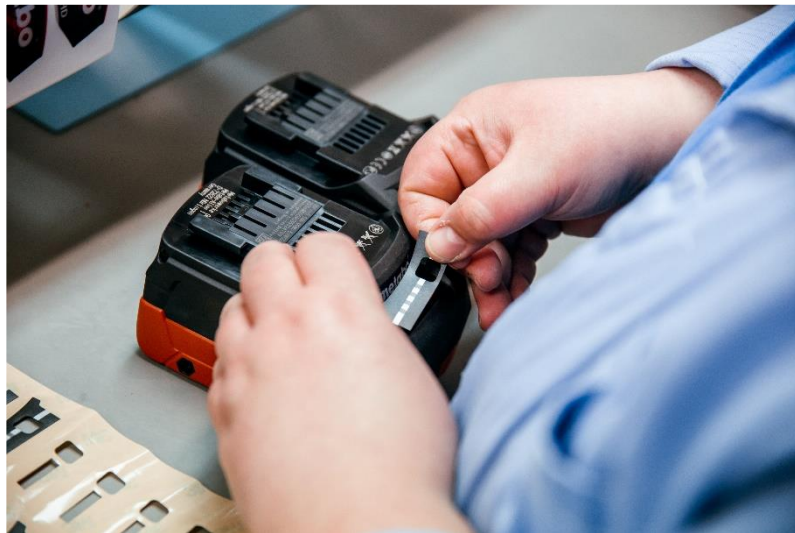
7 main

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

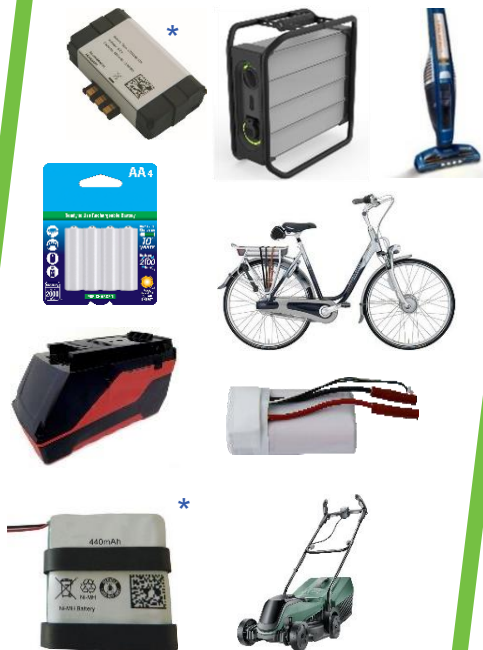


PORTFOLIO

PIM



Battery assembly



Box build assembly



* Automotive

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Referencies

Closing slide

REFERENCES

3M

alber

AKG
by HARMAN

Amphenol

 **BOSCH**

CMR
SURGICAL

Diversey  **TASKI**

FDK

ghd
good hair day, every day

HI-LEX

 **instagrid**

metabo

Miele

 **peiker**
a Valeo brand

PETZL

PHILIPS

P&G
BRAUN

THANK YOU FOR YOUR KIND ATTENTION!



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 82 502 159
Mobile: + 36 20 277 6380
horvath.mate@vtep.videoton.hu

