

Plastic based

BOX BUILD ASSEMBLY

within VIDEOTON HOLDING

HUNGARY & BULGARIA

ONE COMPANY – MULTIPLE POSSIBILITIES

—
2023

TECHNOLOGY

STABILITY

SUSTAINABILITY

DYNAMISM

GENERAL INFORMATION ABOUT VIDEOTON

Founded in
1938

Private since
1992

Revenue
2022 - exp

705 Mill €*

11

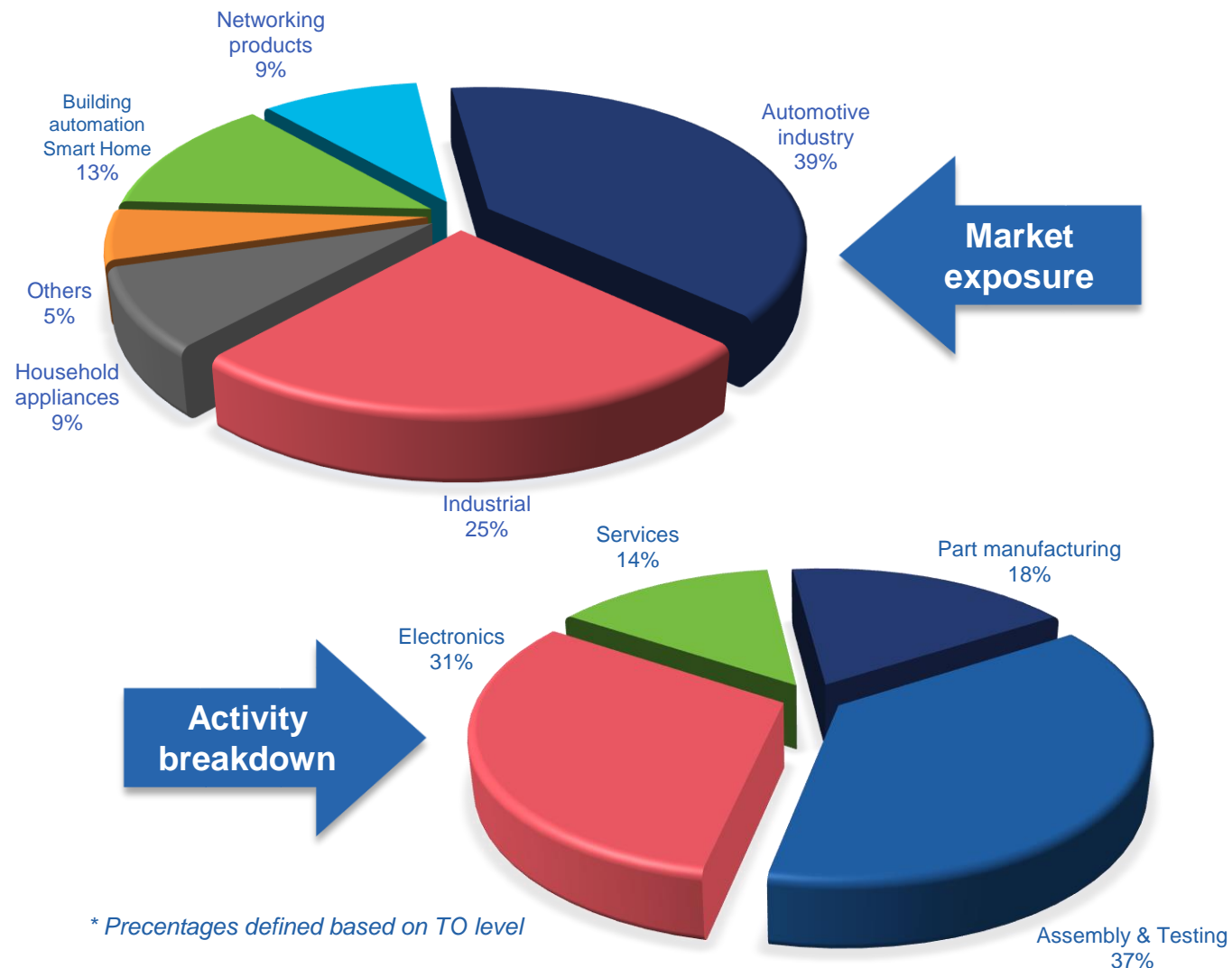
Locations

9.300
Employees

3rd

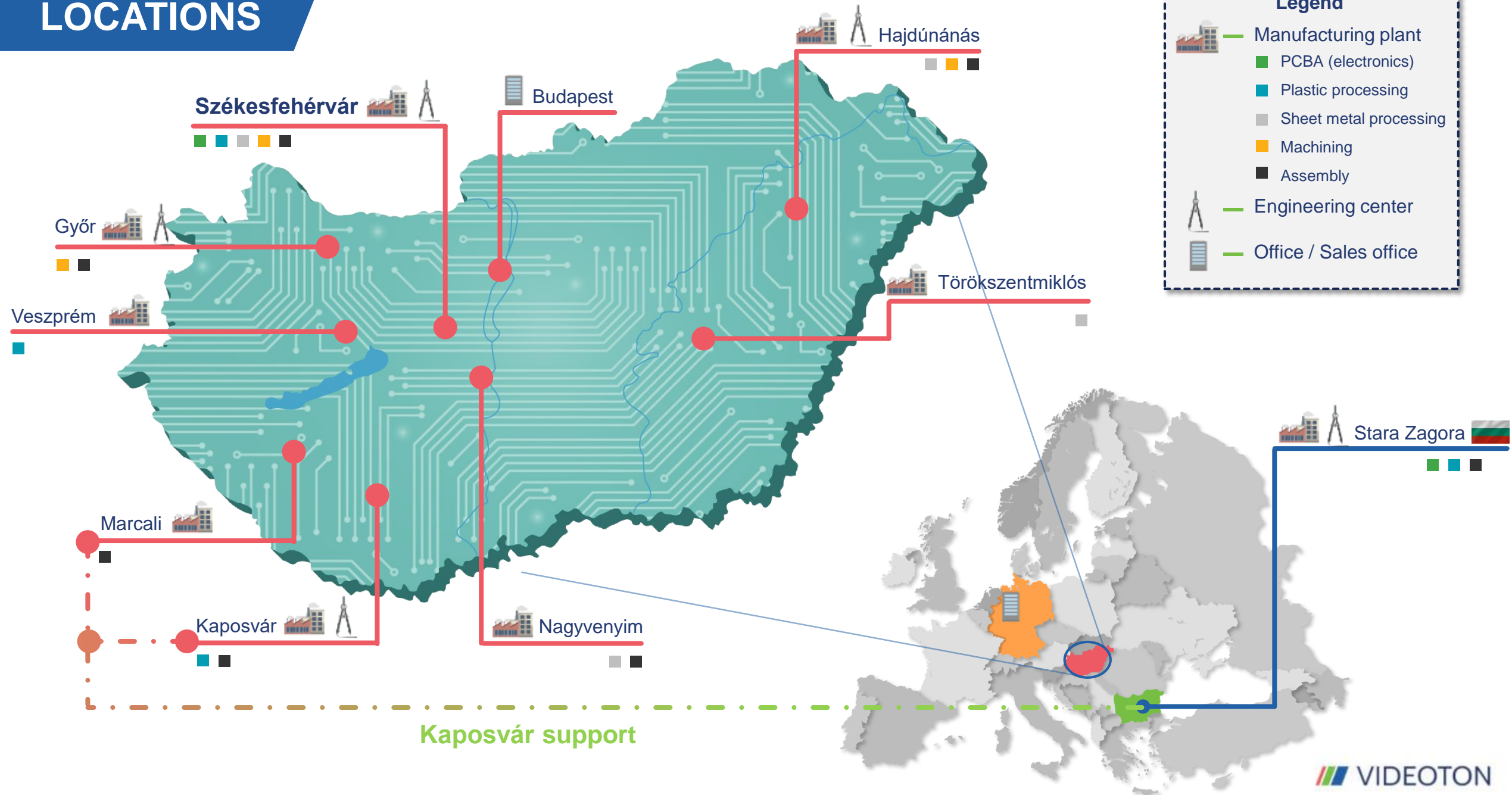
Among EMS
companies
HQ'd in
Europe

* no debt since 2005



* Percentages defined based on TO level

LOCATIONS



CORE TECHNOLOGIES OF VIDEOTON



PCB ASSEMBLY AND TESTING

VT Automotive Electronics, VEAS, VEAS
Bulgaria



BOX BUILD ASSEMBLY

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



PLASTIC MOULDING

VTEP, VT Plastic, VT Precizios, VT Bulplast



SHEET METAL PROCESSING

VTES, KVJ Muvek



MACHINING

VT Metal, VT Mechatronics



OTHERS

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

HISTORY OF KAPOSVÁR | MARCALI | STARA ZAGORA

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

1999

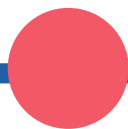
- Bulgaria plant privatization by Videoton Holding

2013

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

2023

- Videoton Kaposvár supports Bulgaria DZU plant
- Close future cooperation



PRODUCTION SITES

Kaposvár (HU)



35 000 m²

- Plastic part manufacturing
- Box build assembly
- **Engineering**

Marcali (HU)



10 000 m²

- Battery assembly

Stara Zagora (BG)



27 000 m²

- PCB assembly
- Plastic part manufacturing
- Box build assembly

FACTS & FIGURES - HU



Number of employees

Cca. 800



PIM machines

81



Turnover (2021):145 mill €

Turnover (2022):115 mill €



Plastic parts / year: 260 mill

Pcs products / year: 13 mill



Built in area (Kaposvár&Marcali)

43.500 m²*



Customers

15+

* 5.000 m² immediately available
production area

Turnover / m EUR



FACTS & FIGURES - BG



Number of employees
Cca. 900



PIM machines (TP+TS)
92 (53+39)



Customers
10+



Turnover (2021):49 mill €
Turnover (2022):51 mill €



Plastic parts / year: 78 mill
Pcs products / year: 113 mill



**Built in area (VTBH&VT
Bulplast)**
27.000 m²*

* 7.000 m² immediately available
production area

BUSINESS MODELL



ENGINEERING SUPPORT IN VT EP



Mechanical development

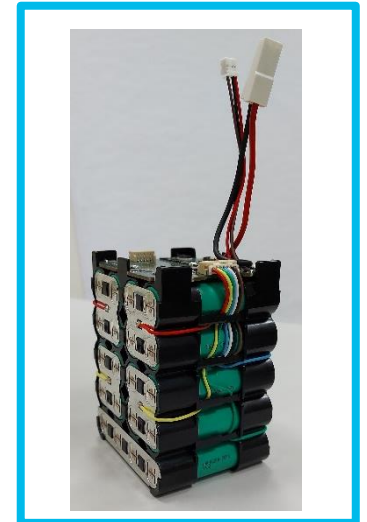
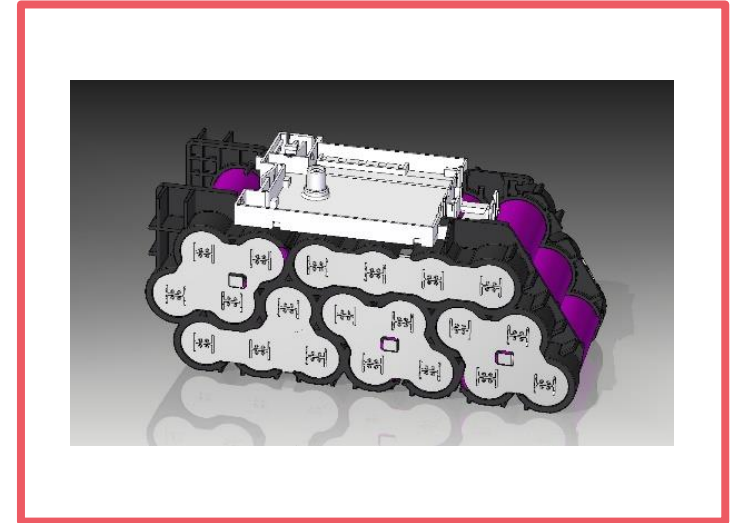
- product development with the customer
- feasibility studies, DFM analysis
- prototyping (Objet30 3D printer)
- tool management, mould flow analysis
- automation: assembly lines, single-purpose machines



Electronic development

DEVELOPMENT PROJECTS IN VT EP

- Jug blender complete design
- Hand blender lid top design
- Multi chopper adapter mechanical design
- Power tool 36V battery pack redesign
- Wheelchair battery pack design and validation
 - PCBA development also included



PLASTIC INJECTION MOULDING



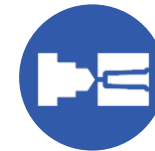
Engineering

- thermoplastic + thermoset injection moulding
- 81+53 pcs TP and 39 TS PIM machines (TS only in Bulgaria), 15-650 t clamp force
- on-line real time data collection and evaluation system



Tooling

- automation, robotized production cells
- tampo printing, hot stamping, laser engraving
- welding technologies (IR, mirror, ultrasonic, friction)



Injection moulding

BOX BUILD ASSEMBLY



Industrialization



Battery assembly



Final product assembly

- mass production and service parts
- customized, personal solutions – production cells to assembly lines
- wide range of complex sub-assemblies / end-products
- assembly, testing, automation, late customizing

BATTERY ASSEMBLY



Play me!



Consumer use



Power tools and gardening



Automotive industry



E-bike



Industrial usage



Health care



Entertainment and telecommunication

- resistance & laser welding
- soldering
- potting
- assembling

- screwing
- wire machining
- tamper printing
- ultrasonic welding

- charging
- laser marking
- testing
- wrapping

CERTIFICATES

ISO 9001:2015 (Hungary - Bulgaria)



ISO 14001:2015 (Hungary - Bulgaria)

IATF 16949:2016 (Hungary - Bulgaria (optional))



ISO 13485:2016 (Hungary)

ISO 45001:2018 (Hungary)



AEOF 2014 (Hungary)

ISO 50001:2018 (Hungary)

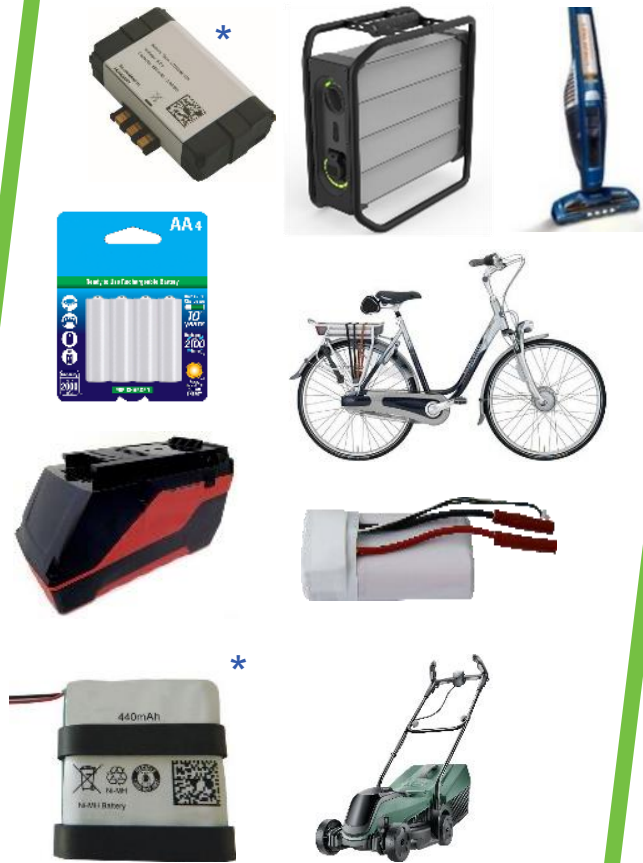




PIM



Battery assembly

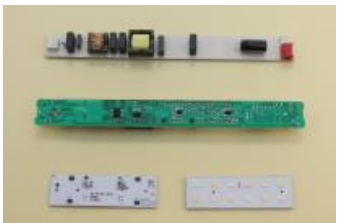
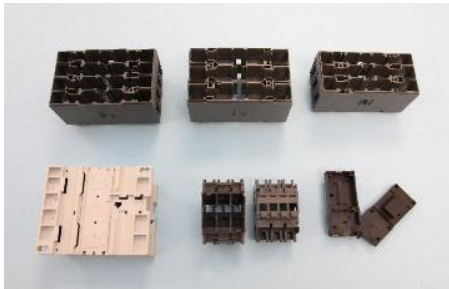
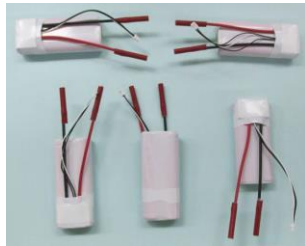


Box build assembly



* Automotive

PORTFOLIO - BG



HUNGARIAN REFERENCES



3M

alber

AKG
by HARMAN

Amphenol

 **BOSCH**

CVR
SURGICAL

Diversey  **TASKI**

FDK

ghd
good hair day, every day

HI-LEX

 **instagrid**

RESERVED
for you

Miele

metabo

PETZL

 **peiker**
a Valeo brand

P&G
BRAUN

PHILIPS

BULGARIAN REFERENCES



ABB

DUNGS[®]
Combustion Controls

Honeywell

 **legrand**[®]

 **LEM**[®]

LIEBHERR

PHILIPS

Schneider
 Electric[™]

 **VIDEOTON**
Group Members

 **SENSUS**
a xylem brand

WHY TO WORK WITH VIDEOTON?



Integrated manufacturing services – „One-stop shop”



Financial stability



Cost-competitive solutions



High flexibility



Customer-oriented focus

ONE PARTNER



MULTIPLE POSSIBILITIES

THANK YOU FOR YOUR KIND ATTENTION!

VIDEOTON HOLDING ZRt.

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