



Expertise in automation

WE PRODUCE
WE ASSEMBLE
WE PROGRAM

www.asyst.videoton.hu www.tipa.hu

CONTENTS

- Videoton Group
- VT ASYST / VT TIPA / SRB
- Applied Technologies
- References



VIDEOTON



- 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

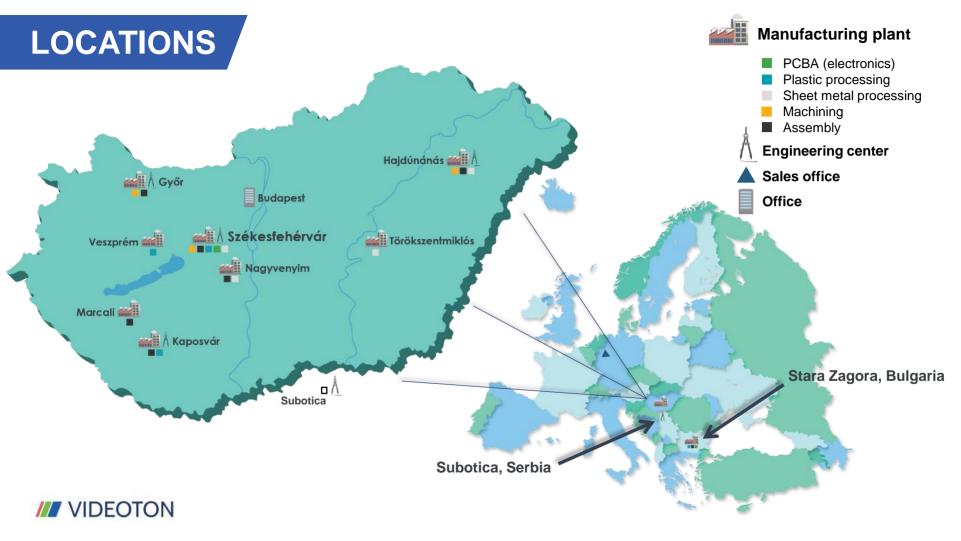


HIGHLIGHTS

Equity Revenue Founded in Private since No debt since 2005 617 1938 457 1992 Mill € Mill € 4th 11 ... of the Most Valuable Employees* **Among EMS** Locations Company in Companies HQ'd HUN in Europe Ownership**

> * 2500 employees in services and temporary work ** According to Forbes in 2021





GROUP STRUCTURE

VIDEOTON HOLDING

Property Mgmt

Controlling

Finance

HR

Legal

IT

Business Development

Sourcing

Design & Engineering

Manufacturing Subsidiaries

Services 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

VT ASYST



Robotized assembly lines Testers



VT TIPA
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



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 SystemtechnicsShelter / container mfg.



Pannonjob HR services



Industrial Park
Building lease & services



VT ARtrans Logistics services



Pannonfacility
Facility management



INTEGRATED MANUFACTURING SERVICES

Box build assembly & System integration













Core technologies













PCBA

Plastic Injection Moulding

Sheet metal fabrication

Stamping

Machining

Electroplating Powder coating KTL / E-coating **Painting**

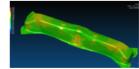
Supply chain



Design & Engineering









Co-design of mechanics & PCBAs, early involvement

DfX, services Production engineering

Industrialization



FURTHER MANUFACTURING COMPETENCES

ROBOTIZED ASSEMBLY LINES, TESTERS



HIGH PRECISION EQUIPMENT ASSEMBLY



CUSTOMER-SPECIFIC SHELTERS



BATTERY PACKS
ASSEMBLY



LARGE WELDED
STEEL CONSTRUCTIONS





CONTENTS

- Videoton Group
- VT ASYST / VT TIPA / SRB
- Applied Technologies
- References



SUMMARIZED HIGHLIGHTS



Engineering, machining, assembly, programming, installation. All parts of special machines production are in one hand. With a strong background support of VIDEOTON.

VIDEOTON





DESIGN

- Mechanical design and control techniques
- 3D modelling, FEM simulation
- Robot simulation & integration
- Prototypes for technological test













Engineers	ASYST	TIPA	SRB
Mechanical Designer	12	13	6
Automat. Engineer (PLC)	8	8	-
Electrical Engineer	4	5	-
PC Software Engineer	4	2	1
Robot program Engineer	2	2	-



PRODUCTION OF PARTS

The VT ASYST has its own tool shop, therefore we are able to manufacture the designed parts in-house. Our main machines are supported by CAM.







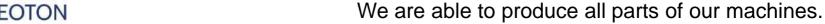








vero edgecam





ASSEMBLY

Where parts become machines...

- Mechanical-assy, electrical-assy, wiring, adjusting on ~1750 sqm
- Assembly is supported by engineers and 3D modell
- STATIC-ACCURACY MEASURING by portable measuring arm





Only fully functional machines are delivered after Factory Acceptance Test (FAT).





PROGRAM

- PLC experiences
- Software design
- HMI design
- Robot programming
- Traceability (RFID)
- MES communication
- Data Acquisition















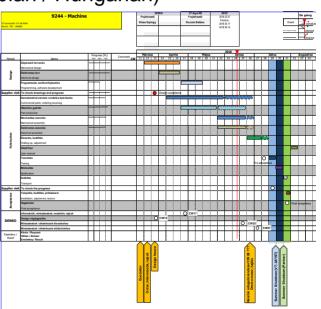
PROJECT MANAGEMENT

Project management

- Surveying and negotiating customer needs in personal meetings, via email, using on-line business platforms
- Communication in four languages (English / German / Serbian / Hungarian)
- Detailed quotation, Schedule, Weekly report
- Customer care after order

One person contact

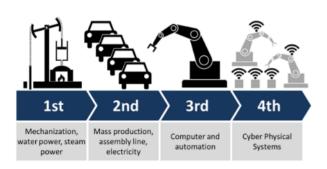






EDUCATION / TRAINING





Training (5.S - Shitsuke):

Training, education and different type of courses for every engineer in every month.

Education:

We are in active cooperation with local universities, train skilled workers by ourselves and contribute to the Industry 4.0 National Technological Platform of Hungary.





QUALITY ASSURANCE

Quality Standard:

> ISO 9001:2015







OUR PARTNERS









































CONTENTS

- Videoton Group
- VT ASYST / VT TIPA / SRB
- Applied technologies
- References





Feeding



Assembly - Packaging /// VIDEOTON



Palettizing



Handling



Screwing



TOXing





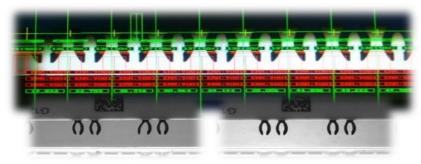
Press-Fitting



Rivetting



Marking (laser, ink-jet, label)

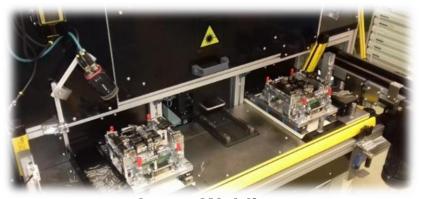


Vision (measuring, recognizing, checking)





Welding



Laser Welding



Electrical Function testing



PCBA Testing
VIDEOTON



Mechanical Function Testing



Leakage testing



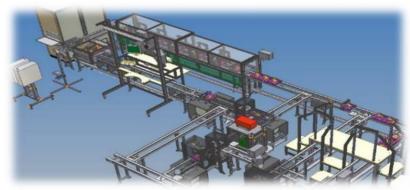
Thermal Processing (Heating / Cooling)



Cutting / drilling/ taping
/// VIDEOTON



Dispensig / Potting / Glueing



Assembly - Line building

CONTENTS

- Videoton Group
- VT ASYST / VT TIPA / SRB
- Applied technologies
- References



Powerbar welding unit







Laser welding production line:

- Hot rivetting
- > Laser welding
- Camera checking
- Eletrical testing



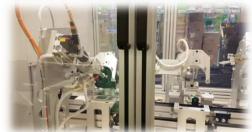












Full automated TCM testing line:

- **BOSCH** transport system
- Electro-mechanical function testing (index, wiper, etc)
- force-way, torque-angle measuring
- laser marking, automatic scrap separator
- > Data Acquisition by Beckhoff









Robot applications:

- Robot Handling
- Additional technologies (oiling, screwing, measuring, leaktest, etc.)









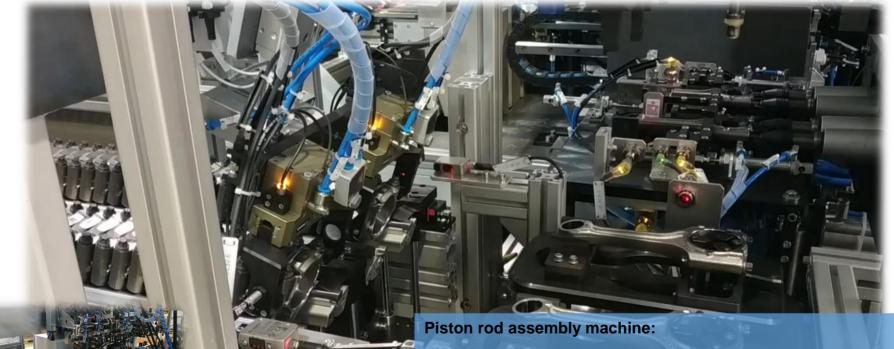


- Automatic material handling outting wolding n
- > Automatic material handling, cutting, welding, palettizing
- > IC cutting, IC pin performing
- Heat staking, welding
- > Cycle time: 5,5 sec, 3 types



VIDEOTON

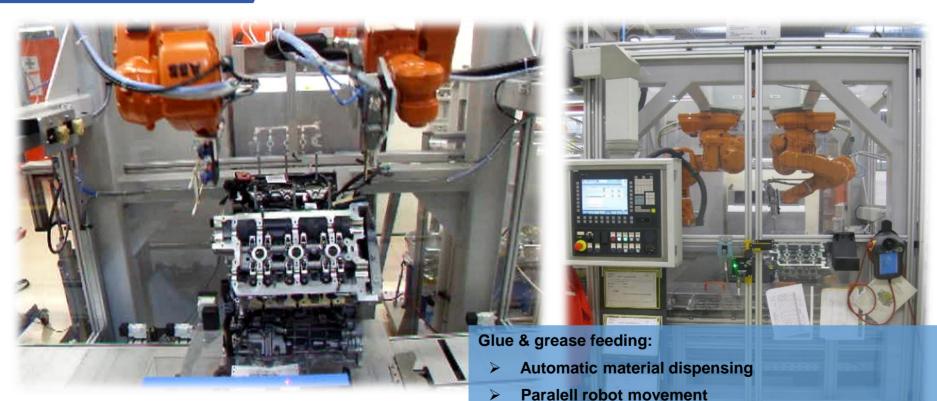




> Splitting

- > disassembly, shaking, cleaning
- bearing feeding & insert
- > Cycle time: 14 sec, rods: 2 types / bearings: 7 types





High precision weight scale

Cycle time: 50 sec, 5 types





THANK YOU FOR YOUR KIND ATTENTION!



VT ASYST Kft.

8000 Székesfehérvár Berényi út 72-100. Tel.: +36 22 533-620

info@asyst.videoton.hu



VT TIPA Kft.

H-9027 Győr Juharfa út 4.

Tel.: + 36 96 510 940

info@tipa.hu



WWW. ASYST.VIDEOTON.HU
WWW.TIPA.HU