digital solutions

from idea to product ...





Core Technologies

- Digital inkjet units
- Flat inkjet printing
- Rotary inkjet printing
- 3D printers
- Industrial machinery solutions

Company Overview

- Established 2005
- Development and production of 3D printers and special machinery primarily for the automotive industry
- ISO 9001 certified: manufacturing, research and development



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Inspection station STV WOCO for Mercedes-Benz cooling pumps Machine cycle: 28 seconds Annual production: 850.000 pcs









Production line assembled from 10 components with 2 ultrasonic welding stations for VW / Audi
Production cycle: 8 seconds Annual production: 2.500.000 pcs

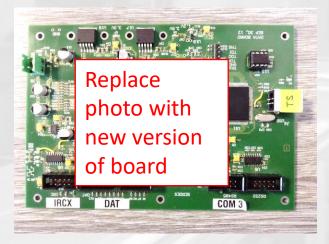




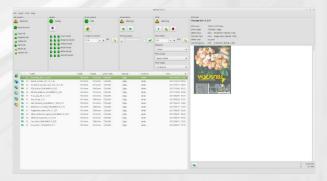


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Electronics for inkjet



Control software for inkjet



- Specialist in inkjet technology
- Expert in construction of industrial digital applications
- Expert in development of electronics and software

Printhead and line for printing rubber boats by separator for Gumotex a.s.







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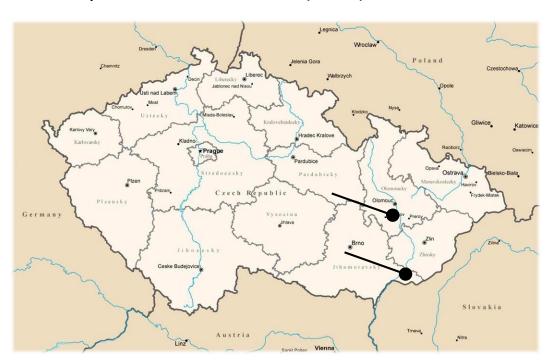
A. Core Business Activities

- Development and production of digital inkjet printing machines
- Development and production of 3D printers

B. Support Activities

- CNC machining of metal products
- Mechanical and electrotechnical assemblies for customers
- Programming and development of printed circuit boards (PCBs)

C. Production Facilities





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D. About Us

- Small and friendly company
- Our mission: be a stable, reliable and honest partner

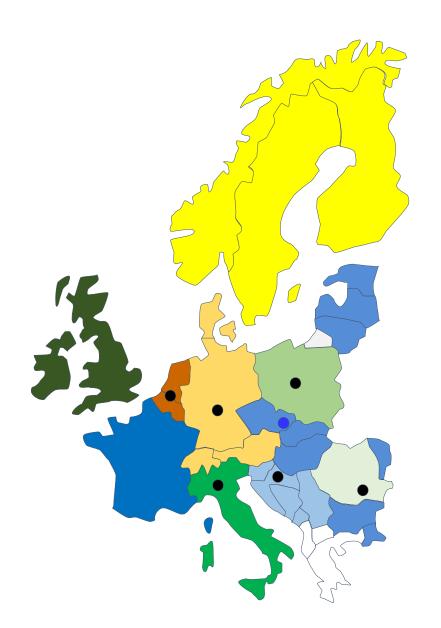
E. Employees and Staff

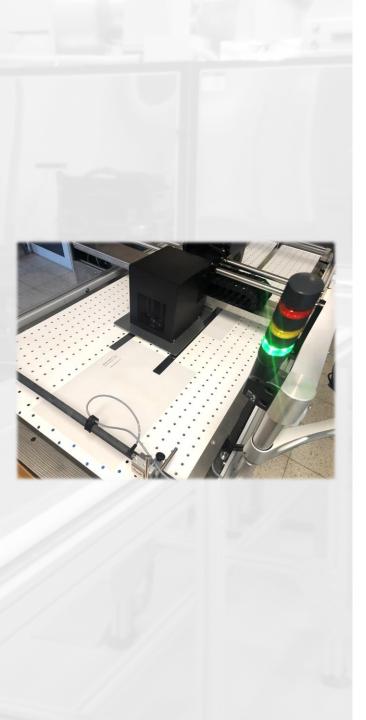
- 17 employees
- 4 external colleagues

F. European Representatives ●

- Benelux
- Germany, Austria, Switzerland
- Poland
- Italy
- Romania
- France (planned for 2020)
- UK (planned for 2020)
- G. Aroja Xorfex s.r.o.

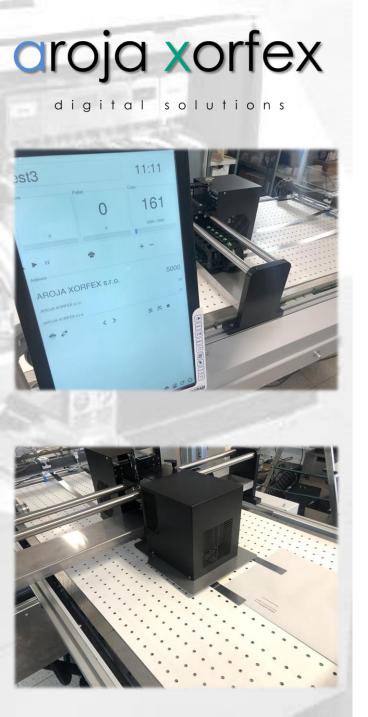






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Digital inkjet printing unit PU800-1CLUV



Printing Unit

- Personalized digital printing each print different
- Average speed of one color printing: 130 lm / min
- Standard print resolution: 360 x 360 dpi
- Dimensions of printed objects: 800 x 1200 mm (dimensions adjustable according to customer requirements)
- Electric energy consumption: 5.7 kWh
- Ink activation: UV LED lamp / final UV lamp
- Special operating software AXprint:
 - Sources data in almost any format from customer's database, information system, website or Excel files
 - Controls text, fonts, barcodes, QR codes
 - Production data and information
 - Report generation for logistics management
- Optional quality control system: OCR (optical character recognition) checking by camera



Printing Unit - Video

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aroja xorfex

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Flat Printing Large Z-Axis Objects







Flat Printing

Technical Data

- Resolution: 360 x 360 dpi
- Dimensions of objects: up to **700 x 1.200 x 200 mm** (dimensions adjustable according to customer requirements)
- Power consumption: 3.0 kWh
- Ink activation: UV lamp / LED UV unit
- Adjustable printing height: 0 500 mm
- Application: vacuum table
- Operating software: **AXprint**





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Flat Printing



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Flat Printing





Flat Printing - Video

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Rotary Printing



Printing directly on the product

- Printing over the entire surface
- Amazing details
- High quality print with 3D effects

Rotary Printing

New technology for product personalization





Printable Items

- Drink cans
- Flowerpots
- Beverage cups
- Bottles
- Candles
- Plastic tubes
- Other rotary coverings

Rotary Printing















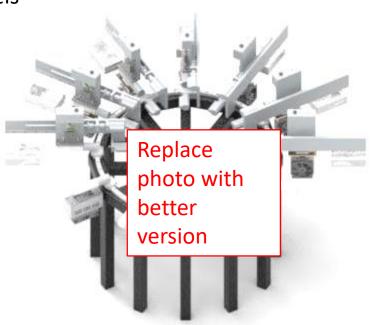
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Rotary Printing Models

- Small series RP model:50 130 pcs / hour
 - Individual printing from 1 piece to batches
 - **No costs** for changing print themes
 - No additional costs for glues, foils or labels
- Medium and large series KP model:400 800 pcs / hour
 - Full automation
 - Up to 12 job positions









Rotary Printing - Video

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Industrial Applications

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Industrial Applications



Digital inkjet solution to prevent vulcanisation of rubber textiles for production of inflatable boats



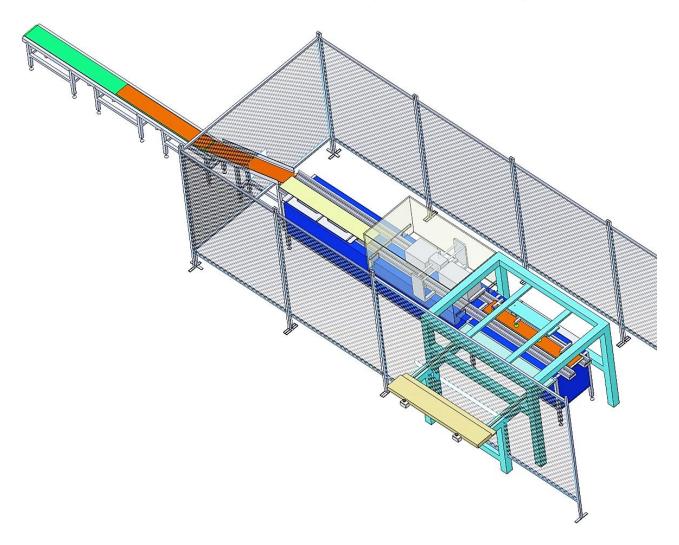




Industrial Applications

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Digital printing line for floor panels

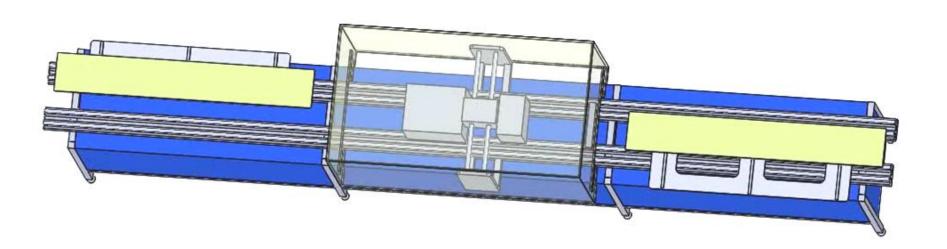




Industrial Applications

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Digital printing line for floor panels

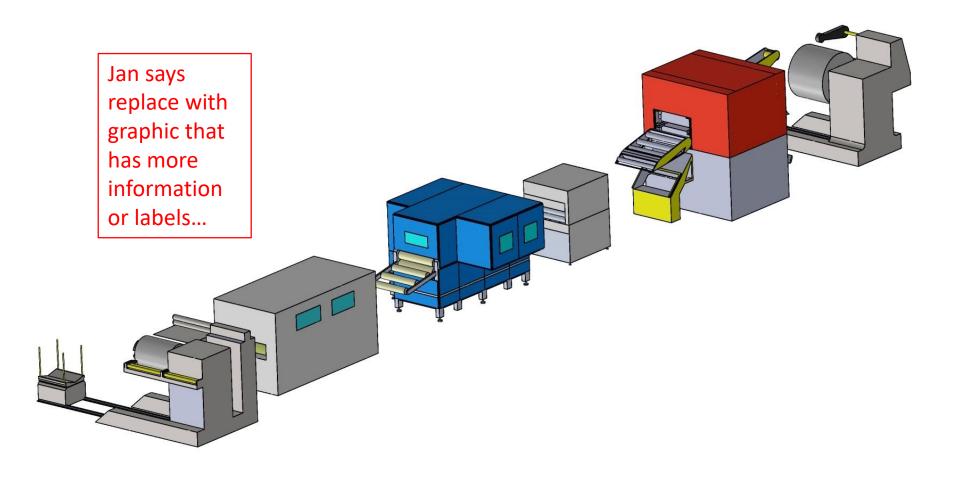




Industrial Applications

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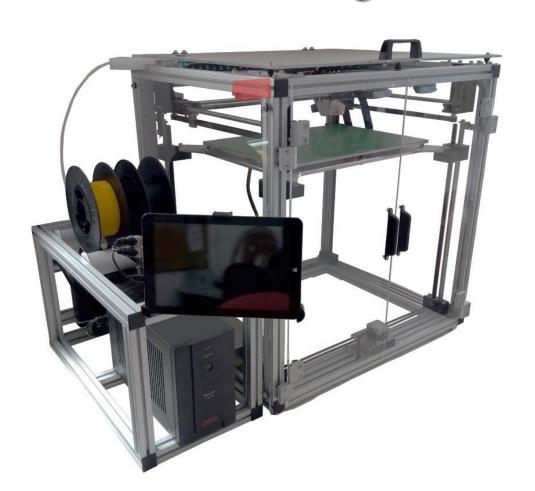
Coil to coil (roll to roll) digital printing solution





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3D Printing





3D PRINTING



3D Printing Technologies

- FFF (FDM): melting of fillament
 - Very fast modeling
 - New design
 - High precision
- Inkjet: ink printing
 - New technology for printing on glass
 - Accuracy of 0,02 mm
- FUVM: UV glue printing
 - New UV curing technology for 3D printing
 - Unique solution



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Aroja Xorfex s.r.o.

Tř. Masarykova 1197 698 01 Veselí nad Moravou Czech Republic www.arojaxorfex.com