

## HISTORY OF NOEX

The history of the enterprise, which was founded in 1986, goes back directly to the 1940s, when an engineer - Antoni Nowak - who at that time was employed at H. Cegielski - Poznań S.A. (a factory manufacturing vehicles, steam tractors, steam locomotives and railroad cars, trams and military equipment, etc.) developed the first post-war vision of independent business.



## TODAY

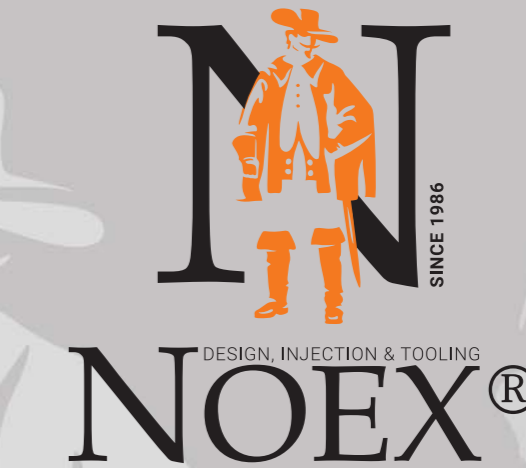
Since 2000, the company has been managed by a representative of the 4th generation of the Nowaks - Waldemar, who set himself the target of diversifying and automating production, treating it not only as a job, but also as a passion. New principal establishment, new technologies, new machines, permanent team, international recognition and the basic, unchanged principle for years:



## NOEX IN NUMBERS

Nowadays, Noex is a company with an international reach, it is modern, dynamic and open to new manufacturing challenges:

- business activity is conducted on an area of over 10,000 m<sup>2</sup>
- stable team of over 150 employees
- over 200,000,000 of products manufactured annually
- processing of over 2,000 T of plastics/year
- over 60 modern injection moulding machines equipped with robots and access zones
- fully equipped tool room
- warehouse for over 1000 pallet places
- own lorry/truck transport throughout Europe
- ISO 9001 - 2015, ISO 13485, SEDEX certificate, Noex - Ecoline



DESIGN, INJECTION & TOOLING

ABOUT COMPANY



ISO 13485



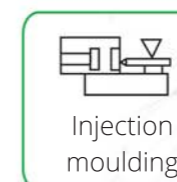
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Who we are • Business profile • Our machinery park • How we can help ...



## NOEX® INJECTION MOULDING ROOM

We offer a comprehensive service for the manufacture of plastic parts by means of injection. From product design, 3D prints, mould execution, to the manufacture of finished products. We are proud of our modern machine park and 35 years of experience in the processing of plastics. Our injection moulding machines and auxiliary equipment are brand new or almost new, and they come only from the best European suppliers - Wittmann Battenfeld and Arburg. We process over 2,000 tons of various plastics and manufacture several hundred million products per annum.

### INJECTION MOULDING MACHINES

- 30 HYDRAULIC injection machines by WITTMANN-BATTENFELD with robots and restricted access zones
  - Closing force 35, 60, 80, 120, 180, 240, 300, 350T, 650T
  - Injection basis weight from 0.5 g to 3500 g
  - Year of manufacture: 2010 - 2021
  - Series: SMART Power, MACRO Power
  - Control system: UNILOG B6 and B8
- 30 ELECTRIC injection machines by WITTMANN-BATTENFELD with high-speed robots and restricted access zones
  - Closing force 55, 110, 180T
  - Injection basis weight from 1 g to 350 g
  - Year of manufacture: 2018 - 2021
  - Series: ECO Power
  - Control system: UNILOG B8
- 4 ELECTRIC 2-component injection moulding machines by WITTMANN-BATTENFELD with robots and restricted access zones
  - Closing force 55, 110T
  - Injection basis weight from 0.5 g to 120 g
  - Year of manufacture: 2020 - 2021
  - Series: ECO Power
  - Control system: UNILOG B8
- 5 injection moulding machines by ARBURG with robots and restricted access zones
  - Closing force 40 - 100T
  - Injection basis weight from 0.5 g to 120 g
  - Year of manufacture: 2016
  - Series: Golden Edition and Allrounder S
  - Control system: SELOGICA
- 5 ELECTRIC injection moulding machines by ARBURG with robots and restricted access zones
  - Closing force 100 - 150T
  - Injection basis weight from 1g to 250g
  - Year of manufacture: 2021
  - Series: Golden Electric
  - Control system: SELOGICA



### AUXILIARY EQUIPMENT

- Compact and ultra high-speed (UHS) robots and controllers by Wittmann
- Wittmann sprue pickers
- IML Systems
- KOCH central hopper and Wittmann feeders
- Blauer Ice water
- Wittmann stationary chillers
- Wittmann cooling units, GWK
- Wittmann compact and rotary dryers
- Wittmann gravimetric and volumetric dosing equipment
- Stationary blenders and large automatic, dedusting vacuum loaders
- Temperature controllers: 90 and 140 degrees, Wittmann, GWK



### PROCESSED RAW MATERIALS

- PS, ABS, SAN
- PP, PE
- PC, PMMA
- PBT, POM, PA
- Eco plastics
- Natural and coloured plastics
- Plastics with fibres and additives
- Flame retardant plastics
- NOVELTY - BIO-plastics
- Inserts, IML
- Two-component injections



### WITTMANN 4.0 PROCESSING

- In cooperation with Wittmann-Battenfeld, we have commenced the process of implementing the WITTMANN 4.0 system, i.e. linking each production cell (communication between machines, robots and peripheral devices) with the company's IT network. Owing to this technology, we will be able to:
- Automatically identify machines and all auxiliary equipment.
  - Automatically configure equipment - plug & produce concept.
  - Significantly contribute to data security within the entire production system.
  - Gain unlimited access via the WiBa QuickLook App.
  - Exchange information with CMS monitoring systems, apply remote control system and Web-Service available to WITTMANN BATTENFELD clients
  - Open the door to a new world of production - Industry 4.0.



## NOEX® TOOL-ROOM

We deal with the manufacture of injection moulds, dies and stamping dies based on the latest technologies both in the design process in CAD/CAM/CAE programs and during manufacture with the use of numerically controlled CNC machines. We have a state-of-the-art machine park consisting of Charmilles, DMG and HASS equipment. We also manufacture elements made of steel, aluminium, copper, graphite and any other material. We can boast of highly qualified staff who have many years of experience in the field of construction, processing and assembly of moulds.

### CONSTRUCTION DEPARTMENT

- design of workpieces and parts
- 2D and 3D modelling
- rapid prototyping - 3D printing
- designs of injection moulds
- injection simulations
- conformal cooling designs
- assistance in selecting the appropriate method of manufacturing products at the modelling stage
- cost estimation of entire projects



### MACHINES AND TOOLS

- Over 30 specialised machines and auxiliary equipment:
- CNC milling machines (CHARMILLES, DMG, HASS)
  - EDMs electrical discharge machines (CHARMILLES)
  - wire cutting machines (CHARMILLES)
  - CNC lathes
  - grinders
  - graphite processing
  - laser welding
  - metal printing
  - measuring instrumentation



### INJECTION MOULDS

- trial and multi-series
- single and multi-component
- standard and sandwich type
- cold and hot runner
- equipped with a slide
- special constructions
- with one or more opening planes



### ENDLESS POSSIBILITIES

- injection moulds
- blow moulds
- dies
- stamping dies
- elements made of steel, copper, graphite
- small and multi-series production
- making of missing parts



## NOEX® MANUFACTURING CO-OPERATION

We devise product concepts for our clients, conduct business and technical analyses, create prototypes, design parts, establish technology, build moulds, inject parts, optimize production processes, assemble finished products, screw/glue/weld components together, machine, set up electronic and mechanical equipment, carry out trials and tests, pack and provide full post-production logistics services and our own transport throughout Europe. We provide our services in the following industries: Smart home, electrical engineering, medicine, laboratories, construction, advertising, household appliances and packaging.

### CONSTRUCTION



### ELECTRONIC ENGINEERING



### ELECTRICAL ENGINEERING



### MEDICINE, HOUSEHOLD APPLIANCES, PACKAGING



## NOEX® PROCESS ENGINEERING

Injection moulds and injection of workpieces are only a part of our business. We ensure full service before and after manufacture. We deal with offset and digital printing on almost all surfaces, we mark products, process plate materials, we build production automation, collection systems, as well as fold and pack parts on our own. We test raw materials, resources used in manufacturing process, components and finished products. We constantly invest in emerging new technical solutions, devices and machines, which provide greater opportunities in production processes.

### PRINT

- PLOTTER PRINTING
- DIGITAL PRINTING
- OFFSET PRINTING



### SURFACE MARKING

- PAD PRINTING
- SCREEN PRINTING
- LASER
- ENGRAVING



### PLATE PROCESSING

- PMMA, PS, PET, PVC
- LASER CUTTING
- CUTTING WITH A CNC PLOTTER
- THERMOFORMING
- ROLLER DIE CUTTER
- BENDING



### MANUFACTURING PROCESSES

- PRODUCT ASSEMBLY
- CUSTOMISING
- PACKING
- LOGISTICS

