

**ZAMMAK**<sup>1947</sup>  
**MERCATOR**

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**MERCATOR**

PRECISION  
IN OPERATION

# Mission

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Our mission is to achieve the lider position as a manufacturer and exporter of innovative laboratory equipment and industrial lines.



# History

1947

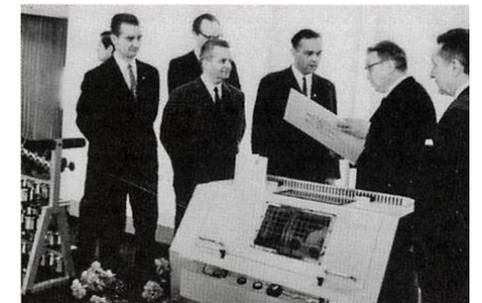
- **Office of Research and Construction** with two departments:
  - cables and wires development
  - equipment construction for the manufacture of cables and wires
- Five pieces of thin wire drawing machines so. L-6 have been designed and made



1979

- Cable Machinery Plant received:
- **Patent No. 122652** on the „Apparatus for coating the outer surfaces of steel pipes”
  - **Patent No. 118276** on the „Method of coating steel pipes”

- Development of the organizational structure within the Engineering Office, which, together with technical infrastructure i.a. it had iron foundry, became the **Department of Cable Machinery**
- Participation in **International Machine Fairs** in Poznan, Basel, Kiev, Hanover, Moscow, Leipzig, Brno



# History

1947



- The first rubber extruders with a screw diameter of 30 mm, 90 mm and 120 mm
- Rubber extruders were used in extruder tandem lines which are able to overlap rubber filling and PVC coating in a single operation on new types of cables

the 80/90's



2000

- The plant transforms to a private company Zamak Cable Machinery Plant LLC



# History

1947



- Development of specialist equipment and tools
- Design and manufacture of machines for Plastics and Rubber industry
  - laboratory extruders
  - industrial extruders
  - cable production and winding lines

2008

- November 2010 award for the modular laboratory extruder- Fair of Plastics and Rubber Processing Industries RubPlast EXPO



2010

- Implementation of the international standard in the enterprise  
Quality Management System **ISO 9001:2008**



# History

1947



2011

Continous development:

- New headquarters with production hall of 2700 m in Skawina near Kraków
- Foundation of **Research and Development Institute**

■ Extending of trade offer with design services:

- mechanical parts
- automation
- electrician

■ RubPlast EXPO – **award** for laboratory twin-screw extruder 2x12 co-rotational



International Fairs  
FAKUMA 2012



- Fairs RubPlast in Sosnowiec distinction for conical twin-screw extruder



2012

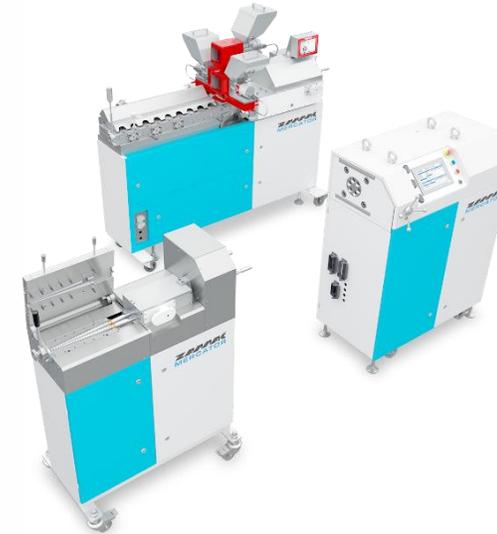
- XVI International Fairs Plastpol distinction for plastic processing properties examination stand

# History

1947



- Beginning of research and development work on **new generation of laboratory extruders** dedicated for:
  - difficult processable composites
  - polymer nanocomposites
  - powders
- **Laboratory extruder** occupies a prominent place in the list of **innovative research projects** in industry under the **Malopolska Regional Operational Programme 2007-2013**.



2013



- Development of machine park:**
- Manufacture and regeneration of plasticizing systems
  - Turning and milling center **CNC 5-axis**  
turning diameter 660 mm  
turning length 1540 mm
  - Deep hole drilling from  $\varnothing 10$  to  $\varnothing 160 \times 4500$  mm

# History

1947



Introduced on the market  
new generation of extruders:

- laboratory extruders for plastic materials



2015

- industrial extruders for rubber



- Patent no 404942 Measuring method of axial force acting on cylinder of screw extruder
- Patent nr 404944 Method for distribution of plastic material in a screw extruder with return circuit.

2016

- ZAMAK MERCATOR company permanently occurred as a producer filament line for 3D printers, significantly increasing the range of users of this type of machinery in Poland and abroad.

- November 2015 title **Symbol of Innovation 2015** for innovative solutions applied in laboratory extruders



# Zamak Mercator is manufacturer of:

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■ Machines and devices

■ Production lines



■ For processing of plastic materials and rubber

# Why have machines Zamak Mercator?

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## ■ Energy saving

Fulfill high standards of energy efficiency

## ■ Innovative

prototype design solutions, protected by patents

## ■ Intuitive

Easy and convenient to use, in accordance with ergonomics

## ■ Universal

the ability to process a variety of blends and production of various profiles

## ■ Digital control

thanks to software solutions work in automatic mode

## ■ Durable

reliable and efficient, increase production efficiency

# Offer

■ Machines and lines for laboratory tests



■ Machines and lines for plastic material processing



■ Machines and lines for rubber processing

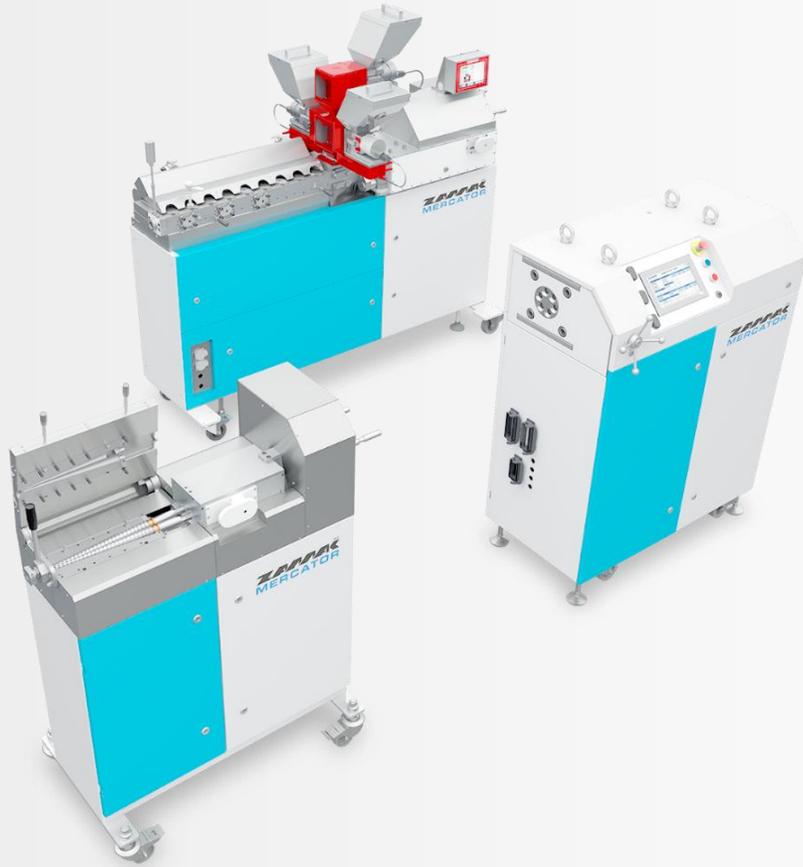


■ Machines and lines for individual technological solutions

# Offer

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## ■ Machines and lines for laboratory tests



## ■ Modular twin-screw extruders

## ■ Laboratory lines:

- Line for granulation (masterbatch)
- Line for extrusion of strand and tape
- Line for filament stretching
- Line for foil

# Offer

- Plastic materials extruders and lines

- Single-screw extruders:

ø16 ø25 ø32 ø45 ø60  
ø75 ø90 ø120 ø150

- Twin-screw extruders:

- parallel: ø12 ø16 ø20 ø24
- conical of capacity: 5-10-15, 5-20 ml

- 3D-printing filament production lines

- Cable production and optical fiber coating lines



# Offer

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- Rubber processing machines and lines



- Single-screw extruders:

ø32 ø45 ø75 ø90 ø120

- Rubber and silicone profile production line

# Offer

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- Machines and lines of individual order
- Machines production according to client specification
- Lines subject to the highest requirements of ATEX and SIL
- Designing of control and automation

Example:

- system for the oxidation of aluminum powder



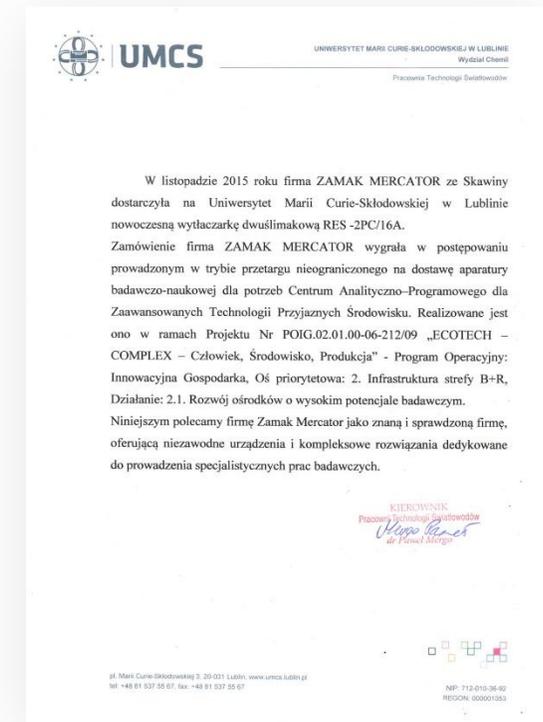
# References



- Maria Skłodowska-Curie University in Lublin  
Optical Fiber Technology Laboratory

*„Niniejszym polecamy ZAMAK MERCATOR jako znaną i sprawdzoną firmę, oferującą niezawodne urządzenia i kompleksowe rozwiązania dedykowane do prowadzenia specjalistycznych prac badawczych.”*

*Head of Optical Fiber Technology Laboratory dr Paweł Mergo*



# References



## ■ Intermet LLC.

*„Firma ZAMAK MERCATOR brała udział w realizowanym przez spółkę Intermet unijnym projekcie badawczo-wdrożeniowym dotyczącym uruchomienia produkcji profili kompozytowych polimer-drewno WPC na liniach do wytłaczania, których producentem był ZAMAK MERCATOR. (...) za projekt spółka Intermet wyróżniona nagrodą POLSKI PRODUKT PRZYSZŁOŚCI.”*

*Chairman of the Board Ryszard Stachowiak*

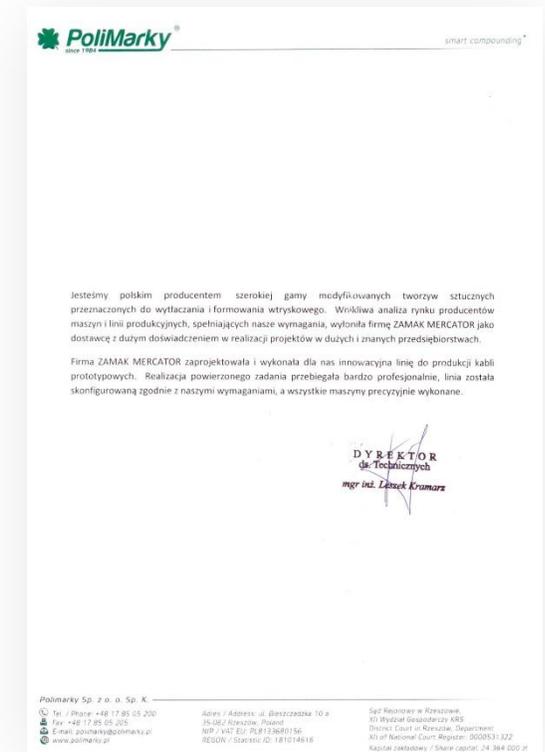


# References

## ■ PoliMarky Sp. z o.o. Sp. K

*„Firma ZAMAK MERCATOR zaprojektowała i wykonała dla nas innowacyjną linię do produkcji kabli prototypowych. Realizacja powierzonego zadania przebiegała bardzo profesjonalnie, linia została skonfigurowana zgodnie z naszymi wymaganiami, a wszystkie maszyny precyzyjnie wykonane.”*

*Technical Director mgr inż. Leszek Kramarz*

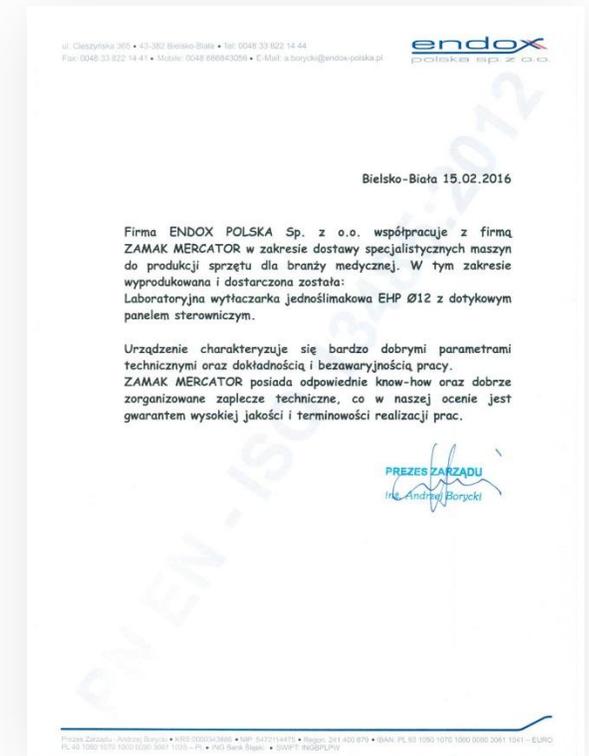


# References

## ■ Endox Polska Sp. z o.o.

*„Urządzenie charakteryzuje się bardzo dobrymi parametrami technicznymi oraz dokładnością i bezawaryjnością pracy. ZAMAK MERCATOR posiada odpowiednie know-how oraz dobrze zorganizowane zaplecze techniczne co w naszej ocenie jest gwarantem wysokiej jakości i terminowości realizacji prac.”*

*Chairman of the Board inż. Andrzej Borycki*



# Commercial tests and research

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- In our technological park Zamak Mercator runs commercial research and test innovative solutions in processing of plastic materials and rubber

We conduct tests for:

The logo for ABB, consisting of the letters 'ABB' in a bold, red, sans-serif font.The logo for MTU Aero Engines, featuring a blue circular graphic with a white swoosh and the text 'MTU Aero Engines' in blue.The logo for GEMO, consisting of the word 'GEMO' in a bold, red, sans-serif font, with the tagline '... einfach Kraft an jeden Punkt' in a smaller, black, sans-serif font below it.The logo for SANTA MAROZZA, featuring the text 'SANTA MAROZZA' in a large, grey, serif font, with 'ITALIAN DESIGN' in a smaller, grey, sans-serif font below it.The logo for BROS, consisting of the word 'BROS' in a bold, white, sans-serif font, set against a blue gradient background.

# Educational activities

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- Zamak Mercator supports the educational activities
  - constant cooperation with Cracow University of Technology
  - educational-practical courses for students in our machine park



**Politechnika Krakowska  
im. Tadeusza Kościuszki**

