

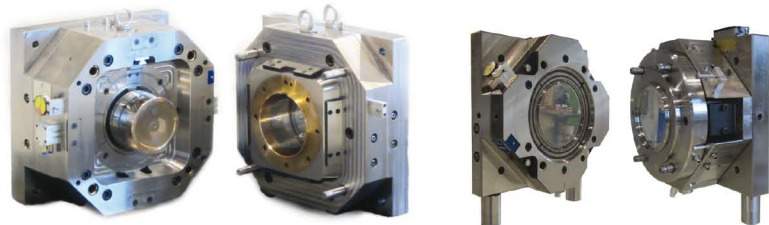
Matritsa is a specialist company in thinwall packaging industry moulds: pails, containers, lids and handles.

[www.nwmatrix.com](http://www.nwmatrix.com)



## Our moulds:

- Long life for non-stop continuous production
- Thinwall injection technology and other product forms
- Shortest cycle times are guaranteed by optimum mould design
- Single and multi cavity moulds



Moulds for pail and lid 2.25 ltrs.

### Mould design:

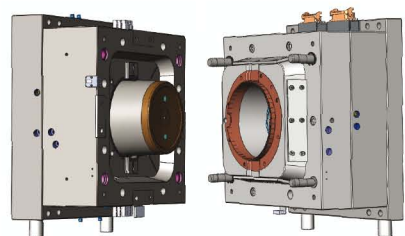
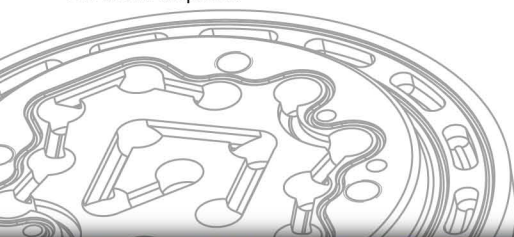
In the design of our moulds we are trying to keep the quantity of moving parts to a strict minimum, what significantly increases the life cycle and operational reliability as well as shorten cycle time.

### Choice of material:

All our moulds are made of high quality material of leading European steel producers with high pressure and wear resistance, whether fully hardened or not. Cores and cavities are hardened using vacuum heat treatment technology. Where necessary we apply exclusive materials with higher heat conduction (BeCu).

### Engineering:

High class professionals work in our engineering department, using the latest CAD and CAM software which supports the most commonly used file extensions: Cimatron, ProE, Unigraphics, SolidWorks, Catia. We can discuss all the technical questions, understanding precisely our clients enquiries.



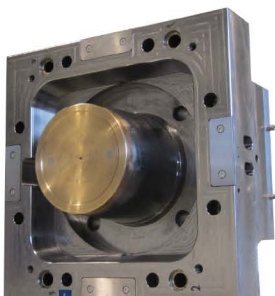
11 ltr Pail mould project with Manner® hotrunner system



11 ltr pail cavity during milling operation

### Product look and design

Optimum product design ensures product piling to it's best. Product form can either be conical or cylinder. Available surface structure options include: compacted, high-gloss polished, direction polished, spark-structure, radial structure, etching structure, engraving work and all possible combinations.



Core: Pail 11 ltr. assembled with core cap (BeCu)

## Production floor



Matritsa offers a variety of services of production, repair, maintenance, modification and engineering of moulds. We have a modern machine park with a possibility of mould testing before delivering it to a client. Our toolshop size is about 2000 m<sup>2</sup> and it is equipped with climat control system, maintaining constant temperature of 20° celcius which is optimal for metalworks. The production floor is equipped with 3 and 5 axis high speed milling centres, turning and grinding machines, EDM centres and 3 axis measuring machine. The main trademarks are Hermle, Deckel Maho, Ingersol, Weiler, Bridgeport, Fanuc, Aba and Hexagon Metrology.

### Total mould repair

We offer mould repairs of any brand or tool producer. Total refurbishings of your old working moulds, cleaning and refreshing old surfaces, engineering new parts, integrating temper evident elements and many more.



0.9 ltr. pail mould  
Mouldmaker: Tecmolde Portugal

### Our foreign partnerships

We represent Oitti Tools in the Russian market, The company specialises on moulds for electrical parts, automotive industry parts and building construction industry. Van den Brink (Netherlands) (Голландия) - производство пресс-форм для тонкостенной высокотехнологической упаковки, а так же систем автоматизации. В настоящее время мы ведем переговоры и с другими западными компаниями проявившими желание сотрудничать с нами.

**OITTI TOOLS**  
[www.oittitools.fi](http://www.oittitools.fi)

**van den BRINK**  
MOULDS & AUTOMATION  
[www.vandenbrinkbv.com](http://www.vandenbrinkbv.com)

Repair, maintenance and modification of automotive injection moulds



**Hexagon Metrology**  
**QUALITY CONTROL CHECK**  
CMM- control measuring machine  
precision of measurements  
0.002 mm



**Weiler E110 -turning machine**  
(operational diameter 1100mm)



**Hermle C-42**  
Our new milling machine with  
precision of 0.005 mm



**Hermle U1130**  
Milling machine



**OPS-INGERSOLL G8000 OPS600**  
Electrical discharge machine  
with CNC centre for milling electrodes



**ABA Ecoline**  
Flat-grinding machine

## Automotive industry

Recent car manufacturer boom in Russian Federation has brought a lot of moulds repair works into the region. Carpart manufacturers are constantly approaching us in order to repair and modify their injection moulds

**no more than  
10 tons in weight**



Our customers include these companies



## Metalworks services

- Turning works  
Working diameter 1100mm, lenght up to 2000mm.
- Electrical discharge machining  
Working coordinates X-Y-Z = 550 x 850 x 450mm
- Wire cutting electrical discharge machining  
Working coordinates X-Y-Z = 320 x 220 x 180mm
- Graphite and copper electrodes production
- Flat-grinding works  
Dimensions: 1500mm x 700mm
- Round-grinding works  
Dimensions: diameter 450mm, length 1000mm
- Milling works  
Five axis: X-Y-Z= 1300x720x630mm  
Three axis: X-Y-Z= 1050x805x600mm

