Company presentation

LARMa.s.
About us

LARM a.s.

Production of optoelectronic and magnetic encoders

CNC machining

Mechanical and electrical assembly
Company LARM a.s.

- Production area 2050 m²
- 85 employees
- Premises with an area of 24000 m²
Nationalization of the company – national enterprise Centroflor

Building a factory for producing briquettes

Enterprise ZPA Netolice
Machining begins

Optoelectronic incremental encoder IRC 110-111

The encoders for measuring the position of numerically controlled machine tools

Independent join-stock company LARM a.s. is founded

Building a factory

Purchasing of the first CNC machine

Quality management certified in accordance with ISO 9001:2000

Certificate retained ISO 9001:2008

1905
1948
1977
1981
1989
1992
1998
2000
2015
ENCODERS, PROBES

Optoelectronic (absolute/incremental) and magnetic (absolute/incremental), dual encoders, measuring probes, draw wire encoders, hand wheels and electrical power units

Accessories:
Connectors, encoder holders, encoder clips, pinions, connection cables
CNC Turning
CNC Milling

We process the following materials:
- Free machining steel
- Carbon steel
- Stainless steel
- Bronze
- Copper
- Brass
- Aluminium
- Cast-iron
- Plastic
- Including casting and forgings

In cooperation we provide the following surface treatments:
- Case-hardening
- Tempering
- Powder coating
- Anodising
- Galvanising
- Blackening
- Silvering
- Plasma nitriding
- Engraving
- Tumbling
## Machine Equipment

<table>
<thead>
<tr>
<th>CNC TURNING</th>
<th>Max. workpiece diameter (mm)</th>
<th>Max. workpiece length (mm)</th>
<th>Counter-spindle (mm)</th>
<th>Driven tools</th>
<th>Spindle passage</th>
<th>Material feeder</th>
<th>Max. workpiece weight (kg)</th>
<th>No. of machines</th>
</tr>
</thead>
<tbody>
<tr>
<td>OKUMA LB3000 EXII (MYW-450)</td>
<td>300</td>
<td>450</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>OKUMA LB3000 EXII (MC-500)</td>
<td>300</td>
<td>500</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>OKUMA LB3000 EXII (MC-500)</td>
<td>300</td>
<td>500</td>
<td>NO</td>
<td>YES</td>
<td>65 mm</td>
<td>YES</td>
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<td>1</td>
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<tr>
<td>GILDEMEISTER CTX410</td>
<td>280</td>
<td>550</td>
<td>NO</td>
<td>NO</td>
<td>65 mm</td>
<td>NO</td>
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<td>2</td>
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<tr>
<td>GILDEMEISTER CTX 420 LIN</td>
<td>290</td>
<td>550</td>
<td>NO</td>
<td>YES</td>
<td>65 mm</td>
<td>YES</td>
<td>15</td>
<td>2</td>
</tr>
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</table>

Optimal production batch (pcs)

<table>
<thead>
<tr>
<th>0</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>700</th>
<th>800</th>
<th>900</th>
<th>1000</th>
</tr>
</thead>
</table>

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## Machine Equipment

<table>
<thead>
<tr>
<th>Model</th>
<th>Work desk / mm</th>
<th>X – axis (mm)</th>
<th>Y – axis (mm)</th>
<th>Z – axis (mm)</th>
<th>4 – axis /swing ø (mm)</th>
<th>Max. speed range rev. /min.</th>
<th>Max. workpiece weight</th>
<th>No. of machines</th>
</tr>
</thead>
<tbody>
<tr>
<td>HERMLE C250</td>
<td>Ø 450 X 360</td>
<td>600</td>
<td>550</td>
<td>450</td>
<td>-</td>
<td>15 000</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>5 axis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAZAK VCN-530C SmoothG</td>
<td>1300 X 550</td>
<td>1050</td>
<td>530</td>
<td>510</td>
<td>300</td>
<td>12 000</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>MCV 1016 QUICK</td>
<td>1 300 X 600</td>
<td>1 016</td>
<td>610</td>
<td>710</td>
<td>300</td>
<td>10 000</td>
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<td>1</td>
</tr>
<tr>
<td>MCV 1000 QUICK</td>
<td>1 300 X 600</td>
<td>1016</td>
<td>610</td>
<td>710</td>
<td>-</td>
<td>10 000</td>
<td>15</td>
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<tr>
<td>MCV 754 QUICK</td>
<td>1 000 X 500</td>
<td>754</td>
<td>500</td>
<td>550</td>
<td>300</td>
<td>10 000</td>
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<tr>
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<td>550</td>
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<td>10 000</td>
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<td>MCV 750 SPEED</td>
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<td>12 000</td>
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<td>1</td>
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<tr>
<td>MCV 750 A</td>
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<td>750</td>
<td>500</td>
<td>500</td>
<td>300</td>
<td>12 000</td>
<td>15</td>
<td>1</td>
</tr>
</tbody>
</table>

**Optimal production batch (pcs)**

0 50 100 200 300 400 500 600 700 800 900 1000
Example of Production
MECHANICAL AND ELECTROTECHNICAL ASSEMBLY

Assembly of precision mechanics and the assembly units, the production of connecting cables or cable harnesses, PCB assembly, distribution boards.

- Assembly area 360 m²
- ESD area 150 m²
Quality Management

- **DIN EN ISO 9001:2008**
  - 100% rating from material certification to output checks
  - Separate measuring workstation
  - MITUTOYO and MAHR surface roughness testers

- WENZEL and ZEISS 3D coordinate measuring machines

**STEP CAD Convertor** for transferring geometric elements and free-shaped surfaces between individual CAD systems, or measuring software.
Our Customers Worldwide

Non – EU countries
- Australia
- Canada
- Egypt
- Ethiopia
- Georgia
- Hong Kong
- China
- India
- Macedonia
- Mexico
- Norway
- Pakistan
- Peru
- Philippines
- Russia
- SAE
- Salvador
- Serbia
- Singapore
- South Africa
- Sri Lanka
- Switzerland
- Syria
- Ukraine
- USA

EU countries
- Austria
- Belgium
- Bulgaria
- Croatia
- Cyprus
- Estonia
- Finland
- France
- Germany
- Great Britain
- Greece
- Hungary
- Ireland
- Italy
- Lithuania
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
Corporate Development

• **Targeting** at new opportunities and commercial markets
• Production programme **innovation** in the field of encoders
• **Modernisation** of machinery with a new CNC milling and turning centres
• **Development** and training of employees
• **Making use** of students and graduates
• **Implementation** of the new technologies and trends
• **Continuous improvement**
• **CSR activities**
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