THE HEADQUARTERS

OME
BRESCIA
(ITALY)

- 120 people on 35,000 sqm (12,000 covered).
- Legal and administrative headquarters, General Management, Italy and Export trade headquarters.
- Production of vitrified, resinoid and rubber bonded grinding wheels.
- Production of vitrified DIA/CBN wheels.
PRODUCTION UNITS

MACLUDIO
BRESCIA (ITALY)

20 people on 50,000 sqm (10,000 covered). Production of vitrified bonded grinding wheels.

molemab
Inotech GmbH
LAUNSDORF (AUSTRIA)

40 people. Production of resinoid and metal bonded Diamond and CBN wheels.
PRODUCTION UNITS

molemab USA Corp. OSWEGO ILLINOIS (USA)

- 4 people.
- Production of Vitrified bonded CBN and Diamond wheels.
molemab develops, produces and sells a full range of grinding wheels and diamond tools.
OUR PRODUCTS

Super abrasives (CBN and diamond)

- resinoid bonded grinding wheels
- metal bonded grinding wheels
- vitrified bonded grinding wheels
- electroplated grinding wheels
- diamond dressers
OUR PRODUCTS

Bonded abrasives

- resinoid and vitrified bonded grinding wheels and segments
- honing and superfinishing stones
- regulating rubber bonded wheels for centerless grinding
- mounted points
## Our Market Segments

<table>
<thead>
<tr>
<th>Industry</th>
<th>Image</th>
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</thead>
<tbody>
<tr>
<td>Aeronautic industry</td>
<td><img src="image1.png" alt="Aeronautic Industry" /></td>
</tr>
<tr>
<td>Aerospace industry</td>
<td><img src="image2.png" alt="Aerospace Industry" /></td>
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<tr>
<td>Automotive industry</td>
<td><img src="image3.png" alt="Automotive Industry" /></td>
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<tr>
<td>Railway industry</td>
<td><img src="image4.png" alt="Railway Industry" /></td>
</tr>
<tr>
<td>Motor industry</td>
<td><img src="image5.png" alt="Motor Industry" /></td>
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<tr>
<td>Shipyards</td>
<td><img src="image6.png" alt="Shipyards" /></td>
</tr>
<tr>
<td>Metal working</td>
<td><img src="image7.png" alt="Metal Working Industry" /></td>
</tr>
<tr>
<td>Mechanical industry</td>
<td><img src="image8.png" alt="Mechanical Industry" /></td>
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<tr>
<td>Power industry</td>
<td><img src="image9.png" alt="Power Industry" /></td>
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<tr>
<td>Mining industry</td>
<td><img src="image10.png" alt="Mining Industry" /></td>
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<tr>
<td>Oil industry</td>
<td><img src="image11.png" alt="Oil Industry" /></td>
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<tr>
<td>Food industry</td>
<td><img src="image12.png" alt="Food Industry" /></td>
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<tr>
<td>Paper industry</td>
<td><img src="image13.png" alt="Paper Industry" /></td>
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<tr>
<td>Textile industry</td>
<td><img src="image14.png" alt="Textile Industry" /></td>
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<tr>
<td>Building industry</td>
<td><img src="image15.png" alt="Building Industry" /></td>
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<tr>
<td>Leather industry</td>
<td><img src="image16.png" alt="Leather Industry" /></td>
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<tr>
<td>Sanitary industry</td>
<td><img src="image17.png" alt="Sanitary Industry" /></td>
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</tbody>
</table>
TYPICAL CUSTOMERS

All logos and brands used in this slide are property of their respective owners.
VIT CBN CAMSHAFT GRINDING WHEELS
VIT CBN CAMSHAFT GRINDING WHEELS

Twin layer CBN camshaft grinding wheels - CF body

CBN camshaft grinding wheels - Assembled cams - CF body
VIT CBN CAMSHAFT GRINDING WHEELS

- Twin layer CBN camshaft grinding wheels - For concave cams - Steel body
- CBN camshaft grinding wheels - Steel body
Transmission Shaft and gear grinding – CBN and conventional grinding wheels
Gear grinding - Conventional grinding wheels

Conventional worm grinding wheels

Conventional profile grinding wheels
TIPICAL CUSTOMERS

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GRINDING WHEELS FOR SPECIAL APPLICATIONS

- Broach grinding
- Punch grinding
- Hob grinding
- Rack grinding
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>Molemab Inotech Schleifmittelindustrie GmbH was founded as a subsidiary of the Italian Molemab group.</td>
</tr>
<tr>
<td>1998</td>
<td>Relocation of Molemab Inotech Schleifmittelindustrie GmbH to Launsdorf and increase of production capacity.</td>
</tr>
<tr>
<td>2005</td>
<td>Development and production started of low melting metal bonded CBN- and diamond super-abrasives.</td>
</tr>
<tr>
<td>2008</td>
<td>Development and production started of fine grit diamond super-abrasives for finishing applications (DIA-, META-, POLYGLOSS).</td>
</tr>
<tr>
<td>2013</td>
<td>New product line „TriBond-Systems“ FORTEpro series launched.</td>
</tr>
<tr>
<td>2015</td>
<td>New products / new technologies / „the talking wheel“ - molemAPP.</td>
</tr>
</tbody>
</table>
TIPICAL CUSTOMERS

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CNC PRECISION GRINDING

HSS / carbide / ceramic tools
TOOLS like
- milling cutters
- drills
- reamers
- taps
- profile tools
- side milling cutters
- countersinks
- burrs
- ..... 
- inserts
FORTE 1D
metal-bonded diamond wheel for
HM-applications

Shapes:
11V9 / 12V9-45°
Application:
CNC tool grinding
Cutting speed $v_c$:
$v_c = 27 - 30 \text{ m/s}$

- Excellent edge stability
- High cutting performance

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FORTE 1B
metal-bonded CBN-wheel for
HSS-applications

Shapes:
11V9 / 12V9-45°
Application:
CNC tool grinding
Cutting speed $v_c$:
$v_c = 27 - 35 \text{ m/s}$
Advantages:
- better cooling
- better chip removal
- less power consumption
- better stock removal

Disadvantages:
- a little less edge stability
First wheel we ever made with three different rims (application) in one wheel!

Advantages:
- save time in processing (changing wheels)
- saving costs (3 wheels would be more expensive)
- absolute innovative and customer oriented

application:
- flute drill
- gashings
- clearance
**SPECIAL APPLICATIONS**

Diamond grinding wheels

Insert manufacture

e.g. 11V9 125-10-3-20 in D46 R125 BU194 = Resin Bond
SPECIAL APPLICATIONS

Diamond and CBN wheels for broach grinding

Vitrified CBN wheels for broach grinding

Resin bond CBN wheels for broach grinding
SPECIAL APPLICATIONS

Diamond and CBN wheels for OD and surface grinding

Diamond wheels for carbide insert manufacturer
CNC MACHINES - DIAMOND GRINDING WHEELS VITRIFIED BOND
OUR GOAL
CUSTOMER SATISFACTION

molemab is proud of its work and its values and retains them with passion and integrity.