

Diamond Company Tesch GmbH

Manufacturer of diamond and CBN-coated grinding wheels

About this organisation

Machine translation

This profile has been machine-translated based on data provided in German.

Founded in 1902, Diamant-Gesellschaft Tesch GmbH is a family-run company in the tool manufacturing sector for machining. Based in Ludwigsburg, the company has over 200 employees and specialises in technically complex, individually specified high-performance grinding wheels.

By using CFRP as a lightweight material in tool bodies, Diamant-Gesellschaft Tesch GmbH is significantly expanding the range of options for its customers in terms of manufacturing processes and handling. The CFRP tools are produced directly on site and are mostly used in highly demanding external cylindrical grinding processes, such as crankshaft and camshaft machining. Overall, Diamant-Gesellschaft Tesch is characterised by a high level of vertical integration, which is also evident in the production of FRP. With regard to lightweight construction, it has specialised in high-volume, rotationally symmetrical components. Thanks to the high level of vertical integration, fibres, for example, can be laid in a load-appropriate manner.

Carl-Goerdeler-Straße 14
71636 Ludwigsburg
Baden-Württemberg
Germany
www.diamantttesch.de

Main areas covered CFRP grinding disc body

Infrastructure Fibre laying machine, Coordinate measuring machine, Tempering ovens

Certifications ISO 9001, VDA 6.4

Keywords CFRP, Loops, Grinding discs, Diamond, CBN

Memberships

Organisation type
Small or medium-sized enterprise

Sector


Employees
50 up to 249

Turnover
€10m - €50m

Funding
n/a

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products		✓	✓
Services & consulting Prototyping			✓
Field of technology			
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	✓
<i>Functional integration</i>			
Measuring and testing technology Visual analysis (e.g. microscopy, metallography)			✓
<i>Modelling and simulation</i>			
<i>Plant construction & factory automation</i>			
<i>Recycling technologies</i>			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion		✓	✓
<i>Forming</i>			
Joining Hybrid joining, Adhesive bonding, Sewing, Screwing		✓	✓
Material property alteration Heat treatment		✓	✓
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Electrical discharge machining, Grinding, Cutting			✓
Textile technology Preforming, Knitting, laid web production		✓	✓

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites		✓	✓
Carbon-fiber reinforced plastics (CFRP)			
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
(Technical) textiles		✓	✓
Laid webs			

Contacts

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