



QUALITY MANUFACTURE CERAMICS

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About us

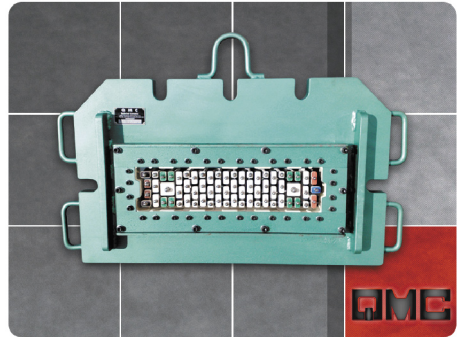
QMC Manufacture Ceramics

Main products

- Roof tile orifice units
- Brick orifice units
- Ceramic pistons
- Thread guide
- Ceramic insulators
- Laboratory crucibles
- Slip ring
- Ceramic orientation bolts for welding
- Glazed ceramic products
- Other ceramics



Roof tile orifice units



Brick orifice units



Thread guide



Other ceramics

Technology and skills

- *Computer-aided design (CAD)*
- *CNC milling*
- *Manufacturing quality and innovative products*
- *Full metal-work background*
- *Dominant role in the Hungarian brick and tile orifice units production*

Selection of raw materials during the production

Aluminium oxide

- *Oxide content: 99,7%*
- *Density: 3,9g/cm³*
- *Ra: 0,8-1 µm*

ZTA (aluminium oxide, zircon oxide)

- *80% aluminium oxide + 20% zircon oxide*
- *Density: 4,2g/cm³*
- *Ra: 0,6-0,8 µm*

Zircon oxide

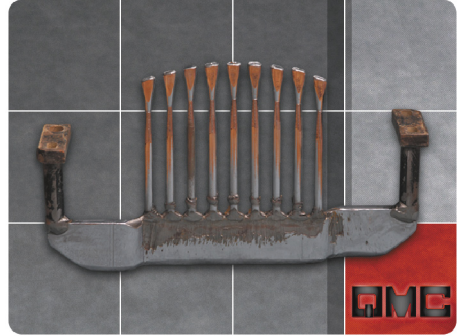
- *YZ yttrium-stabilized zircon*
- *MZ magnesium-stabilized zircon*
- *Density: 5,8g/cm³*
- *Ra: 0,2-0,4 µm*

Steps of oxide ceramic pad production

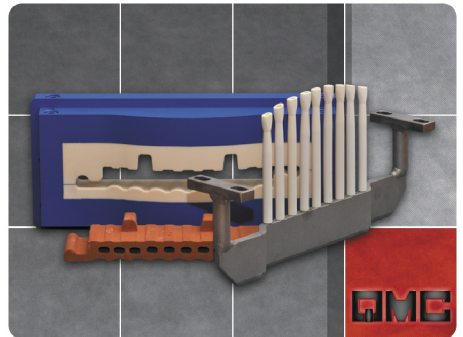
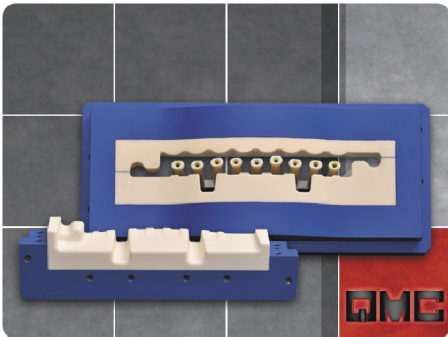
- *We handle every portion of materials identified during the production and we follow every product with an identifying slab until handing over to the customer*
- *This also ensures the reproducibility of the orifice unit*
- *The pre-product is produced with isostatic pressing on 1500 bar pressure*
- *Thereafter we form the shape with CNC machine*
- *Sintering on 1700 °C (3092 F) with a 48 hours automatic regulated cycle*
- *Post-processing with diamond tools*
- *Polishing the surface of the orifice unit with diamond paste for excellent sliding. Surface unevenness: Ra- 0,5-1 µm*

Change to ceramic tools in practice

- *Estimation and documentation of existing tools*



- *Adaption of requirements for the new-construction tools*
- *CAD planning*
- *Tool experiments formation of permanent construction*
- *Getting tools running*
- *Refinement of formed construction with the co-operation of factory experts*



Benefits

- *Significant increase of the lifespan of the tools through the high-grade wear resistance*
- *Remarkable sliding*
- *Fast and flexible modifiability of the tool construction by CAD planning and CNC milling*
- *Ensures optimal tile runoff*
- *The usage of the brake can be largely lessened*
- *The intake significantly decreases*

References in Hungary

CREATON Hungary Kft.

TONDACH Magyarország Zrt.

WIENERBERGER Téglaiipari zRt.

LEIER Hungária Kft.

MÁLYI Téglá Kft.

BERÉNYI Téglá Téglaiipari Kft.

HAJDÚ Téglá Kft.

EGRI Téglagyár Kft.

ALTEK Téglá- és Cserépipari Kft.



International references

England

Hallamshire Engineering Services Ltd.

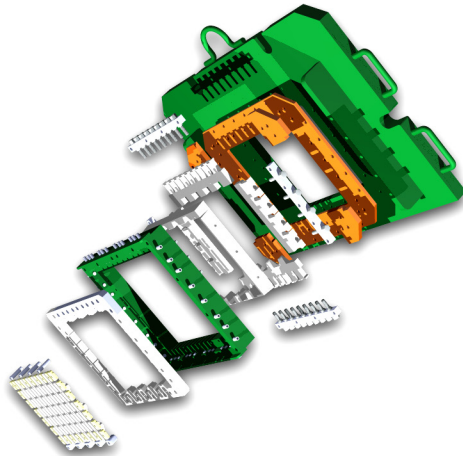
Singapur

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Brick orifice units