



ISSUE 1 2022  
ISSN 2366-1313  
Volume 75 "ZKG Cement Lime Gypsum"  
Volume 111 "ZEMENT"

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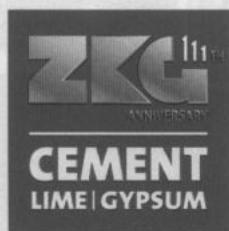
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<sup>1</sup>School of Urban Construction, Wuhan University of Science and Technology, Wuhan/China  
<sup>2</sup>Department of Construction Cost, Wuhan Textile University, Wuhan/China  
<sup>3</sup>State Key Laboratory of Silicate Materials for Architectures, Wuhan University of Technology, Wuhan/China  
<sup>4</sup>China Construction Third Bureau First Engineering Co., Ltd., Wuhan/China



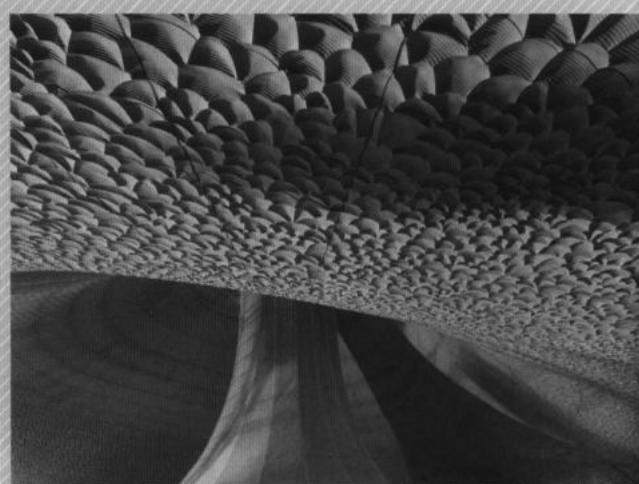
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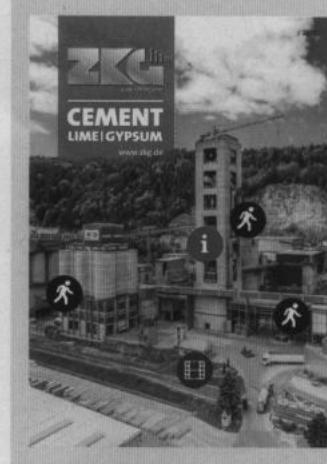
<sup>1</sup>Tianjin University, Tianjin/China

<sup>2</sup>Tianjin Cement Industry Design & Research Institute Co., Ltd.,  
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Cement plant can be virtually walked through for the first time. As part of its digitalization offensive, w&p Zement has taken the next step towards external transparency: People interested in production can now conveniently visit three different w&p locations via their computer or smartphone. The tours of the Wietersdorf cement plant (Carinthia), the Peggau cement and lime plant (Styria) and the Gratkorn ready-mix concrete plant (Styria) can be viewed at <https://alpacem.com/360/>. For more details see p. 25 in this issue. [www.zement.wup.at](http://www.zement.wup.at)

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<sup>1</sup>State Key Laboratory of Refractories and Metallurgy, Wuhan University of Science and Technology, Wuhan/China  
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Beumer Customer Support assists cement manufacturer in the modernisation of bucket elevators



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<sup>1</sup>School of Materials Science and Engineering, Wuhan University of Technology, Wuhan/China

<sup>2</sup>Anshan Jidong Cement Co. Ltd, Anshan/China

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<sup>1</sup>Holcim (Deutschland) GmbH, Lägerdorf/Germany

<sup>2</sup>thyssenkrupp Industrial Solutions AG, BU Cement, Beckum/Germany

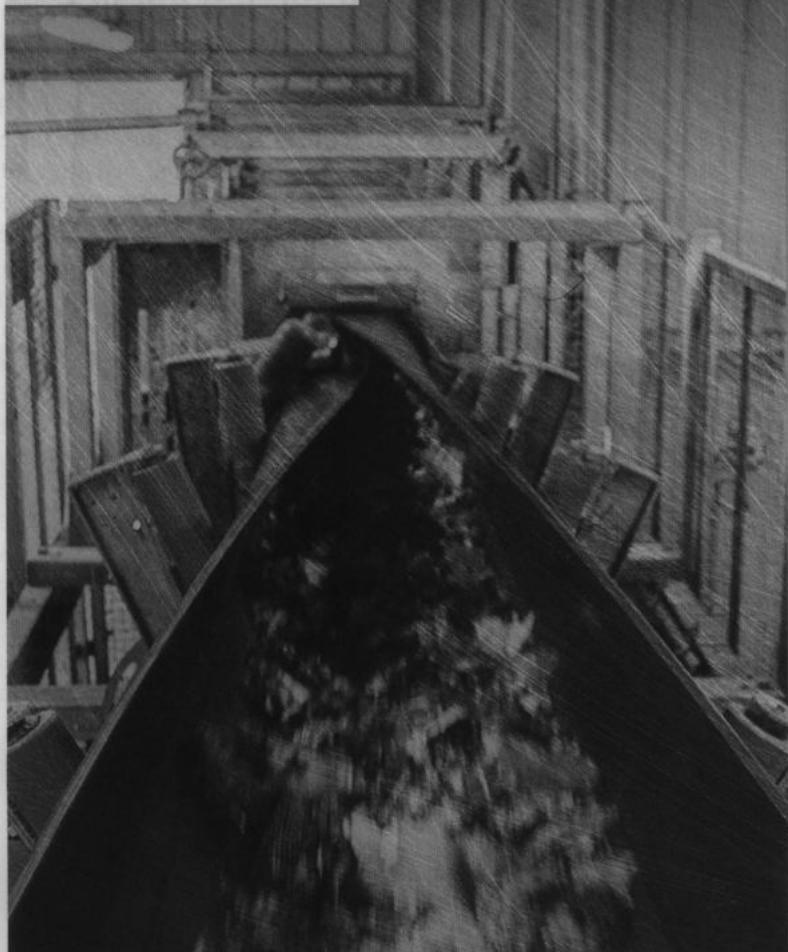
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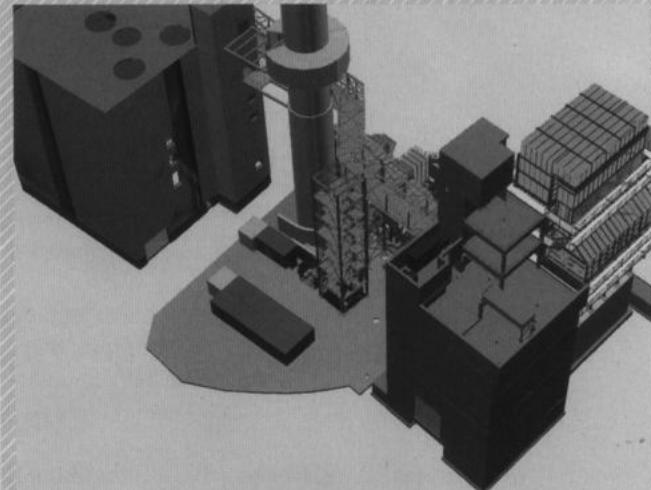
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How to save 20% electric energy in Maerz PFR lime kilns

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<sup>1</sup>Tianjin Cement Industry Design & Research Institute Co. Ltd.  
<sup>2</sup>Tianjin Sinoma Engineering Research Center Co. Ltd.

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Maerz PFR lime kilns

Yves Aschwanden, Hannes Piringer, Maerz Ofenbau AG,  
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Grupo Calidra, Mexico City/Mexico

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<sup>1</sup>School of Urban Construction, Wuhan University of Science and Technology, Wuhan/China  
<sup>2</sup>Institute of High Performance Engineering Structure, Wuhan University of Science and Technology, Wuhan/China  
<sup>3</sup>Department of Construction Cost, Wuhan Textile University, Wuhan/China



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Gypsum – a scarce raw material?



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Clinker and cement reactivity in process control: automated isothermal heat flow calorimetry in lab automation



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Managing conveyor belt carryback

NW Gypsum

Authors

Martin Engineering

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 Federal German Association of the Gypsum Industry  
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**PROCESS**

**40** Clinker and cement reactivity in process control: automated isothermal heat flow calorimetry in lab automation  
 Michael Enders<sup>1</sup>, Daniel Fischer<sup>2</sup>, Mario Marton<sup>1</sup>, Lars Wadsö<sup>3</sup>  
<sup>1</sup>thyssenkrupp Industrial Solutions BU Polysius, Beckum/Germany  
<sup>2</sup>Jura-Cement-Fabriken, Wildegg/Switzerland  
<sup>3</sup>Building Materials LTH, Lund/Sweden

**48** Research progress of nitrogen oxides (NO<sub>x</sub>) control technology for industrial flue gas  
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 Tianjin Cement Industry Design and Research Institute Co., Ltd.,  
 Tianjin/China

**ENGINEERING**

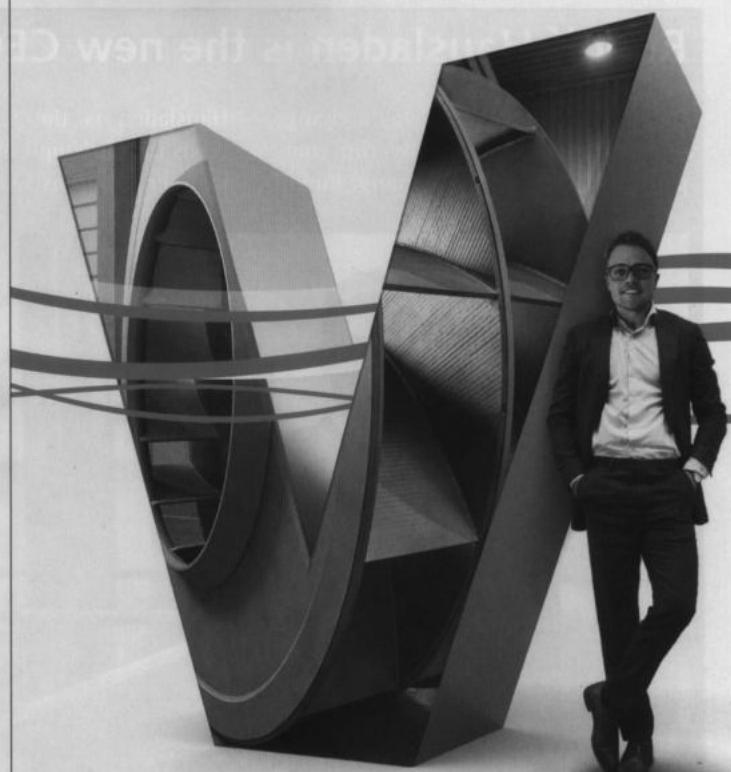
**62** Managing conveyor belt carryback  
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National Council for Cement and Building Materials (NCB)

**18 The halls are packed: This is interpack 2023**  
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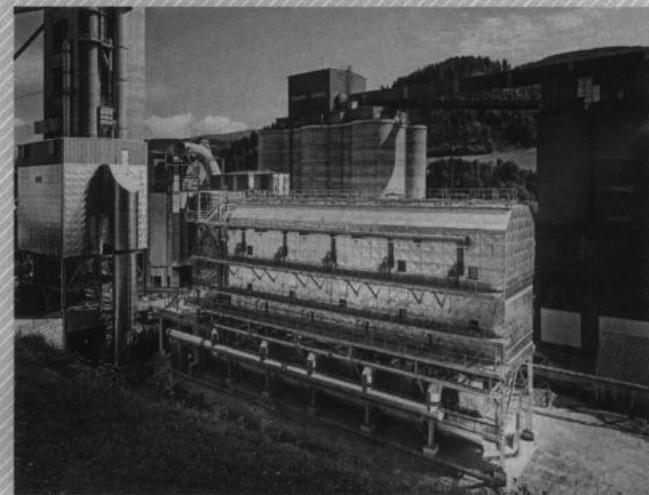
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The cement industry puts its trust in Scheuch technologies for exhaust gas cleaning



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**48** The cement industry puts its trust in Scheuch technologies for exhaust gas cleaning  
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**54** Is it sufficient to use renewable energy sources for lime kilns to achieve the climate goals?  
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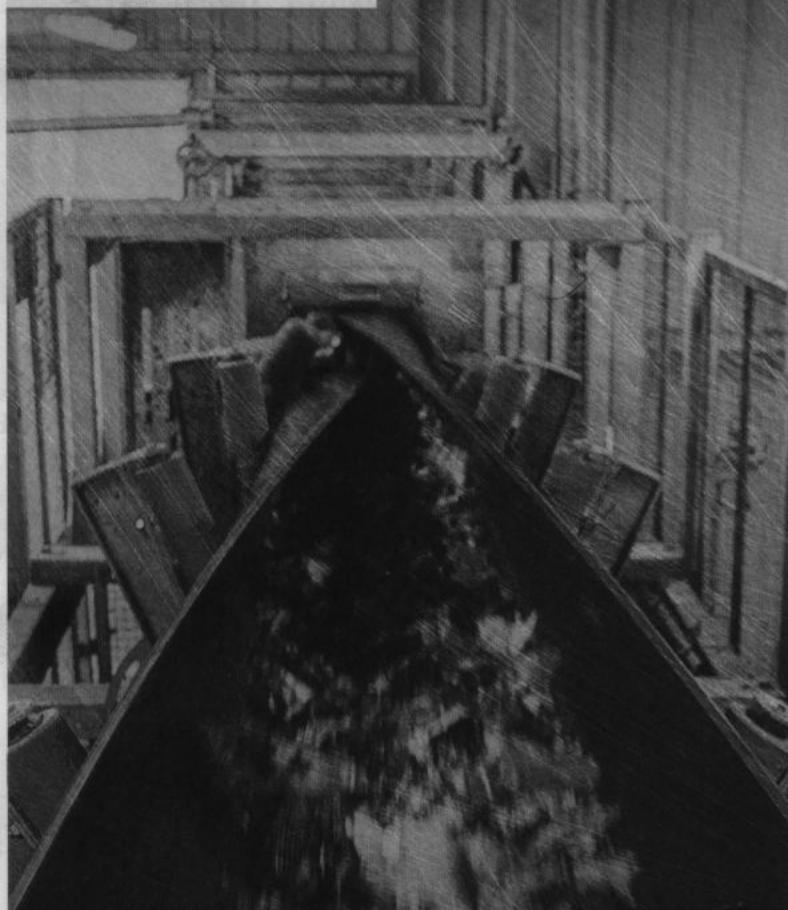
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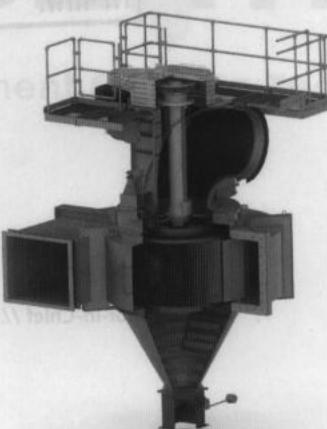
<sup>1</sup>School of Materials Science and Engineering, Tianjin University,

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<sup>2</sup>Tianjin Cement Industry Design & Research Institute Co., Ltd.

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Better decisions in cement strength prediction with artificial intelligence

**Official Journal**

Federal German Association of the Lime Industry  
Bundesverband der Deutschen Kalkindustrie e.V.  
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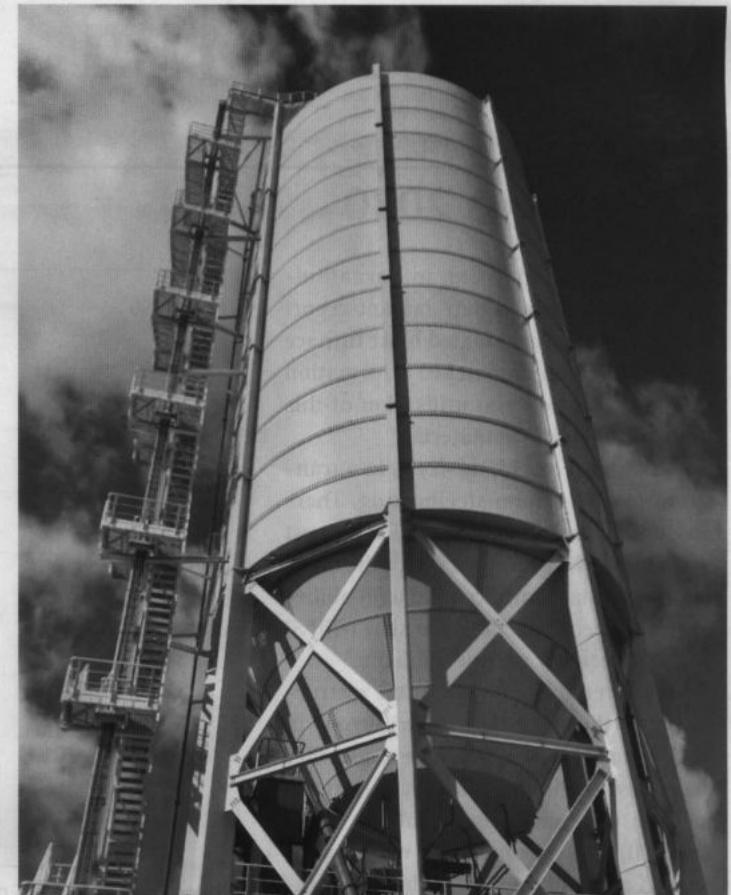
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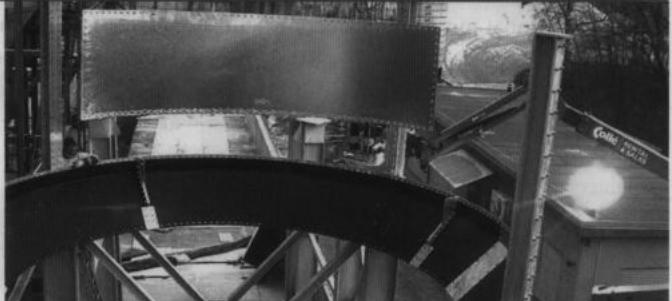


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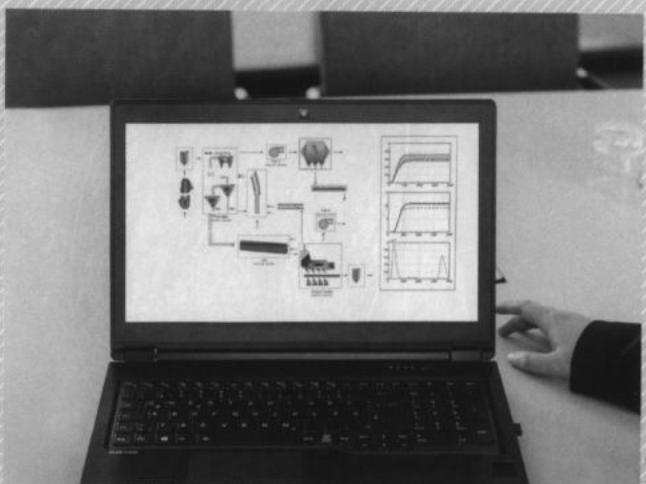
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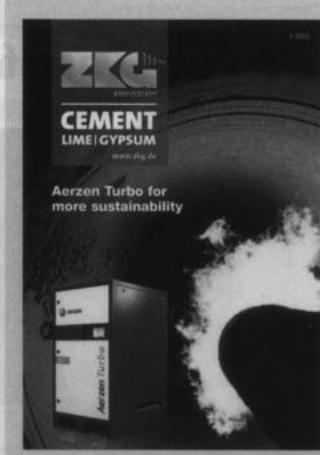
<sup>3</sup>Department of Construction Cost, Wuhan Textile University, Wuhan/China

<sup>4</sup>China Construction Third Bureau First Engineering Co., Ltd., Wuhan/China

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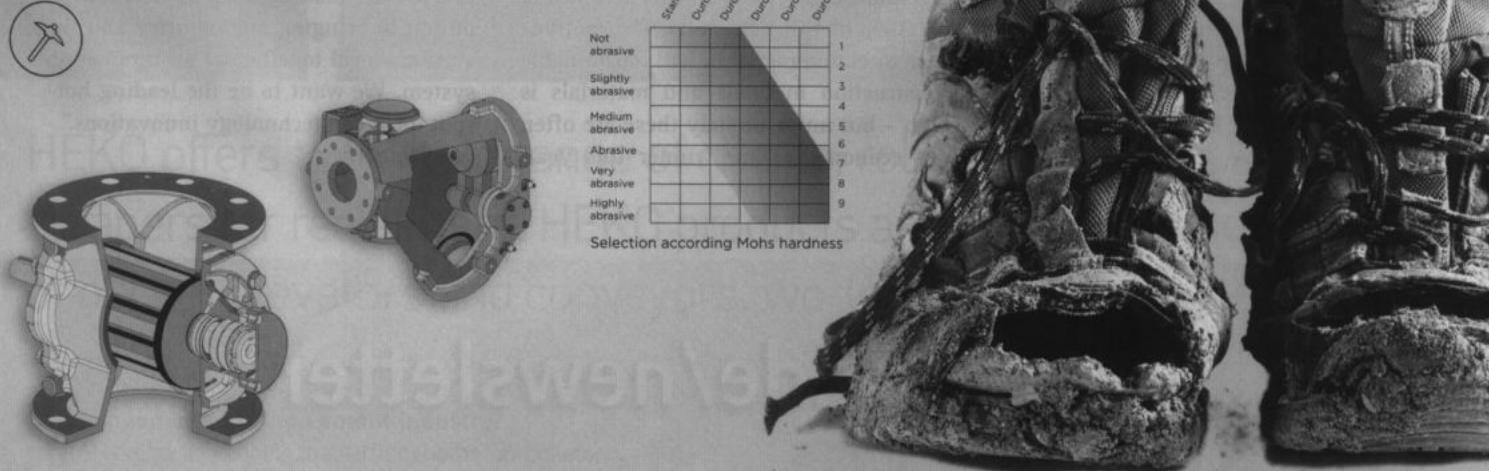
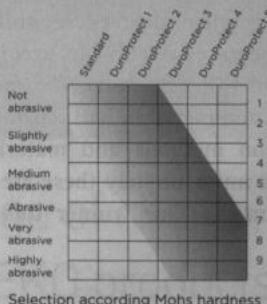
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