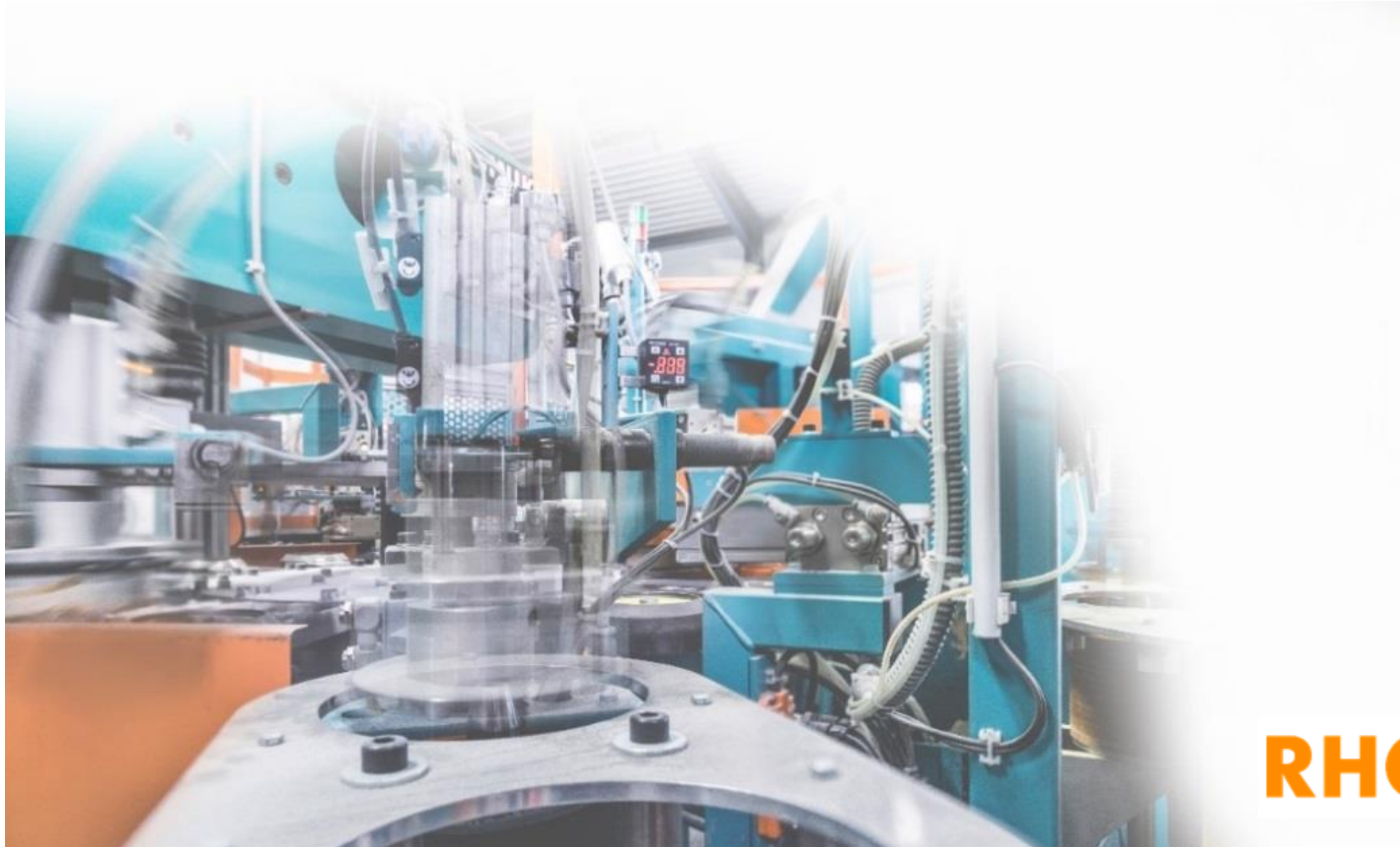


RHODIUS

INTRODUCTION OF RHODIUS ABRASIVES



RHODIUS

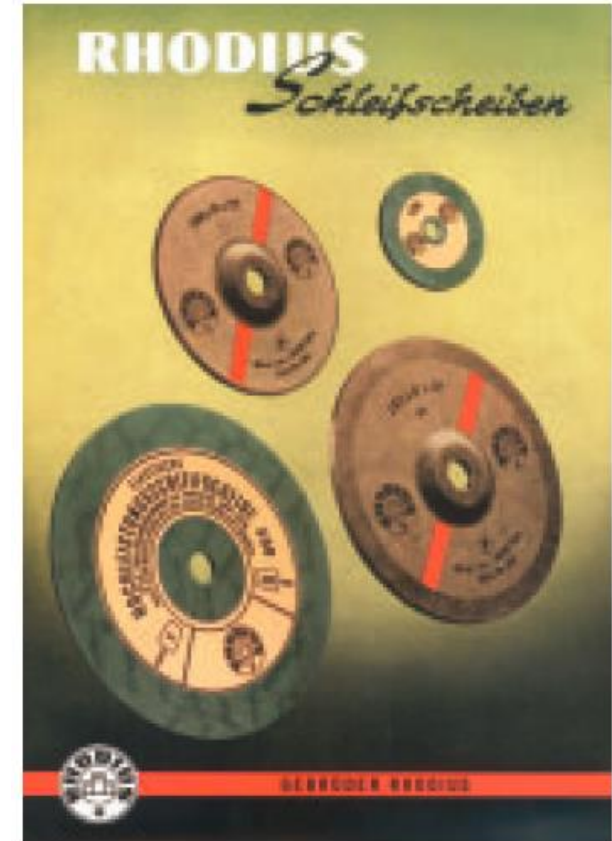


Established: **1952**
Employees: **370 from 29 countries**
Turn over p.a.: **70 Mio. EUR in 2022**
Export: **70 % in over 100 countries**
Head office: **Burgbrohl, Germany**

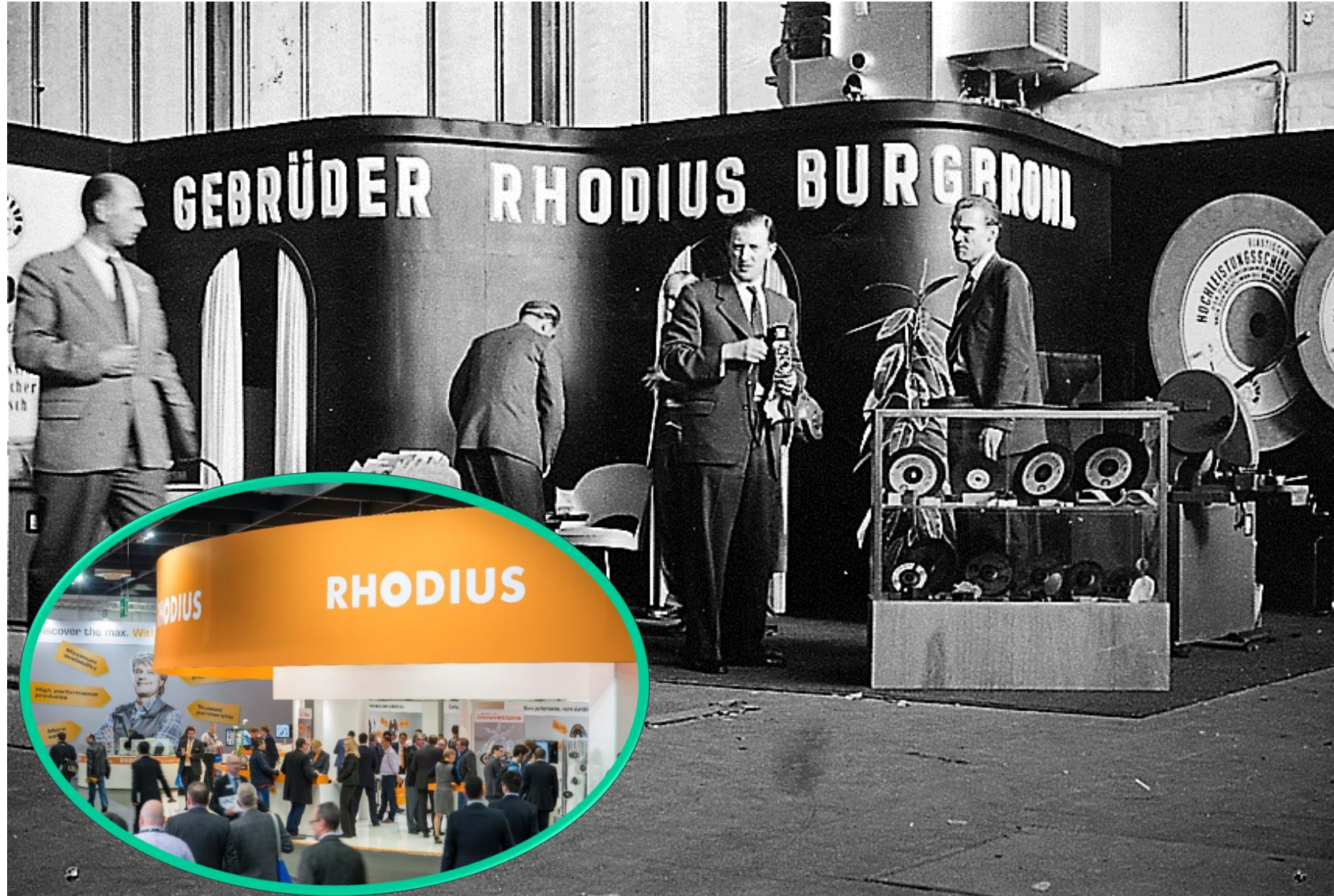
**RHODIUS**



- Family owned RHODIUS since 1827
- First industrial production of grinding wheels in 1952
- 1957: crosswise stack of single reinforcement for increasing stability – first innovation was born
- Technology of self made machines
 - 1960: first semi-automatic machines
 - 2005: thinnest cutting wheel for angle grinders
 - 2015: Hydro Protect
 - 2018: XTK6 125 x 0.6mm



INTRODUCTION OF RHODIUS Abrasives– in old days and today



INTRODUCTION OF RHODIUS Abrasives– in old days and today



INTRODUCTION OF RHODIUS

Head office & production



Burgbrohl

INTRODUCTION OF RHODIUS

Abrasives - worldwide



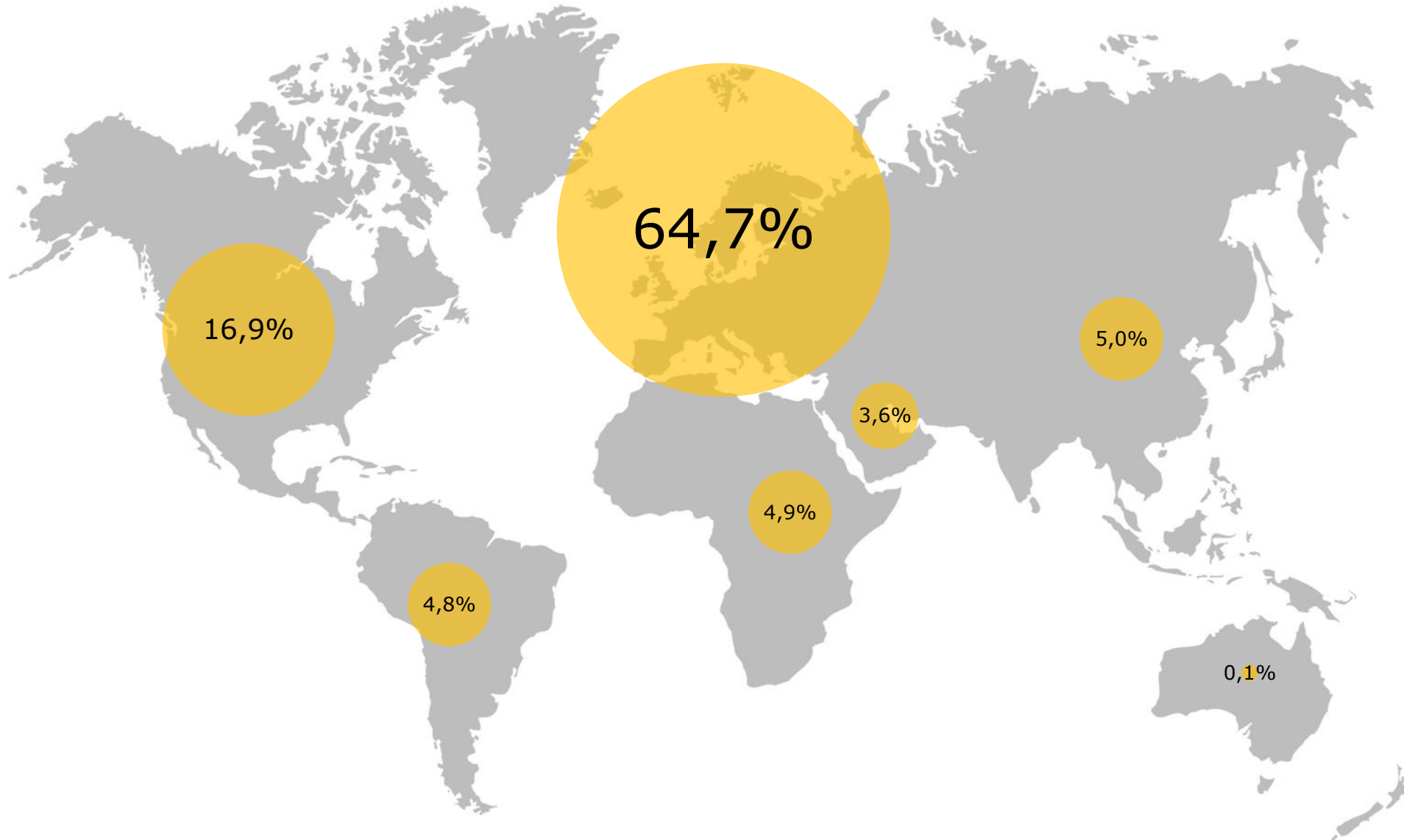
Distribution companies:

- RDACH Germany, Austria & Switzerland
- **RFR France**
- RBNL BeNeLux
- RPL Poland,
- RCEE Czech Republic & Slovakia & Hungary
- RIB Spain & Portugal
- RKR South-Korea
- RSCA South & Central America

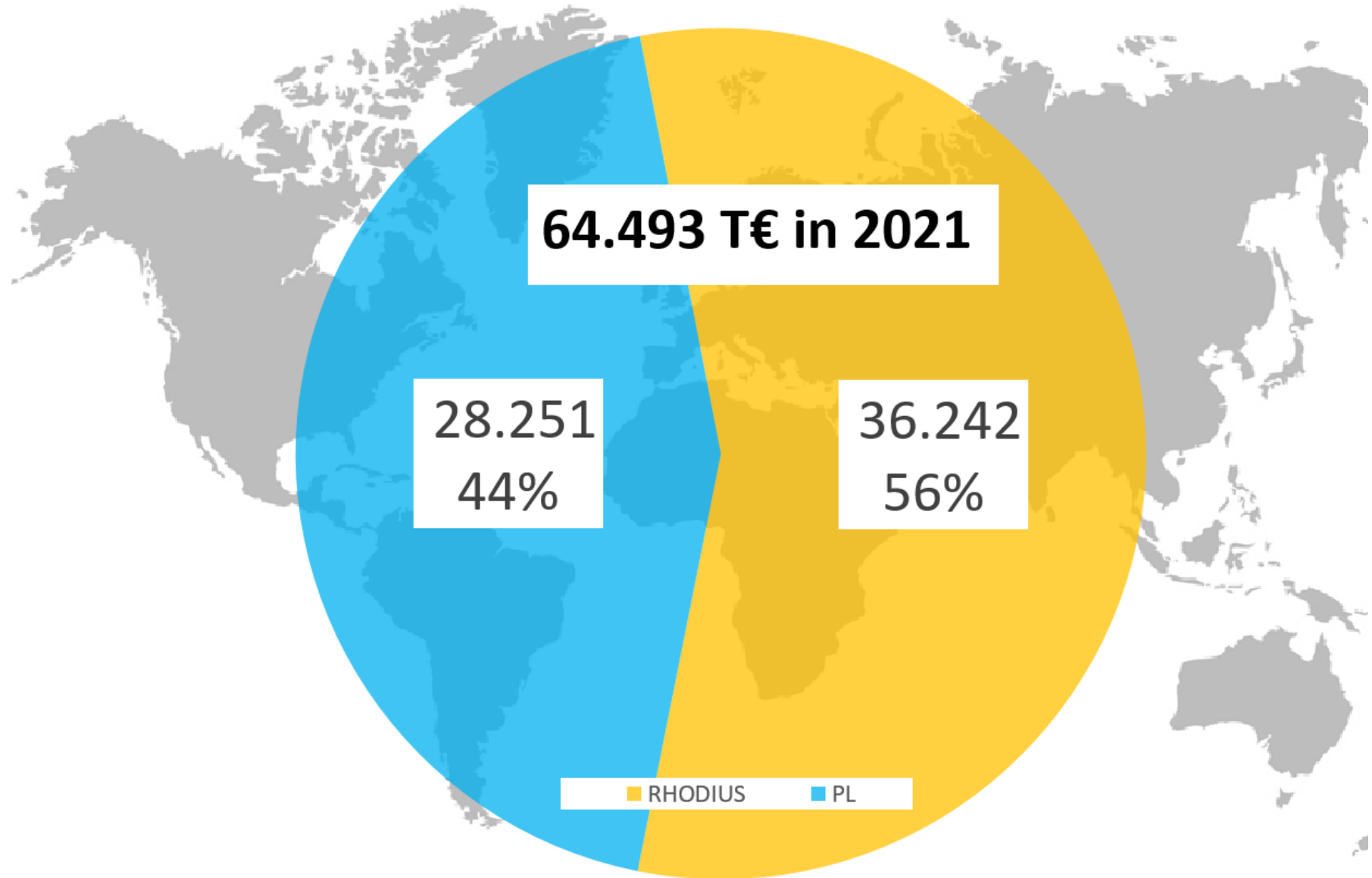
Place of production:
RBB Burgbrohl

INTRODUCTION OF RHODIUS

Abrasives - worldwide share of total sales



INTRODUCTION OF RHODIUS Abrasives - PL





~ 8 Bill. pieces

~ 4 Bill.premium

100 Mio. RHODIUS



- **EN:**
 - **EN 12413** for bonded abrasives
 - **EN 13743** for coated abrasives
 - **EN 13236** for diamond and CBN tools („superabrasives“)
- **Eurasian safety standard:**
 - **EAC** (general)
- **US-Norm:**
 - **ANSI B7.1** for bonded abrasives



oSa-criteria of safety:

- Voluntary self-commitment of producers
- Independent safety tests
- Independent safety audits by external consultants
- Safe retraceability
- Certified quality management with documented processes
- Test facility and test management in production
- Frequent control of production and product control



INTRODUCTION OF RHODIUS Abrasives - certificates



	Current issue date:	9 July 2021	Original approval(s):
	Expiry date:	8 July 2024	ISO 50001 - 17 December 2018
	Certificate identity number:	10383325	ISO 9001 - 20 May 2020

Certificate of Approval

This is to certify that the Management System of:

RHODIUS Schleifwerkzeuge GmbH & Co. KG
Brohltalstr. 2, 50658 Burgbrohl, Germany

has been approved by Lloyd's Register to the following standards:

ISO 50001:2018, ISO 9001:2015

Approval number(s): ISO 50001 – 0027070, ISO 9001 – 00025539

The scope of this approval is applicable to:

ISO 50001:2018; ISO 9001:2015
Development, production and distribution of grinding tools.



Paul Graaf
Chief Operating Officer, Management Systems, MGSIS
Issued by: Lloyd's Register Deutschland GmbH
for and on behalf of: Lloyd's Register Quality Assurance Limited



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Page 1 of 1



INTRODUCTION OF RHODIUS Bonded Abrasives - standards



December 2019

	DIN EN 12413	DIN
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ICS 25.100.70 Supersedes
DIN EN 12413:2011-05

**Safety requirements for bonded abrasive products;
English version EN 12413:2019,
English translation of DIN EN 12413:2019-12**

Sicherheitsanforderungen für Schleifwerkzeuge aus gebundenem Schleifmittel;
Englische Fassung EN 12413:2019,
Englische Übersetzung von DIN EN 12413:2019-12

Exigences de sécurité pour les produits abrasifs agglomérés;
Version anglaise EN 12413:2019,
Traduction anglaise de DIN EN 12413:2019-12

Document comprises 67 pages

Translation by DIN-Sprachendienst.
In case of doubt, the German-language original shall be considered authoritative.

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**INTERNATIONAL
STANDARD**

**ISO
525**

Fifth edition
2020-10

**Bonded abrasive products — Shape
types, designation and marking**

*Produits abrasifs agglomérés — Types de forme, désignation et
marquage*

Reference number
ISO 525:2020(E)

© ISO 2020



murugappa



PRODUCTION, COMPONENTS & LABEL Memberships









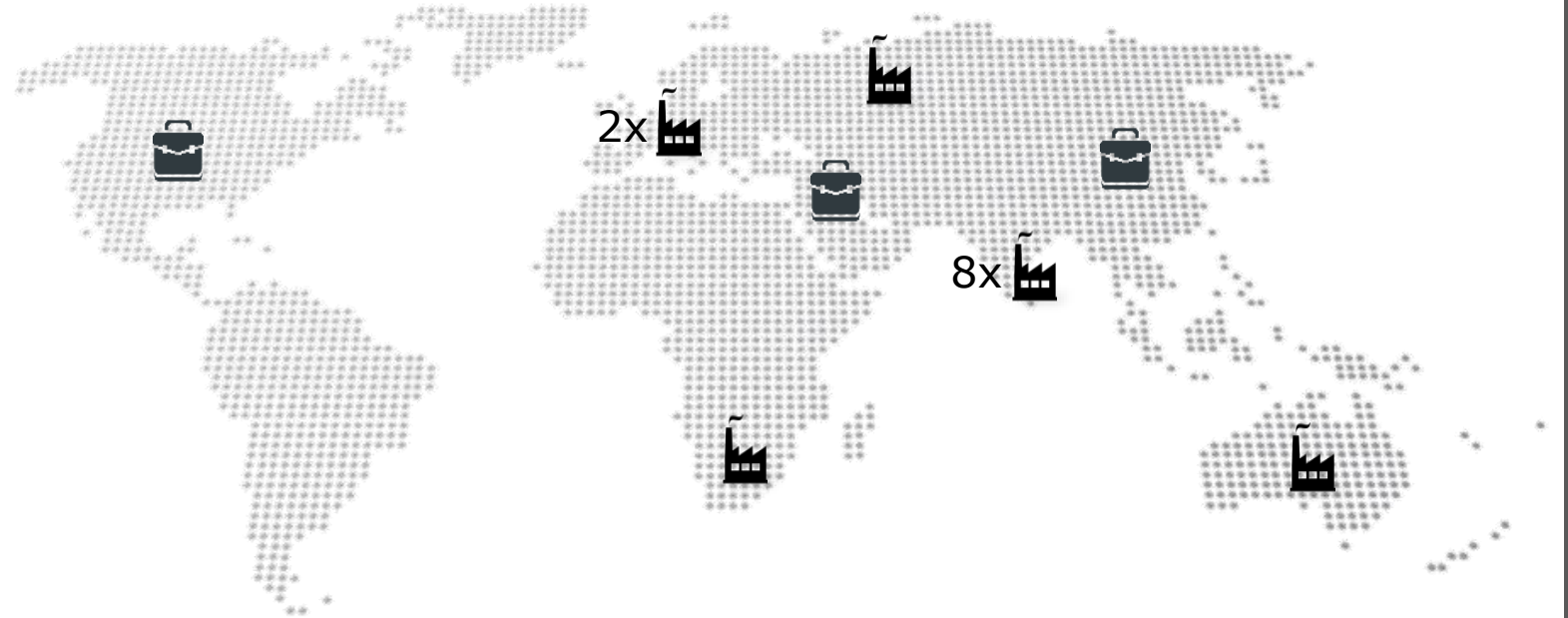
FEDERATION • OF • EUROPEAN
PRODUCERS • OF • ABRASIVES



INTRODUCTION OF RHODIUS Cumi – Global presence



-  Strategic business units
-  Direct subs
-  Joint Ventures
-  Associates
-  Subs via CIL (CUMI International Ltd.)
-  Subs via CUMI Abrasives GmbH



Manufacturing facility




-  Standalone Operations
-  Sterling Abrasives Limited (60%)
-  SEDCO (84.7%)
-  Net Access India Limited (100%)
-  Wendt India Ltd. (37.5%)
-  MMTCL (49%)
-  CIRIA Limited (30%)
-  PLUSS Advanced Technologies (72%)



-  **Rhodius Abrasives (100%)**
-  AWUKO Abrasives (100%)
-  FOSKOR Zirconia (Pty) Ltd. (51%)
-  Volzhsky Abrasives Works (98.07%)
-  CUMI Australia Pty. Ltd. (51.2%)

Marketing office

-  CACCL (100%)
-  CUMI America Inc. (100%)
-  CUMI Middle East (100%)

INTRODUCTION OF RHODIUS

Cumi – products



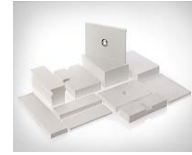
Abrasives



Electro minerals



Ceramics

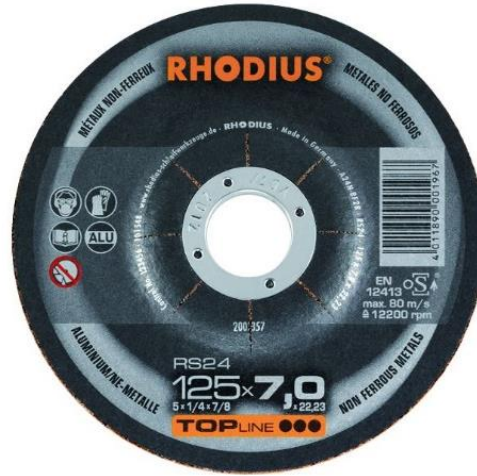
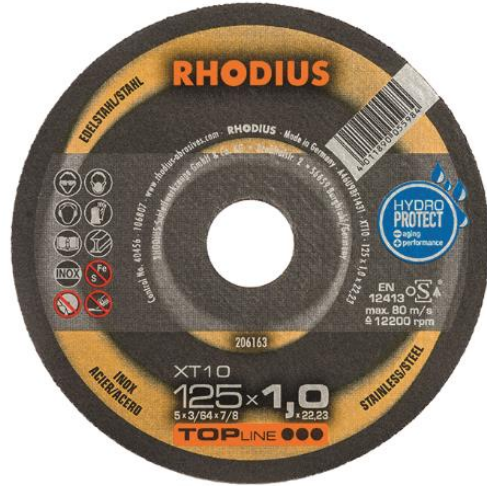


New age materials



PRODUCTION, COMPONENTS & LABEL

Range of products



From rough stock removal ...

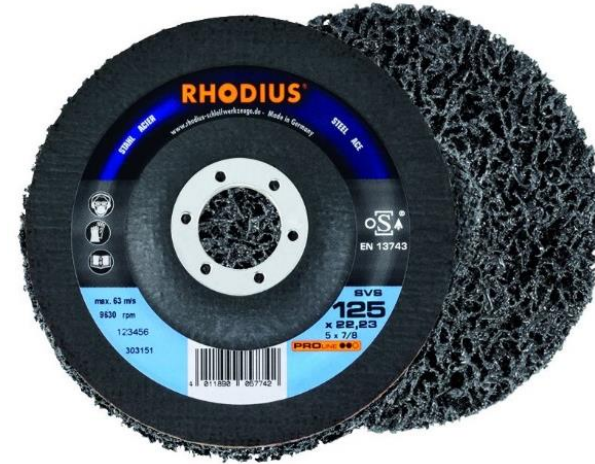


PRODUCTION, COMPONENTS & LABEL

Range of products



... to cleaning ...

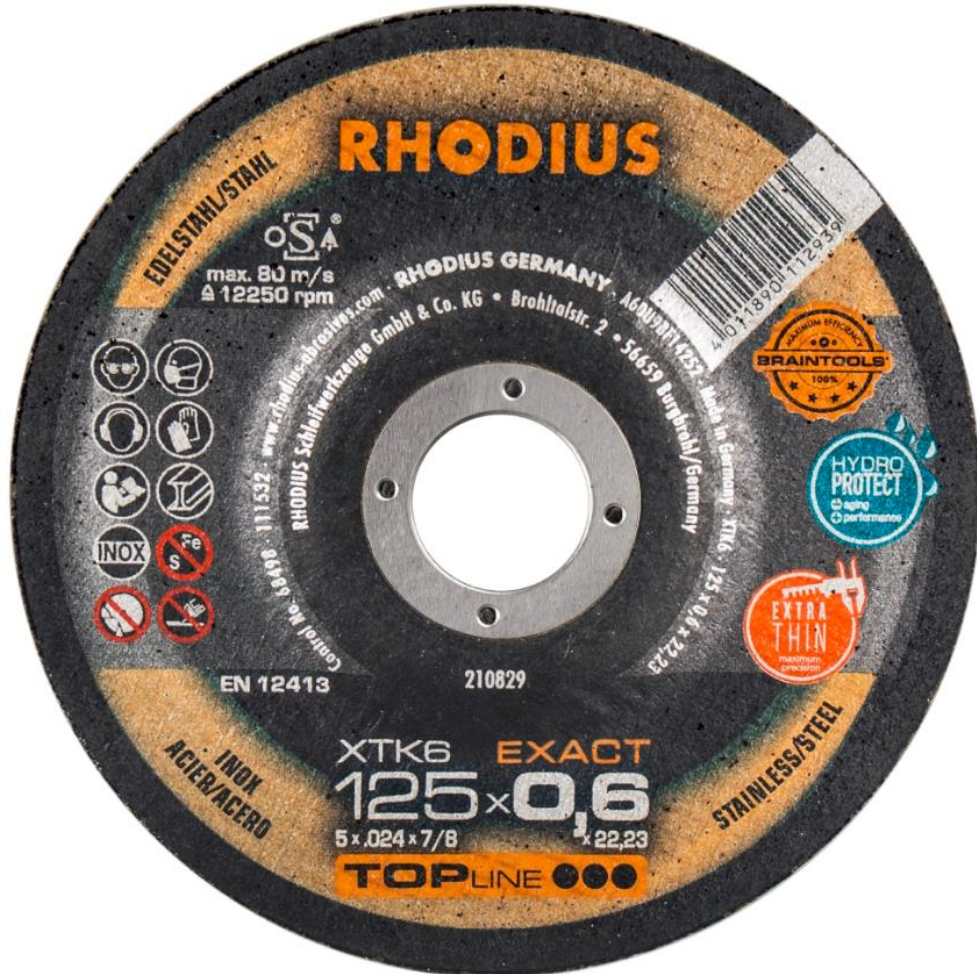


... till polishing





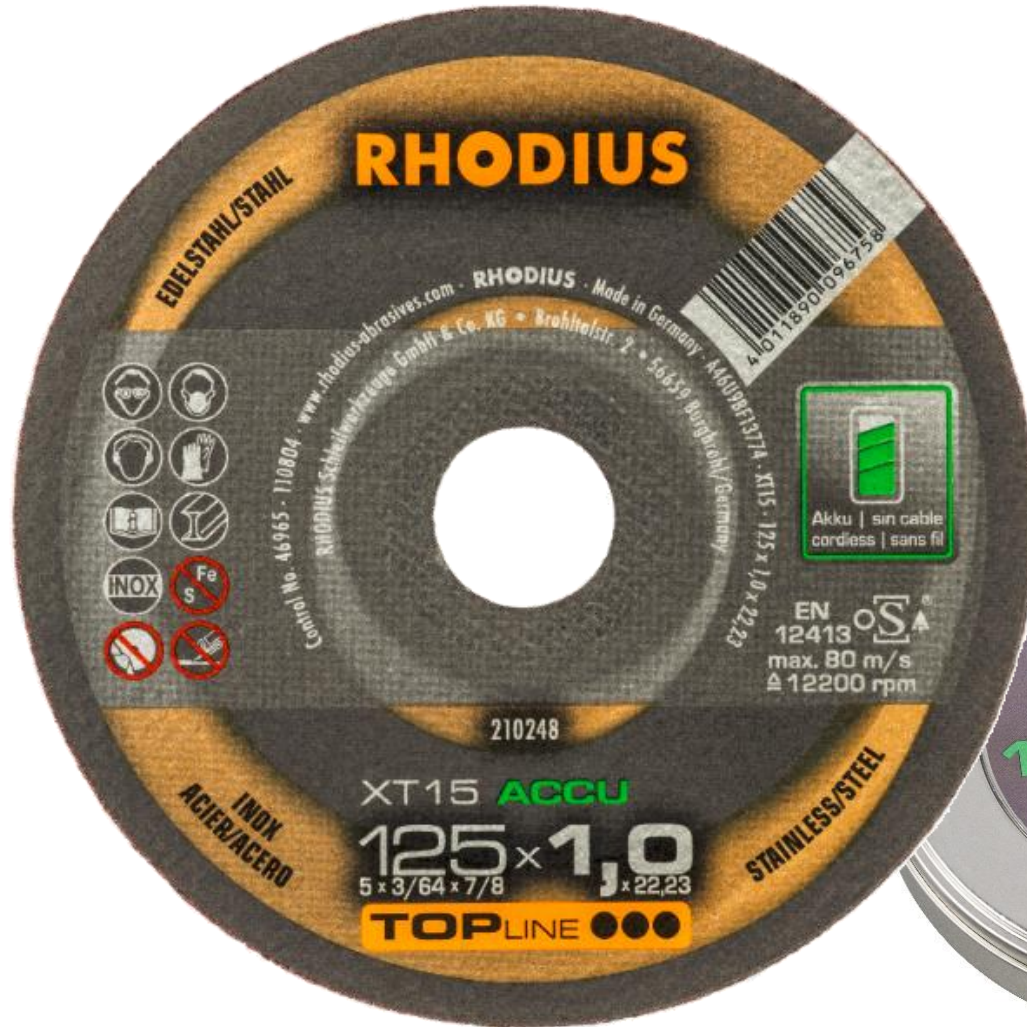
THE WORLD'S THINNEST DISC



- Precise cut
- Less physical effort
- Minimum burr formation
- Cool cut

THE RIGHT PRODUCT

XT15Accu



RHODIUS

THE RIGHT PRODUCT

Flap wheels qualities- Vision



LSZ F VISION

BRAINTOOLS®
by Rhodius



THE RIGHT PRODUCT

Flap wheels qualities- Vision

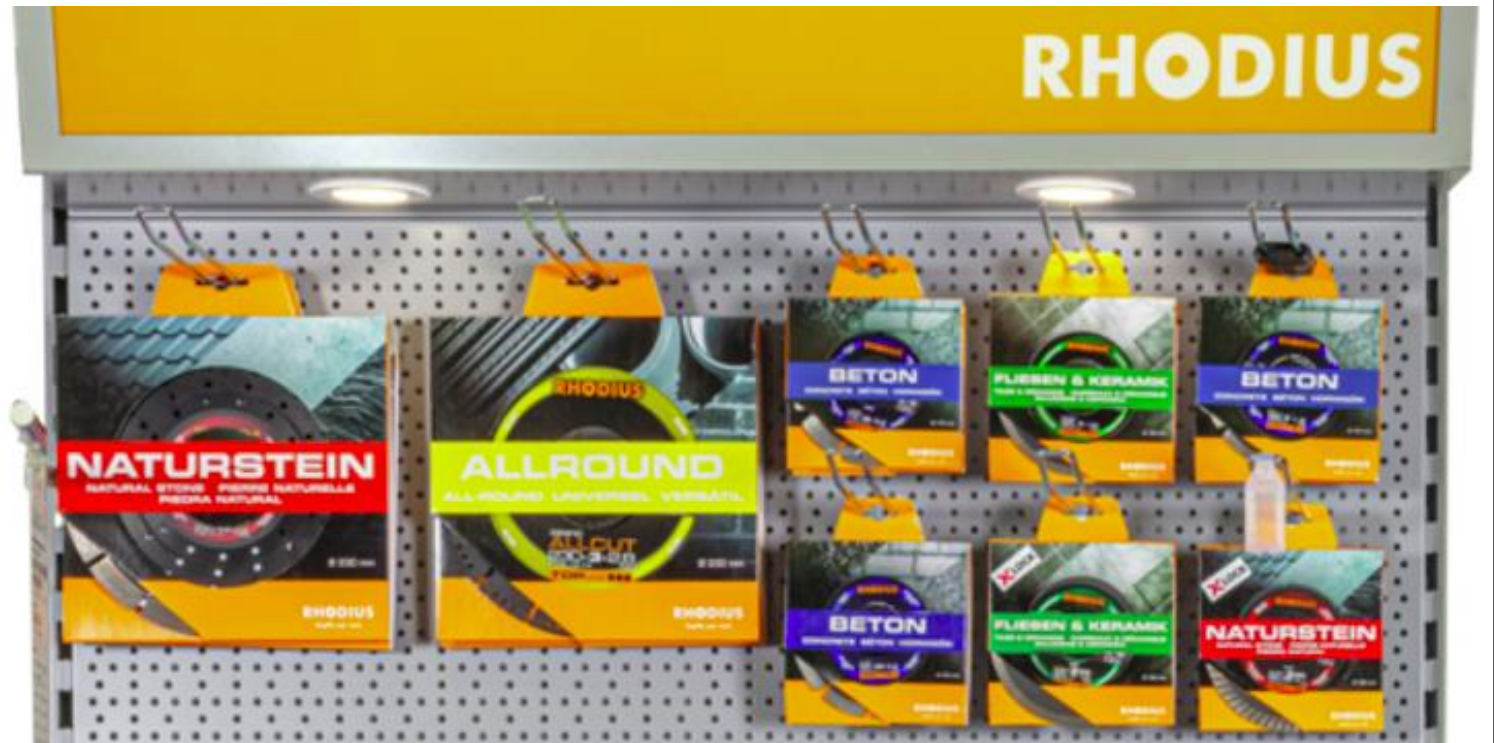
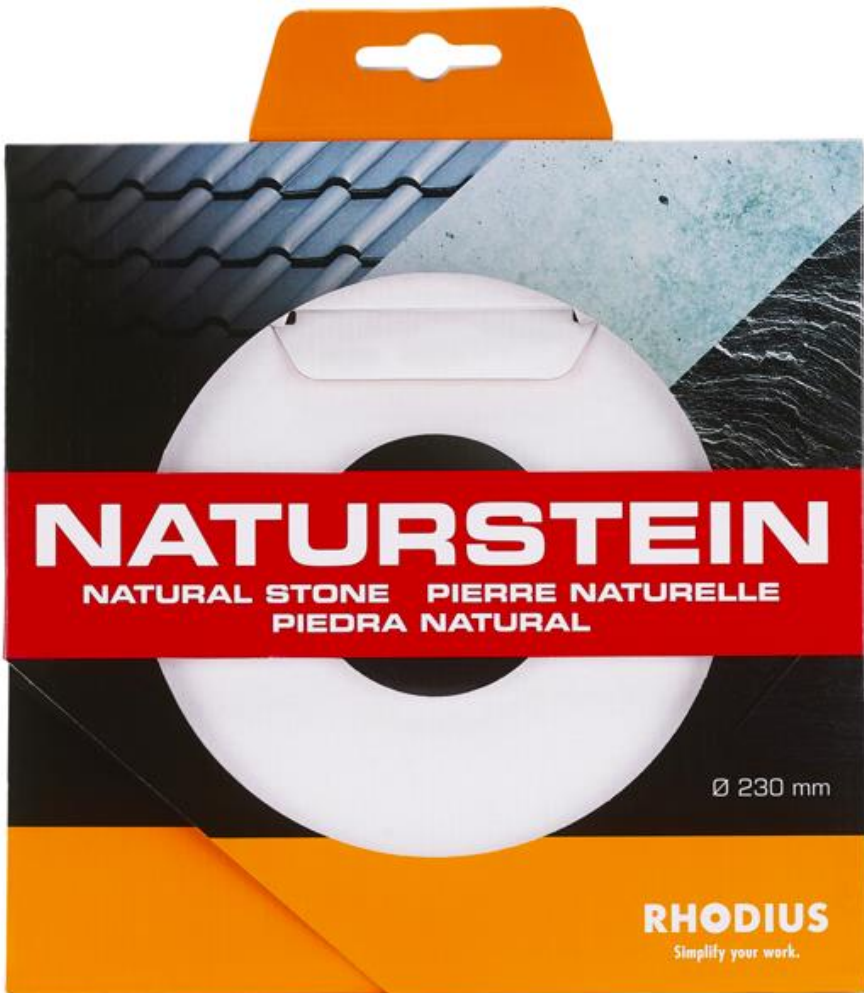


- Clear view to the workpiece and controlled material removal, with the three recesses while spinning
- Very good surface quality, by cool grinding und high quality grain mixture
- Cool grinding for less tempering colours, by ventilator effect

RHODIUS

THE RIGHT PRODUCT

DG/LD – colour guiding system



THE RIGHT PRODUCT

DG210 Allcut



- A tool ment for different materials
- Annoying tool change elimination
- Time savings through fast cutting
- Cutting of stone and metal with one wheel



RHODIUS

**THE RIGHT PRODUCT
LD402 / LD404**



RHODIUS

THE RIGHT PRODUCT

Handbrushes



THE RIGHT PRODUCT

Kinds of wire



To clean and texture surfaces



Grinding by hand

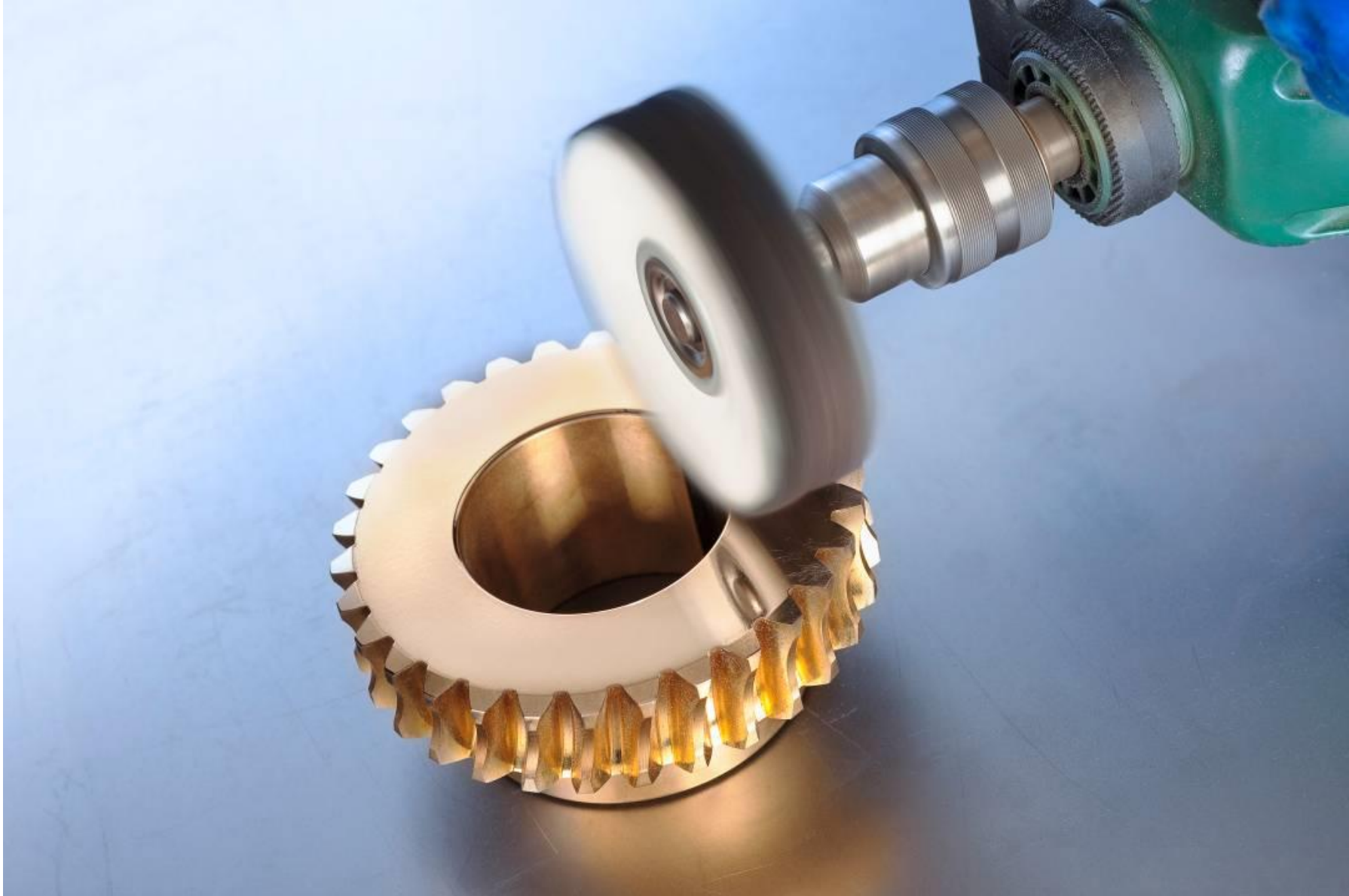
Creates a random, uneven grinding pattern



RHODIUS

THE RIGHT PRODUCT

Polishing



RHODIUS

THE RIGHT PRODUCT

Mounted wheels / drums





THANKS