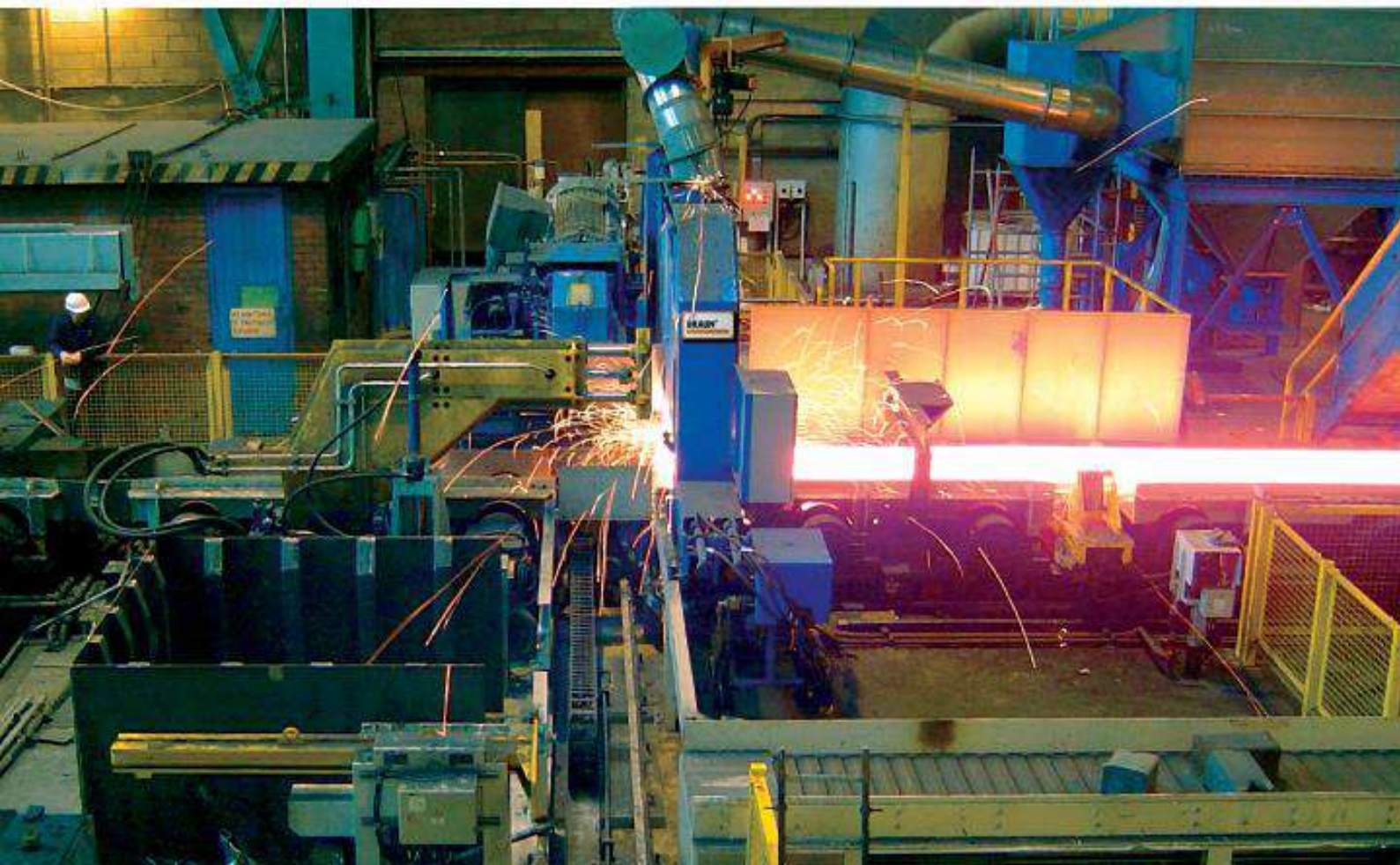


# **BRAUN** Innovations for Steel

Cutting-edge technologies  
for cutting and grinding



State-of-the-art products and services  
for the steel and special metals industries

# **BRAUN**<sup>®</sup>

INNOVATIONS FOR STEEL

[www.braun-steel.com](http://www.braun-steel.com)



# High-performance abrasive cut-off machines

State-of-the-art technology by BRAUN



Abrasive cutting is the ideal cutting technology for various applications in the steel and special metals industry. It can be used for cutting of hot, warm and cold products. Shortest cutting times, a high degree of automation, reduced overall running costs, a great flexibility regarding product shapes and material grades to be cut and in particular an excellent quality of the cut products are substantial advantages of abrasive cutting. BRAUN supplies high-performance dry abrasive cut-off machines – including customized turn-key solutions - for every individual need.

Unbeatable  
cut quality →



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# High-performance abrasive cut-off machines

For reference: tailor-made solutions by BRAUN



Heavy bar mills



Rail and section mills



Hot rolled rails after cutting



Bar layers after cooling bed



Extrawide bar layers after cooling bed



Wide slabs, plates or sheets



Radially forged bars



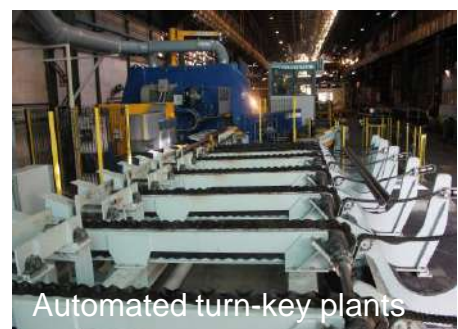
Forged axles



Forgings from open-die press



Large-scale ingots



Automated turn-key plants

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## Combined abrasive cut-off / sawing machines

The perfect match for highest flexibility



Having the right machine available for each product to be cut: BRAUN has the optimum solution and the right combination of two cutting technologies in one machine – abrasive cutting and friction sawing. This provides perfect flexibility to our esteemed customers. Investment costs and space are drastically reduced.

## Wet and dry abrasive cut-off machines (product line BRAUN-SILVERCUT)

For small-scale standard cutting applications for metallography or production purposes in the steel and tube industries



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## Multi-functional high-pressure grinding machines

The ultimate design for automated grinding



BRAUN grinding head



Even distorted billets can be ground

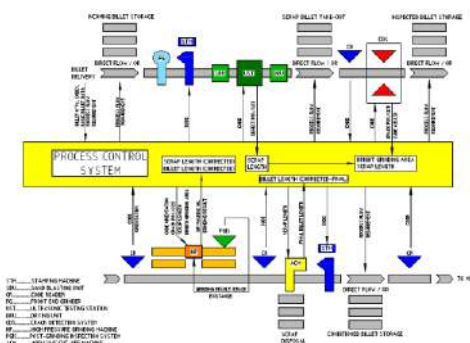


Grinding of large-scale seamless tubes

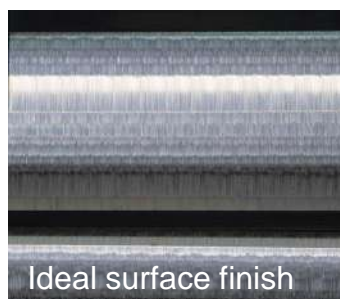


BRAUN's multi-functional high-pressure grinding facility is the most advanced technology for controlled bright, edge and flaw grinding of semi-finished products. Customized machine designs for grinding of billets, blooms, ingots, slabs or large-scale tubes are available – fully-automated turn-key solutions (even for fully-automated detection, grinding of partial surface flaws, post-grinding inspection and data tracking) as well.

Integrated system for automated conditioning of billets (schematic) →



BRAUN grinding machine



Ideal surface finish



Helical grinding

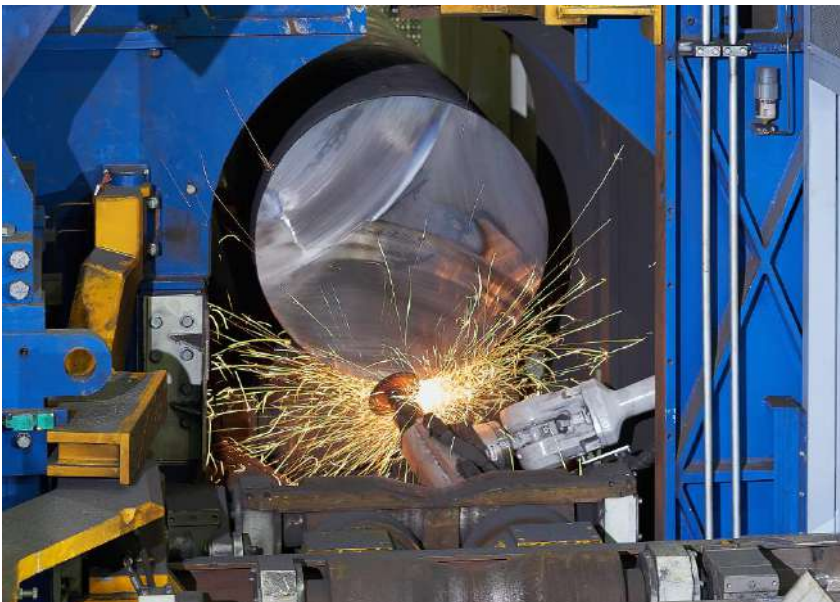


# Highly flexible deburring grinding machines

Unique machines for customized solutions



With conventional deburring machines, such as e. g. rotary hammer-type deburrers, the burr on continuously cast products or on products ground with inferior grinding machines cannot be reliably removed. BRAUN's highly flexible deburring grinding machine solves this problem. BRAUN offers tailor-made solutions for deburring/chamfering of longitudinal and transverse edges of slabs (see above) – but also for the front and tail ends of round products (see below).



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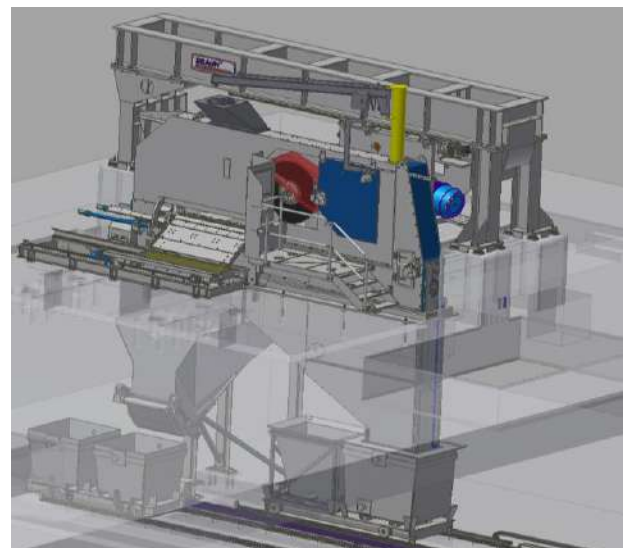
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## Consulting engineering

Profit from the experience and know-how of the technology leader

With over 50 years experience in abrasive cutting and grinding and having supplied numerous installations for cutting and grinding for various applications, BRAUN has become the technology leader for cutting and grinding. Thus, BRAUN is in the position for offering professional consulting services, such as e. g. technological advice, feasibility studies, planning engineering and preparation of tender specifications. We are inviting our customers to take advantage of our know-how.



## Life-time service support

Keep your BRAUN machine in optimal condition from day one

BRAUN machines are built for heavy-duty operation and are known for their extremely long service life. The life-time service support provided by BRAUN allows you to take maximum advantage of your BRAUN facility. BRAUN's services comprise OEM spare parts supply, equipment „health checks“, preventive maintenance assistance, professional trouble shooting support (e. g. remote maintenance system via modem, etc.). Predictive maintenance or process optimization is possible by adding special control and analyzing tools offered by BRAUN as optional extras or retrofits.

We also offer revamping, modernization and upgrading of older BRAUN facilities. By this means, even heavily used machines can be converted into state-of-the-art production units.



before ...



... and after modernization / upgrading

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# **BRAUN** Innovations for Steel

Global presence and customer support for the steel and special metals industries



**BRAUN's world-wide expert network for cutting and grinding:**

- 3 locations – BRAUN Austria, BRAUN China, BRAUN USA
- 26 authorized sales and service partners for 45 countries on all 5 continents



**BRAUN®**

MASCHINENFABRIK

BRAUN Maschinenfabrik  
GmbH - Austria

**BRAUN®**

MACHINE TECHNOLOGIES

BRAUN Machine Technologies  
(Beijing) Co., Ltd. - PR China

**BRAUN®**

MACHINE TECHNOLOGIES

BRAUN Machine Technologies,  
LLC - USA

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