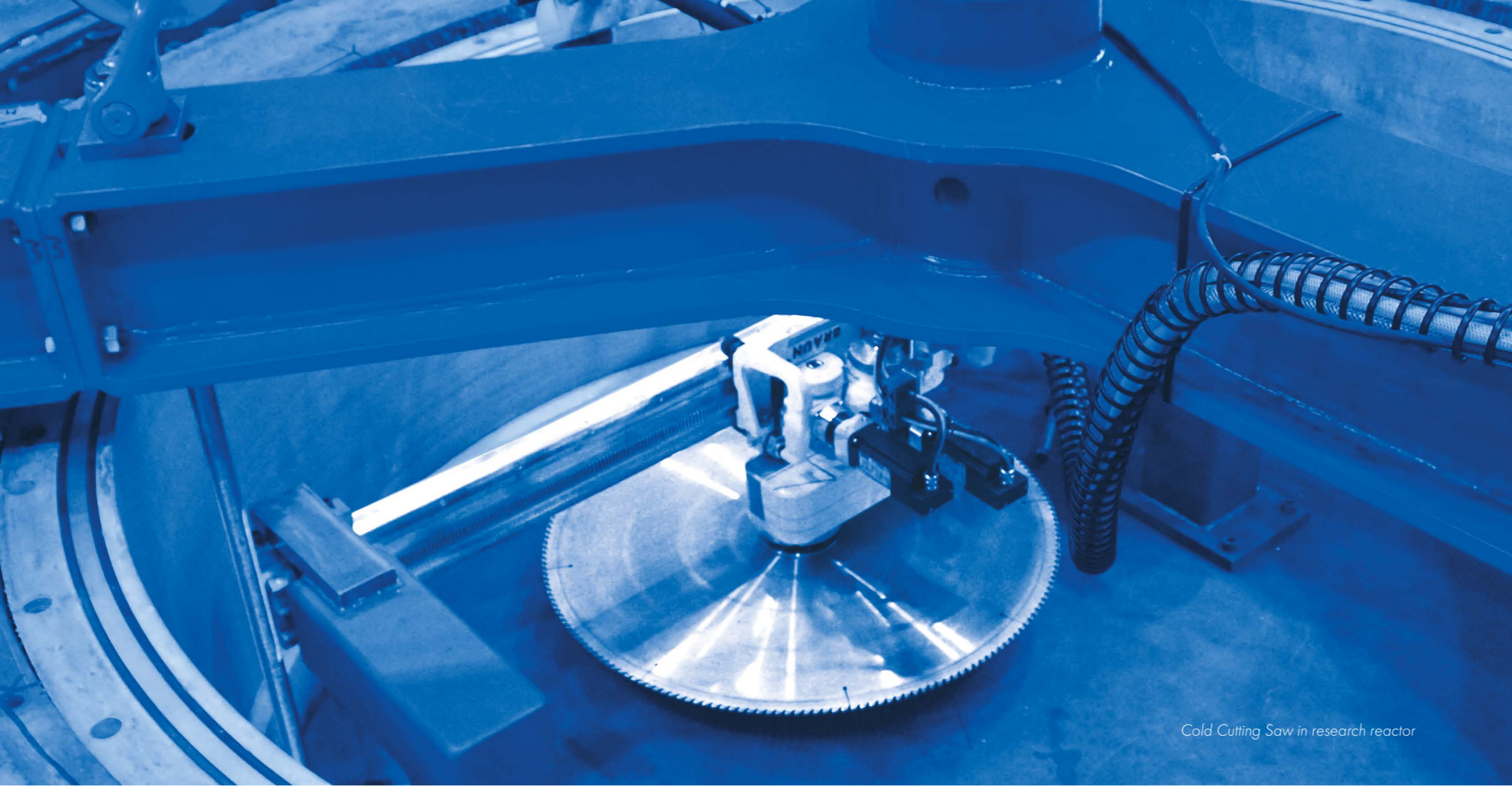


A close-up photograph of industrial machinery, likely a grinding or cutting process, with bright sparks flying from the point of contact. The scene is lit with dramatic blue and white light, highlighting the metallic surfaces and the intensity of the work.

BRAUN TECHNOLOGIES

Mobile, remote controlled solutions for
decommissioning and dismantling

www.braun.at



Cold Cutting Saw in research reactor



Rake Cleaning Machine



Abrasive Cut-Off Machine

EDITORIAL

BRAUN Maschinenfabrik – **YOUR PROFESSIONAL PARTNER**

There are not many industrial companies which manage to maintain their market position for over 170 years in the ownership of the same family. One reason is possessing the courage to launch new products and continue to develop existing products to meet the customer's requirements. Another reason is finding top-class people, investing in their qualifications, working with them for as many years as possible, and promoting team spirit.

We always have been, and continue to be, leaders in quality and technology in all the areas we cover. Listening to our customers, delivering in time and providing customer service, are as much of a priority today as they were when our company was founded.

From the file to fully automated systems. Since 1848, we have been engaging with products and machines for processing of different materials.

In 1965, we entered the technology of cut-off grinding with abrasive cutting discs. The quest for technological leadership prompted BRAUN to intensify the further development of tools and innovative cutting and separating processes in order to be able to offer customers the best possible separation and cut-off solution.

Today, the technology leader's range of products includes hydropower steel constructions, steel cutting- and grinding machines as well as tailor-made solutions for decommissioning and dismantling of nuclear and contaminated facilities.

Integrated assistance from conception to realization, we support you in your projects with concepts, machines and associated tools. In-house engineering and automation guarantees best quality, made in Austria.

As a member of the sixth generation of the Braun family, I am proud to successfully lead our high technology company.

Martin Braun
President & CEO

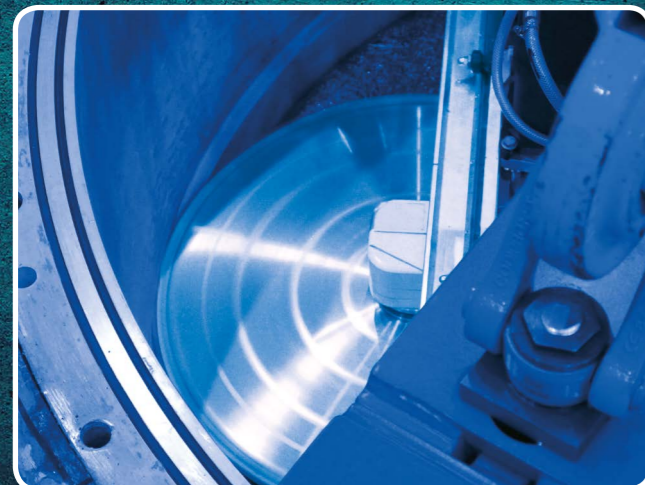
BRAUN COLD CUTTING SAW

LONG-TERM EXPERIENCE IN THE DEVELOPMENT OF MOBILE MACHINES FOR CONCRETE CUTTING TOGETHER WITH APPLICATION SPECIFIC KNOWLEDGE ENABLED THE REALIZATION OF THE PATENTED MOBILE COLD CUTTING SAW.

The optionally electrically or hydraulically operated machine is designed for extreme loads. The cold cutting saw can easily be used up to 20 meters underwater, but can also be operated completely dry without any tool cooling. The cold cutting process and innovative mounting options enable safe separation of high-alloyed metals, copper, lead and composite materials of different kinds.

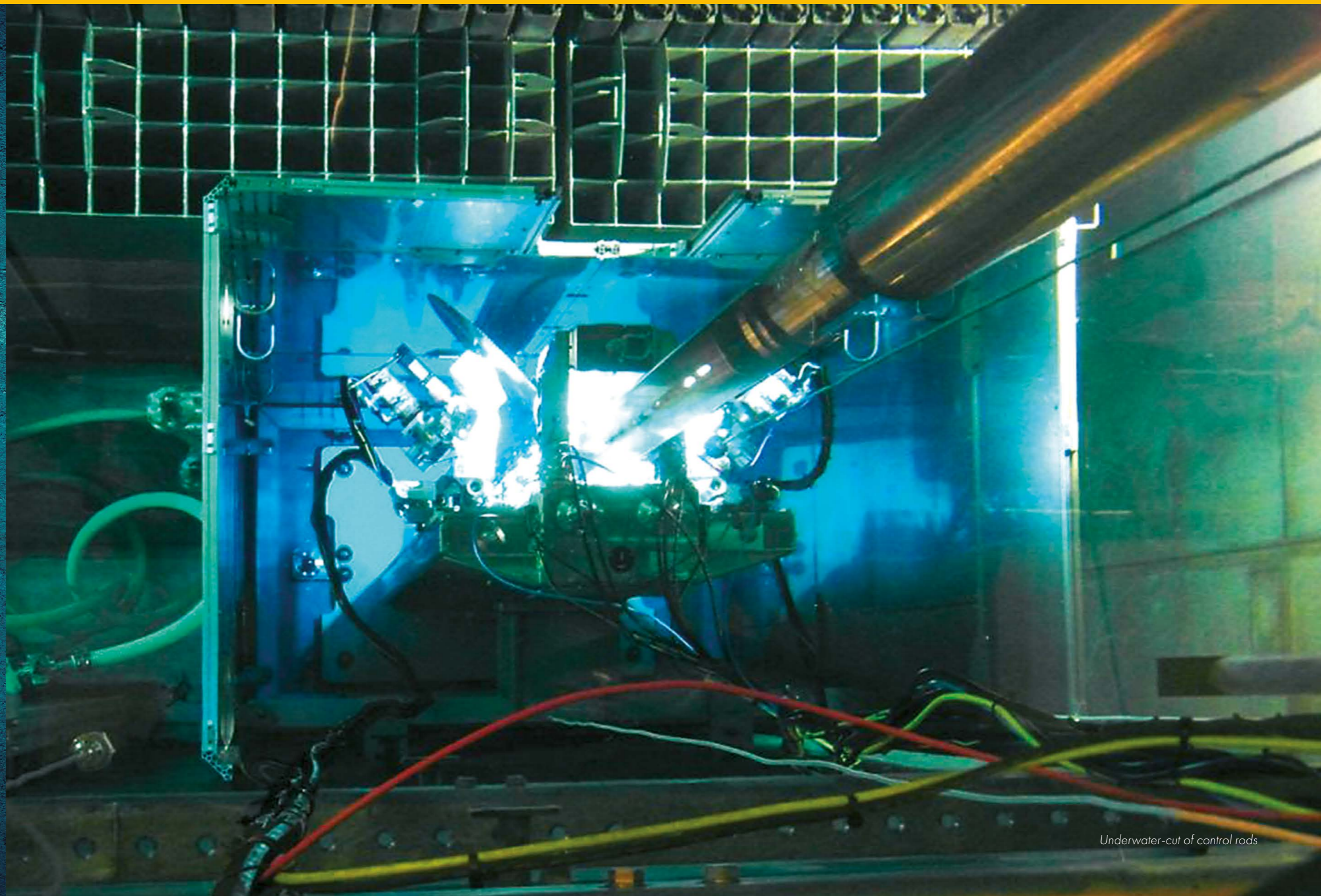
Remote operation and automatic mounting options allow cuts in confined spaces, of non-portable components and at great heights. Cutting depths of up to 520 millimeters in metals with a machine weight of only 40 kilograms guarantees a safe process with the highest possible economic efficiency.

In addition, **BRAUN** supports you with a wide application knowledge when working out your dismantling concept.



Dismantling of a reactor pressure vessel

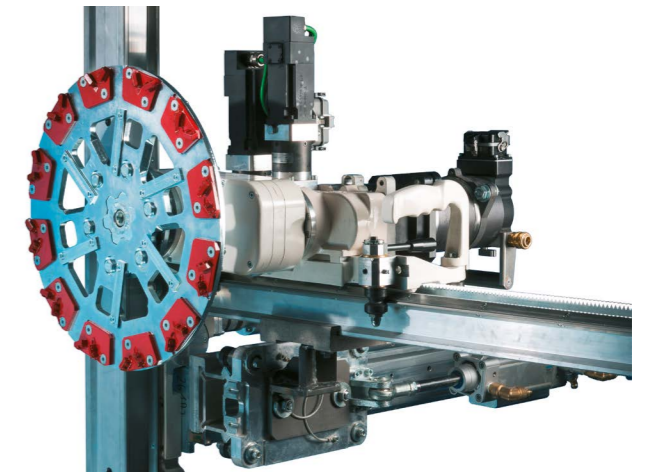
Cold Cutting Saw – BKS 12



Underwater-cut of control rods

BRAUN WALL SHAVER

THE PATENTED MACHINE FOR SURFACE TREATMENT OF STONE, CONCRETE AND METALS. IT WAS DEVELOPED FOR THE SAFE REMOVAL OF CONTAMINATED SURFACES AND COATINGS.



Wall Shaver - BWF



Removal of a contaminated concrete layer



Wall Shaver on movable carriage

Intelligent assembly and mounting options ensure easy processing of floors, walls and ceilings. Shaving depths of up to 10 millimeters per operation, together with the long tool life time, ensure efficient removal. Flow-optimized tools with adapted protection hoods enable dry, dust-free removal, thereby ensuring safe operation even in toxic, asbestos-laden or radioactively contaminated environments.

In addition to tool development, the process for undercutting contaminated layers has been devised. With this patented method, layers up to 50 millimeters thick can be removed in one work step. The contamination remains largely bound because only a small part of the whole surface has to be cut.



Wall Peeling



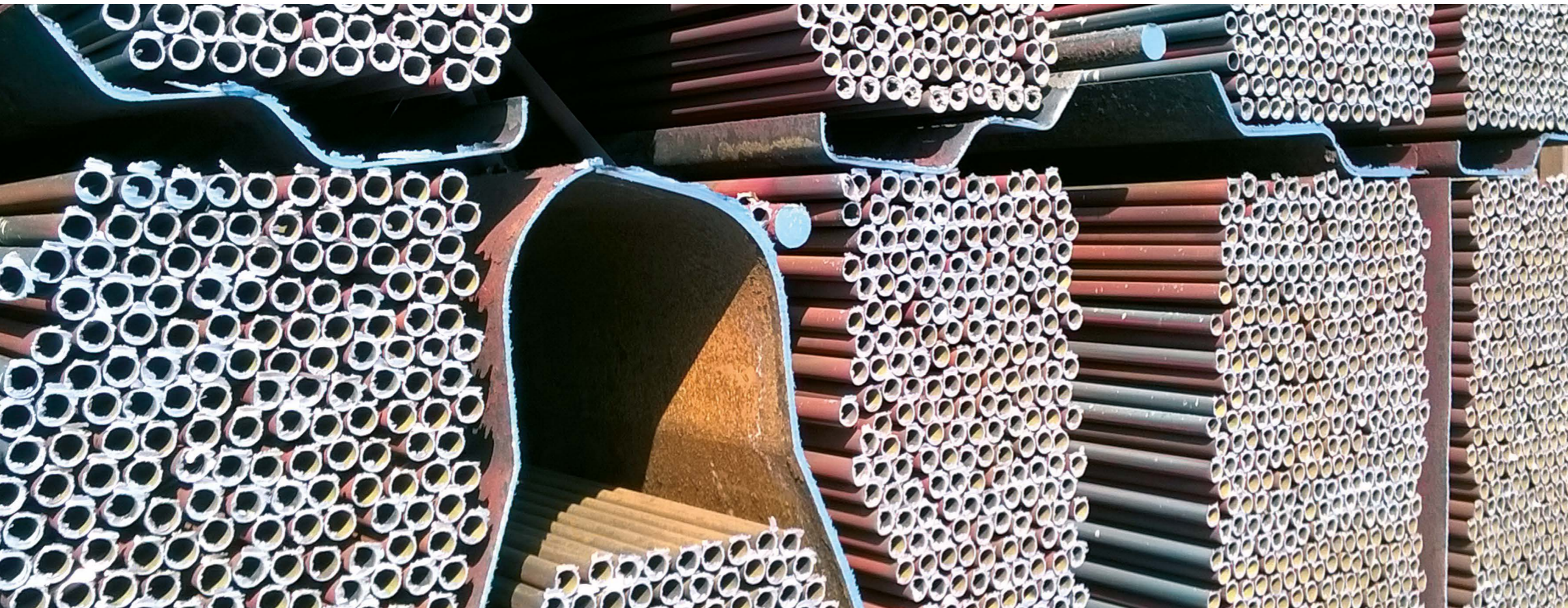
Surface after 10 mm shaving depth

BRAUN WIRE SAWING SYSTEMS

BESIDE THE COLD CUTTING SAW AND THE WALL SHAVER, BRAUN OFFERS MACHINES AND EQUIPMENT FOR WIRE SAWING. THE COMPREHENSIVE STANDARD PRODUCT PROGRAM CAN BE ADAPTED AND ADJUSTED TO SPECIAL REQUIREMENTS OF DISMANTLING PROJECTS.



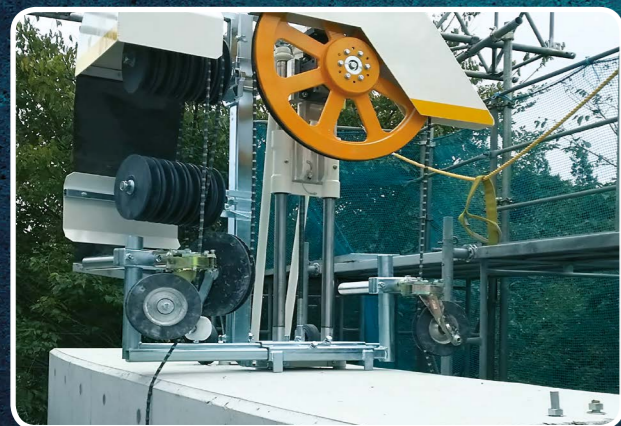
Wire Saw – SSP 12



Complete solutions from a single source, **BRAUN** offers not only the machines but also associated auxiliary structures in order to support you in the best possible way with the implementation of your project.

An essential advantage of the **BRAUN** product range is the interchangeability with each other, so a cold-cutting saw can be cost-effectively expanded to a fully functional wire saw. Therefore, machine costs can be reduced significantly.

Pic. left: Cutting surface of a steam generator



Dry cutting trial

For example, fully automatic wire storage systems and remote controlled bridge wire saws can be offered.

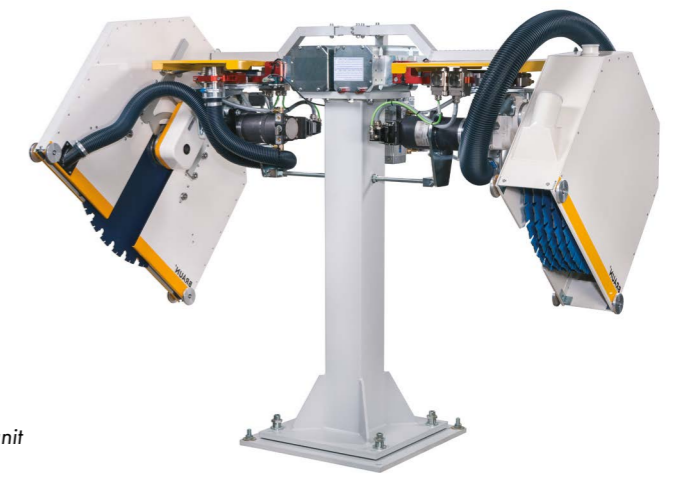
The wire saws are characterized by their wide field of application and are ideally suited for the efficient dismantling of steel and concrete structures.



Dismantling of a steam generator

BRAUN SPECIAL PURPOSE SOLUTIONS

TAILORED SOLUTIONS FOR DECOMMISSIONING AND DISMANTLING.
BRAUN, THE CUTTING SPECIALIST, COMBINES VARIOUS CUSTOMIZED MACHINING PROCESSES IN ONE SYSTEM.



Robot controlled shaving and cutting unit

BRAUN ENGINEERING



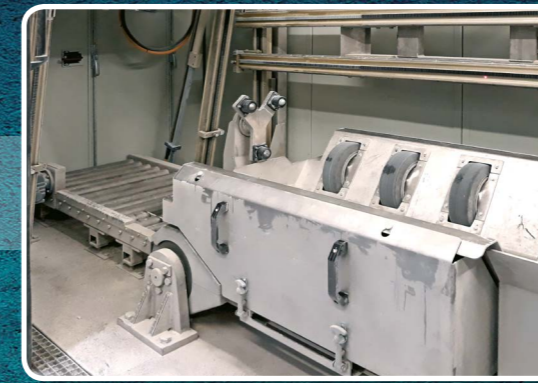
Concept barrel disassembling machine

BRAUN TESTLAB



In-House Mock-Up Test

BRAUN REALIZATION



Barrel disassembling machine



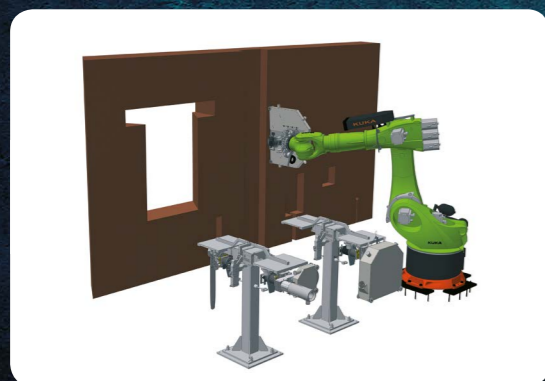
Cutting a pressure raiser



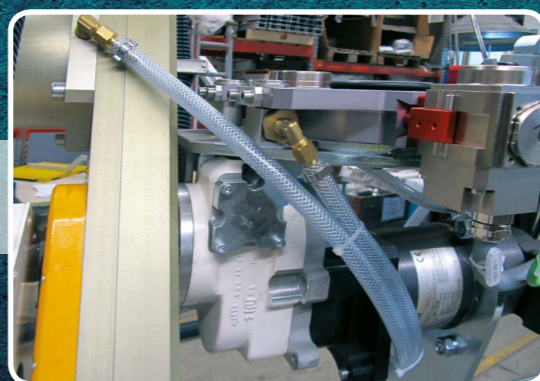
In-House testing



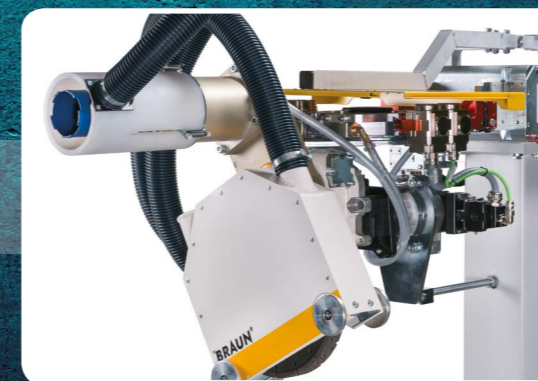
Cuts done by mobile Cold Cutting Saw



Concept robot controlled processing units



Manufacturing of the units



Combined drill and cutting unit

BRAUN SPECIAL PURPOSE SOLUTIONS

Extensive testing under real conditions help to find the right solution for decommissioning and dismantling problems. **BRAUN** develops these together with the customers and supports them from concept phase to after sales.

In 2017, the world's first facility for disassembling barrels of nuclear waste was handed over to full customer satisfaction. Combined shaving and sawing modules open barrels of radioactive contaminated waste and prepare them for repacking. With this system, the waste volume can be reduced and professional storage ensured.

In addition to stationary systems, **BRAUN** offers completely automated systems for decommissioning and dismantling. **BRAUN** realized robot controlled processing modules for dry dismantling of concrete parts. The modules can be equipped with different tools for a wide variety of applications, with tool change and operation being completely autonomous.

Convince yourself of the expertise of **BRAUN** Maschinenfabrik during your dismantling project.



BRAUN TECHNOLOGIES

Mobile, remote controlled solutions for
decommissioning and dismantling

BRAUN[®]

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