111 years

VOLLMER

AIII options

Fu|||ine supplier

// GRINDING
// ERODING
// LASERING

111 YEARS AND
1+1+1 TECHNOLOGIES –
VOLLMER IS NOW A FULLLINE SUPPLIER

Achieving maximum sharpness for production and service tools – as efficiently as possible.
It's what you expect from VOLLMER – and precisely what we at VOLLMER have stood for since 1909.

Milestones on our journey to our 111th anniversary include the introduction of our range of machinery for eroding PCD tools in 1988 and our innovative grinding solutions for carbide tools in 2014.

Now, in 2020, we're setting new standards with our latest innovation for lasering. What's more:
With **1 +1 +1 processes** for machining rotary tools, VOLLMER has become a **fullline** supplier.

Whatever you need to sharpen, as a tool manufacturer or sharpening service, with VOLLMER you'll receive advice regardless of the process and **alll options**.

11 OUT OF 111
THE BEST OF VOLLMER

1909

// The beginning. VOLLMER is founded

Heinrich Vollmer develops the first saw setting and filing machine. His vision: Maximum sharpening for cutting tools and saw blades. 111 years later, technology has changed dramatically but the vision remains. And it always will.

1927

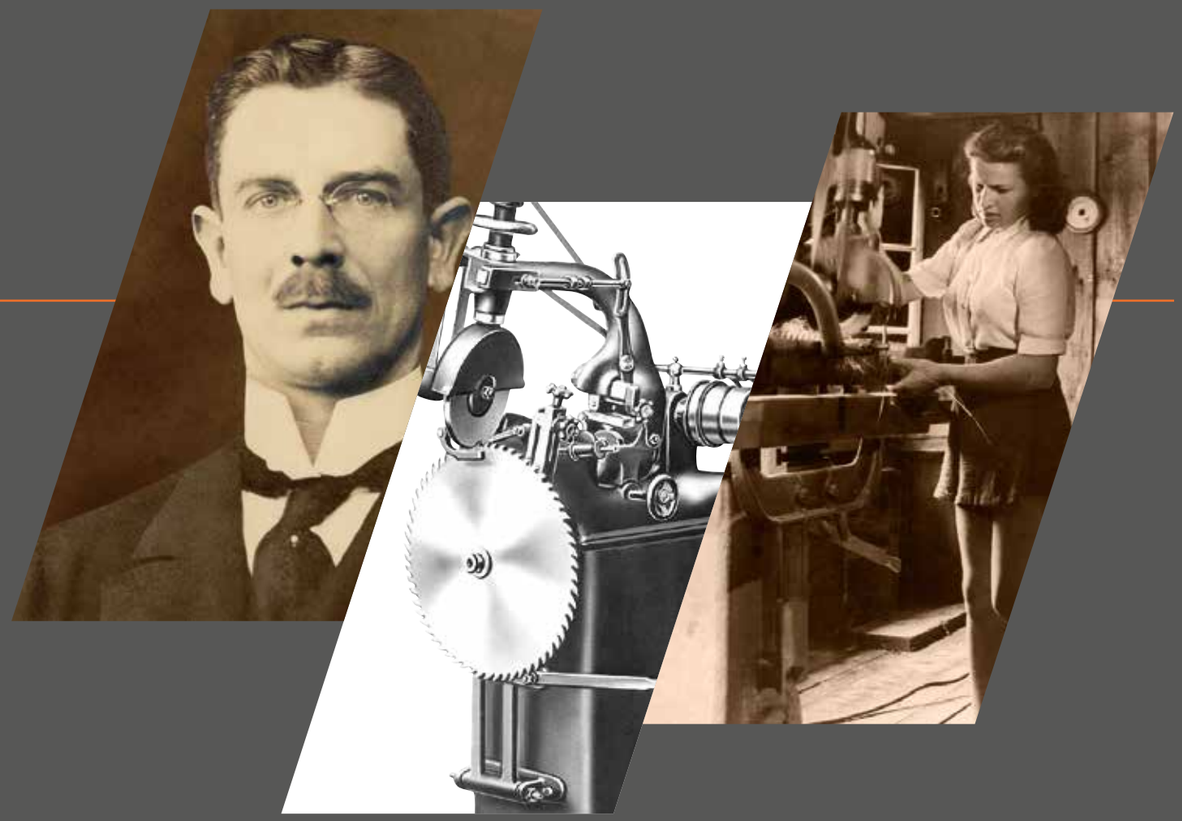
// The classic. The VOLLMER C type series

VOLLMER develops the mechanical grinding machine Ca with a transmission drive for band, gang and circular saw blades. This is followed in 1926 by the VOLLMER Cn with an electric motor. Right up until 1996, over 26,800 of them are sold. This makes it a true classic, and one of the most successful VOLLMER products ever.

1952

// Our mini economic miracle. The Cana diamond

With this grinding machine for carbide-tipped circular saw blades, VOLLMER enters a new, unbelievably successful business area and contributes to the revival of the "Made in Germany" seal of approval.



1959

// Strike! VOLLMER's pinsetter machine

Bowling is the hobby of the hour. VOLLMER develops a fully automatic pinsetter machine just for this. It is so successful that VOLLMER becomes the official supplier to the 2004 nine-pin bowling World Championships in Munich. This part of the business has now been discontinued, but the company supports the VOLLMERCup in Biberach, a top-level tournament for the Olympic discipline of shot-put. It's just one of our numerous activities in the region.

1985

// Around the clock. Automatically sharpening more efficiently

VOLLMER develops the first fully automatic loading system for the CC series. Ten years later, it's now possible to link multiple machines together. Today, VOLLMER offers automation solutions for unmanned operation for all product lines.

1989

// A new era. PCD erosion begins

With its Q series, VOLLMER releases a new range of products for eroding rotary tools, and soon becomes a world-leading supplier in this market segment.

More on that from page 14.

2005

// Always at your service. A new business segment opens up

Sharpening is about people. VOLLMER has been offering services since back in the 1970s, but at the start of the 2000s, they were combined into a dedicated business area, which has become increasingly important ever since.

2014

// Carbide tools. Now sharper than ever with VGrind

With its new grinding machine, VOLLMER immediately sets a new standard in the grinding of carbide rotary tools.

More on that from page 10.

2016

// Globally active. Our international locations

VOLLMER's newest branches to date open in Russia and South Korea. Internationalisation started back in 1972 with VOLLMER USA. Today, we are present in more than 14 locations worldwide, with over 800 employees and more than 30 representatives. Allowing easy access to everyone who sharpens with a VOLLMER machine.

2019

// V@dison. VOLLMER goes digital

VOLLMER has been a digital company since back in 1983, the year in which the firm moved into computer technology. One digital revolution later, VOLLMER is pushing forward with digitalising the sharpening process. Under the name V@dison, the Digital Solutions team are comprehensively revolutionising your sharpening processes: Networking with V@ screen, optimising with V@ check, pushing with V@ boost, and protecting with V@ guide.

2020

// Another new chapter. VOLLMER becomes a fullline supplier with the VLaser 270

First eroding, then grinding and now lasering. Everyone loves a good series. We at VOLLMER are beginning another new chapter with our entry into the laser processes market and our new VLaser 270 – and this is just the beginning.

More on that from page 18.

Powerful

// GRINDING

GRINDING – OUR SOLUTIONS FOR CARBIDE TOOLS

Carbide tools are used in machining processes and in non-cutting environments. It's a material which combines hardness with extreme resilience. These carbide tools require grinding solutions that make no compromises when it comes to quality, precision, flexibility and user comfort.
That's why we designed our VGrind 360 and its siblings, like the VGrind 360E and the VGrind 340S. They simply make grinding your carbide tools more efficient.

// EFFICIENCY SQUARED WITH THE **V***Grind* 360

This is the first machine in the world with two vertical grinding spindles for the machining and production of carbide tools with diameters up to 100 mm.
Thanks to this groundbreaking multi-level machining, tools can be machined – with the highest precision and efficiency – at the optimum pivot point of the C-axis. The magic behind the technology is innovative kinematics, a new wall concept, highly effective cooling, a perfect 3D representation with the proven NUMROTOplus® software and a modern control desk concept for maximum user convenience. For maximum productivity, we can also offer you automation solutions for your tools.

// ECONOMICAL GRINDING WITH THE **V***Grind* 360E

The E in VGrind 360E could stand for "entry point" or for "economic". Designed for resharpening and small-series production of carbide drills and milling cutters with a diameter range of up to 100 mm, the little sibling of our VGrind 360 has a very attractive price-performance ratio. It offers a high level of productivity and precision, a user-friendly operating concept and an automation solution, thanks to its integrated pick-up loader for machining up to 40 tools. The perfect, economical finishing touch.

// AN ENTICING OPTION, DOWN TO THE SMALLEST DETAIL – The **V***Grind* 340S

Carbide tools with the smallest diameters of 0.3 to 12.7 mm come into their own as construction space and components get ever more compact, whether in the automotive industry, electronics sector or in medical engineering. The VGrind 340S was designed for the production and resharpening of these rotary machining tools. It is fitted with the intuitive NUMROTOplus® software for, among other things, three-dimensional simulation of the grinding process and early collision monitoring. There are also optional automation solutions, enabling the unmanned machining of up to 900 tools with various shaft diameters. Around the clock. Maximum precision for the smallest details.

Excellent

// ERODING

ERODING – OUR SOLUTIONS FOR PCD TOOLS

High availability, precise results, ease of operation, service tailored precisely to your needs and significantly more productivity when manufacturing your PCD tools – just a glimpse of what VOLLMER can offer in the field of erosion. Whether disc or wire erosion, for wood or metal-cutting PCD-tipped precision tools, with the VPulse 500, the VHybrid 360 and the QXD 250 by VOLLMER, you're fully equipped for every and any eroding task. Powered by our Vpulse EDM erosion generator, they all offer the highest precision and maximum efficiency, including automation of your machines for round-the-clock machining.

// AHEAD OF THE GAME WITH THE **V***Pulse* 500

A state-of-the-art control system, simultaneous path interpolation along five CNC axes, measuring and eroding all in one set-up – the VPulse 500 is the benchmark for the production and repair of powerful PCD tools. The wire erosion machine offers maximum reliability and user convenience, as well as various automation options for highly efficient operation around the clock. Enjoy precisely the tools you need for success.

// PERFECT DISC EROSION WITH THE QXD 250

Faster, sharper and more flexible – the QXD 250 gives incomparable sharpness for tools with diameters up to 320 mm and lengths up to 250 mm. It enables simultaneous path interpolation along six CNC-controlled axes, extended travel distances and swivel ranges, and optimised main spindle operation for efficient grinding. The unique VOLLMER operating concept, ExLevel PRO, ensures easy, intuitive operation. For greater versatility. For more VOLLMER.

// GRINDING AND ERODING WITH THE **V***Hybrid* 360

There are no rules, but everything's possible – with the VHybrid 360. VOLLMER's solution for machining rotary tools can do both: Eroding PCD tools and grinding carbide tools. The highlights of the machine are the multi-level machining with two spindles and the ingenious arrangement of the grinding and electrode wheel sets precisely in the pivot point of the C-axis. The best bit? You can perform 100% grinding, 100% eroding or even combine both processes if required. So VOLLMER gives you 200% efficiency and economy.

Fully efficient

// LASERING

LASERING – OUR SOLUTION WITH HIGH-PRECISION KINEMATICS

Why a laser? Why from VOLLMER? Because in addition to eroding and grinding, this laser process completes our range for machining rotary tools. Because we want to offer you more than just a very specific process. We want to provide you with exactly the process you need. We have developed the VOLLMER laser precisely for ultra-hard materials such as PCD, CVD-D and MCD. With innovative kinematics which always keep the tool in the centre of the focal point based on the C-axis. With a fixed beam guide for fast, outstandingly precise machining. Optionally available with an integrated counter point. The result is a machine that is compact in size, with dimensions that are clearly laid out. A true VOLLMER.

// IF YOU NEED A LASER CHOOSE THE **V***Laser* 270

The VLaser 270 is very flexible, highly efficient and ensures perfect cutting edge quality. It works without making contact, without tool wear and without any significant thermal influence. This allows you to increase the operating life of your tools and contribute to the sustainable optimisation of your manufacturing processes. It is equally suitable for manufacturing and sharpening your tools. And it goes without saying that we also offer you automation solutions for unmanned machining around the clock. VOLLMER continues to achieve maximum sharpness in an efficient way.

Follow the ongoing development of our VLaser 270 and visit us regularly at
www.vollmer-vlaser.com

/// VOLLMER WORLDWIDE

HEADQUARTERS

// GERMANY
VOLLMER WERKE
Maschinenfabrik GmbH
88400 Biberach an der Riß, Germany

SUBSIDIARIES

// BRAZIL
VOLLMER DO BRASIL
81750-390 Curitiba – Paraná

// CHINA
VOLLMER TAICANG CO., LTD
215400 Taicang City

// FRANCE
VOLLMER FRANCE S.A.R.L.
22100 Dinan

// UNITED KINGDOM
VOLLMER UK LTD.
Nottingham NG10 5BP

// INDIA
VOLLMER TECHNOLOGIES INDIA PVT LTD.
Bengaluru – 560 058

// ITALY
VOLLMER ITALIA S.R.L.
37042 Caldiero (Verona)

// JAPAN
VOLLMER JAPAN CORP.
330-0856, Saitama City

// AUSTRIA
VOLLMER AUSTRIA GmbH
2544 Leobersdorf

// POLAND
VOLLMER Polska Sp z o.o.
41-807 Zabrze

// RUSSIA
VOLLMER Rus OOO
115432 Moscow

// SWEDEN
VOLLMER Scandinavia AB
35231 Växjö

// SPAIN
VOLLMER IBÉRICA, S.L.U.
08635 Sant Esteve Sesrovires (Barcelona)

// SOUTH KOREA
VOLLMER KOREA LTD.
Gyunggi do. Korea 13595

// USA
VOLLMER OF AMERICA CORP.
Carnegie, PA 15106

www.vollmer-group.com