



VOLLMER competency
for **CIRCULAR SAWS**



MORE PRECISION
MORE EFFICIENCY
USE YOUR CIRCULAR SAWS
SUCCESSFULLY WITH
VOLLMER'S KNOW-HOW

In 1909, Heinrich Vollmer developed the first saw setting and filing machines. His goal: maximum cutting tool and saw blade sharpness. At VOLLMER, we have been bringing this vision to life for more than 100 years. Successfully, and with sustained enthusiasm.

Higher cut-quality, longer service life, more productivity: with VOLLMER'S technologies and services.

When it comes to handling sharp tools, nobody is more meticulous. Nobody knows more about circular saw blades, tooth shapes and tooth angles. Nobody is more consistent when it comes to developing new technologies that may soon make tool manufacturing and handling even more effective and economical. When it comes to circular saws, our developers, engineers and technicians have gained unique experience and a head start that is built on know-how over decades. What are you going to get out of it? Future-proof



machines and solutions that have also been subjected to practical testing, which consistently set new benchmarks in reliability, precision and ease of use. Above all, services that are fine-tuned to your requirements, which lighten your load and enable you to concentrate fully on your core business.

When you are in business with VOLLMER, you are not just going to profit from high cutting rates, better cut-quality, longer service life and the resultant increase in productivity when your circular saws are deployed. You are also going to get the warm feeling that comes from knowing that you have a strong and futuristic partner by your side. A partner who helps you to sharpen your company's profile.



CUTTING THROUGH TO MORE PRODUCTIVITY: EXPLOIT YOUR CIRCULAR SAWS POTENTIAL TO THE FULLEST!

FOR THE CIRCULAR SAW IN TOOL PRODUCTION AND IN SHARPENING SERVICE

// VOLLMER offers a comprehensive range of machines for the production and processing of carbide-tipped circular saw blades. This ranges from the manual sharpening machine right up to the VOLLMER service centre with robot systems for complete automatic processing. The more variable the solution, the more uniform the efficiency and quality of your processing: the latest machine designs with CNC drives, multiprocessor technology and intelligent software ensure this.

FOR THE CIRCULAR SAW IN THE CHIPPER CIRCULAR SAWMILL

// Turn your sharpening room into a profit centre: with VOLLMER's processing machines, which are fully tailored to your requirements. From the particularly efficient CHC-eco series for standard tasks right up to the sophisticated handling system with automatic loading. Enhance your productivity and your success – thanks to extremely accurate tooth geometries and high cutting rates.

FOR MAXIMUM EASE OF USE IN EVERY DEPLOYMENT

// In the last 100 years, we have not just been working on machines. We have also been focussing on the people who operate them. The VOLLMER operating concept is geared towards making their work as simple, safe and pleasant as possible. The concept is intuitive and logical, and every single VOLLMER machine makes use of it. Copied frequently, but never matched.

PROFESSIONAL HANDLING AND CARE IS THE KEY TO THE EFFECTIVE AND PRODUCTIVE DEPLOYMENT OF YOUR CARBIDE OR HSS CIRCULAR SAWS.


VOLLMER therefore has a uniquely diverse portfolio of advanced high-performance machines that can handle any task related to the maintenance, sharpening and tempering of your circular saws. Whether it is tool production, chipper sawmills or sharpening services, VOLLMER has the right solution for your special requirements. A solution with a future! And since grinding isn't the only thing that matters, we also have impressive solutions that deal with other important process steps that cover the entire spectrum of circular saw-related tasks: for instance, special sharpening and soldering machines for repairing circular saw blades.


These pages will give you an initial overview of the VOLLMER machines that you can use to make handling of and working with circular saws a highly efficient process. For further information, please visit our website or contact your usual representative at VOLLMER.




AREAS:


Bandsaw 

Frame saw 

Circular saw 

APPLICATIONS:

Tooth face and tooth top in one single clamping operation 

Automation can be integrated 



////// CIRCULAR SAW // TOOTH FACES AND TOOTH TOPS //////////////////////////////////////

/// PROCESSING TOOTH FACES / TOOTH TOPS AND TOOTH SIDES

Whereas the perfect tooth face and tooth top grinding is important for the productivity of the carbide saw blade, the accurately ground tooth side is important for the surface quality. Good that VOLLMER has optimum solutions for both the handling processes.

Intelligent machine concepts, the highest precision and comfortable handling are just as synonymous with VOLLMER as the stable construction as well as a high degree of robustness and long service life.

AN OVERVIEW OF THE MOST IMPORTANT ADVANTAGES:

- // Compact construction
- // Machines with a stable construction for precise sharpening results
- // Maintenance-friendly, thanks to the separation between the machine compartment/working area
- // Simple operation
- // Outstanding grinding results
- // High capacity and economic efficiency
- // Rare maintenance visits
- // Advanced technology
- // Optimally tuned to operation area and requirements



/// PROCESSING OF TOOTH FACES AND TOOTH TOPS

////// CP 650

CNC-controlled machine for sharpening tooth faces and tooth tops on carbide-tipped circular saw blades.

Circular saw diameter	80 to 650	mm
Blade thickness	up to 5	mm
Tooth pitch	up to 100	mm



////// CHC 840 and CHC 1300

Flexible sharpening machine for carbide-tipped circular saw blades up to diameter 840 or 1300 mm.

	CHC 840	CHC 1300	
Circular saw diameter	80 to 840	80 to 1300	mm
Blade thickness	up to 8	up to 8	mm
Tooth pitch	up to 100 optional up to 180	up to 100 optional up to 180	mm



////// CHP 840 and CHP 1300

Universal sharpening machine for carbide-tipped circular saw blades up to diameter 840 or 1300 mm.

	CHP 840	CHP 1300	
Circular saw diameter	80 to 840	80 to 1.300	mm
Blade thickness	up to 8	up to 8	mm
Tooth pitch	up to 100 optional up to 180	up to 100 optional up to 180	mm





////// CIRCULAR SAW // TOOTH FACES AND TOOTH TOPS

////// CHX

Flexible sharpening machine for machining the tooth face and tooth top of carbide-tipped circular saw blades in one set-up up to a diameter of 840 or 1300 mm.

	CHX 840	CHX 1300	
Circular saw diameter	80 to 840	80 to 1300	mm
Blade thickness	up to 8	up to 8	mm
Tooth pitch	up to 100 optional up to 180	up to 100 optional up to 180	mm



////// CM 200

Sharpening machine for processing the tooth faces and tooth tops on carbide-tipped circular saw blades.

Circular saw diameter	200 to 840	mm
Blade thickness	up to 15	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15

////// CHX 840 with HS

Automatic machine loading of circular saw blades with a diameter of 140 to 530 mm in addition to the sharpening machine CHX 840.

Circular saw diameter	140 up to 530	mm
Blade weight	max. 5	kg
Bore diameter	80	mm
Saw blade stack height	max. 180	mm



////// CM 300

Sharpening machine for processing the tooth faces and tooth tops on carbide-tipped circular saw blades.

Circular saw diameter	200 to 1440	mm
Blade thickness	up to 15	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15

////// CHD 270

Sharpening machine for processing tooth faces and tooth tops of carbide-tipped circular saw blades.

Circular saw diameter	80 to 840	mm
Blade thickness	up to 14	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15

////// QR 270

Eroding machines for processing the tooth tops of PCD-tipped circular saw blades.

Circular saw diameter	100 to 840	mm
Blade thickness	up to 14	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15



////// CIRCULAR SAW // TOOTH SIDES

/// PROCESSING TOOTH SIDES

////// CHHF 21 H

Machines for repairing carbide-tipped circular saw blades.

Circular saw diameter	80 to 700	mm
Blade thickness	up to 6	mm
Tooth pitch	from 8 onwards	mm



////// CHF 270

Sharpening machine for processing the tooth sides of carbide-tipped circular saw blades.

Circular saw diameter	80 to 840	mm
Blade thickness	up to 14	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15

////// CPF 650

CNC-controlled machine for sharpening side angles on carbide-tipped circular saw blades.

Circular saw diameter	80 to 650	mm
Blade thickness	up to 5	mm
Tooth pitch	up to 100	mm



////// CMF 200

Machine for processing the tooth sides on carbide-tipped circular saw blades.

Circular saw diameter	200 to 840	mm
Blade thickness	up to 15	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15

////// CHF 840 and CHF 1300

CNC-controlled machine for grinding tooth sides on carbide-tipped circular saw blades with a diameter of up to 840 or 1300 mm.

	CHF 840	CHF 1300	
Circular saw diameter	80 to 840	80 to 1300	mm
Blade thickness	up to 8	up to 8	mm
Tooth pitch	up to 100 optional up to 180	up to 100 optional up to 180	mm



////// CMF 300

Machine for processing the tooth sides on carbide-tipped circular saw blades.

Circular saw diameter	200 to 1440	mm
Blade thickness	up to 15	mm
Tooth pitch	up to 180	mm



Automation solutions on pages 14/15



////// CIRCULAR SAW // TOOTH SIDES AND REPAIRS AND MEASUREMENT //////////////////////////////////////

////// QF 270

Machine for processing the tooth sides of PCD-tipped circular saw blades according to the wheel-electro-erosion process.

Circular saw diameter	80 to 840	mm
Blade thickness	up to 14	mm
Tooth pitch	up to 180	mm



/// REPAIRS AND MEASUREMENT

////// LG 21 H

Brazing equipment for debrazing and brazing carbide teeth.

Circular saw diameter	100 to 830	mm
Carbide tooth width	up to 6	mm



/// AUTOMATION

VOLLMER also has suitable automation solutions for all companies who wish to machine circular saw blades with high efficiency and productivity with minimum labour utilisation – without compromising on the quality of the result. For automatic machining on tooth faces and tooth tops as well as tooth sides during production and in service. Round-the-clock.

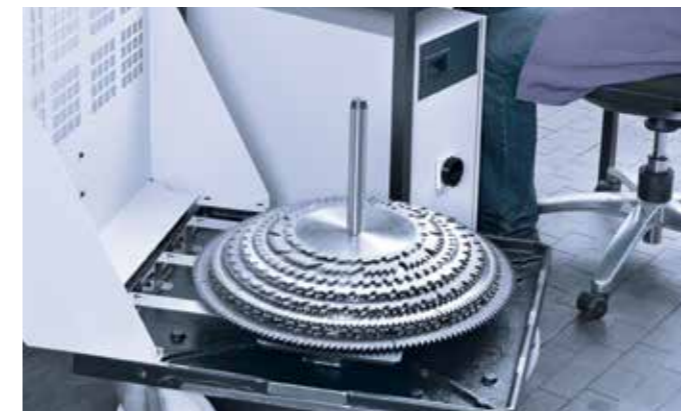
Thanks to the tried and tested ND handling system in combination with easy data entry, you are going to profit from maximum flexibility.



You will recognise machines by this sign, which are already optimally prepared for connection to a robot system and are thus the first choice for complete fully automatic processing.



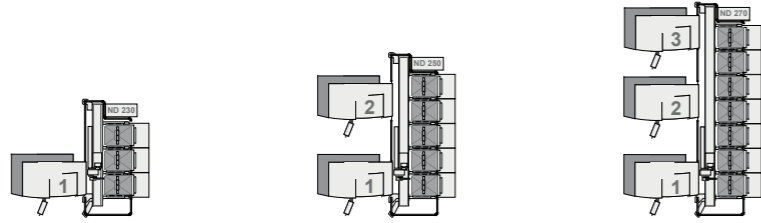
Efficient fully automatic tool processing – with round-the-clock VOLLMER automatic solutions



ESPECIALLY INTERESTING FOR SHARPENING SERVICES:
You can decide the sequence in which the individual processing steps should be executed, which coil cars are processed and when and where the processed saw blades are stored. The diameter, number of teeth and tooth geometries can be changed when processing several batches. Your VOLLMER representative will gladly advise you in detail on the most optimum automation solution for you.



/// MACHINE COMPATIBILITY / AUTOMATION



MASCHINE	ND 230	ND 250	ND 270
CHD 270	✓	✓	✓
CHF 270	✓	✓	✓
CM 200	✓	✓	✓
CMF 200	✓	✓	✓
CM 300			
CMF 300			
QR 270	✓	✓	✓
QF 270	✓	✓	✓

STACK OCCUPANCY / SAW BLADE DIAMETER

	ND 230	ND 250	ND 270
Single stack	100 to 630 mm	100 to 630 mm	100 to 630 mm
Double stack	100 to 305 mm	100 to 305 mm	100 to 305 mm

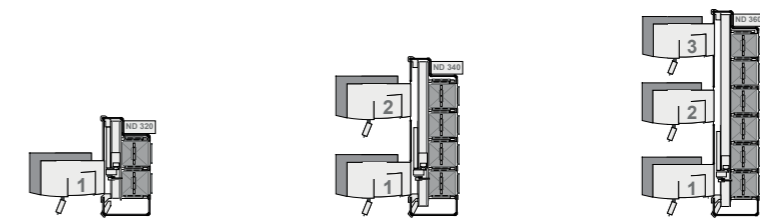
GRIPPER / BLADE WEIGHT

Standard gripper

	ND 230	ND 250	ND 270
Single-sided use	9 kg	9 kg	9 kg
Two-sided use	6 kg	6 kg	6 kg

Sawmill gripper

	ND 230	ND 250	ND 270
Single-sided use	10 kg	10 kg	10 kg
Two-sided use	6 kg	6 kg	6 kg



MASCHINE	ND 320	ND 340	ND 360
CHD 270	✓	✓	✓
CHF 270	✓	✓	✓
CM 200	✓	✓	✓
CMF 200	✓	✓	✓
CM 300			
CMF 300			
QR 270	✓	✓	✓
QF 270	✓	✓	✓

STACK OCCUPANCY / SAW BLADE DIAMETER

	ND 320	ND 340	ND 360
Single stack	200 to 840 mm	200 to 840 mm	200 to 840 mm
Double stack	200 to 410 mm	200 to 410 mm	200 to 410 mm

GRIPPER / BLADE WEIGHT

Standard gripper

	ND 320	ND 340	ND 360
Single-sided use	20 kg	20 kg	20 kg
Two-sided use	11 kg	11 kg	11 kg

Sawmill gripper

	ND 320	ND 340	ND 360
Single-sided use	10 kg	10 kg	10 kg
Two-sided use	6 kg	6 kg	6 kg



/// LOROCH MACHINES

A part of the VOLLMER group of companies since 2006, Loroch is expanding the comprehensive product range of the group with additional, tried and tested and high-performance sharpening machines for circular saw and bandsaw blades. Loroch continues to pave the way, particularly when it comes to machining high-speed steel circular saw blades,

and enjoys an excellent reputation at international level. Loroch's product range includes simple and manual machines as well as fully automatic service centres. As a member of the VOLLMER family, it goes without saying that Loroch is also synonymous with maximum precision, innovative technology and maximum productivity.



/// FULLY AUTOMATIC

///// KSC 710-T

Innovative service centre for automatic sharpening, re-toothing, chamfering and grinding of chip breaker grooves in metal circular saw blades. Ideal for saw blade manufacturers. High grinding volume. Complete machining of thin kerf saw blades possible. Complete machining of carbide-tipped table saws is possible.

Blade diameter – manual	(40) 130 to 710	mm
Blade diameter – with loader	(75) 130 to 560	mm
Blade diameter Chamfering	(105) 145 to 710	mm
Blade thickness	up to 8	mm
Tooth pitch	1 to 55	mm
Number of teeth	2 to 998	



///// EVOLUTION K850-M

Compact service centre for economical grinding of metal cutting saw blades. Ideal solution for small to medium-sized companies. Complete machining of carbide-tipped table saws is possible.

Blade diameter – manual	40 (130) to 850	mm
Blade diameter – with loader	(75) 130 to 520	mm
Blade diameter Chamfering	(105) 145 bis 850	mm
Blade thickness	up to 8	mm
Tooth pitch	1 to 40	mm
Number of teeth	2 to 998	



///// SOLUTION K850-T

Automatic saw sharpening machine for automatic complete processing of metal circular saw blades, ideal for multiple-machine operation. Grinding of chip breaker grooves with additional equipment. Complete machining of carbide-tipped table saws is possible.

Blade diameter	40 (130) to 850 (920)	mm
Blade diameter Chamfering	(105) 145 to 850 (920)	mm
Blade thickness	up to 8	mm
Tooth pitch	1 to 40	mm
Number of teeth	2 to 998	





////// POWERSTAR 850

CNC controlled hightech grinding machine for manufacturing of metal cutting circular saws from (40) 130 to 850 (920) mm Ø. Grinding of chip breaker grooves with additional equipment. Manual insertion of the grinding wheel, semi-automatic chamfering. Grinding of chip breaker grooves with additional equipment.

Blade diameter	(40) 130 to 850 (920)	mm
Blade diameter Chamfering	(105) 145 to 850 (920)	mm
Blade thickness	up to 8	mm
Tooth pitch	1 to 40	mm
Number of teeth	2 to 998	



/// ELECTRICAL-MECHANICAL-CONTROLLED

////// SW 450

A versatile machine for complete processing of HSS, segmental and friction saws with ceramic grinding wheels.

Blade diameter:		
metal cutting saws	22 to 450 (550)	mm
Wood/plastic cutting	22 to 450 (550)	mm
Blade diameter Friction	up to 550 (650)	mm
Blade thickness	up to 8	mm
Tooth pitch	up to 20	mm
Tooth height	up to 8 (12)	mm



////// SW 630-ST

For grinding of chip breaker grooves in metal circular saws with automatic displacement of the grinding wheel.

Blade diameter	165 to 630 (650) alternatively possible after 140	mm
Blade thickness	6	mm
Tooth pitch	3 to 50, vario toothing as well	mm
Working speed	approx. 7 to 50	t/min



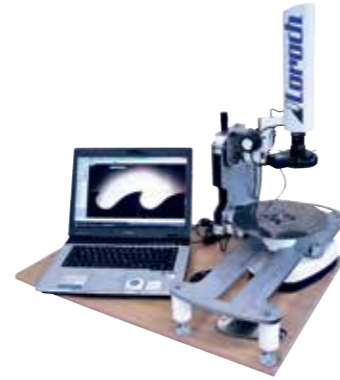


////// CIRCULAR SAW // REPAIRS AND MEASUREMENT //////////////////////////////////////

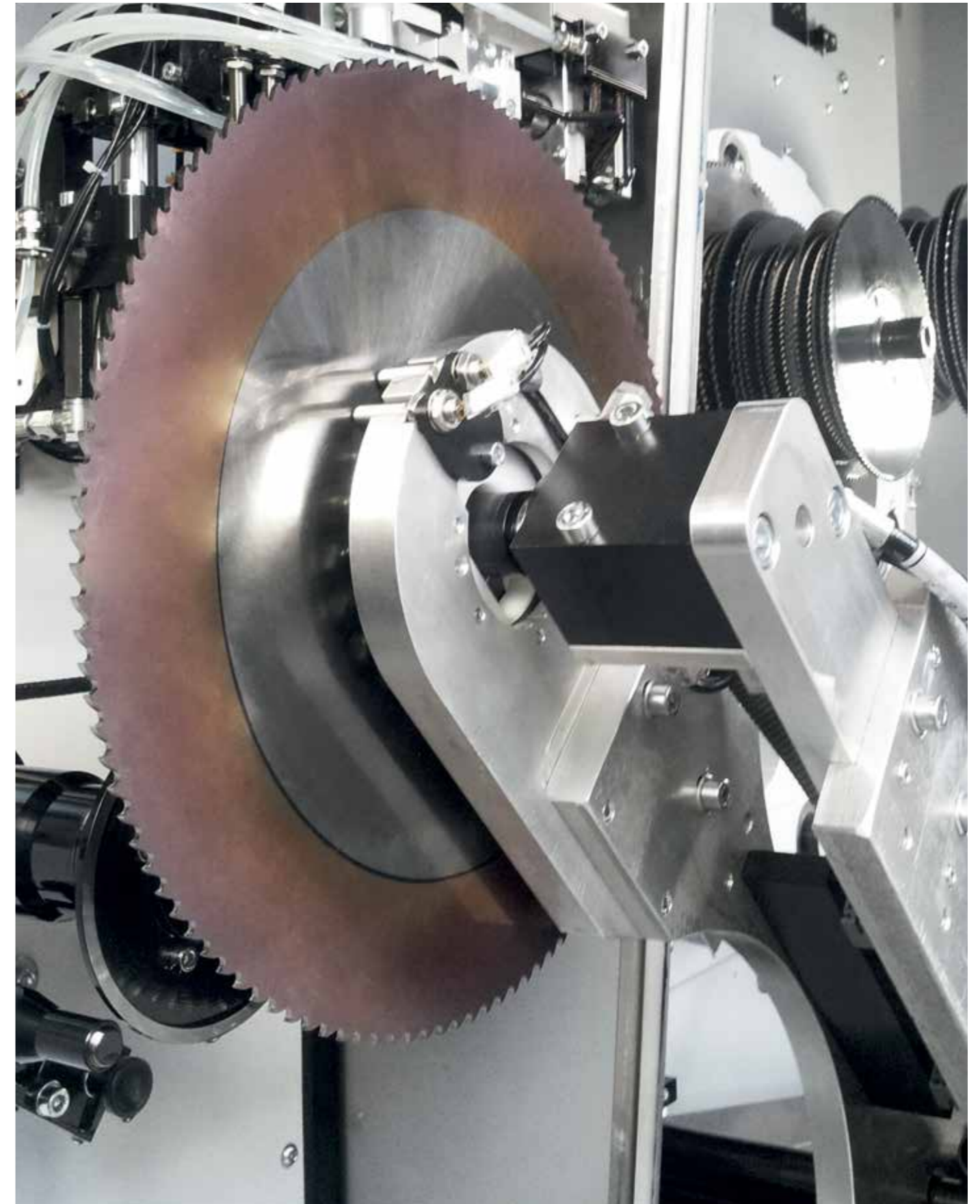
/// MEASUREMENT

////// TC 700

Checking the most significant data regarding HSS and carbide-tipped circular saw blades. The measurement data can be saved and printed with an image or directly sent via email.



Blade diameter 40 to 700 mm





/// CONSUMABLES

At VOLLMER, you will not only get sharpening and eroding machines perfectly tailored to your requirements, but also all the important auxiliary, maintenance and consumable materials, optimally tuned for smooth and efficient deployment. Improve the efficiency and service life of your original VOLLMER machine with the original VOLLMER quality.

CONSUMABLES CIRCULAR SAWS

- // Circular saw guides
- // CBN grinding wheels
- // Diamond grinding wheels
- // Test and measuring tools
- // Other consumables:
filter fleece, feeder bolts, Volmaton,
semi-fluid grease, grinding oil



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/// CUSTOMISED SERVICE

In this competitive environment, VOLLMER is on your side, with highly efficient high-performance machines. A complete portfolio of services that are perfectly matched to your requirements. Our services help you ensure that your VOLLMER machines reach and sustain their full potential and enable you to concentrate fully on that which is most important: Your success.

