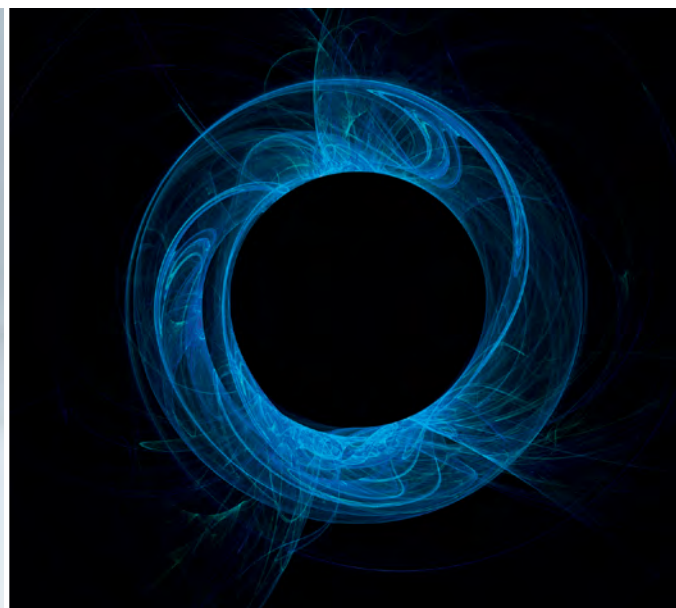
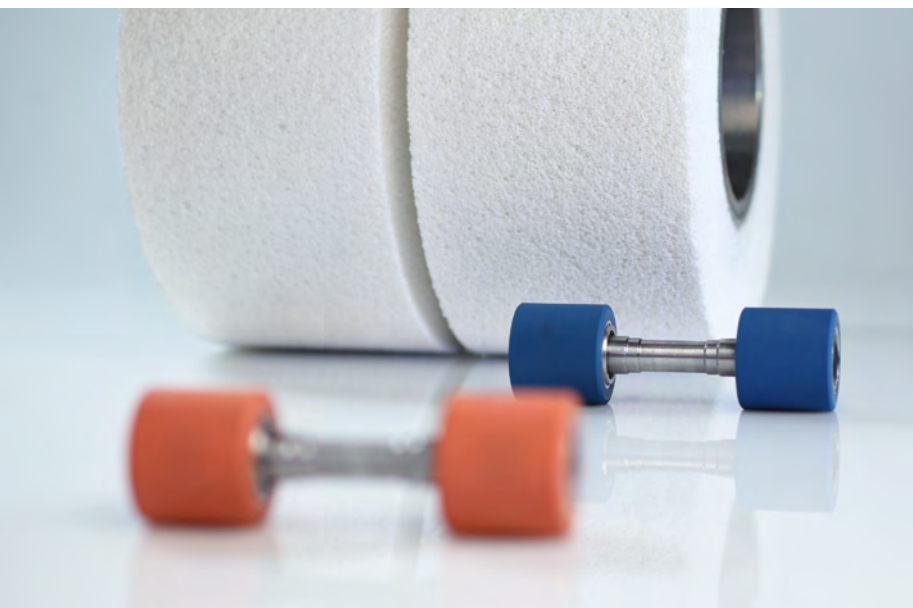


Bräcker



BERKOL[®] supergrinder

The fully automatic grinding system

BERKOL® supergrinder – continuation of a success story

There are various firms offering top roller covers on the one hand and machines to maintain them on the other. But Bräcker is the only firm in the world that offers both produced by themselves under the trade name BERKOL®.

Our grinding machines have been specially developed for grinding rubber and differ significantly from other products with regard to their grinding systems and grinding media.

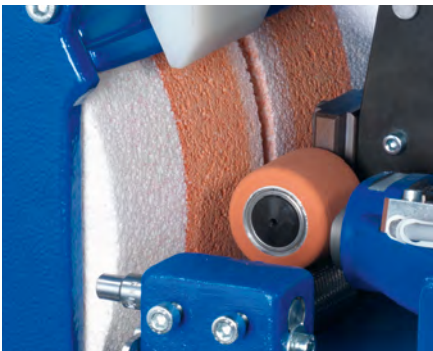


The BERKOL® supergrinder (SG) stands for a new generation of grinding machines that have mastered the art of grinding to perfection. The design is based on a modular structure. The basic machine SG can be built up with the various module combinations to customer specifications as required. The modules consist of the input and output magazine, the measuring system and the Berkolizing unit.

By regularly grinding your top roller covers you ensure the quality of your yarns, because you are reducing thread breaks, minimizing lap formation and guaranteeing perfect true running. Because of reduced downtime, the result is higher productivity and profitability of your spinning machines.

Due the latest technology the grinding time has been reduced by over 50% and the electrical power consumption has been reduced by 10%. The grinding capacity grew up to over 350 top rollers/hour. (depending to cover surface roughness to be achieved).

Machine operation by user-friendly touch-screen panel with integrated multi-language operation guidance in German, English, Chinese, Italian, Spanish, Portuguese, Russian and Turkish.



BERKOL® high performance grinding stone



Machine operation by user-friendly touch-screen panel



Multi-language operation guidance

Module L (LARGE)

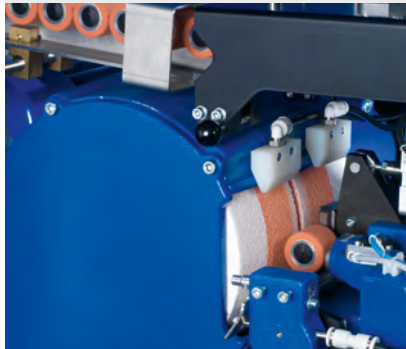
- Large universal loading and unloading magazines
- Up to 2 hours of operator free operation (depending on diameter of cover and filling degree of magazine)
- Loading capacity of up to 450 axles (depending on diameter of cover)



Easy and ergonomical loading / unloading

Module M (MEASURING)

- Integrated measuring system
- Makes differential grinding possible
- Sorting function without grinding
- Grinding to size



Integrated measuring system

Module B (BERKOLIZING)

The top roller covers are evenly berkolized directly after grinding with no additional labour costs. The automatic module is electronically controlled and works synchronously with the grinding process.

Berkolizing brings the following advantages:

- Fewer laps
- Less spindle downtime
- Fewer damaged covers
- More economical production



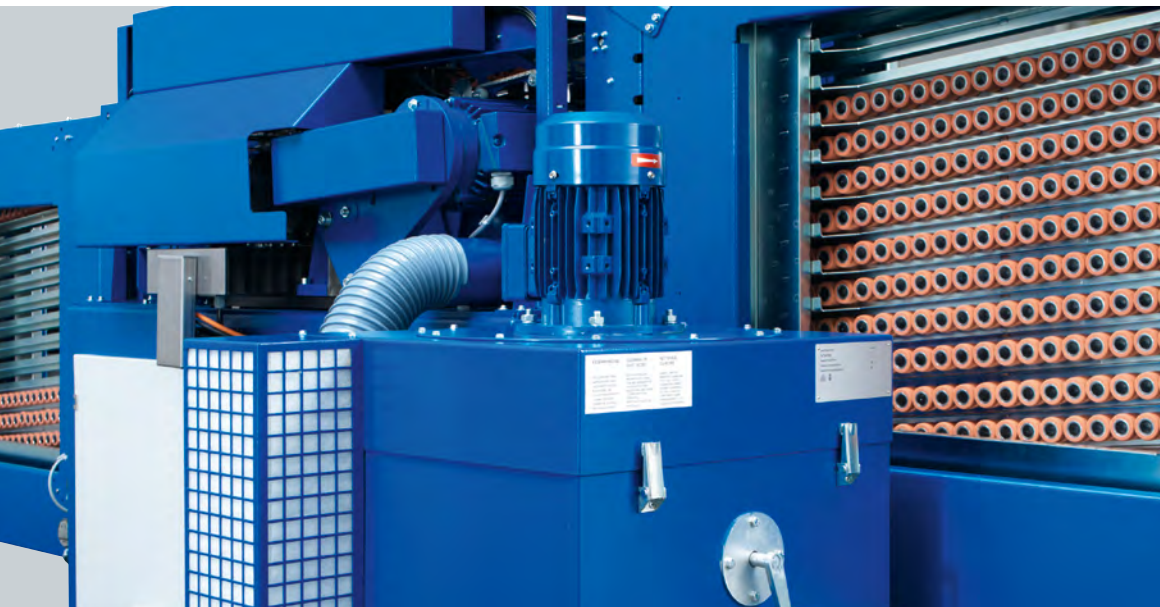
Fully covered berkolizing module

Comparison table BERKOL® supergrinder

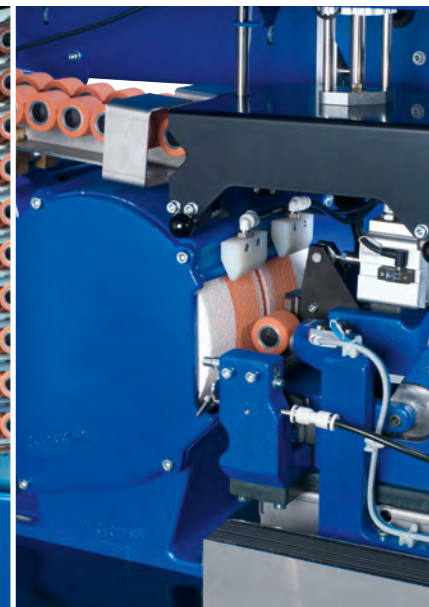
	SG	Modules		
		M	L	B
Work programmes:				
Automatic	yes	yes	yes	yes
Grinding to size	yes	yes	yes	yes
Differential grinding	no	yes	no	no
Sorting	no	yes	no	no
Dressing	semi automatic	–	–	–
Operator-free operation	up to 1 hour	–	up to 2 hours	–
Load capacity (ø 32)	up to 150 axles	–	up to 450 axles	–
Grinding accuracy	rubber surfaces with Ra > 0.5 and rotary accuracy greater than 0.02 mm			
Area of application	ring-roving-airjet			
Working range:				
Min. diameter	19 mm	24 mm		
Max. diameter	42 mm			
Max. axle length	190 mm			
Max. single cover length	60 mm			
Machine control	pneumatic/PLC/step motor driven			
Control panel	touch screen			
Language	German, English, Chinese, Italian, Spanish, Portuguese, Russian, Turkish			
Fault diagnosis	self diagnosis on display			
Berkolizing	no	no	no	yes
Options	balancing apparatus for grinding disc	–	–	–
Initial operation/instruction	by BERKOL®	–	–	–
Tools:				
Standard	included in the price	–	–	–
Special	not needed as a rule	–	–	–
Safety	fully fuse protected in accordance with CE standard			
Grinding disc size	diameter 200 mm width 200 mm speed 2800 rpm			
Grinding disc quality	BERKOL® special grinding disc			
Replacement part service	from store			
Maintenance/servicing	extremely low maintenance			
Suction	20 m ³ /min			
Space required	3.5 x 2.2 m	–	+ 1.3 x 2.2 m	+ 0.8 x 2.2 m
Weight	550 kg	–	+ 240 kg	+ 190 kg
Compressed air supply	6-10 bar	–	–	–
Air consumption	max. 150 l/min	–	–	–
Connection power	5 kW	–	–	+ 2.5
Country of origin	Switzerland			

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Bräcker



supergrinder view from the back with supplied suction device and large universal loading magazine



Modul M, measuring, grinding and cleaning device