KSC 560-B

Loroch sharp solutions!

Entry-level machine for fully automatic
complete machining of metal cutting circular saw blades
incl. automatic grinding of chip breaker slots

+ Loading system with two stacks of finished and unfinished saw blades
+ Diameter Range of Grinding 130 – 560 mm, Chamfering 145 – 560 mm
+ Complete machining of HSS- and TK-saw blades in one clamping operation, including software for TK-saw blades
+ Automatic grinding of chip breaker slots of HSS- and TK-saw blades
+ Preparation for the use of cooling oil, incl. extinguishing system

“Due to the success of the KSC 710-T, we have responded to many customer requests: The advantages of the KSC 710-T in concentrated form – now as a compact entry-level machine.”

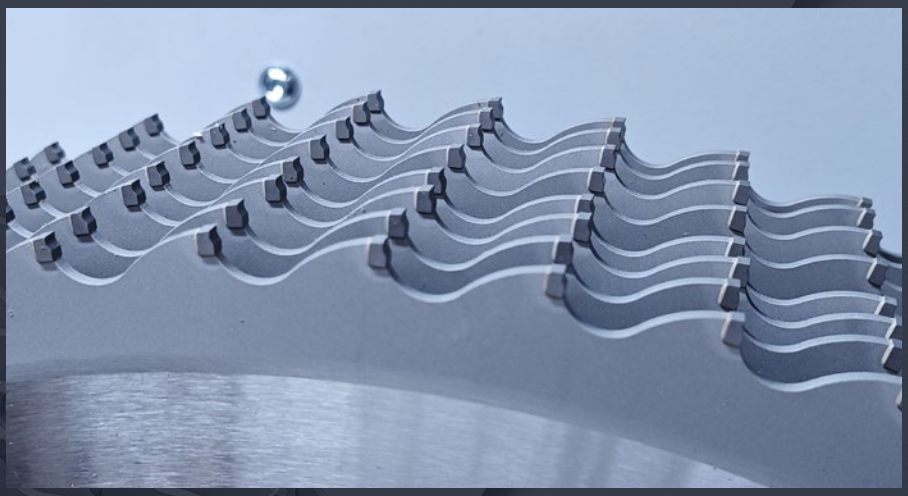
Advantages of the KSC 560-B

Fully automatic grinding

+ Sharpening, cutting off existing teeth, re-toothing, chamfering and cutting in of chip breaker slots

Load capacity

+ approx. 40 saw blades



Short non-productive and grinding times

+ Magazine loading without requiring sorting
+ Easy programming - can be done during grinding
+ Desired hook and clearance angles adjusted quickly and easily
+ No need to wipe dry the finished saw blades due to vertical loading plus no waste of oil

High reliability and excellent grinding quality

+ Easy and proven construction principles
+ Rigid machine, low-vibration direct drive grinding spindle, CBN-abrasive grinding and optimal cooling and coolant filtration
+ Optimally matched peripheral units and consumables (from one source !)
+ Integrated internet connection for remote Diagnostics with optional alarm management

Machine for the use of cooling oil

Low space requirement

Advantageous price-performance ratio

Machine	Ø-Range	Chipbreaker Slots	No. of Stacks	Additional Options	Flexibility
Evolution K850-M	40 – 850	⊗	2	✓	+
KSC 560-B	**130 – 560**	✓	**2**	⊗	**++**
KSC 710-T	40 – 710	✓	3 – 6	✓	+++

User-friendly stack programming

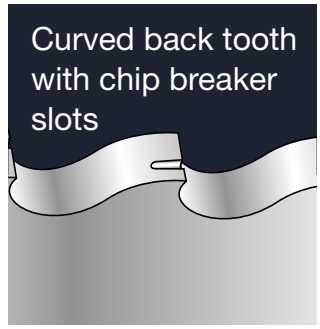
Optional equipment

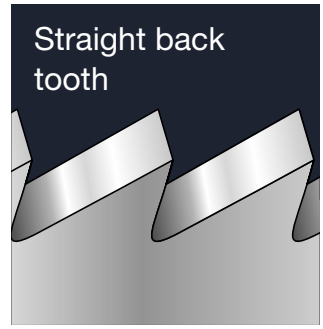
HM- and HSS-Filter

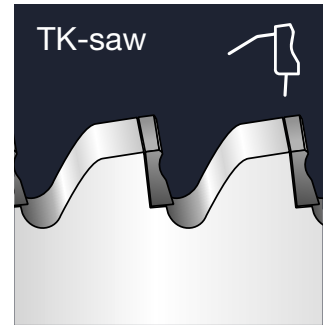
Polar 2.9 with HM- and HSS-Filter

Electrostat 120

Examples of tooth shapes

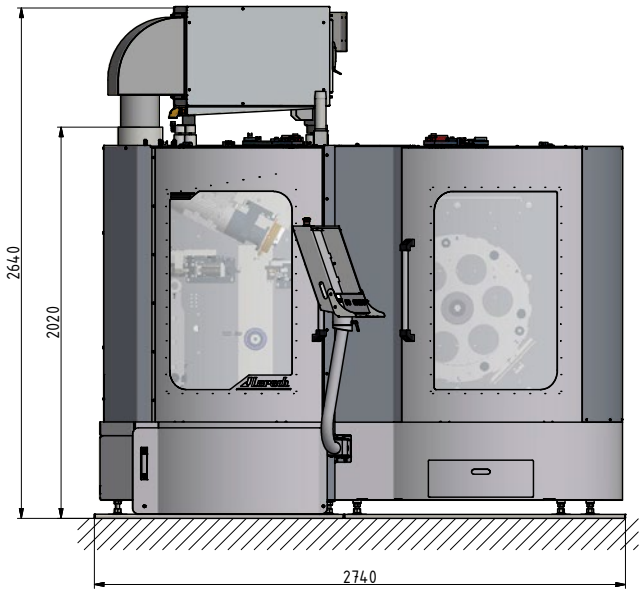


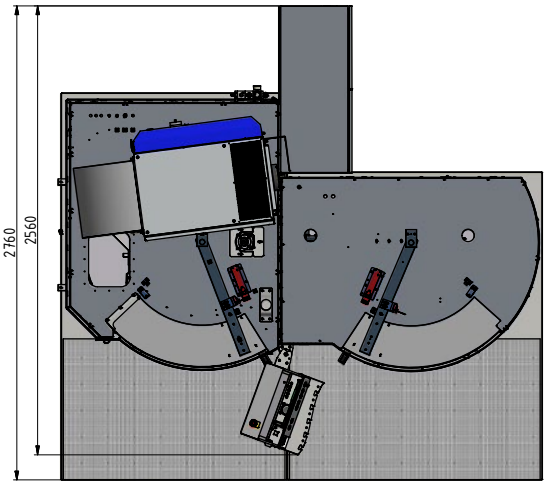




Technical data

Working range	
Saw Blade Grinding	Ø 130 – 560 mm
Saw Blade Chamfering	Ø 145 – 560 mm
Cutting in chip breaker slots HSS- and TK-saws	Ø 200 – 560 mm, thickness >= 1,6 mm
Tooth pitch	1 – 55 mm
Tooth height	max. 17 mm
Number of teeth	2 – 998
Saw blade thickness	up to 8 mm
Magazine loading capacity	max. 40 saw blades
Grinding wheels	
CBN or DIA	Ø 200 mm (14F1)
Bore size	Ø 32 mm
Cooling	
Coolant pressure	approx. 8 bar
Coolant type	oil
Coolant quantity	350 l
Electrical installation	
Grinding motor power	3 kW
Machine input power	10 kVA
Weight	
net	approx. 3200 kg
Dimensions (W x D x H)	
Machine	2740 x 2560 x 2020 mm
Height with air extractor (oil)	2640 mm
Required door opening size for transportation (W x H)	1750 x 2100 mm





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More Information
and product videos

Loroch
sharp solutions!

Economical repair of TK-saw blades

Loroch sharp solutions!

Carbide or cermet-tipped thin kerf saw blades with a chip guiding notch

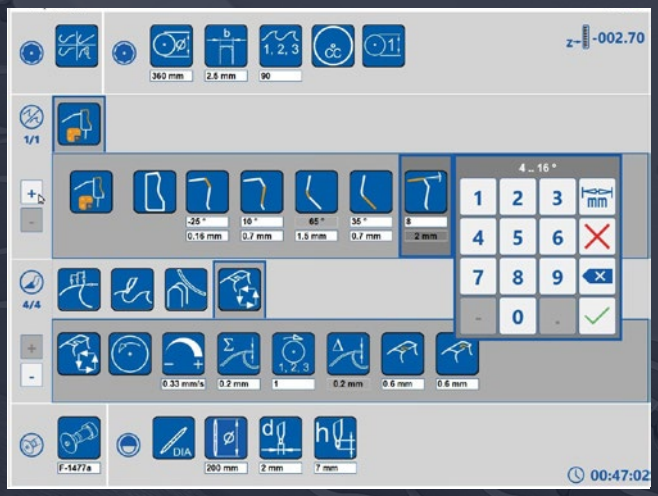
Complete machining in one clamping operation:

Contour, chamfer and chip breaker grinding

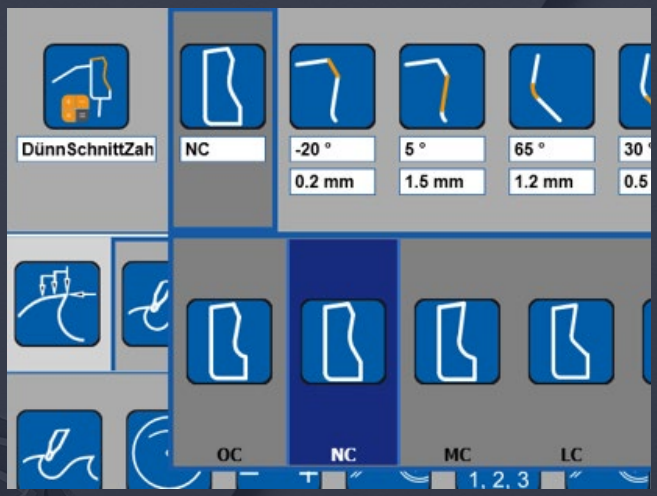
KSC 560-B

KSC 710-T

With the Loroch KSC machine concept, TK-saw blades can be resharpened economically. The advantages of touch control and contour move are noticeable in the shorter process time compared to other technologies.



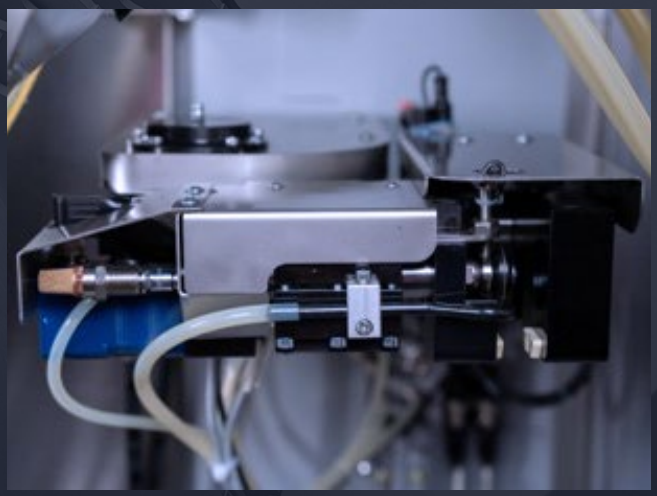
The operator enters all the data required for the process on the clear input screen.



The Loroch geometries for TK-saw blades cover almost all tooth shapes available on the market.

The starting point for processing is determined reliably and precisely with the aid of a structure-borne sound sensor.

A measuring probe is not necessary. If required, the pitch difference between the individual cutting edges can be determined.



The automatic chip breaker device ensures cost-effective complete machining in a single clamping operation, rounding off the automated process.

1. Determine wear mark

The thin-cutting saw was designed for mass cutting systems and is also designed for harsh operating conditions. Nevertheless, it is important to determine the wear mark of the saw before repairing it in order to achieve a maximum economical sharpening process.

With the Loroch TC 720 measuring device, the individual teeth of a TK-saw blade can be measured and examined. →

2. Select grinding wheel

Choosing the right grinding wheel ensures process reliability. The Loroch TurboGrind grinding wheel impresses with its dimensional stability. The radius is precisely determined with the Loroch TC 720 and entered in the User Interface.

← TurboGrind diamond grinding wheel 200 x 2.0 x 32 mm. Control of the grinding wheel radius with the Loroch TC 720 measuring device.

3. Post-treatment

The right choice of post-treatment is important for the effectiveness of the re-sharpened cutting edge. Different methods of cutting edge rounding in combination with a suitable wear protection coating can achieve economical service life times in the sawing process.

TK-saw blade sharpened, rounded and coated. →

It is also possible to process TK-saw blades with following Loroch machines:

solution K850-T

TWIN 860

Machine overview – Technical data

		solution K850-T		KSC 560-B		KSC 710-T		TWIN 860	
		850	920	Manual	Magazine	Manual	Magazine	Metal	Wood
Saw blade data	Recutting / sharpening Ø mm	(40)130 – 850	(40)130 – 920	130 – 560		(40)130 – 710	(75)130 – 540(560)	(60)130 – 860	(145)200 – 700
	Chamfering Ø mm	(105)145 – 850	(105)145 – 920	145 – 560		(105)145 – 710	(105)145 – 540(560)	(75)145 – 860	(145)200 – 700
	Chip breaker manual Ø mm	(115) 180 – 710		—		—		—	
	Chip breaker semi auto Ø mm	—		—		—		(115)130 – 860	
	Chip breaker auto pneum. Ø mm	—		—		185 – 540 (560)		—	
	Chip breaker auto motor. Ø mm	—		200 – 560		200 – 540 (560)		—	
	Thickness mm	max. 8		max. 8		max. 8		max. 8	max. 5
	Tooth pitch mm	1 – 40		1 – 55		1 – 55		1 – 40	6 – 60
	Number of teeth	2 – 998		2 – 998		2 – 998		2 – 998	2 – 998
	Tooth height mm	max. 17		max. 17		max. 17		max. 17	max. 10
Tooth shapes metal	Curved back tooth	✓		✓		✓		✓	—
	Straight back tooth	✓		✓		✓		✓	—
	Vario tooth	✓		✓		✓		✓	—
	SkipTooth	✓		—		✓		✓	—
	TK	✓		✓		✓		✓	—
	TK Material	HM / CER		HM / CER		HM / CER		HM / CER	—
	TK Ø mm	200 – 500		200 – 560		200 – 560		200 – 700	—
	Pocket seat	✓		—		✓		✓	—
	Micro toothing	—		—		—		✓	—
	Circular knifes	—		—		—		✓	—

✓ Standard ✓ Optional

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VIDEO

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