

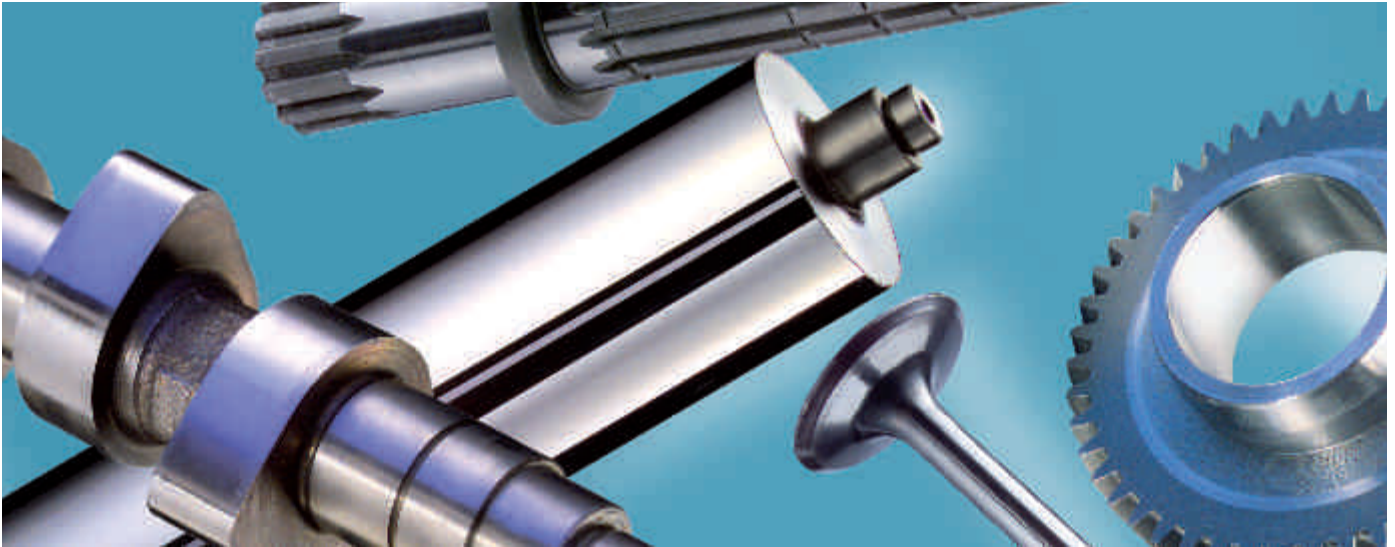
microtec – CR-Finishing®



**Sia**  
ABRASIVES

**microtec**  
WAVY

# CR-Finishing® – Finish technology

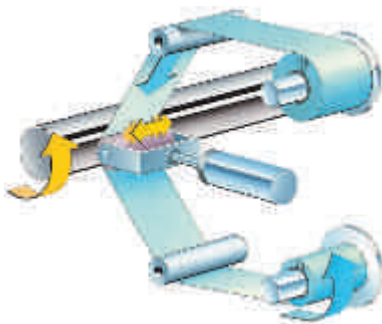


**CR-Finishing® (Constant Result Finishing)** is an efficient method in which every finishing task is considered part of the entire process. The microtec products have been designed specifically to suit application procedures, workpieces and materials. This ensures that the required surface results are achieved the first time.

## Advantages of CR-Finishing

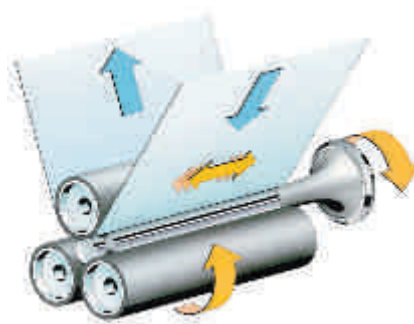
- Constant and precise surface structure
- Outstanding stock removal
- Excellent finishing result
- Highly economical thanks to reduced process and conversion times
- Defined and reproducible surface values

**microtec products specially developed for your procedures:**



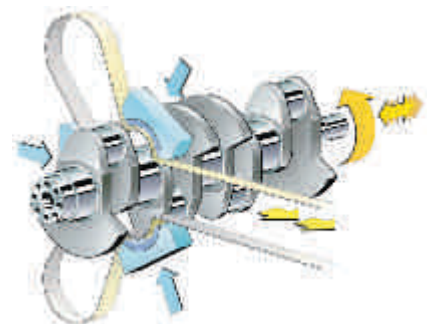
### Contact roller

- Made from plastic or metal
- Continuous finishing belt feed
- Oscillating contact roller



### Centerless

- Through- and in-feed process
- Continuous finishing belt feed
- Belt oscillation



### Pressure shoe

- Single- or multiple-shoe principle
- Indexed finishing belt feed
- Hard or soft pressure shoe
- Oscillating workpiece

# Microabrasives (microtec)

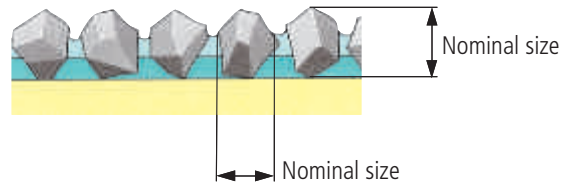
## Grit selection

**Very high surface quality thanks to a unique grit selection in accordance with CIS**  
(Calibration for Industrial Standard, developed by sia Abrasives)



### Grit calibrated in accordance with CIS

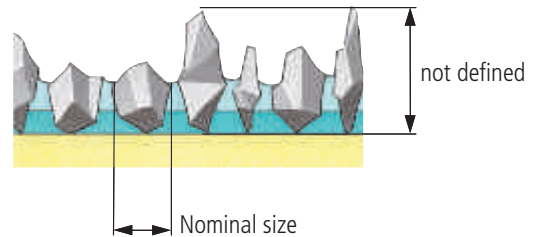
Grit height, width and length defined



Your benefit:  
Perfect contact line thanks to homogeneous grit size

### Grit selection in accordance with FEPA standards

Grit height not defined



Your risk:  
Needle grits can cause scratches

## Backing

### Polyester foil as backing material

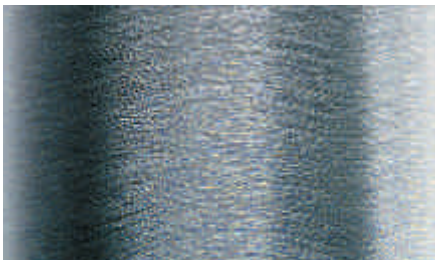
- Constant finishing action
- Exact surface finish without scratches

## Adhesive

### Based on synthetic resin

Permits the application of modern lubricants (oil, emulsion, water) as well as spray cooling

## Examples of use



Surface structure thanks to cross-cutting

Technical surfaces:

- Automotive industry: Cross-cut for crankshafts and camshafts
- Printing industry: Defined surface roughness for copper rollers
- Roller industry: Cross-cut to a mirror finish



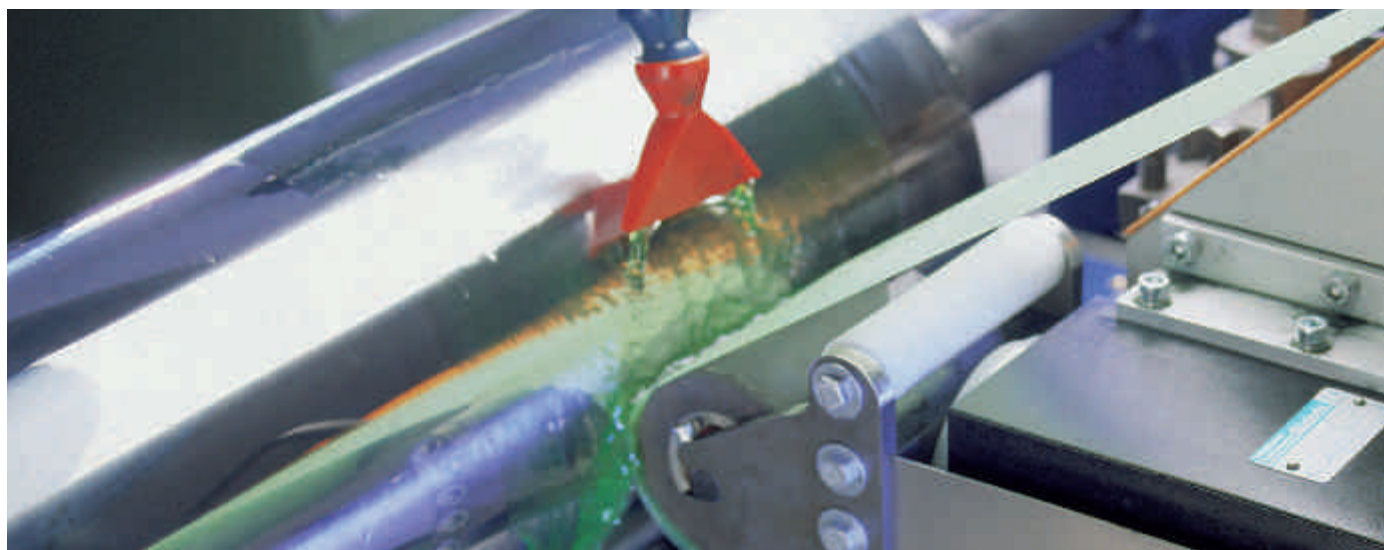
Polished surfaces

Visual surfaces:

- Watch/jewellery industry: Polished finish



# Product selection by application









microtec series	5210	5910	5710	5900	5902	5903	5702
<b>Rollers</b>							
Copper rollers							
Chrome/hard chrome rollers							
Zinc rollers							
Hardened steel rollers							
Plasma-coated rollers (ceramic)							
Rubber and plastic rollers							
Teflon rollers							
<b>Vehicles and machines</b>							
Camshafts							
Crankshafts							
Steering assembly parts							
Shock absorber parts							
Valves							
Hydraulic components							
Pneumatic components							
Ball bearings							
<b>Watches</b>							
Watch cases, bracelets							
<b>Metallurgy</b>							
Test objects, etc.							

Yellow areas = recommended series for the application examples

# Product selection by material and conversion form



microtec series		5210	5910	5710	5900	5902	5903	5702
<b>Materials</b>								
Hard coatings								
Steel / steel alloys								
Rubber								
Plastics								
Non-ferrous metals								
Glass								
Stone								
<b>Conversion forms</b>		<b>Dimensions</b>						
 Rolls	8 – 205 mm x 15 – 300 m							
 Sheets	230 x 280 mm							
 Sheets SAF	230 x 280 mm							
 Discs	Ø 25 – 450 mm							
 Discs SAF	Ø 25 – 450 mm							
 Belts	on request							

■ Yellow fields = recommended series

## Grit range:

100 µm – 3 µm

## Formats:

Aluminium oxide, silicon carbide, diamond, elutriated (slurry coated) or electrostatically spread, on special polyester foil, for dry and wet finishing, with or without self-adhesive foil (SAF).

# Overview of range

Series	Colour	µm	FEPA P	Foil thickness	Coating	Grit type
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5210 siacarat microtec						
	silver	60	240	75 µm	elutriated	diamond
	dark green	45	320			
	green	30	500			
	orange	15	1 200			
	blue	9	2 000			
	grey	6	2 500			
	pink	3	3 000			

5910 microtec						
	silver	60	240	75 µm	elutriated	ALOX
	dark blue	40	360			
	light green	30	500			
	yellow	12	1 500			
	light blue	9	2 000			
	brown	5	2 700			
	pink	3	3 000			

5710 microtec						
	grey	60	240	75 µm	elutriated	SiC
	grey	40	360			
	grey	30	500			
	grey	12	1 500			
	grey	9	2 000			
	grey	5	2 700			
	grey	3	3 000			

Series	Colour	µm	FEPA P	Foil thickness	Coating	Grit type
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#### 5900 microtec

	all transparent and backprinted	60	240	75 µm	electrostatic	ALOX
		50	280			
		40	360			
		30	500			
		20	800			
		15	1 200			
		9	2 000			

#### 5902 microtec

	all transparent and backprinted	100	150	125 µm	electrostatic ASC	ALOX
		80	180			
		60	240			
		50	280			
		40	360			
		30	500			
		20	800			
		15	1 200			
		9	2 000			

#### 5903 microtec

	all transparent and backprinted	50	280	75 µm	electrostatic ASC	ALOX
		40	360			
		30	500			
		20	800			
		15	1 200			

#### 5702 microtec

	all grey and backprinted	60	240	125 µm	electrostatic ASC	SiC
		40	360			
		30	500			
		20	800			
		15	1 200			

ASC = Anti-slip coating

# sia Abrasives – Your Key to a Perfect Surface



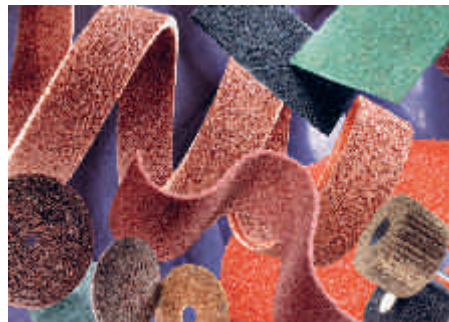
**sia Abrasives Industries AG, Frauenfeld/Switzerland**

The sia Group is based in Frauenfeld, Switzerland, and is one of the world's top three suppliers of innovative abrasives. sia develops, manufactures and sells complete sanding systems tailored to specific requirements and applications of all kinds, transforming sanding into surface technology. sia Abrasives employs about 1150 people and is represented in more than 80 countries.



**Coated abrasives**

Classic flexible abrasives and systems for conventional surface treatment on all types of material.



**Nonwoven abrasives**

Nonwoven products for preparation and cleaning tasks and for structuring, especially on metal.



**Microabrasives**

Products on special polyester film to give defined surface structures in the areas of graphics, optics and the auto industry.



**Foam abrasives**

Foam sanding pads in the widest possible range of shapes and grades for precision sanding on wood, fillers, paintwork and varnish.

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