

# Aka-Piatto

– THE SMARTER ALTERNATIVE  
FOR PLANE AND FINE GRINDING

- **High Material Removal**  
= short preparation times
- **Perfect Flatness**  
= short preparation steps and perfect edge retention
- **Long Lifetime**  
= saving cost and reducing waste

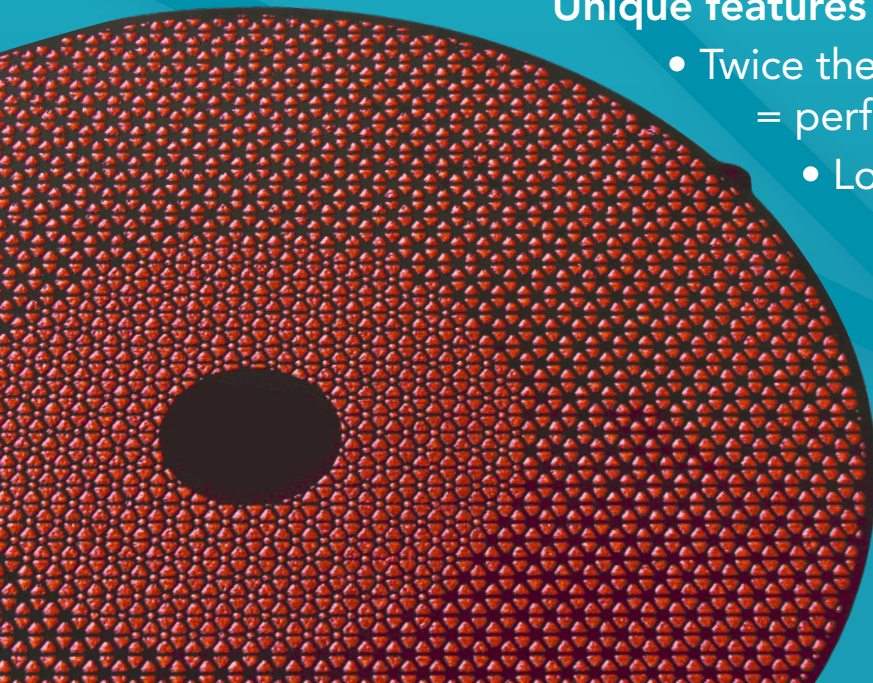
The Aka-Piatto discs are developed to help you achieve your preparation goals in the best possible way.

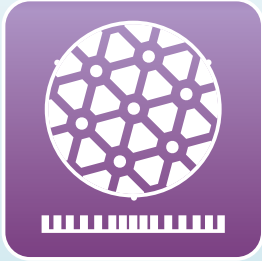
## Additional unique features of Aka-Piatto

- Wear compensating design
- Color coded for easy identification
- Tabs for easy removal

## Unique features of Aka-Piatto+

- Twice the concentration of diamonds  
= perfect for brittle materials
- Longer lifetime





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## Plane Grinding

For materials with a hardness higher than 150 HV, Aka-Piatto is the perfect choice. Aka-Piatto is a multi-layer diamond grinding disc that can replace 200-300 pieces of regular grinding paper. It has a consistently high removal rate and will provide absolutely plane specimens with perfect edge retention.

The Aka-Piatto is pre-dressed and ready to use. However, it has to be dressed with a dressing stick once in a while to ensure a continuously high removal rate.

Depending on the size and the hardness of the samples, Aka-Piatto 80 - 220 is used for plane grinding.

Usually a single plane grinding step is sufficient when grinding with Aka-Piatto. The absolutely plane samples make it possible to shorten the following fine grinding.

## Fine Grinding

As the samples are absolutely flat after plane grinding, a single fine grinding step using a rigid

grinding disc like Aka-Allegran or Aka-Largan can be used. Alternatively, Aka-Piatto can be used in the more traditional way where several grinding steps are carried out successively.

As Aka-Piatto is used with water only, cleaning is easier as with Aka-Allegran or Aka-Largan, and not even necessary in-between grinding steps.

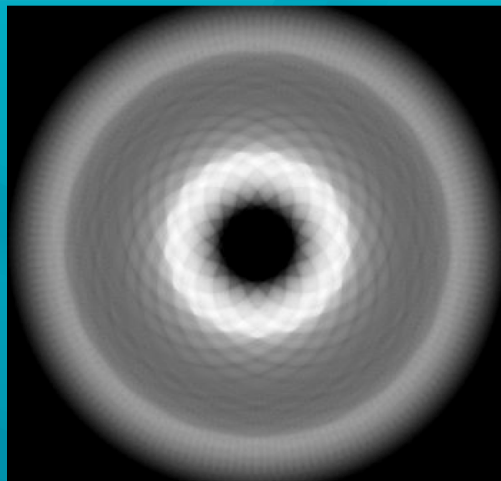
## Aka-Piatto+

Aka-Piatto+ is a series of Piatto discs with identical features to Aka-Piatto, but twice the diamond concentration. This makes it the optimal choice for plane and fine grinding of brittle materials like ceramics, cermets (e.g. CMC; Ceramic Matrix Composites) and sintered carbides.

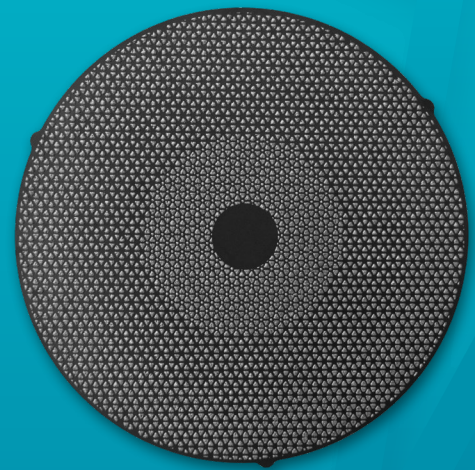
The very high diamond concentration makes the abrasion less aggressive due to a lower specific pressure which is ideal for the preparation of these types of materials. Used on metals it results in finer finish and up to 100% longer lifetime compared to the regular Aka-Piatto.

# APPLICATION OVERVIEW

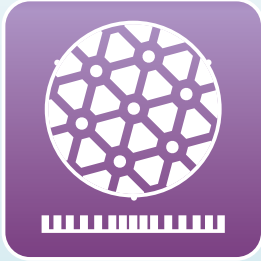
	Aka-Piatto	Aka-Piatto+
Plane Grinding	#80, #120, #220	#80, #120, #220
Fine Grinding	#600, #1200, #2400, #4000	#600, #1200
Use with	Water	Water
Hardness range	>150 HV	>150 HV
Applications / Benefits	Long lifetime, continuous removal and perfect planeness. Can replace several consecutive grinding paper steps.	Very long lifetime, continuous removal, perfect planeness, finer surface finish for brittle materials like ceramics and cermets. Can replace several consecutive grinding paper steps.



Graphic illustration showing the wear on a uniform grinding disc. White area shows the highest wear.



Wear compensating design of Aka-Piatto. Higher density in the center and at the periphery equalise wear and increase lifetime compared to competitive discs.



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<b>Product no.</b> <b>Colour coding</b>	200 mm dia.	250 mm dia.	300 mm dia.	350 mm dia.
Aka-Piatto 80, 250 µm	31212010	31212510	31213010	31213510
Aka-Piatto 120, 125 µm	31212020	31212520	31213020	31213520
Aka-Piatto 220, 75 µm	31212030	31212530	31213030	31213530
Aka-Piatto 600, 30 µm	31212045	31212545	31213045	31213545
Aka-Piatto 1200, 15 µm	31212060	31212560	31213060	31213560
Aka-Piatto 2400, 6 µm	31212075	31212075	31213075	n.a.
Aka-Piatto 4000, 3 µm	31212090	31212590	31213090	n.a.
Aka-Piatto+ 80, 250 µm	31412010	31412510	31413010	n.a.
Aka-Piatto+ 120, 125 µm	31412020	31412520	31413020	n.a.
Aka-Piatto+ 220, 75 µm	31412030	31412530	31413030	n.a.
Aka-Piatto+ 600, 30 µm	31412045	31412545	31413045	n.a.
Aka-Piatto+ 1200, 15 µm	31412060	31412560	31413060	n.a.

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