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## GALA Preparation for Steel Samples

Sample diameter: 30 mm, 40 mm, 50 mm with multiple pressure systems for individual sample pressure

Process	Medium / Grit size	Rotation direction	rpm (min⁻¹)	Pressure per sample 30 mm (N)	Pressure per sample 40 mm (N)	Pressure per sample 50 mm (N)	Time (min)
Planarizing	Apollo-S 125 μm <sup>1</sup>	⇒ or ≒	300	35	60	100	1-2
(The Planarization step i necessary only for large samples > 40mm)							
Grinding I	APOLLO-S 54 μm <sup>1</sup>	⇒ or ⇒	300	35	60	100	2
Grinding II	APOLLO-S 18 $\mu m^1$	≓ or ≒	300	35	60	100	2
Polishing I	Pad STEP-PLUS MAGNUM-GREEN 3 μm <sup>2</sup> - or - MAGNUM-TOP-DUO 3 μm <sup>3</sup>	₽	150	35	50	80	5
Polishing II	Pad STEP-PLUS MAGNUM-GREEN 1 μm <sup>2</sup> - or - MAGNUM-TOP-DUO 3 μm <sup>3</sup>	₽	150	25	40	70	2
Alternative: Polishing II	Pad MAMBO O.P.S. oxide slurry 50 nm <sup>4</sup>	₽	150	20	30	55	30 s O.P.S. 10 s water

## Notes

<sup>1</sup> Use water as coolant/lubricant

<sup>2</sup> MAGNUM-GREEN: alcohol-based suspension for manual dosage - spray 5x only before polishing. During polishing use only LUBRICANT-BLUE. Not for use with automatic dosing systems.

<sup>3</sup> MAGNUM-TOP-DUO: water-based suspension for manual or automatic dosage. Use without lubricants.

<sup>4</sup> Moisten MAMBO pad before usage with de-ionized water. After O.P.S. polishing rinse with de-ionized water for 10 s.

Unhardened steel samples or silicon-stabilized steel samples: Do <u>not</u> clean with water after the grinding steps. Use alcohol for cleaning.

