















PREPARATION METHOD

COBALT BASED ALLOY

 CUTTING		Equipment QATM Qcut / Brilliant	Consumables Cut-off wheel: corundum, resin or rubber bond Anti-corrosion coolant				
 MOUNTING		Equipment QATM Qpress / Opal	Consumables EPO black, EPO-Max KEM 15 plus			Method Hot mounting Cold mounting	
 GRINDING/ POLISHING		Equipment QATM Qpol / Saphir Sample size \varnothing 40 mm					
STEP	MEDIUM		 rpm		 N	 min	
 Planar grinding	SiC-paper/foil P320 (280)	H ₂ O	250-300	▶▶ Synchronous rotation	30	Until plane	
 Grinding	SiC-paper/foil P600 (400)	H ₂ O	250-300	▶▶ Synchronous rotation	30	1:00	
 Grinding	SiC-paper/foil P1200 (600)	H ₂ O	250-300	▶▶ Synchronous rotation	30	1:00	
 Polishing	SIGMA	Dia Complete Poly, 3 μ m	120-150	▶▶ Synchronous rotation	25	5:00	
 Final polishing	OMEGA	Eposal, 0.06 μ m	120-150	◀▶ Counter rotation	20	1:00 (H ₂ O during final 0:30)	
 Optional: Etching (chem.)	Nital 3%					Approx. 0:01-0:10	