

PREPARATION METHOD

TITANIUM BASED ALLOY



Equipment QATM Qcut / Brillant Consumable

Cut-off wheel: silicon carbide, resin bond Anti-corrosion coolant

MOUNTING

Equipment QATM Qpress / Opal **Consumable** EPO black, EPO-Max

KEM 20, KEM 15 plus

Method Hot mounting

Cold mounting

<u></u>	GRINDING/ POLISHING

Equipment QATM Qpol / Saphir Sample size Ø 40 mm

_	3411 ptc 312c & 40 11111						
STEP	MEDIUM	47	rpm	€	<u>↓↓↓</u> N	e min	
Planar grinding	SiC-paper/foil P320 (280)	H ₂ O	250-300	Syncronous rotation	25	Until plane	
Grinding	SiC-paper/foil P600 (400)	H ₂ O	250-300	Syncronous rotation	25	1:30	
Pre-polishing	ALPHA/BETA	Dia Complete Poly, 9 µm	120-150	◄ ► Counter rotation	30	5:00	
Final polishing	OMEGA	Eposil F, 0.1 μm*	120-150	◄ ► Counter rotation	40	8:00-10:00** (H ₂ O during final 0:30)	
Optional: Etching (chemical)	Kroll's reagent					Approx. 0:45-0:55	

^{*} Eposil F has to be mixed with hydrogen peroxide (35%) in a ratio of 5:1 (safety advice: use personal protective equipment)

^{**} Depends on the alloy