

## WHITE-STAGE ZIRCONIA POLISHERS

Zirconia in the pre-sintered state has a porous structure and a low strength. A subsequent sintering process can not eliminate defects such as cracks, steps and microchips developed after manufacturing or shaping and structure adjusting. Furthermore, polishing only at the zirconia sintering stage causes high material wear on the polishing tools and is very time-consuming. Therefore, white-stage polishing restoration is an essential step before the sintering process.

**JOTA PRE-SINTERPOL** does not change the color of the pre-sintered zirconia and improves the surface quality. The dark grey M-polishers grind away connectors, thin the margins and smooth the surface. The light grey F-polishers polish the surface of pre-sintered zirconia.

### Recommendations:

- use gloves when polishing pre-sintered zirconia, as it is highly sensitive to any coloured impurities
- pre-sintered zirconia restorations should be polished only in the dry state
- rotation speed 4.000-7.000 RPM with light pressure



IMPROVE MECHANICAL PROPERTIES

STRENGTH OF THE RESTORATIONS IS 25-35% HIGHER

IMPROVE OPTICAL PROPERTIES

SMOOTHER SURFACE

WITHOUT A DYE

DON'T STAIN ZIRCONIA



VIDEO

# PRE-SINTERPOL

DURABLE | TIME-SAVING | SMOOTHER | ECONOMICAL

ZIR9972M.HP.100

REF 658104275423100

L = 24.0 mm



ZIR9974M.HP.055

REF 658104275423055

L = 16.0 mm



ZIR9972F.HP.100

REF 658104275413100

L = 24.0 mm



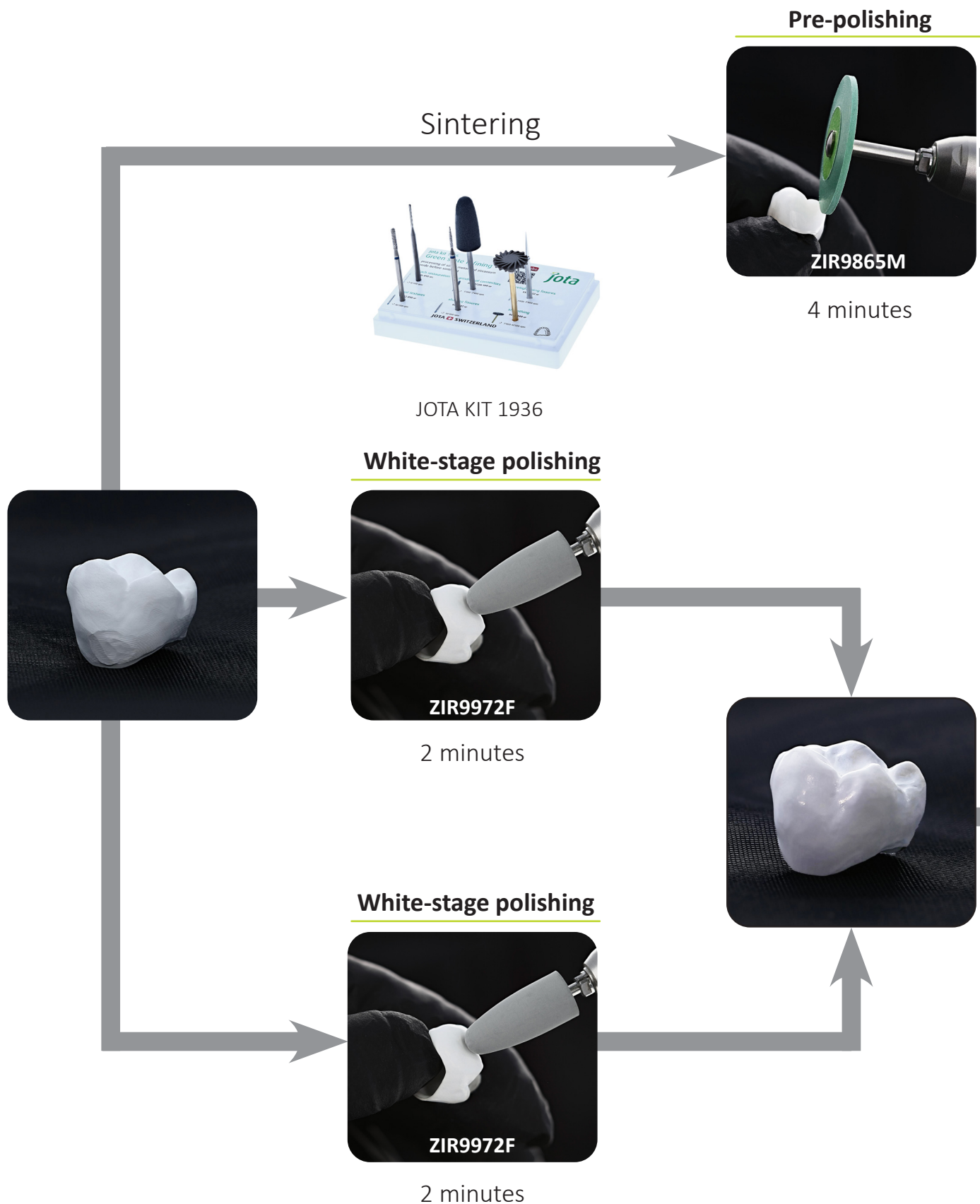
ZIR9974F.HP.055

REF 658104275413055

L = 16.0 mm



# ZIRCONIA POLISHING WORKFLOWS



White-stage polishing **improves the optical and mechanical properties of zirconia**, and polishing after sintering takes **less time** therefore, the pre-polishing step (green polisher ZIR9865M) can be skipped. Nevertheless, the two-steps polishing protocol increases flexural strength. Additional polishing step removes more surface defects and thus achieves a smoother surface.

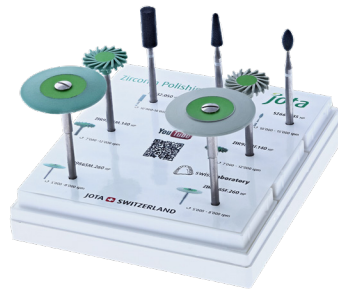
**High-gloss polishing**



ZIR9865F

4 minutes

Biaxial strength **1000 MPa**  
Surface roughness **Ra=0,258 μm**



JOTA KIT 1446

**High-gloss polishing**



ZIR9865F

2 minutes

Biaxial strength **1250 MPa**  
Surface roughness **Ra=0,23 μm**



Biaxial strength **1350 MPa**  
Surface roughness **0,121 μm**

**Pre-polishing**



ZIR9865M

2 minutes

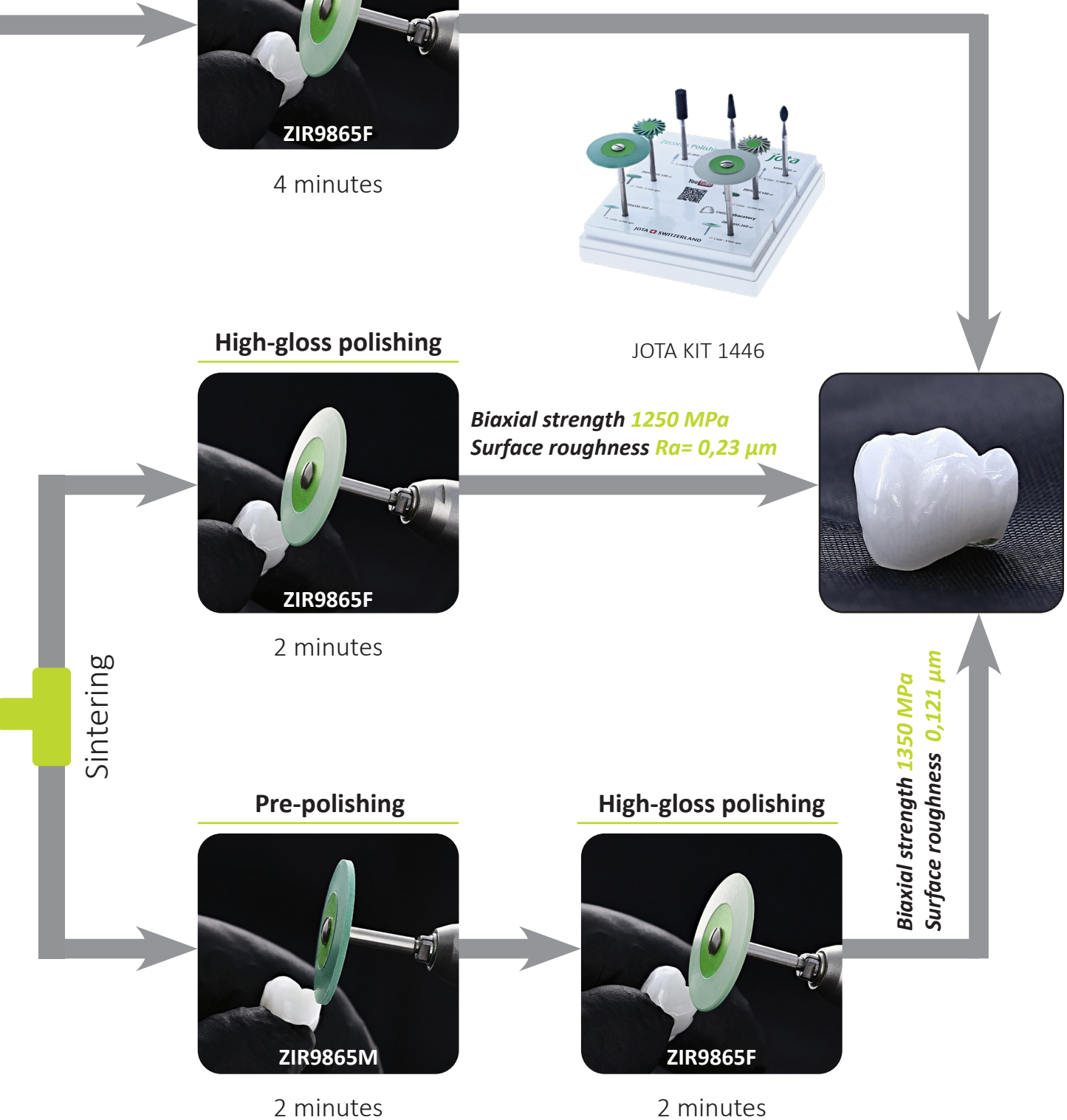
**High-gloss polishing**



ZIR9865F

2 minutes

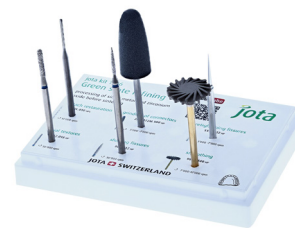
Sintering



# KIT 1936 GREEN STATE REFINING



VIDEO



**C31RL.HPL.010**

Separating



**ZIR9972M.HP.100**

Connectors grinding and surface smoothing



**515L.HP.012**

Fissures retightening



**882.HP.018**

Straight surfaces processing



**863.HP.012**

Surface texturing or fissures shaping



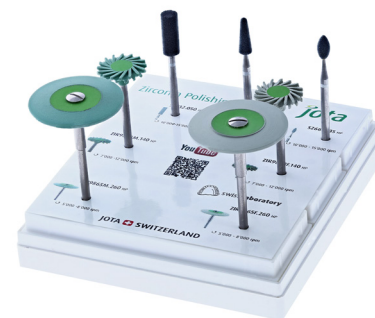
**9840.HP.140**

White-stage polishing

# KIT 1446 ZIRCONIA POLISHING



VIDEO



**SZ732HP.050**

Straight surfaces smoothing and margins thinning



**SZ667.HP.035**

Supracontact points adjusting



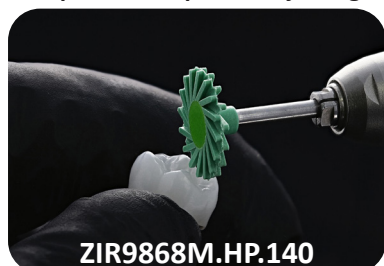
**SZ652R.HP.035**

Interdenal spaces finishing



**ZIR9865M.HP.260**

All surfaces pre-polishing



**ZIR9868M.HP.140**

Occlusal surface pre-polishing



**ZIR9865F.HP.260**

High-lustre polishing of all surfaces



**ZIR9868F.HP.140**

High-lustre polishing of occlusal surface