

The (R)Evolution for dental surgeons

Makes other bone substitutes unnecessary

Best patient acceptance



No 50%
hard and soft
tissue volume loss
thanks to socket
preservation
with the
Smart Grinder

CHAMPIONS® SMART GRINDER USER MANUAL

You can transform extracted teeth
in the best bone graft in about
15 minutes



CAUTION:

Rarely the tooth will get caught between the blade and the chamber and will stall the grinder.

In such cases, **IMMEDIATELY** turn off the unit, dislodge the tooth manually and try again. Failing to do so will burn and damage the grinder motor.

STEP 1

PREPARING THE TEETH

Teeth that have root canal filling can only be used to a certain extent. Graft should only be used for the patient from whom the tooth was extracted. You can also use teeth that were extracted several years ago.

- The extraction of teeth and the preparation of the particulate dentin are done in the same clinical session.
- Use a customary diamond or a carbide drill to remove all iatrogenic filling material as well as endodontic filling material from the extracted teeth so that only "clean" teeth remain.

Then, dry the teeth by air syringe of your unit.



STEP 2

PREPARING THE SMART GRINDER

- Place the chamber on the top of the Smart Grinder.
- Align the small arrow on the chamber with the one in the center of the grinder.
- Turn the chamber counterclockwise to lock it in position.
- When locked, the LOCK indicator arrow on the chamber is aligned with the arrow on the grinder.
- Switch on the Smart Grinder. Switch is located in the back of the unit.

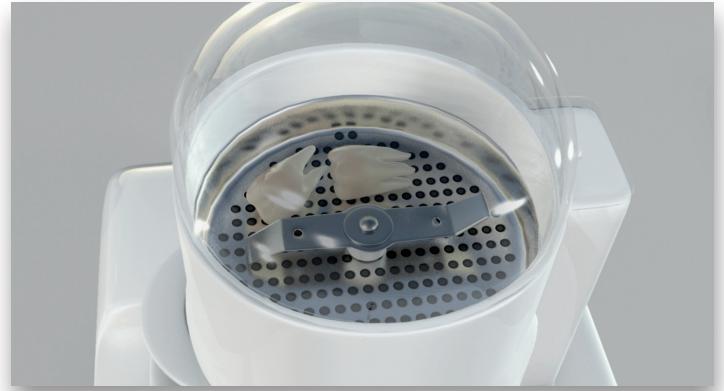


STEP 3

PLACING THE TEETH IN THE SMART GRINDER

- Place the cleaned teeth inside the chamber next to the blades.
- Close the chamber cap and twist it counterclockwise so that it clicks into place.

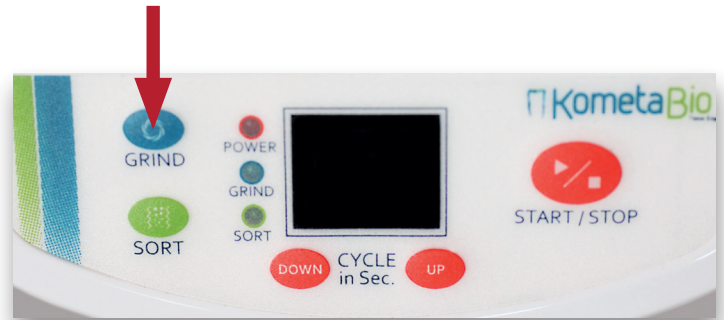
Please note that the grinding chamber is a single-use product. An autoclave sterilization can damage both the chamber and the sterilization device.



CONFIGURING THE GRINDING TIME

- Press the GRIND button. The GRIND indicator lights up.
- Press the UP and/or the DOWN button as many times as needed in order to set the preferred Grinding Time.

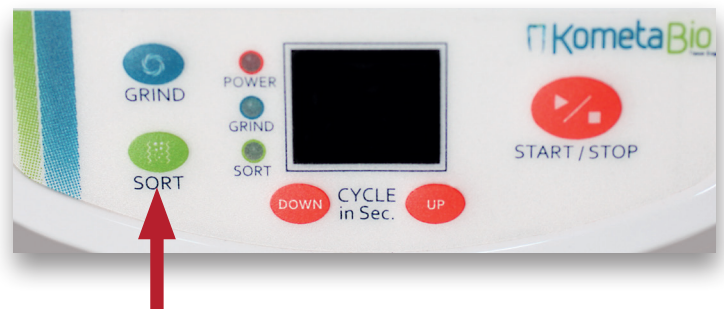
We strongly recommend setting grinding time to 3 seconds.



CONFIGURING THE SORTING TIME

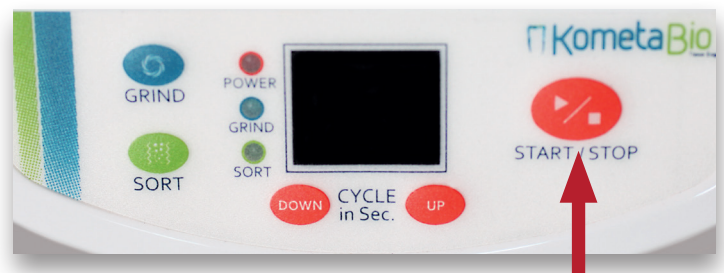
- Press the SORT button. The SORT indicator lights up.
- Press the UP and/or the DOWN button as many times as needed in order to set the preferred sorting time.

We recommend setting sorting time to 20 seconds.



GRINDING AND SORTING THE TEETH

- Press the START button to start the grinding process.
- If large pieces are left in the grinding chamber, repeat the GRIND/SORT step as described above.



STEP 4

EXTRACTING THE CHAMBER DRAWERS

- Pull out/apart the top drawer compartment, which contains particles of between 300–1,200 microns.
- Bottom drawer containing particles smaller than 300 microns can be added as well in case more volume is needed.



STEP 5

CLEANSING THE PARTICLES

- Pour the contents of the top drawer compartment into one of the provided containers (Dappen dish).
- Pour the provided Cleanser® into the container with the particulate. Fill to cover the particulate.
- Close the container's cap by turning it clockwise.
- Leave the particulate in the cleansing solution for about 10 minutes at room temperature.
- Using a sterile cotton gauze, absorb the cleansing solution.
- Pour Phosphate Buffered Saline (PBS) into the container. Fill approximately half the container. Shake the container gently and leave for about 3 minutes.
- **IMPORTANT: Please use sufficient amount of PBS.**
- Then, using a sterile cotton gauze, absorb the excess PBS solution.
The particulate dentin is ready for immediate grafting.



Patent No.: US61/752,453
Rev. 2/2017-04

28.05.2017
Bedienungsanleitung Smart Grindern
Version 2017-02

champions  implants

Champions-Implants GmbH

Champions Platz 1 · Im Baumfeld 30 | D-55237 Flonheim

fon +49 (0)6734 91 40 80 | fax +49 (0)6734 10 53

info@champions-implants.com

More information about our products at:
www.champions-implants.com