PALDENT TECH

BONEGAINER

Autologous bone harvesting

Bone scraper with continuous cutting performance for oral surgery



CLINICALLY VALIDATED · MADE IN GERMANY · COHEN R = 0.86 — A LARGE EFFECT FOR THE CLINICIAN

THE INSTRUMENT

Four components.
One controlled workflow.

The BoneGainer combines controlled bone harvesting, long-lasting cutting performance, integrated material collection and ergonomic handling.

01

Blade / Working Tip

Designed for controlled harvesting of cortical bone material.

02

Dual-Side Blade Mechanism

Controlled scraping with continuous cutting performance.

03

Integrated Collection Chamber

Direct collection of harvested bone material into the integrated chamber — with a capacity of 0.48 cm³ for the bone material and visual control at all times.

04

Slider Mechanism

Easy, controlled retrieval of the collected material.

HOW IT WORKS



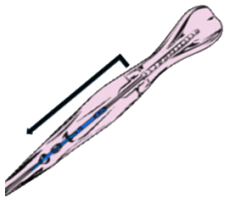
1 Scrape

Gentle, precise collection of autologous bone.



2 Store

Direct collection of material into the integrated chamber.



3 Apply

Simple retrieval and seamless transfer.



Sterile · Single Use

Consistent cutting behavior throughout the entire procedure — eliminating the performance degradation seen with conventional instruments.

CLINICAL VALIDATION

Significant improvements across all categories.

Non-randomized comparative usability pilot study (2025): The BoneGainer achieved statistically significantly better ratings than the reference instrument in all main categories examined.

+47 %	+39 %	+34 %	+34 %
ERGONOMICS	EFFICIENCY	EFFECTIVENESS	SATISFACTION

r = 0.82 – 0.86 COHEN EFFECT SIZE — A LARGE EFFECT FOR THE CLINICIAN

Study parameters at a glance

- 16 participants from the fields of oral surgery, dentistry, and OMFS training
- 25 assessment parameters (structured Likert scale 1–5)
- Standardized clinical simulation conducted on human cadaveric models
- Statistical analysis using the paired Wilcoxon test



Ergonomic. Precise. Controlled.

The ergonomic design of the BoneGainer supports stable hand guidance and precise instrument control — for efficient, low-fatigue work in any situation. Suitable for both right- and left-handed users.

FDA STANDARDS · EN-ISO 13485 · STERILE · SINGLE USE · MADE IN GERMANY

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Continuous performance.

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MADE IN GERMANY

MEDICAL DEVICE · STERILE, SINGLE-USE · INTENDED USE