

3shape 

TRIOS[®]

Because accuracy matters



Results from American Dental Association study

3Shape TRIOS[®]* identified as the most accurate intraoral scanner for single crown (in vitro)



Trueness (Accuracy)¹

1. 3Shape TRIOS [®]	6.9 ± 0.9 μm
2. Carestream CS 3500	9.8 ± 0.8 μm
3. iTero [®]	9.8 ± 2.5 μm
4. 3M [™] True Definition	10.3 ± 0.9 μm
5. Planmeca PlanScan [®]	30.9 ± 10.8 μm
6. Sirona CEREC Omnicam	45.2 ± 17.1 μm

¹ Hack and Patzelt, ADA Professional Product Review 2015
American Dental Association, University of Freiburg, Baltimore College of Dental Surgery
A 3Shape TRIOS[®] Standard (b/w) scanner was used in the ADA study. Internal tests show equal or increased accuracy in the later generation 3Shape TRIOS[®] 3 scanner. Data on file.

3Shape TRIOS®* delivers high accuracy

Documented in several comparative university studies¹⁻⁴

3Shape TRIOS®* identified as the most accurate intraoral scanner for single crown (in vitro), with statistically significant differences between 3Shape TRIOS®* and Sirona CEREC Omnicam and Planmeca PlanScan®.

¹ Hack and Patzelt, 2015 Issues of the ADA Professional Product Review, Volume 10 Issue 4, September 25, 2015, American Dental Association, University of Freiburg, Baltimore College of Dental Surgery

3Shape TRIOS®* identified as one of the most accurate intraoral scanners for quadrant digital impressions (in vivo), with statistically significant differences between 3Shape TRIOS®* and 3M™ Lava™ C.O.S., iTero® and Sirona CEREC Omnicam.

² Ender et al, Clin Oral Investig. Nov 7 2015 E-pub, University of Zurich

3Shape TRIOS®* identified as one of the most accurate intraoral scanners for complete-arch impressions (in vivo), with differences between 3Shape TRIOS®* and Sirona CEREC Bluecam, Sirona CEREC Omnicam, 3M™ Lava™ C.O.S., 3M™ True Definition and iTero®.

³ Ender et al, J Prosthet Dent. Nov 6 2015 E-pub, University of Zurich

3Shape TRIOS®* identified as a more accurate intraoral scanner than Sirona CEREC Omnicam for single tooth restorations (in vivo). Statistically significant differences were found between 3Shape TRIOS®* and Sirona CEREC Omnicam.

⁴ Boeddinghaus et al, Clin Oral Investig, 2015, University of Giessen



“I’m not getting my margins from a stone model, I’m getting my margins from what I find is the more accurate data, from a TRIOS® scan”

Dr. Alan Jurim
DDS, New York



“The TRIOS® accuracy is unparalleled and I could not practice dentistry to the same caliber without it”

Dr. Ramsey A. Amin
D.D.S.

TRIOS[®] is a no-powder system

- Powder may reduce accuracy⁵
- Powder may add up to 100 μm unwanted material⁶

Visual observations show the distribution of powder which may reduce accuracy⁶



Figure 2. Average coating thickness on crown preparation of first left maxillary premolar: visual observations.

⁵ Schaefer et al, J Dent, 2014

⁶ Dehurtevent et al, J Prosthet Dent 2015; 113:17-21

What high accuracy means to you and your patients

- Better fit and clinical result
- Save time and resources with accurate first scans
- Improved patient experience with fast scanning in real color



References

1. Hack GD, Patzelt SBM. Evaluation of the Accuracy of Six Intraoral Scanning Devices: An in-vitro Investigation. ADA Professional Product Review, a publication of the Council on Scientific Affairs, 2015, 10(4):1-5
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3. Ender A, Zimmermann M, Attin T, Mehl A. In vivo precision of conventional and digital methods of obtaining complete-arch dental impressions. J Prosthet Dent. 2015 Nov 6 (Epub ahead of print)
4. Boeddinghaus M, Breloer ES, Rehmann P, Wöstmann B. Accuracy of single-tooth restorations based on intraoral digital and conventional impressions in patients. Clin Oral Investig 2015 Feb 20
5. Schaefer O, Decker M, Wittstock Kuepper H, Guentsch A. Impact of digital impression techniques on the adaption of ceramic partial crowns in vitro. J Dent 2014 Jun Epub 2014 Feb 6
6. Dehurtevent M, Robberrecht L, Béhin P. Influence of dentist experience with scan spray systems used in direct CAD/CAM impressions. J Prosthet Dent 2015; 113:17-21