

HDM technology for CAD/CAM dentistry

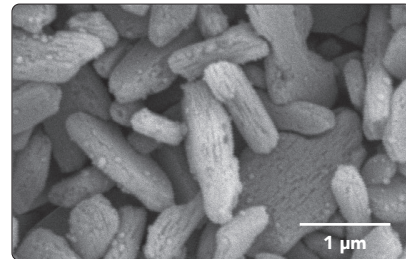


In 2016, with Initial LiSi Press, GC introduced HDM (High Density Micro-nization) technology, which uses equally dispersed lithium disilicate micro-crystals to fill the entire glass matrix rather than using traditional larger size crystals. The clinical effectiveness of this technology has been proven after 5 years of clinical service¹⁾.

To bring fast solutions for one appointment dentistry, GC has further developed HDM technology for CAD/

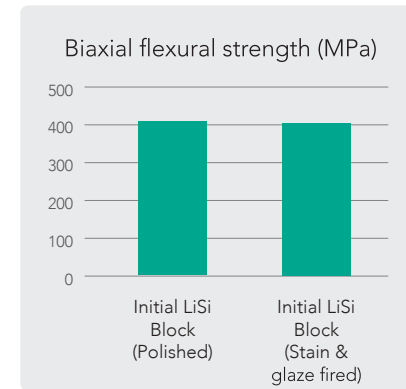
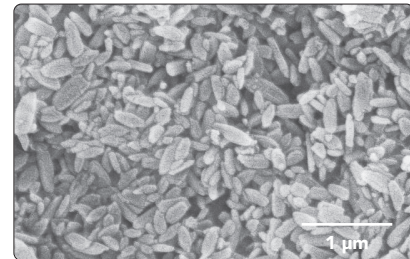
CAM dentistry by optimizing the crystal size and glass matrix stiffness. Thanks to this new technology, good machinability, marginal integrity, polishability, and wear resistance are achieved at the same time. The result is a strong and easy-to-mill block that offers the same strength with or without firing.

Conventional lithium disilicate
(IPS e.max CAD)



Source: GC R&D, Japan, Data on file

HDM technology for CAD/CAM
(Initial LiSi Block)



Source: GC R&D, Japan, Data on file

Improved glass matrix stiffness
for high mechanical strength

Smaller crystal for easy milling
and high wear resistance

Workflow

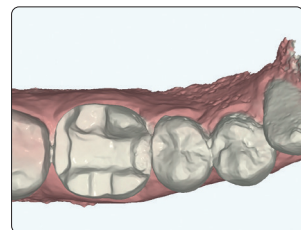
(Courtesy of Prof. Matteo Basso, Italy)



Prepare



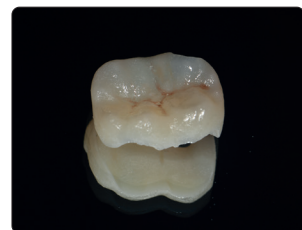
Scan



Design



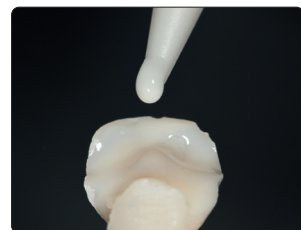
Mill



Polish or characterize



Condition



Cement



Final result

initial[™] LiSi Block

Ordering information



Ref.

0139F2270010
0139F2270020
0139F2270030
10037291
0139F2270040
0139F2270050
0139F2270060
0139F2270070
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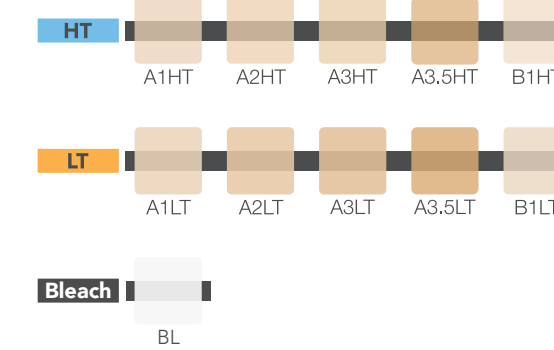
Shade

A1 HT
A2 HT
A3 HT
A3.5 HT
B1 HT
A1 LT
A2 LT
A3 LT
A3.5 LT
B1 LT
BL

Initial LiSi Block
CEREC mandrel, size 14



Shade range



1) Cagidiaco EF, Sorrentino R, Pontoriero D, Ferrari M. 2020. A randomized controlled clinical trial on two types of lithium disilicate partial crowns. Am J Dent. 33(6):291-295.

Related products



G-Multi PRIMER
Universal Primer



G-CEM ONE
Self-adhesive
resin cement



Initial IQ
Lustre Pastes ONE
3-dimensional
paintable ceramic

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Fully Crystallized Lithium Disilicate

Natural beauty restored in one appointment

