# **BOSTON BRACE 3D FAQ**

## HOW IS THE BOSTON BRACE 3D DIFFERENT FROM THE BOSTON BRACE ORGINAL?

The Boston Brace 3D is made from a scan of the patient. Rather than being fabricated over a symmetrical model, it is fabricated over an asymmetrical model. Specific coronal shifts and

#### WHAT ARE THE PRIMARY BENEFITS?

The Boston Brace 3D is more aggressive in the transverse plane. By incorporating a selective more shift/push pressure – we are not flattening their abdomen nor are we adjusting their sagittal profile. In addition, the corrective forces are created in conjunction with open/void areas that allow for

### WHO SHOULD WEAR THE BOSTON BRACE 3D?

include as aggressive a push, so the custom fabricated symmetrical Boston Brace patterns, we recommend the Boston Brace 3D.

## IS THE BOSTON BRACE 3D MORE COMFORTABLE?

in all our braces so we can objectively review the hours of brace wear. Our data shows that the majority of our patients are able to wear the brace as prescribed. Having a team in place to offer support patients wear the Boston Brace 3D and achieve

# The Boston Brace 3D

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## HOW THE BOSTON 3D WORKS

Scoliosis is a tri-planar deformity, and the Boston Brace 3D orthosis works to correct the spine in all three planes—coronal, sagittal and transverse.

The Boston Brace 3D features an improved brace design with a unique shift/push combination of corrective forces that create a unique force coupler to improve correction. An enhanced anterior lateral relief is added to provide additional room for de-rotation and breathing mechanics.



## THE USE OF CAD/CAM

To ensure maximal curve correction, the Boston Brace 3D is custom designed for each individual patient. Shape capturing technology (scans) and precise measurements of the patient are obtained to create a three dimensional CAD/CAM model. Systematic analysis of the x-ray is performed to optimize the corrective forces (push/shift) creating an asymmetrical shape, while optimizing sagittal plane balance. The corrective forces are created in conjunction with open/void areas that allow for easier breathing mechanics.



## **BOSTON BRACE 3D OUTCOMES**

Patient outcomes are very important to us at Boston Orthotics & Prosthetics. Initial in-brace x-rays (x-rays with the brace on) show that most patients achieve greater than 50% correction of the primary curve when wearing the Boston Brace 3D.

# AVERAGE CURVE REDUCTION: BOSTON BRACE 3D VS. BOSTON BRACE CUSTOM

NGI		

Thoraci	c	Thoracolumbar		
3D	Custom	3D	Custom	
57%	52%	64%	55%	

#### DOUBLE CURVE

Primary	/ curve	Secondary curve		
3D	Custom	3D	Custom	
51%	47%	58%	45%	

The combination of in-brace curve reduction and adherence to the prescribed wear schedule has been shown in multiple studies to reduce the risk of curve progression. To aid in brace wear adherence, all Boston

Brace 3D braces are equipped with the iButton thermal sensor.