



**CertainTeed**  
Consulting & Laboratory

*Certain Quality. Guaranteed Results.*

**3D PRINTED**

**CoCr Crowns & Bridges**

[www.certainteedconsultingandlab.com](http://www.certainteedconsultingandlab.com) | 219-393-8661

# 3D Printed CoCr Crowns & Bridges

**01.**

**Highly accurate**

Accurate fit with accuracy error of less than 0.02mm.



**02.**

**Great bond strength**

Outstanding bond strength exceeding 37MPa, ensuring a robust connection with your dental work.

**03.**

**Minimal ion release & good biocompatibility**

Minimized metal ion release, with levels consistently below 0.8ug/cm, realizing highest level of biocompatibility and patient safety.



# ADVANTAGES of Metal 3D Printing Compared to Traditional Casting

## 01.

### **Doubled Design Efficiency:**

Metal printing improves design efficiency, enabling an average of 100 dental crowns to be designed by a single person in just 8 hours, doubling productivity.

## 02.

### **Faster Production:**

Metal 3D printing and post-processing treatments, such as annealing, allow for the production of 100 dental crowns in just 7 hours. This is achieved without the need for complex and time-consuming steps like re-molding, embedding, wax loss, or casting.

## 03.

### **Enhanced Polishing Efficiency:**

Metal 3D printing technology enhances polishing efficiency. On average, a single person can polish 70 dental crowns in 8 hours, which is 50% improvement in productivity.

## 04.

### **Superior Quality Control:**

The quality control achieved through metal 3D printing is exceptional, with a 99.9% yield rate of defect-free products. Dental crowns produced through this method exhibit a flawless surface with no air bubbles or sand inclusions. They remain structurally stable with no deformation, and there are no casting defects or missing components.

