

## TE-C3X Drill Bit



**Company:** Hilti AG

**Application Sector:** Construction

**Requirements:** The customer was seeking measurably improved performance (robustness, speed and lifetime) of the previous TE-C3X bit .

**Benefits:** The TE-C3X is the world's first truly mass produced, bulk, functionally graded hardmetal part. It uses separation of functions within a single component - drilling and joining - by spatial variation of properties in a single, axially pressed and liquid phase sintered hardmetal component. This newly developed PM technology is now being applied to other components that require locally adapted properties, such as cutting and wear parts.

**Relative Density:** >99.99%

**Product Hardness:** 1250 to 1450 (HV10)

**Final Weight:** 1- 30 g

**Finishing:** Galvanic coating of cobalt

