

Download Do Flatness With A Cmm

Relation to Other Symbols: Flatness is the 3D version of surface straightness – Instead of the tolerance zone between two lines; the tolerance zone exists between two planes. When Used: When you want to constrain the amount of waviness or variation in a surface without tightening the dimensional tolerance of said surface. The ANSI Y14.5M-1982 standard for geometric dimensioning and tolerancing has been superseded by ASME Y14.5M-1994 although some people refer to the standard as ANSI/ASME Y14.5M-1994. According to ASME.org a consensus committee of experts has revised Y14.5 for 21st-century applications which is now called ASME Y14.5-2009. The orientation of a LS plane may not be the same orientation of the plane used to evaluate flatness (2 different requirements geometrically). As bfire85 suggested, use the flatness dimension. Advanced Dimensional Solutions (ADS) are the leaders in 3D Laser Tracker Services, ADS – Advanced Dimensional Solutions provides 3D Dimensional Measurement Alignment and Inspection Services to Industry