



# Comparison Study of T-spline and NURBS in Modeling and Machining: Using CNC Milling Machine

*Mohanad Musadaq*

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This book uses T-spline for surface modeling and compares it with NURBS modeling to get the best modeling points between the two methods. The comparison will be through surface analysis and manufacturing process. T-Splines surfaces typically have 50-70% less geometric data structure than the equivalent NURBS surface, allowing for faster and more controlled direct editing and shape optimization. In Naked Edges analysis, the T-Spline surface for the models has a number of naked edge less than the NURBS surface, in measurement runtime for machining (roughing and finishing), the T-spline surface for the bicycle seat model is machined in (16 minutes) less than machining the NURBS surface, and the T-Spline surface of the longitudinal section of the bottle model is machined in (10 minutes) less than machining the NURBS surface. In measurement of roughness, the T-Spline surface for the bicycle seat model has (2.4861  $\mu\text{m}$ ) average (Ra) for patches measured roughness average (Ra), and the NURBS surface has (4.9216  $\mu\text{m}$ ) average (Ra) for patches measured roughness average (Ra).

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