



Instant quoting based on artificial intelligence

The option of getting an instant quote is one of Xometry's unique selling points. Our Instant Quoting PlatformSM learns automatically and thus becomes smarter over time. To pave the way for this, a team of data experts uses the latest machine learning technologies based on neural networks. Our sourcing and pricing algorithms are trained on one of the largest datasets of custom manufacturing orders ever collected. Up to now, we have allocated orders to more than 5,000 manufacturing partners in our network worldwide.

The Instant Quoting PlatformSM uses computer-assisted geometry algorithms to analyse the uploaded 3D CAD files, accurately assess the complexity of the parts, and provide instant design-for-manufacturability feedback. During this process, the algorithms mimic the way an experienced mechanical engineer would analyse and understand the design of a part. The algorithms are based on ongoing collaboration between experienced mechanical engineers and a computational geometry team. This team breaks down knowledge into its mathematical essence for maximum speed, efficiency, and accuracy. Our data science and computational geometry team includes experts in mechanical engineering, chemical engineering, mathematics, computer science, and physics.