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AI-Assisted Quote Workflow

MANUFACTURING & OPS

THE PROBLEM

Manufacturing teams lose time turning customer drawings into quotes. The work spans document review, routing decisions, shop-rate assumptions, and a final approval before anything can be sent.

WHAT WAS BUILT

- **Reads a customer** drawing and organizes important part details into a reviewable quote workspace
- **Builds routing and** quote inputs from the shop's actual machines, labor, and material rates
- **Lets the team** adjust assumptions, see the quote update, and move a ready-to-send response forward

CONTEXT & PROBLEM

A customer drawing starts a chain of manual work: identify material and features, interpret the finish, and translate the print into manufacturing operations.

The quote depends on shop-specific inputs. Machine rates, material rates, routing time, setup, overhead, and margin need to stay visible and adjustable by the team that owns the outcome.

The final handoff is commercial, not just technical. The operator needs a clear quote workspace where the request can be reviewed, approved, and sent.

AI SOLUTION

AI-assisted extraction turns the drawing into structured material, dimension, feature, and finish details with the source drawing kept in view.

A manufacturing plan lays out operations, machines, and cycle times, then feeds a quote built from the shop's own rate structure.

The operator stays in control: changing a machine or rate updates the quote before the response is approved and sent.

VALUE AT STAKE

More customer requests can move through the same quote workspace without adding another disconnected tool.

The sales conversation starts from a reviewable, shop-specific quote instead of a black-box number.

AI-assisted products can help manufacturing teams drive more sales while keeping commercial judgment with the team.

Full video walkthrough available at deepvelocity.ai/ai-assisted-quote-workflow