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Why use Multiaxis?

1. Combine Setup
2. Improve Part
3. Geometry Requirements

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Combine Setup

Would it be easier to machine this part in multiple setups?

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Improve Part

Will using multiaxis improve part cycle time or overall finish?

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Geometry Requirements

Does any part of this part REQUIRE
multiaxis?

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Setup Requirements

Stock - What stock are we using for this part?

Holding - How are we going to fixture this part?

Tooling - What tools does the part require?





Programming Consideration

Part Design

Part Setup

Stock setup

Toolpathing

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Part Design

Not normally an issue with multiaxis parts

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Part Setup

Just as important in software as on the actual machine

- Consider machine offsets
- Establish part orientation and axis alignment

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Setup Stock

- Programming aid
- Are we machining from blank stock, a part that has be machined in a previous operation or a casting?





Toolpathing

Decide how to “approach” the part. Do you want to start programming the roughing or finishing first, from top to bottom or left to right?





All that is the easy part, now let's
program!

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