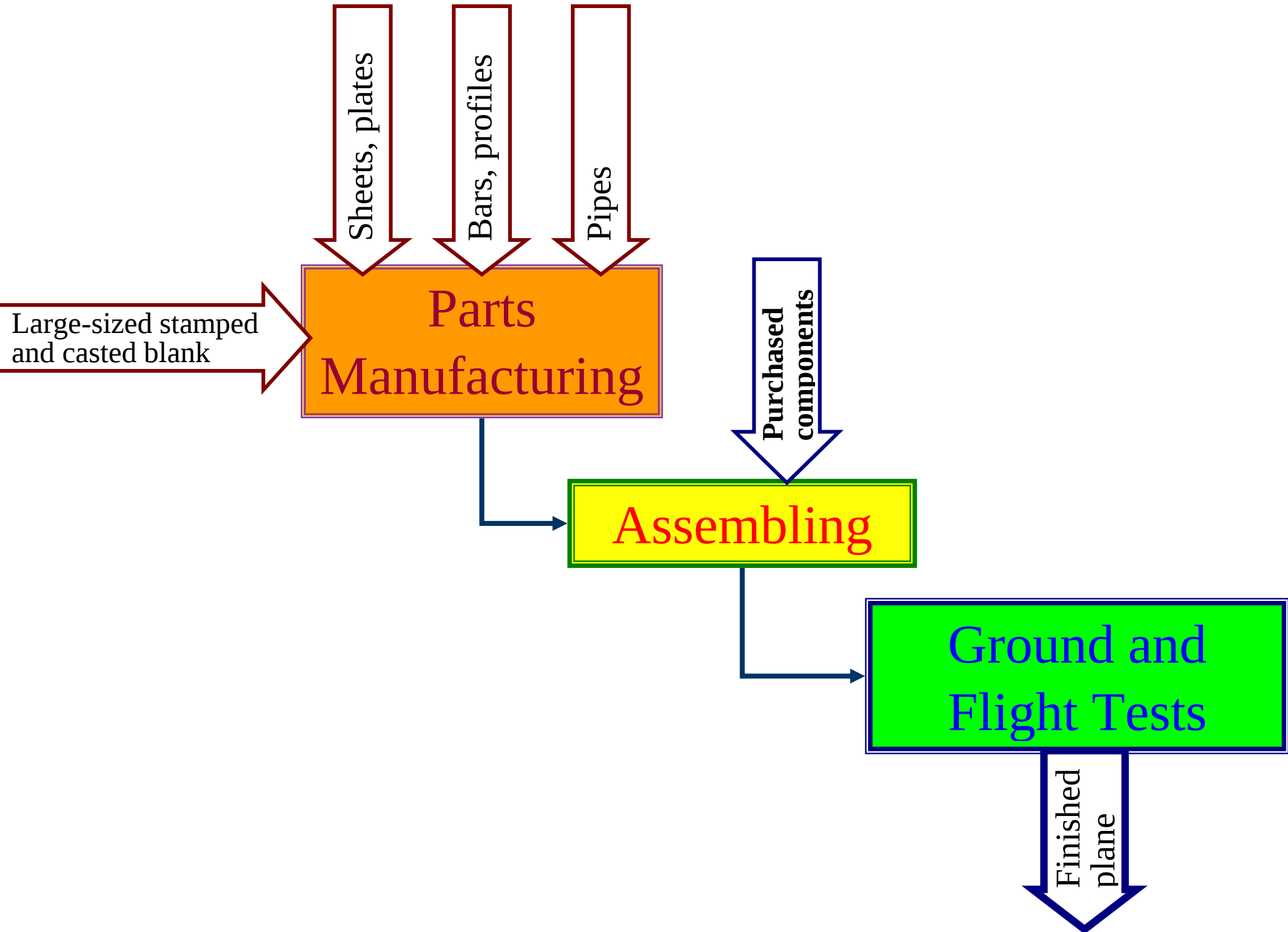


Department 104

Aircraft

Manufacturing

Technologies





Parts Manufacturing

Casting

Forging

Sheet Metal Stamping

Machining

Protective Coating

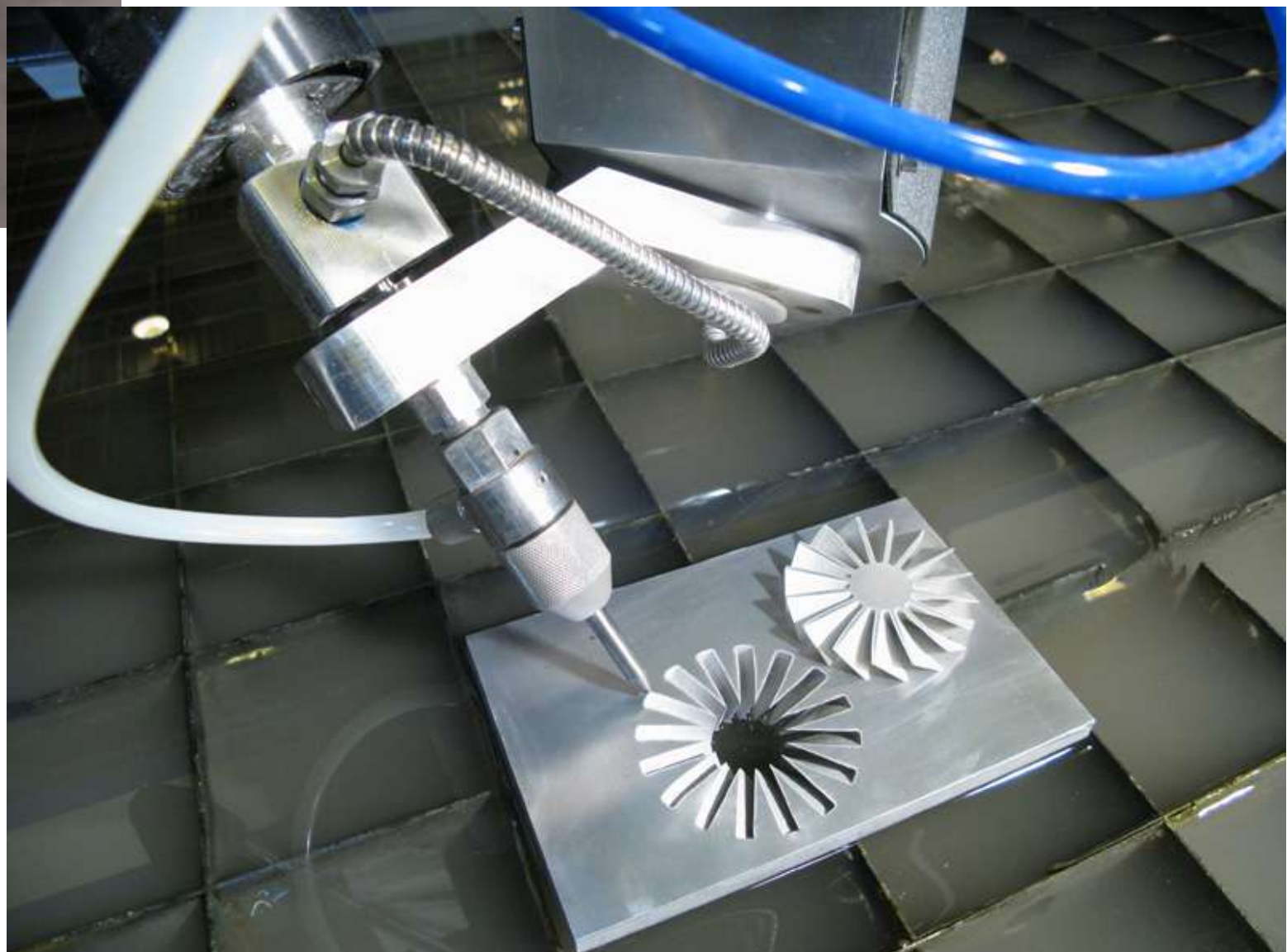
Heat Treatment



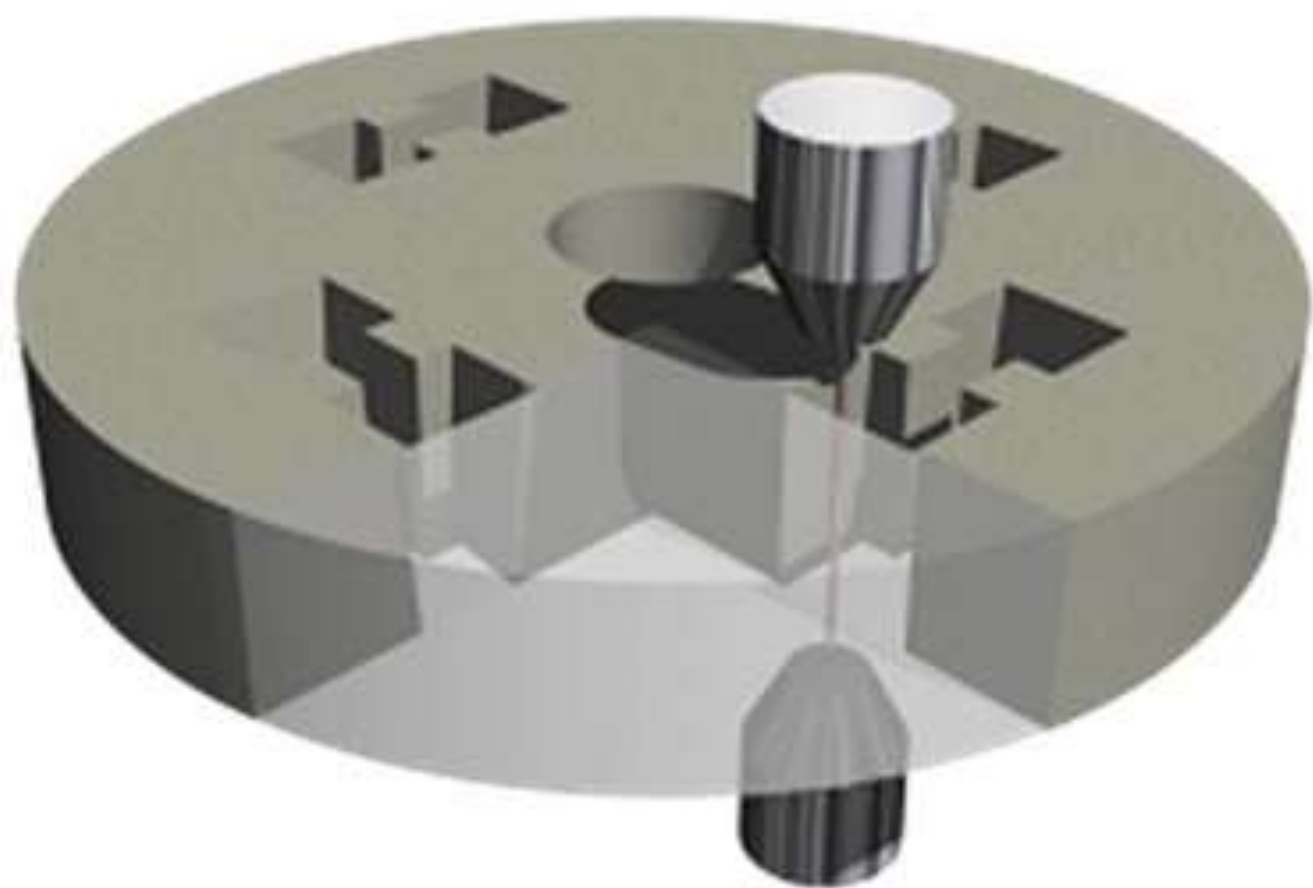
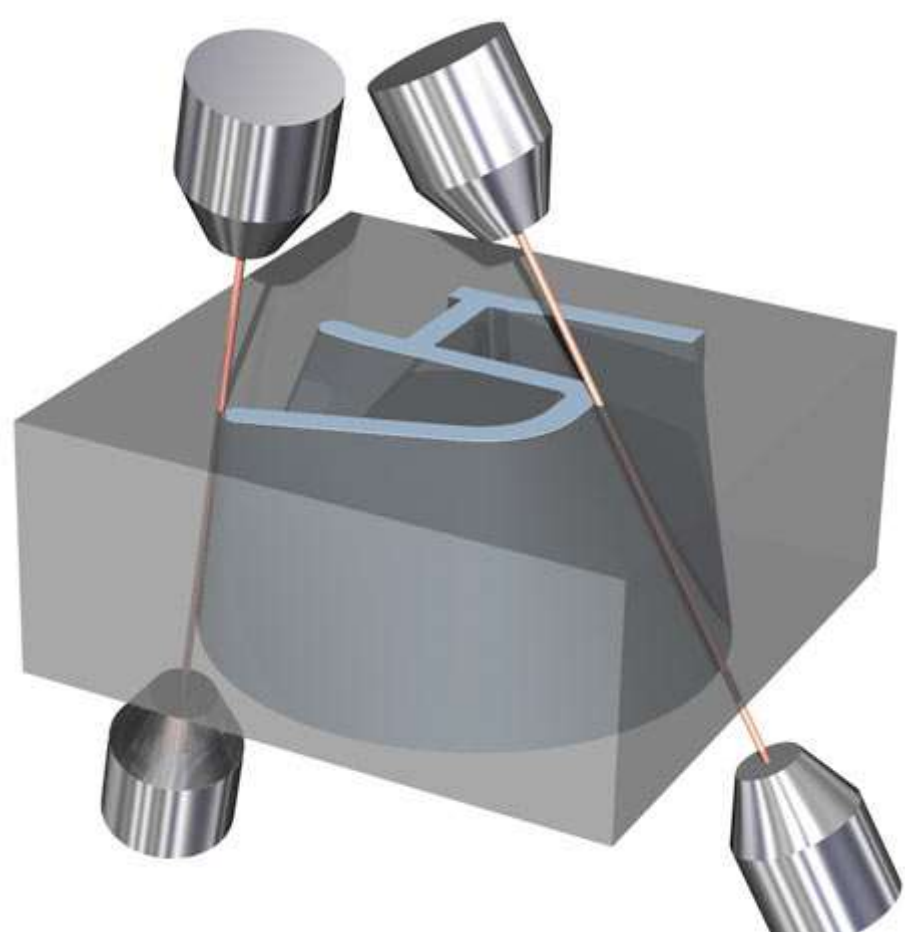


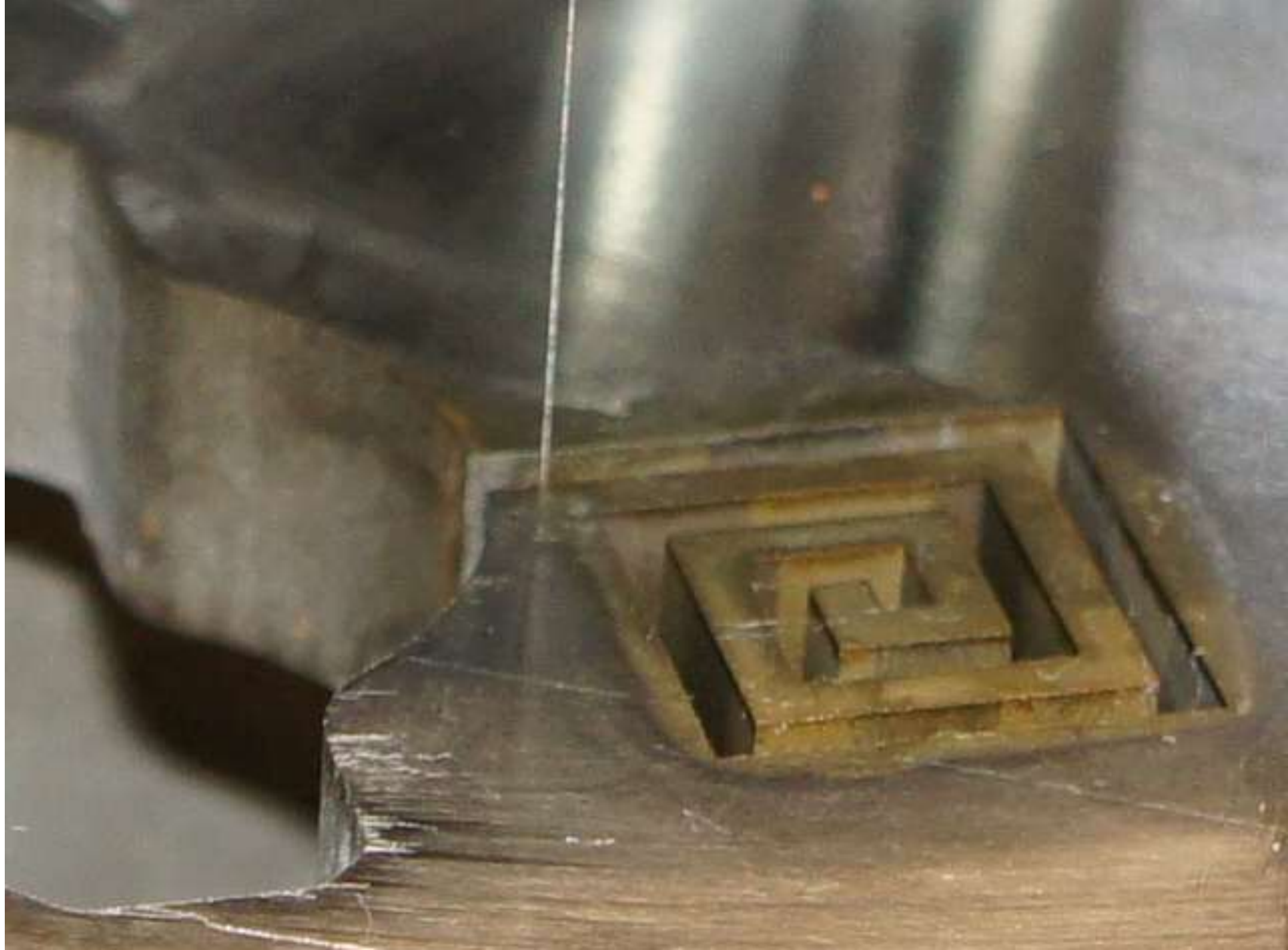


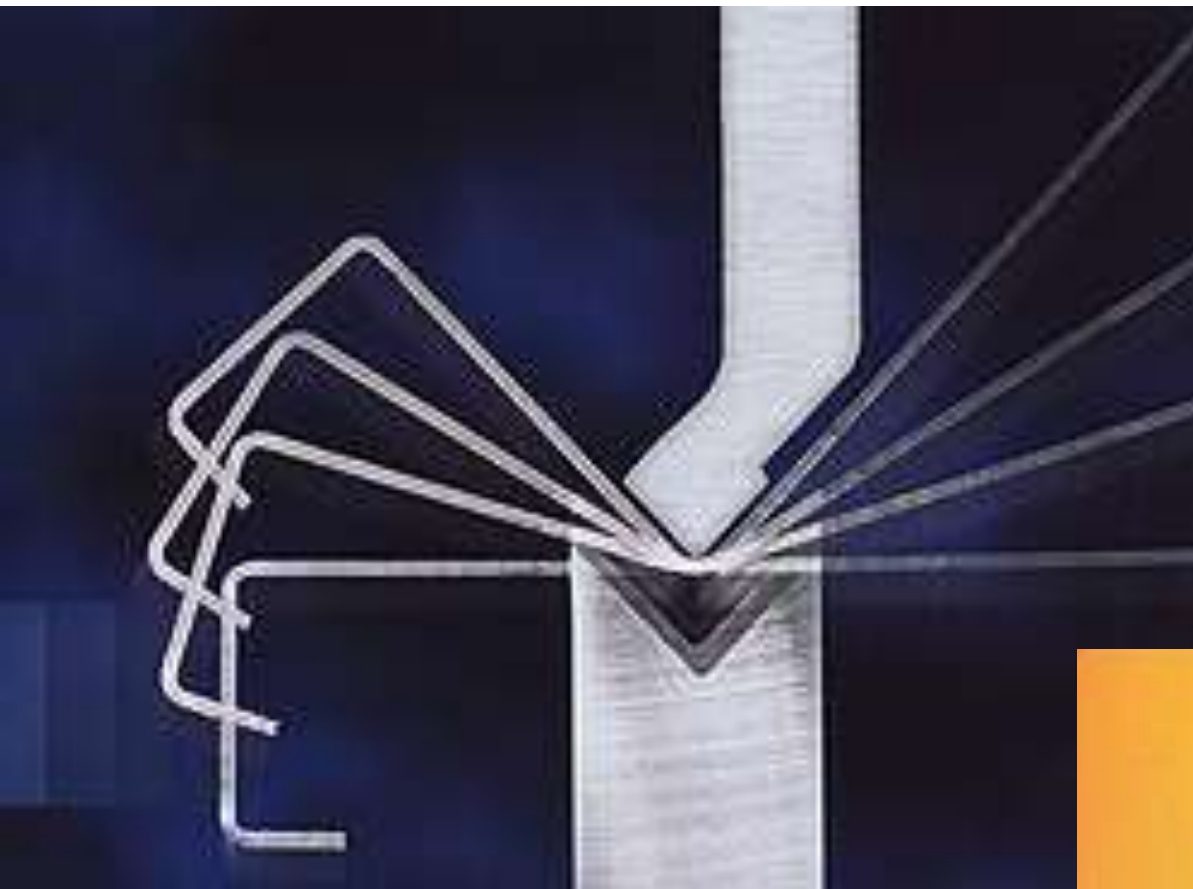












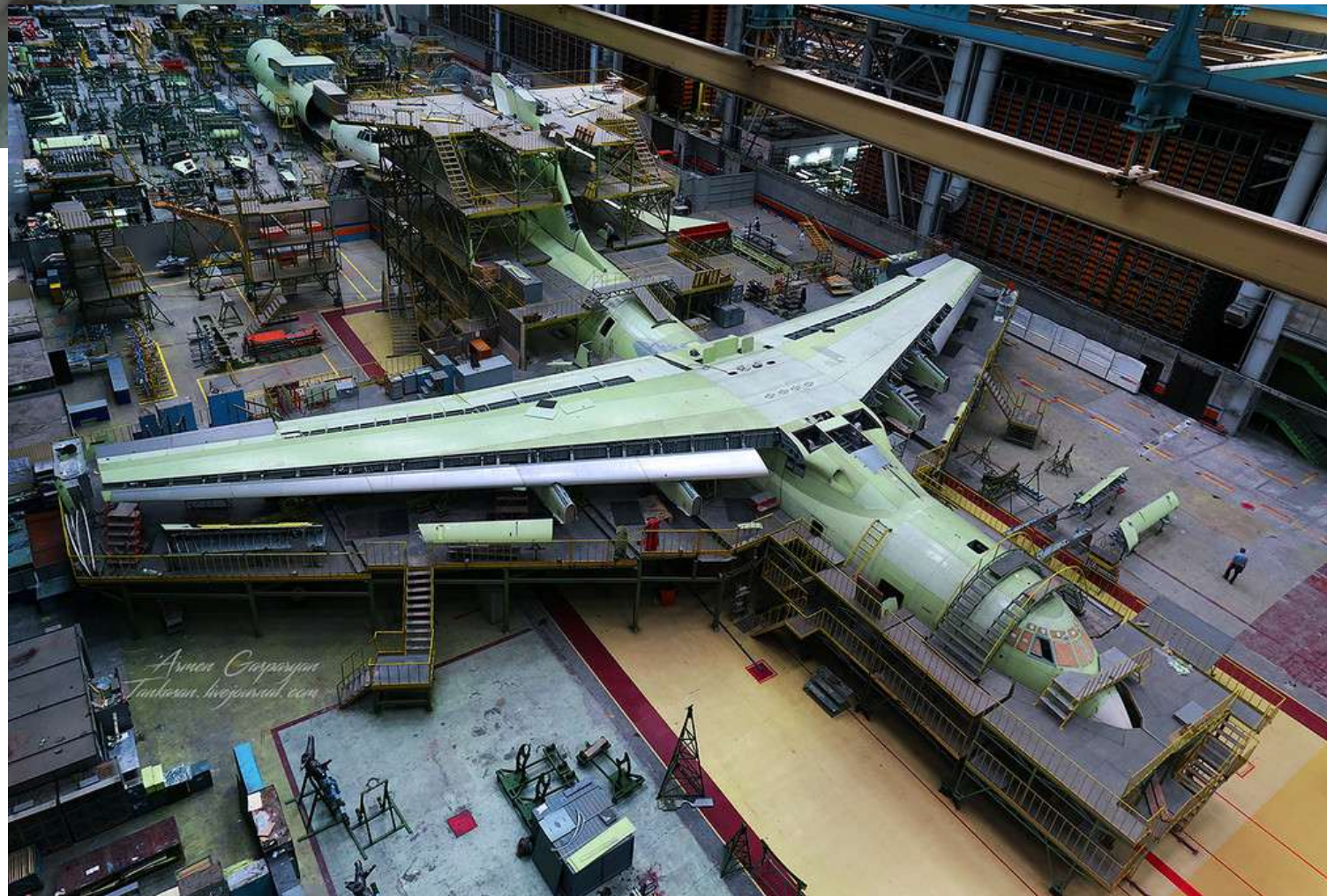
<https://ru.wikipedia.org/wiki/%D0%A8%D1%82%D0%B0%D0%BC%D0%6>

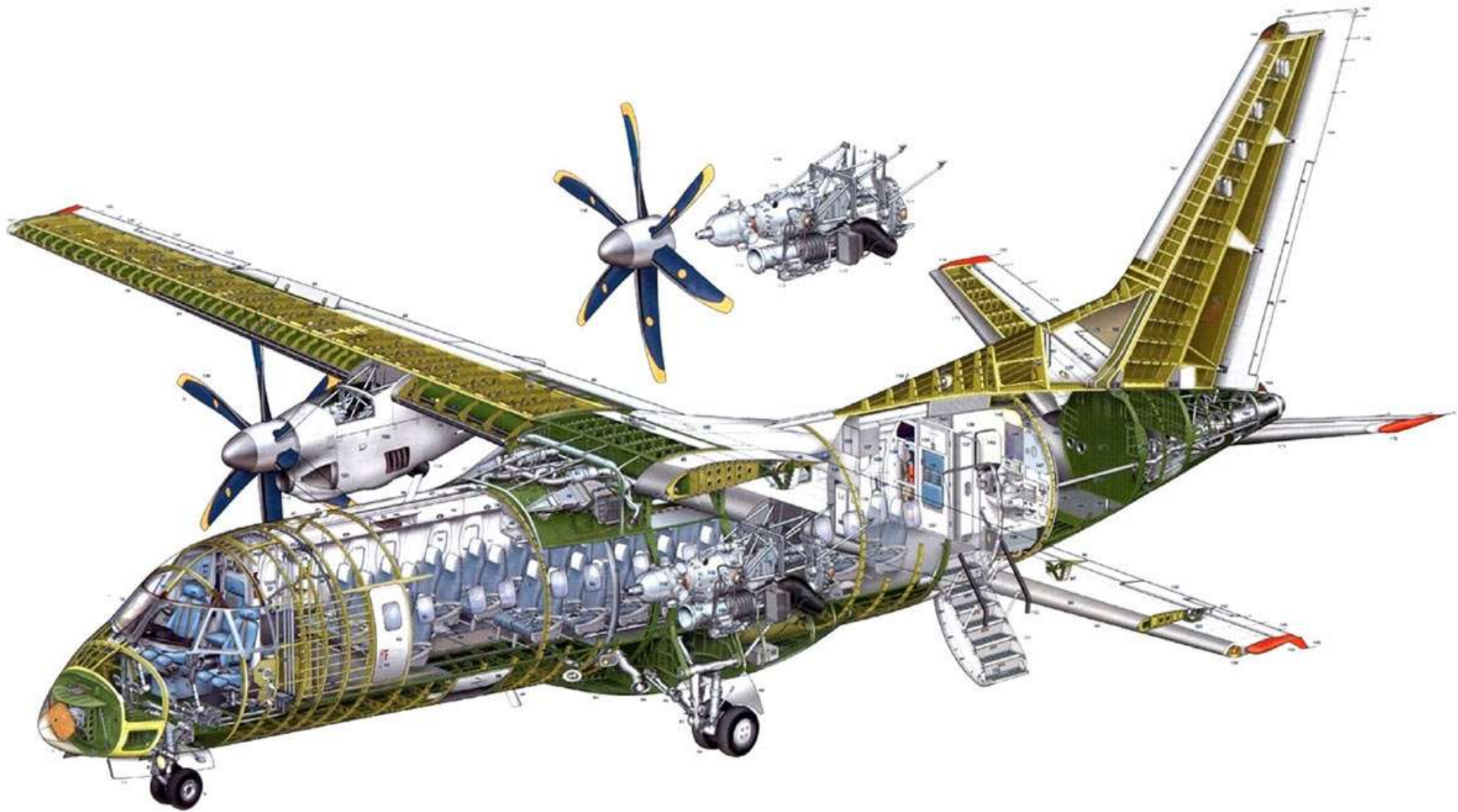




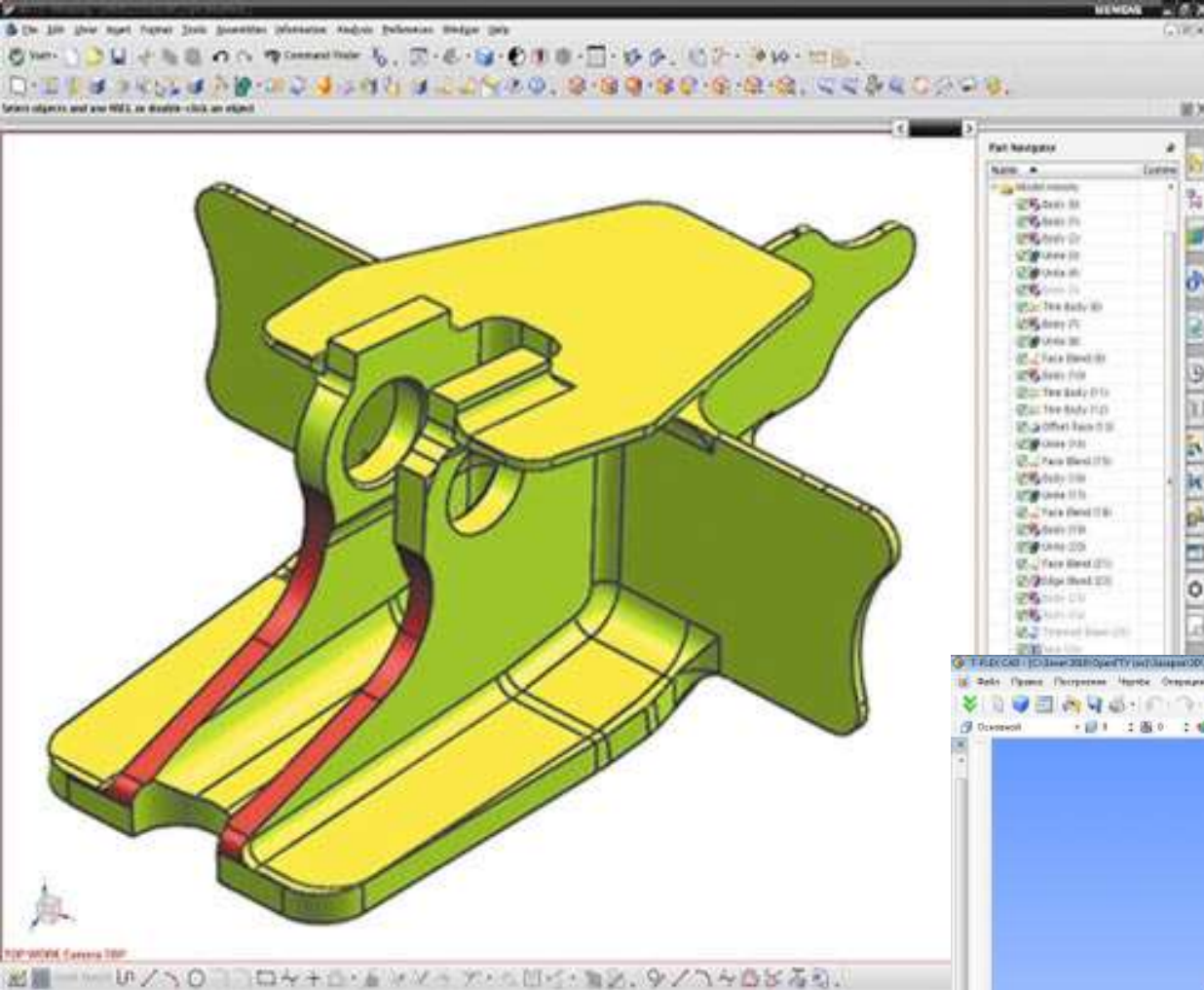
Assembling

Final Assembling



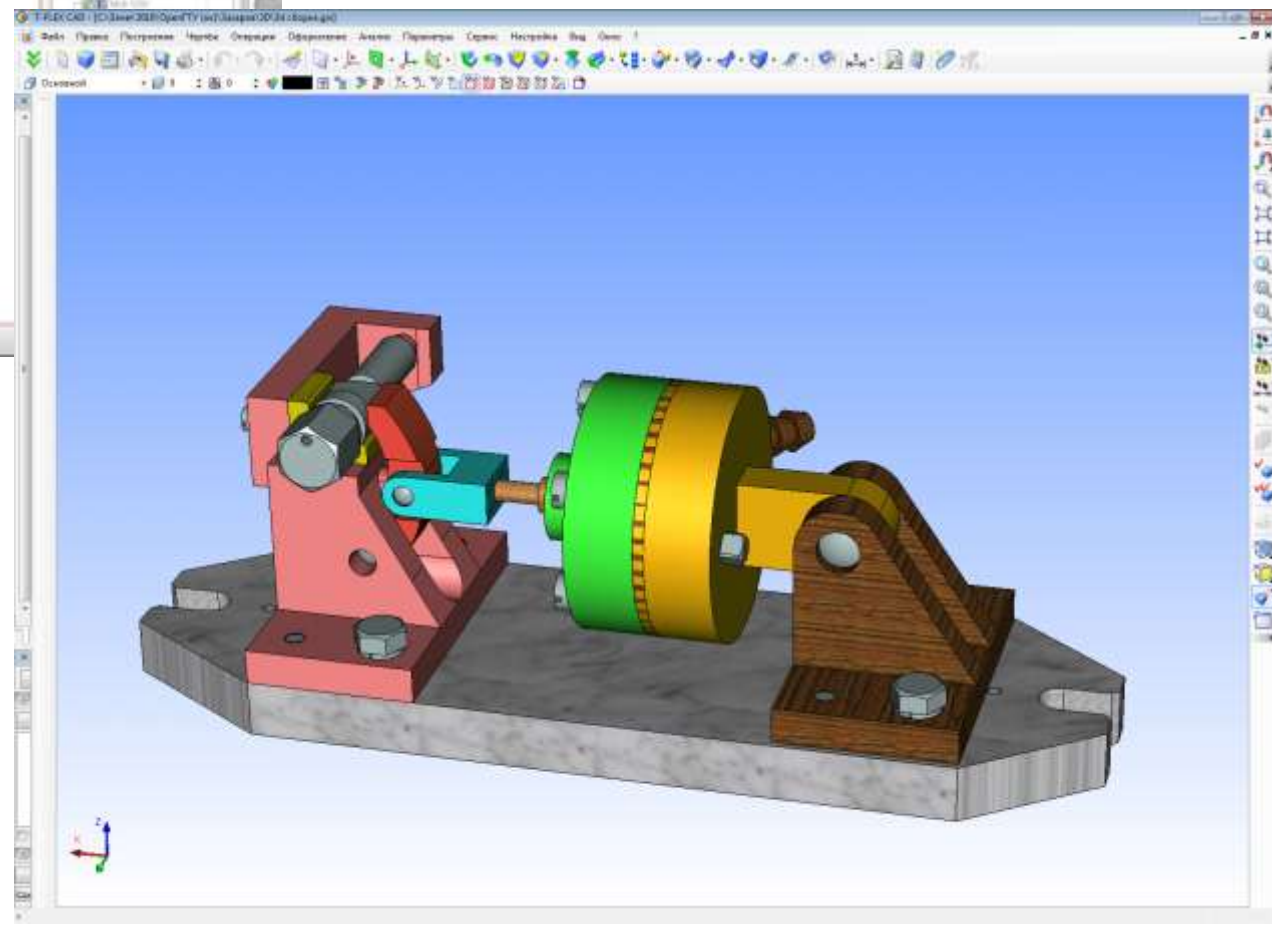


**Computer aided design (CAD)
of Airplane**



Computer aided manufacturing

Parts and Jigs Preproduction



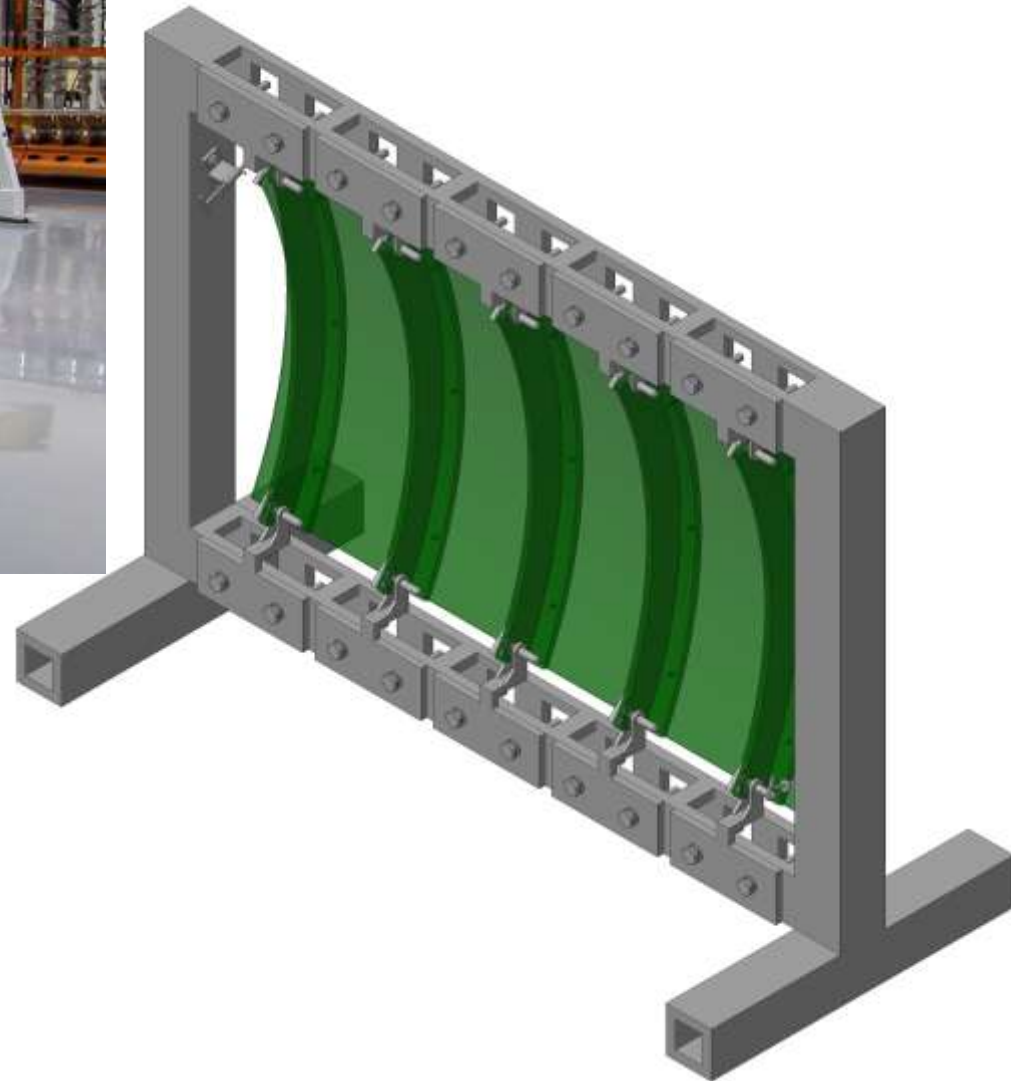


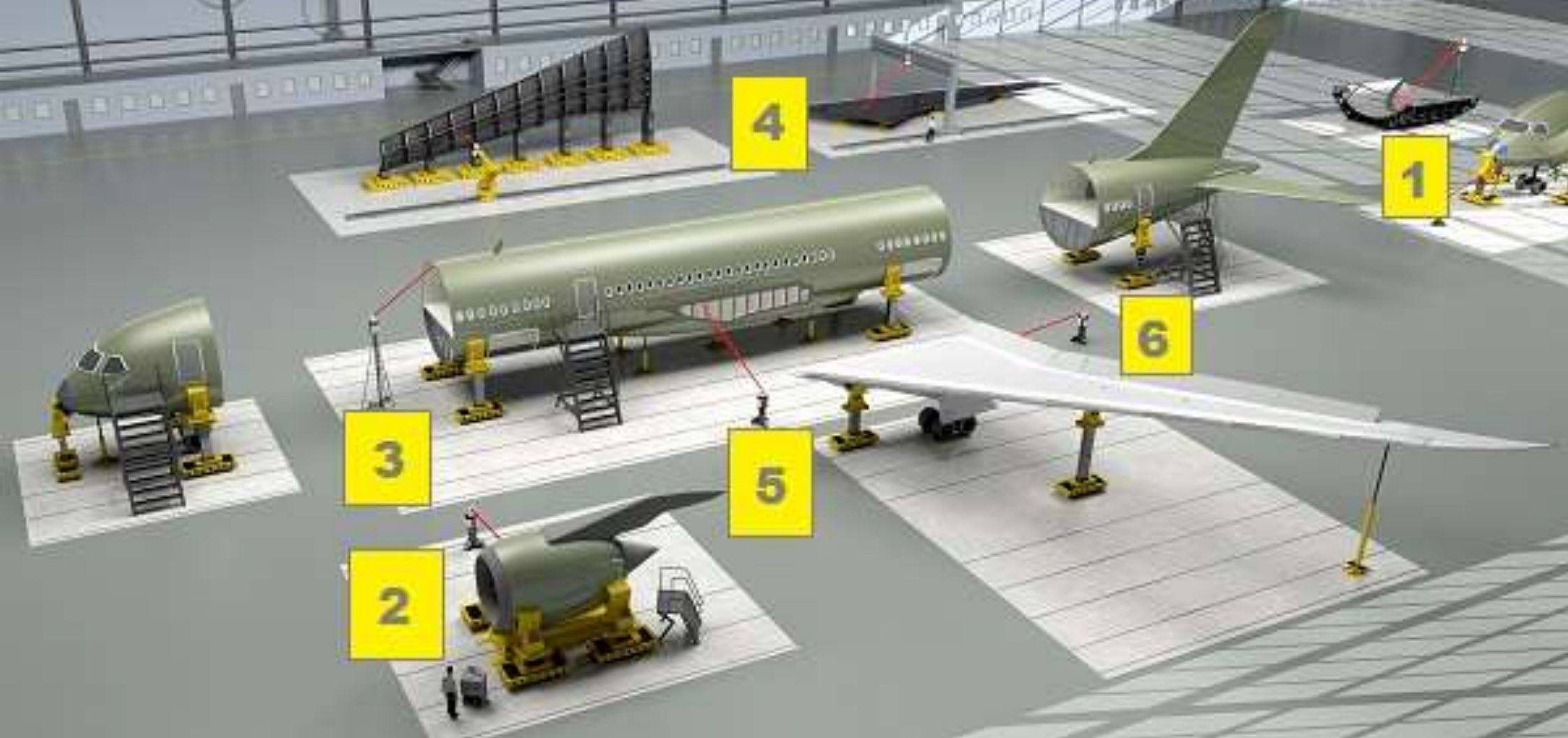
Preproduction of forging dies and stamps



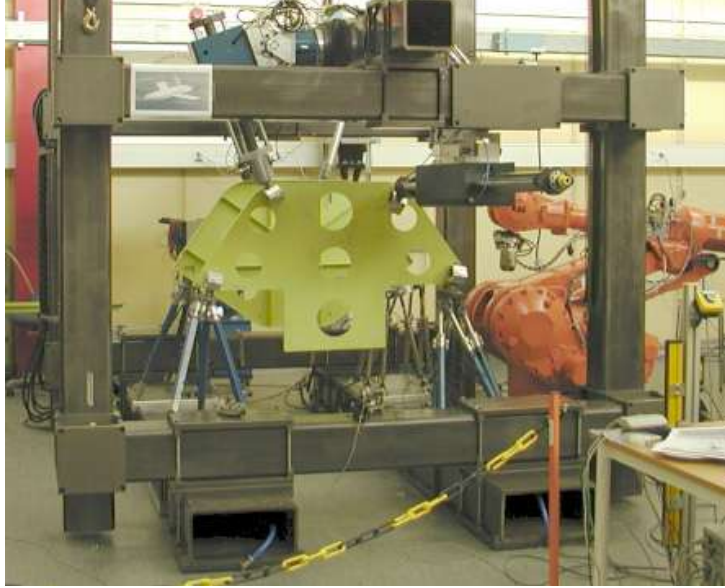


**Assembly Jigs
Preproduction...**





...and Final Assembly
Preproduction



Robotic Assembling and Jigs Preproduction

Technologies of the Aircraft Manufacturing and Repair

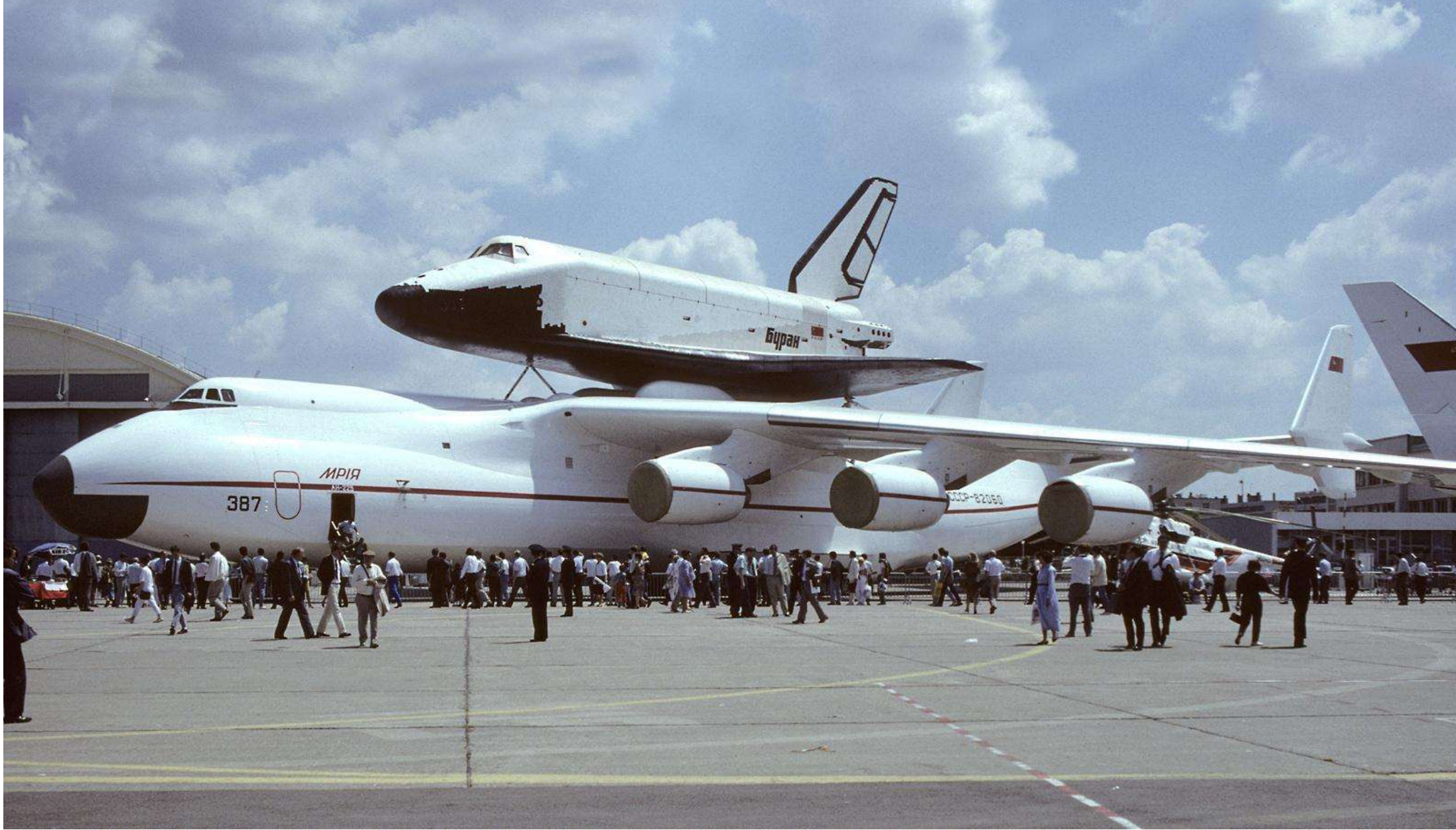
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How It's Made Aircraft Wings

https://www.youtube.com/watch?v=H_olh7qxCbQ

Aircraft Assembly / Airplane Assembling - Boeing

<https://www.youtube.com/watch?v=5CuJjSk4U38>

Sheet Metal Stamping Dies & Processes

<https://www.youtube.com/watch?v=BT7DrOZUHRc>

HYPNOTIC Video Inside || Crazy speed || Milling parts || CNC

<https://www.youtube.com/watch?v=8EsAxOnzEms>

Turning & the Lathe

<https://www.youtube.com/watch?v=XTU0Z-FkhtU>

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How it's made - Metal casting

<https://www.youtube.com/watch?v=-aEuAK8bsQg>

Inertia Friction Welding Demonstration - Manufacturing Technology, Inc.

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Robotic Friction Stir Welding Automation - Courtesy of CRIQ

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Additive Manufacturing - Direct Metal Laser Sintering DMLS Technology

<https://www.youtube.com/watch?v=Atb1ImfWvhQ>

Large Part Inspection with FARO Laser Tracker Vantage

<https://www.youtube.com/watch?v=3jfl7zVImCo>

Non-contact, automated Nikon Laser Radar for aerospace applications

<https://www.youtube.com/watch?v=ovyQcHwtN0o>

JILAS - Jig Less Airplane Assembly - Multimedia Report

<https://www.youtube.com/watch?v=4XRudJlx-oE>

KUKA Aerospace - Assembly of complex aircraft structures