

Aerospace Jigs & Form Block Tooling

CAPABILITY SHEET · +/-0.08 MM · LASER-TRACKER CERTIFIED · ENGINEERED TO ORDER

THE TOOLING

WHAT

THE CORE IDEA

The tooling is held tighter than the parts it makes - interchangeability locations to +/-0.08 mm, counter templates to +/-0.20 mm - because a jig's job is to transfer the drawing's authority to the shop floor.

STATUS

Engineered to order. Quoted against repeated Indian aerospace production-tooling requirements - including seven tenders covering 592 form-block and trim-jig types in eight days - and no delivered jig package is claimed.

HOW IT IS BUILT

THE BUILD ORDER

Weld first, thermally stress-relieve, only then machine and jig-bore - steel still carrying welding stress moves after machining. Weld and dimensional inspection are offered BEFORE stress relief; SR certificates travel with the tooling.

STRUCTURE

Fabricated steel frames on levelling feet; removable locators as mild-steel weldments, relieved, machined and jig-bored; standard elements - rails, bushes, pins, dowels - from approved commercial ranges. Nothing else is bought in: a jig is steel, welding, machining and metrology end to end.

DESIGN INPUTS

Customer 3D models in NX / CATIA / STP with technical inputs; tool design in the builder's scope through staged design reviews; secondary tooling included.

CERTIFIED, THEN PROVEN

CERTIFICATION

Set and certified by calibrated laser tracker against engraved target points and bushed reference blocks built into the structure. Calibration certificates from accredited labs cover the tracker, CMMs, gauges - and the stress-relieving furnace itself.

RE-CERTIFIABLE FOR LIFE

Targets are engraved deep enough to survive repainting and the reference blocks are permanent, so the jig can be re-certified in place years later - after a repair, a move, or on schedule - against the references it was born with.

PROVING

First-article proving at the customer's works, with rework and adjustment during proving in the builder's scope at no additional cost; acceptance by the customer's inspection and airworthiness QA; 12-month warranty from taking over.

PACKAGES & ENGAGEMENT

PACKAGES

Form-block and trim-jig packages by the tens to hundreds of types; chemical-milling template and counter-template sets; main and sub-assembly jig packages by aircraft section; gauges, fixtures and re-certification of existing tooling.

DELIVERY

Quoted and delivered on a package basis - each main jig with its sub-assembly jigs - on schedules of roughly 2.5 to 7.5 months per package, installed and erected at the customer's works.

ENGAGEMENT

Send the tool list and part CAD to sales@neometrixgroup.com - compliance matrix within two working days.

DEFENCE PROGRAMMES DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com

Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India