

AFV Actuator Indigenisation

CAPABILITY SHEET · T-72 ACTUATING CYLINDER · ENGINEERED TO ORDER - INDIGENISED TO CUSTOMER DRAWING

THE ENGAGEMENT

WHAT	Indigenisation and manufacture of the electro-hydraulic actuating cylinder for the main equipment of the T-72 tank, against the customer's own drawing set and technical conditions.
STATUS	Engineered to order. The assembly has been decomposed and the manufacturing route established; manufacture, proof and inspection are undertaken against contract.
DESIGN OWNERSHIP	The drawing set and technical conditions are the customer's and stay with them. We supply manufacture, proof, inspection and a second source - not a design licence.

WHY IT IS HARD

NOT A PLAIN RAM	Two disciplines in one housing: a precision hydraulic body, and an electrical head carrying twin electromagnets that control piston braking. About 150 parts across two sub-assemblies.
THE MATERIALS	The hard part is not machining. It is mapping obsolete and foreign material, wire, insulation and finish specifications onto qualified equivalents - matching the property the original was chosen for, not the name.
THE COUNT	An electromagnet is not a component you order - it is a wound assembly of coil, armature, casing, pole piece and flux path, each with parts of its own. That is why ~150 is the honest number.

THE ROUTE

DECOMPOSE	The drawing set becomes a complete levelled bill of material: top assembly, both sub-assemblies, every unit, component, standard part and consumable beneath them.
MAKE BOTH HALVES	Precision machining and heat treatment with deep-freeze treatment where the drawing demands dimensional stability; coil winding, armature and pole-piece work in-house.
PROVE FIRST	Sub-assemblies are hydrostatically proof-tested BEFORE final build, to the pressures and hold times the customer's conditions define. A body that fails proof is a scrapped body, not a scrapped assembly.
ACCEPT	Final inspection against the customer's technical-conditions document, on the government quality-assurance route, with documentation and traceability per the case.

RECORD & ENGAGEMENT

THE RECORD	Prototype approval for a vehicle-based command post for the Indian Army; a commissioned container-based mobile control and test system for a gas-turbine research establishment; DGAQA inspection approval for oxygen equipment.
REGISTRATIONS	ISO 9001:2015. DGAQA registered. DRDO registered.
ENGAGEMENT	Send the drawing scope for your stranded assembly to sales@neometrixgroup.com - feasibility view within two working days. Work outside India is subject to GoI authorisation and the design owner's rights.

DEFENCE PROGRAMMES DESK

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