NEOMETRIX DEFENCE NMX-HPT-92

Fluid Power Training Workstation

CAPABILITY SHEET · SAFE TO GET WRONG · A BENCH WITH A COMPONENT PANEL, A SMALL LIMITED SUPPLY, SEL

THE ONE IDEA

PRINCIPLE	Safe to get wrong.
WHY IT MATTERS	A learner learns a circuit by building it, and by building it wrongly, so the workstation limits the pressure, seals itself when a hose is parted, and shows why a circuit failed.

THE WORKSTATION

BENCH	A mobile bench with a grid panel for the components, a work top and a cabinet, with a guard on moving parts and an emergency stop.
SUPPLY	A small hydraulic power unit with a relief valve the instructor sets and locks, and a pneumatic service unit, joined by self-sealing quick couplings.
COMPONENTS	Hydraulic and pneumatic component sets chosen to match the syllabus, and cut-section models that show the inside of a cylinder, a valve and a pump.
CONTROL	An electrical module with relays, timers and limit switches on safety sockets, and an optional programmable controller.
MANUAL	Exercises drawn in the graphical symbols of ISO 1219-1, each with its aim, its steps, its expected result and its questions.

THE METHOD

ORDER	Curriculum, layout, components, safety, build and prove. The layout and the proof are the two that a quick job skips.
LIMITS	Pressures, flows, sizes, group sizes and the number of stations come from the customer's course and room, and are not printed here.

CONFIGURATIONS

HYDRAULIC	A hydraulic supply and component set, with electrical control.
PNEUMATIC	An air service unit and component set, with relay and controller.
COMBINED	Both supplies on one bench, with a rack of cut-section models and a fault-finding module.

STANDARDS & SCOPE

STANDARDS	Public reference: ISO 1219-1 for graphical symbols, and ISO 4413 and ISO 4414 for the safety rules of hydraulic and pneumatic systems.
SCOPE BOUNDARY	It is the training workstation: not a hydraulic power pack, not a valve test bench and not a drone training simulator.
STATUS	Neometrix engineers hydraulic and pneumatic training workstations to order, and no delivered hydraulic and pneumatic training workstation is claimed.

DEFENCE PROGRAMMES DESK

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