

Bomb Shell Hydraulic Pressure Testing Machine

CAPABILITY SHEET - HYDRAULIC PROOF TESTING OF SHELL BODIES

THE ONE IDEA

IF IT FAILS, IT SHOULD ONLY LEAK	It doesn't leak. It merely compresses, so a body under hydraulic proof stores almost no energy. A failure weeps or splits. The same test with gas would be an event.
EVERY BODY, NOT A SAMPLE	A sampled batch tells you about a batch. A proof test tells you about the body in your hand - which is the only one that matters next.
TWO VERDICTS	Leak, seen as pressure decay across the hold; and yield, seen as permanent deformation resolved to a micron. A sound body does neither.

THE CYCLE

LOCATE AND SEAL	Adjustable V-block fixtures and location cups hold the body square; an interchangeable sealing head closes its mouth against full test pressure.
FILL AND PURGE	Air left inside stores energy and softens the pressure curve enough to hide a slow leak. Purging properly is what makes the result trustworthy.
PRESSURISE, HOLD, RECORD	An intensifier holds the recipe pressure for the recipe time; the verdict is written against the body's identity, defensible years later.

THE MACHINE

CAPABILITY	Operating range to about 1400 bar with structural capacity to 1800 bar; hold times from seconds to a minute; rates set by the handling configuration rather than the pressure circuit.
TOOLING DECIDES CHANGEOVER	Fixtures, location cups and sealing heads covering the size family, with a stored recipe per size - so a size change is parts and a selection, not a rebuild.
HANDLING DECIDES RATE	Raising pressure is quick. Getting bodies in and out, and switching sizes, is what a production plant actually buys - manual, assisted or a robotic cell.

SCOPE & ENGAGEMENT

WHAT IT TESTS	An empty forged body, and nothing else. What a shell may contain, or what it is for, is outside this machine's scope entirely.
DELIVERED CLASS	Delivered to Indian ordnance establishments and to defence manufacturers in India and abroad, and built to order.
ENGAGEMENT	Tell us the bodies, the standard and the rate you must run at, at sales@neometrixgroup.com .

DEFENCE PROGRAMMES DESK

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