



American Isostatic Presses, Inc.

COLD ISOSTATIC PRESS

VESSEL:

Forged aircraft quality 4340 monolithic (one piece forging) vessel with pin closure top cover. The closure is lifted automatically by an air over oil cylinder. This is safer and more smooth than a strictly pneumatic actuated cover.

Safe, proven, durable, and cost effective. These vessels are easily inspected, maintained, and accepted for use in most locations. Optional materials and ASME code stamping are also available at additional cost.

PRESSURE:

The system is rated for 60,000 psi working pressure. The vessel is protected by a mechanical rupture disk to prevent potential overpressure of the vessel. Additionally the pump is limited by an adjustable air pressure regulator.

VESSEL SIZE:

The vessel interior working size is 3" diameter x 12" long.

Standard optional lengths are (in inches) 3 x 8, 3 x 12, 3 x 16, 3 x 22. Any custom size can be ordered.

CONTROLS:

The control system features a programmable logic controller that is easily programmed using the touch screen interface. Featuring a large digital pressure readout that is programmable to control pressure and shut off the pump at setpoint.

We offer any style of optional controls or computer to operate the system, with fully automatic or manual operations. Various venting options are also available for different applications including automated let down and multiple stage vents.

PUMP:

The system comes with an air driven Haskel pump, Model DFHX 602 capable of 60,000 psi. It is driven by a customer supplied air source. The speed of the pumping is directly related to the size of the customer air source.

Other air powered or electric-hydraulic powered types are offered. Brands include Hydro-Pac, Haskel, Hofer, Maximator, and Hydraulics International.

CABINTRY:

The AIP3-12-60CP features an attractive steel enclosure that allows easy access through doors to the inside components. Situated on heavy duty locking casters the unit can be moved to new locations easily or the casters can be removed for permanent locating.

WARM PRESSES:

Most Cold Isostatic Presses can be ordered with optional heaters and controls to allow pressing up to temperatures of 100 C or more.



AIP3-12-60CP RESEARCH CIP

WORKING PRESSURE	60,000 PSI
VESSEL TYPE	Single ended, single wall one piece 4340 forging
CLOSURE TYPE	Threadless quick opening pin type and air over oil lift cylinder. Microswitch head in place detection.
SEAL	Brass anti-extrusion backup with elastomeric o-ring.
WORKING SIZE	3" diameter x 12" long
PUMP	Haskel, 60,000 psi, air-operated positive displacement liquid pump. Approximate pump up time 5 minutes.
CONTROLS	Allen Bradley Micro Logix PLC digital pressure controller with Automation Direct touch interface. Stellar 60,000 psi pressure transducer.
PIPING & VALVES	60,000 psi rated, with replaceable Stellite tip and stem on valve. Rupture type safety head assembly. Plexiglas reservoir. Air filter with regulator and pressure gauge.
MISC.	System on casters for easy moving.
WARRANTY	1 year limited
DIMENSIONS	24" x 40" x 52"
WEIGHT	600 lbs
ELECTRIC REQUIRED	120/220 VAC / 10 amps
AIR REQUIRED	100 PSI / 10 CFM minimum