

Cold Isostatic Presses

UCIP3660 for University Research



Features and benefits

- ASME certified
(CE/PED certification available)
- Automated cycle control
- Precise digital pressure regulation
- USB data logging
- Pneumatic cover movement
- Small compact footprint
- Casters for easy movement and storage



State of the Art Research Capability

The Quintus University CIP (UCIP) is a compact, research sized cold isostatic press that was designed specifically for the needs of university laboratories. It combines a small footprint with extensive features while being easy to use and maintain. Quintus Technologies CIPs are state-of-the-art with more presses being used in industry than any other brand of isostatic press. Quintus Technologies has over 70 years of experience and an excellent reputation with exclusive design considerations for reliable and safe equipment.

The CIP Process

Cold Isostatic Pressing is a compaction process that densifies material to add strength, durability, and increase material properties. The pressure is applied evenly in all directions (isostatically) to the sample ensuring no warpage or distortion is created from the pressurizing process. Once the cycle is started the pressure will increase to the desired level, hold for the desired dwell time, and decompress in a controlled, metered, decompression for accurate cycles and high-quality samples. Common CIP usages:

- Forming powdered materials into green body parts
- Compaction of premade shapes
- Electronic chip manufacturing (lamination)

Threadless Pin Closure

This user friendly design offers speed, performance, and safety advantages over conventional threaded, interrupted thread, or clamp type vessels. It cuts cycle time by reducing the opening and closing time of the vessel to just a few seconds. It eliminates time-consuming medium makeup, as well as the hazards of thread galling and uneven stress distribution. Its reliability has been proven in hundreds of pieces of equipment.

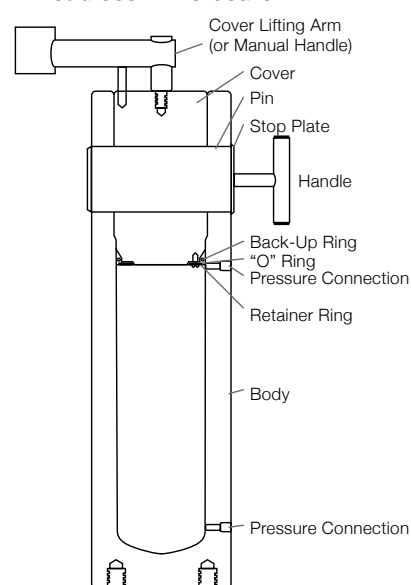
Safety

Every Quintus Cold isostatic Press is built with a pin-locking closure that is designed to exceed ASME Div-III standards. This design utilizes large, rounded surfaces to keep stress risers low and all forces to be distributed over a large area. All transition points and radii have been carefully engineered to reduce stress and visual inspections can be easily completed. Additional standard safety features:

- Safety head assembly (rupture disk) and water containment system in the event of a rupture
- Electronic monitoring of closure, preventing operation when pin is not fully in place
- Completely enclosed cabinet
- Manual emergency letdown valve

Model Number	Maximum Working Pressure	Working Chamber Size		Cover Lifting Mechanism		Approximate Unit Weight
		I.D.	Length	Pneumatic Actuator	Manual Lifting Handle	
UCIP3660	60,000 psi (4,140 bar)	3" (76 mm)	6" (152.4 mm)	★		700 lbs (318 kg)

Threadless Pin Closure



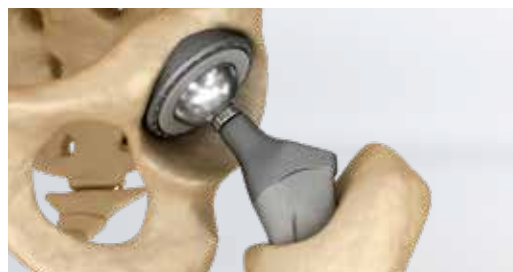
Typical applications



Electronics



Materials research



Medical



Castings

For more information please visit www.quintustechnologies.com

MEMBER OF KOBE STEEL GROUP

Quintus Technologies AB
Headquarters
 Quintusvägen 2
 SE 721 66 Västerås
 Sweden
 Phone: +46 21 32 70 00

Quintus Technologies LLC
Americas Sales & Service
 8270 Green Meadows Drive N
 Lewis Center, Ohio 43035
 USA
 Phone: +1 614 891 2732

Quintus Technologies Co., Ltd.
APAC Sales & Service
 Room 906, 9F, Verdant Place
 128 West Nanjing Road
 Shanghai 200001, China
 Phone: +86 21 5234 0233

Kobe Steel, Ltd.
 9-12, Kitashinagawa
 5-chome, Shinagawa-ku
 Tokyo, 141-8688
 Japan
 Phone: +81-3-5739-6762

ISO 9001:2015
Quality System
Certified



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