



HABCO

ENGINEERING YOUR ADVANTAGE

TESTING & SUPPORT EQUIPMENT

HABCO TIRE INFLATION SAFETY CAGE

Because catastrophic tire failure is truly a matter of life or death . . .



Our tire cage passed real world tests
at over 900 psi... HAS YOURS?

**Exceeds OSHA specs
by over 4X!**

Product Description

HABCO offers a suite of unique Tire Inflation Safety Cages that afford the utmost in added personal protection during tire inflation. These cages are fabricated from a high strength woven steel mesh that will safely dissipate the energy of a tire explosion or separation – by stretching and not fracturing - while simultaneously containing the debris so it does not become deadly shrapnel.

Unique, No Compromise, Fully Proven Engineered Design

- Unique woven steel mesh allows pressure/energy of a tire explosion to safely dissipate while containing all debris.
- Mesh stretches, without fracturing, to safely contain all debris.
- Steel bars provide additional strength to absorb the impact of a tire explosion.
- An internal relief valve limits the inflation pressure to prevent gross over-inflation.
- Destructively tested by the US Army at Redstone Arsenal in Huntsville, Alabama USA.
- Meets all OSHA requirements of 29 CFR Part 1910.177.
- Innovative, mobile design for on aircraft use

Government Tested, Approved & Fielded



- Fully contained at >930 psi
- Tested at US Army Redstone Test Center
- Has proven to save life and limb

Combine with pedestal or wall mount control box for the ultimate in safety



- Ensures 10' minimum safety zone
- Sensors to ensure "ready to fill"
- Greatly reduces all opportunity for catastrophic failure

Our mission is to empower our employees to create unparalleled brand loyalty by providing the ultimate customer experience in everything we do.



SAFER TIRE CAGES

On October 21, 2003, a Black Hawk tire exploded during inflation at the air base in Balad, Iraq. The cause of the tire explosion was gross over-inflation when technicians connected to a high pressure nitrogen source without a regulator, rather than a low pressure source as they thought. The result of the explosion was significant damage to the area of the helicopter around the wheel assembly. More importantly, one man lost his life, and another lost two limbs.



Damage to aircraft & surrounding area



HABCO developed the SK2000TC-6 tire inflation safety cage in early 2004 in response to this catastrophic accident. This tire cage was specifically designed to facilitate safe inflation of aircraft tires installed on the Black Hawk and early model Apache helicopters. The cage underwent rigorous testing to receive the approvals from the US Army. To date, over 1,000 tire cages have been deployed to support Army and National Guard aircraft, including in-theater fielding for Operations Iraqi Freedom and Enduring Freedom.

Since the initial UH-60 tire cage, HABCO has developed several other cages for applications including:

- Single operator on aircraft (CH-47, UH-60, AH-64, Warrior UAV, Predator UAV)
- Small off aircraft/vehicle tire inflation (28" inflated diameter and below)
- Medium off aircraft/vehicle tire inflation (40" inflated diameter and below)



On Aircraft



Back Shop

The HABCO Difference

What makes the HABCO design truly unique is the "crumple zone" philosophy in which the cage stretches and does not fracture. The cage absorbs the energy of a tire explosion which greatly reduces the possibility of injury or damage. This philosophy, combined with calculated dissipation zones and HABCO's proprietary mesh which allows the gases to properly vent, HABCO's tire cages are a one of a kind design that exceed OSHA explosion specifications by 4X.



After >930 psi failure

"BAR TYPE"

May be very inexpensive, but...

- Allows debris to escape
- High potential for deadly shrapnel

**THE COMPETITION
DOESN'T STACK UP**

"BOX TYPE"

May look rugged, but...

- Doesn't effectively dissipate high pressure gases
- Potential for cage explosion