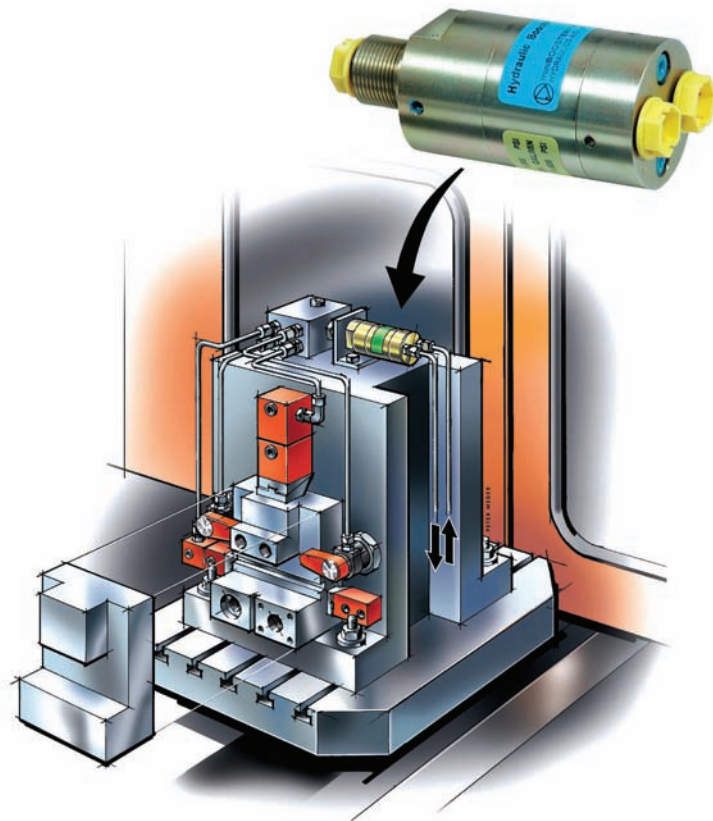




Minimum Size - Maximum Power for Workholding Applications



## Proven Applications

Clamp and Support Cylinders on Pallets

Rail Clamping on Machine Centers

Unclamping of Spindle Heads

Rotating Knives and Clamps on Turning Machines

## Advantages

High pressure performance from existing low pressure power source

Compact size allows installation where the pressure is needed

Lightweight, energy saving design

Easily incorporated in existing or new systems

Pressure at 10,000+ PSI can be obtained from a low pressure hydraulic power source

## Maximize Your Performance - Minimize Your Costs

In busy machining operations where space is often limited, small clamps are used to secure a workpiece while being machined. Smaller clamps may not have enough hydraulic pressure to hold the workpiece in place against the forces of machining.

By tapping directly into the hydraulic system of the machining center, miniBOOSTER converts low hydraulic pressure to high pressure at the point of use to operate clamps and support cylinders in workholding systems.

The compact design of miniBOOSTER requires a minimum of space and is easy to integrate into existing or new workholding systems. By taking advantage of lower system pressure, expensive hoses, pressure valves and piping are eliminated reducing the overall cost and space of the system.

### AIR SYSTEM PRODUCTS

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# Hydraulic Pressure Intensifier for Workholding Applications

## HC2



## How It Works

miniBOOSTER is commonly used to operate clamps and support cylinders in workholding systems. Low machine tool hydraulic pressure is used to produce a high pressure supply saving both energy and space.

The HC2 is a compact unit weighing only 2.2 pounds. It is ideal for use in a variety of applications where building and maintaining high pressure is required. The HC2 raises supplied pressure to a higher outlet pressure and automatically compensates for consumption of oil to maintain the high pressure.

The HC3 is a version of the HC2 designed for use in D03 stacking manifold systems. It is a compact unit weighing only 5.5 pounds. Maximum outlet pressure is 7250 PSI in standard versions.

## HC3



Adjustment of the outlet pressure is carried out by varying the supplied pressure,  $P_H = (P_{IN} - P_{Return}) i$ , where  $i$  equals intensification.

## Specifications

Model	Description	Max P <sub>H</sub> - Outlet Pressure PSI (BAR)	P <sub>IN</sub> - Inlet Pressure Range PSI (BAR)	P <sub>R</sub> - Return Pressure	Connection	Overall Dimensions inches (mm)*	Weight lbs (Kg)
HC2	Inline Compact Intensifier	11600 (800)	290 - 2900 (20-200)	Decreases P <sub>r</sub> , Directly	In Line Tube	1.97x4.33L (50x110L)	2.2 (1)
HC3	Manifold Mount Compact Intensifier	7250 (500)	290 - 2900 (20-200)	Decreases P <sub>r</sub> , Directly	D03 (NG6) Manifold Mount	1.97x2.36x6.64L (50x60x169L)	5.5 (2.5)

\*For complete illustration details consult the product information page at [www.minibooster.com](http://www.minibooster.com) or request a drawing from customer service.

**Call customer service at  
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