



Minimum Size - Maximum Power for Bolt Tensioning Applications



Advantages

High pressure performance from existing low pressure power source

Compact design allows installation where the pressure is needed

Environmentally friendly

Corrosion resistant, stainless steel construction

Available for a wide variety of applications

Pressure at 25,000+ PSI can be obtained from a low pressure hydraulic power source

Maximize Your Performance - Minimize Your Costs

As the global demand for electric power continues to increase so does the need for a way to accurately and consistently tighten multiple bolts in difficult to reach, critical applications such as gas and wind turbines, reactor heads or subsea fields.

Hydraulic Bolt Tensioners are often the preferred method used to ensure high quality and accurate tightening. Bolt Tensioning has many advantages including controlled, simultaneous tightening of bolts creating a uniform load, elimination of inaccuracies created through friction, and a reduction of the time required to tighten the load.

miniBOOSTER provides a portable means of converting standard hydraulic pressure to high pressure at the point of use.

The compact design of miniBOOSTER requires a minimum of space and is easy to integrate into existing or new tensioning equipment.

AIR SYSTEM PRODUCTS

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Hydraulic Pressure Intensifier for Bolt Tensioning Applications

HC7



How It Works

miniBOOSTER is commonly used in bolt tensioning to help ensure controlled, simultaneous tightening of bolts creating a uniform load in critical applications such as gas and wind turbines, reactor heads or subsea fields.

The HC7 is a very compact high-pressure unit capable of delivering pressure up to 29,000 PSI weighing only 3.3 pounds. It is ideal for use in portable applications like on power packs. With the choice of different high-pressure adapters, a variety of threads can be obtained from the M22x1.5 thread in the HP port. Higher pressure is available on request.

HC4H



The HC4H is a very compact high-pressure unit capable of delivering pressure up to 43,500 PSI weighing only 8.1 pounds. It is ideal for use in portable applications like on power packs. The HC4H raises supplied pressure to a higher outlet pressure and automatically compensates for consumption of oil to maintain the high pressure. With the choice of different high-pressure adapters, a variety of threads can be obtained from the M22x1.5 thread in the HP port. Higher pressure is available on request.

The HC9 is an ultra high-pressure unit which is capable of up to 72,500 PSI and 0.8 GPM flow on the high-pressure end.

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

HC9



Specifications

Model	Description	Max P_H - Outlet Pressure PSI (BAR)	P_{IN} - Inlet Pressure Range PSI (BAR)	P_R - Return Pressure	Connection	Overall Dimensions inches (mm)*	Weight lbs (Kg)
HC7	Inline Compact Intensifier	29,000 (2000)	290 - 2900 (20-200)	Decreases P_H Directly	In Line Tube	1.97φx4.33L (50φx110L)	3.3 (1.5)
HC4H	Inline Compact Intensifier	43,500 (3000)	290 - 3000 (20-207)	Decreases P_H Directly	In Line Tube	2.8φx6.41L (73φx163L)	8.1 (3.7)
HC9	Inline Compact Intensifier	72,500 (5000)	290 - 2900 (20-200)	Decreases P_H Directly	In Line Tube	3.93φx15.00L (100φx381L)	22 (9.9)

*For complete illustration details consult the product information page at www.minibooster.com or request a drawing from customer service.

**Call customer service at
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for technical or ordering information.**



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