



miniBOOSTER is the workholding solution

miniBOOSTER intensifiers are widely used in workholding to secure work pieces by boosting pressure to clamps and positioners.

Often times machining centers have a hydraulic system generating 30-100 bar, and most hydraulic workholding systems require operational pressures of 150-500 bar.

By simply inserting a miniBOOSTER virtually any pressure can be obtained. The control of the clamping and the unclamping of parts can be done from the low-pressure side via the miniBOOSTER, providing a simple and reliable method of operation.

Installing a miniBOOSTER gives significant benefits:

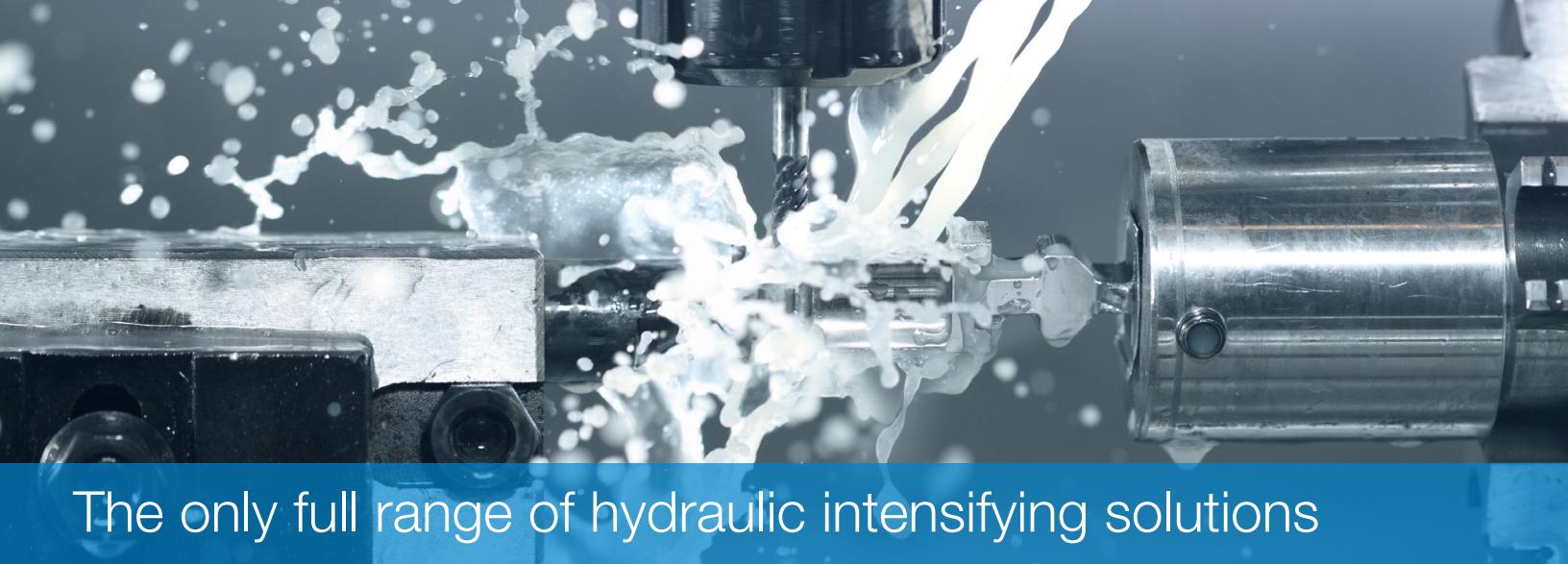
- **Less Investment** - regardless of what you are comparing a miniBOOSTER solution with, for example a high-pressure pump, you will see big savings. Remember that all hoses/tubes and valves can be rated for low pressure.
- **Less Space** – the miniBOOSTER solution can be very compact, saving valuable space.
- **Less Noise** – the miniBOOSTER is very quiet generating only 64 dBA, compared to high-pressure pumps generating 70dBA–90dBA.
- **Lower Operating Cost** – the miniBOOSTER does not need any maintenance, and it has no dynamic seals.

Choosing the optimal miniBOOSTER

- **Intensification Factors** - miniBOOSTER offers a wide range of hydraulic pressure intensifiers. In both the HC2 and HC3 series you can choose between 11 different intensification ratios from 1.2 to 20 providing the decided end pressure.

Choosing the optimal miniBOOSTER cont.

- **Dump Valves** - You can choose between B models with a dump valve, A models without a dump valve, or G models with a proportional valve. In pallet systems, the B versions with built-in dump valve gives you a convenient and compact solution for releasing the clamp force.
- **Mounting Configurations** - You have the choice between hose connections, flanged versions, and even cavity mounted options.
- **Dual Acting Boosters for More Flow** - If you need speed to fill bigger cylinders in a short time, a dual acting booster offers a fast solution. The advantages of the dual acting boosters are realised with good system flow > 5 liters per minute.
- **Intesifier System** - If a complete plug-and-play system is desired, and intesifier system can be ordered to include components such as, sequence valves, relief valves, orifices, solenoid operated valves, etc.



The only full range of hydraulic intensifying solutions

miniBOOSTER has a comprehensive range of hydraulic pressure intensifiers that cover 15 intensification factors up to 5,000 bar and flows up to 400 l/min, using almost any media including tap water. The range covers flanged versions, tube versions and cartridge versions and includes standard blocks with built-in valves option that dramatically reduces the need for space and piping.

Advantages of high pressure hydraulics:

Raising the hydraulic pressure from 80 to 400 bar, allows you to use smaller high-pressure components (clamps and support cylinders), typically 1 to 2 sizes down.

Lower fixture cost.

Reduced prices of clamps and support cylinders. (typically 50%).

More parts per pallet

The smaller high-pressure clamps gives you more space on the pallet, allowing you bigger items or more items on your pallet.

Reduced clamp time.

The smaller high-pressure clamps need less oil volume during clamping, reducing the clamping time 3 to 5 times.

Well-proven applications:

- Clamp and support cylinders on pallets
- Rail clamping on machine centers
- Unclamping of spindle heads
- Rotating knives and clamps on turning machines

Product Advantages:

- Intensification up to 5,000 bar & flow up to 400 l/min
- Comprehensive range of hydraulic pressure intensifiers manufactured according to EU and US standards
- Multiple mounting options available
- Constructed with hardened steel check valve surfaces and ceramic check valve ball
- Gives high pressure whenever needed
- Expensive high-pressure pumps not required
- Expense saved on hoses
- Generate expensive high pressure by simply increasing inexpensive low pressure
- Low pressure is changed into high pressure with minimal use of energy or heat generation
- Leakages on the high-pressure side compensated dynamically
- System works with labyrinthine tubing, which gives a longer life
- No rotating parts
- Light weight
- Small size – high performance

