

Machining Quick Tips: Exploring The Tools



Cantilever-Mounting of a BB5000 Boring Machine

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Typical line boring applications use the bar being supported at both ends, with the work area in-between the bearing supports. While this is the most common, often this type of bar support is just not possible, and this is where the flexibility of the BB5000 really shines. One such option is the use of a cantilever mounting system. With the proper training and accessories, you can easily double the number of applications possible.

Cantilevered mounting of the Climax BB5000 Boring Machine is a relatively little known application that takes about the same time for setup and operation as standard line boring. The use of this new setup can expand the scope of projects from basic machining in-between the support bearings, to those outside or beyond the bearings. By stacking or layering the bearings on one side of the workpiece, we can achieve the bar support and rigidity required for a wide range of jobs such as blind hole boring, drilling, threading, reaming, valve repair operations or other jobs where it is just not possible to place a bearing for proper support on the end of the bar. Why carry around several machines such as magnetic base or hydraulic drills, valve repair machines or honing machines, when the BB5000 cantilever mount system can accomplish the same tasks.



A Cantilever-Mounted BB5000 Boring
Machine Performing Valve Repair

The mounting process for a cantilevered boring system is very similar to that of standard line boring. Easy to use setup cones, spherical bearings allowing up to 5 degrees of axial out-of alignment, and micro adjustability of bearing supports make it quick and easy. The double arm bearing supports can be mounted to many types of support arms that are bolted, clamped or tack welded to the work piece. Then simply mount the bar, Rotational Drive Unit, Axial Feed Unit, tooling and either electric, hydraulic or pneumatic drive motors and you are ready to go.

The Climax BB5000 Cantilevered Boring System expands the use of your existing boring machine to a whole new world of onsite machining possibilities.

Bringing the solution to you.

Climax Portable Machine Tools, Inc. ■ 2712 E. Second Street ■ Newberg, Oregon ■ 97132 ■ USA
Worldwide Telephone: 1.503.538.2185 ■ USA Toll-Free: 1.800.333.8311 ■ Fax: 1.503.538.7600
Email: info@cpmt.com ■ Internet: cpmt.com