

Vortex Fluid Systems Inc. (VFSI) is committed to using the highest quality components and materials in building its Orbital 3000 Horizontal Boring (3000HB) shakers. When welding each Orbital 3000HB, precise tolerances have been maintained, producing one of the most durable and quietest shakers in the world today. VFSI has over 250 units in the field. As a result, the Orbital 3000HB is a field tested design marked by outstanding performance, durability, and unmatched screen life. All this, coupled with competitive pricing, makes the Orbital 3000HB unique in the market place today.

## Orbital 3000HB

### Performance:

The Orbital 3000HB uses orbital motion for extended screen life and excellent conveyance. The large screen area of 30 ft<sup>2</sup> and high g forces of over 6 g's result in exceptional performance. Shaker performance can be characterized by the product of screening area and g's. This unit, run at 6.25 g's, provides 188 ft<sup>2</sup>-g's. This is one of the largest performance ratings in the industry.

### Dimensions:

The Orbital 3000HB shaker is 8' 5.5" long and 6' 10" wide.



### Orbital 3000

- 30 ft<sup>2</sup> of screening area
- high performance
- competitively priced
- dependable and durable
- low maintenance
- minimal operational costs
- simple screen adjustment
- vibration isolation
- minimal noise



## Orbital 3000HB

### Durability:

All baskets are fully *seal welded and stress relieved*. Seal welding reduces corrosion, adding years to machine life. The Orbital 3000HB pretension screening machine requires minimal maintenance.

### Corrosion Protection:

*Two layers of powder coat*. Baked on zinc-rich epoxy first coat provides corrosion resistance. Final coat provides abrasion resistance. Most fasteners are stainless steel, providing excellent corrosion resistance.

### Vibration Isolation:

*The Orbital 3000HB is exceptionally quiet*, due to efficient isolation, orbital motion and a sturdy base. With the machine running, it is possible to stand a nickel on edge at each corner of the machine.

## Horizontal Boring Applications

Horizontal boring applications require shakers capable of handling high solids laden fluids. The VFSI Orbital 3000HB has exceptionally good solids conveyance. As a result, solids do not pile up on the shaker. This greatly improves fluid handling capacity and screen life. VFSI has a large number of satisfied customers. Please call for references.



## Martin Vibrator

Martin 5900 vibrators are exceptionally durable. The martin vibrators are capable of delivering 6 g's of vibration to the Orbital 3000 basket making the Orbital 3000 a "high g" machine.



## Screen Adjustment

The angle of the screen bed can be adjusted from either side using a hand crank. Screen pitch can be adjusted from 1 to 5 degrees.



## Wedge Block

- Durable polyurethane wedge block holds screens securely in place.
- Manufactured with a steel insert for increased rigidity.



## Wedge Block Installation Tool

Wedge block fastener produces easier and more secure tightening of wedge blocks against the screen.



## Tool Kit



The Orbital 3000 is equipped with a tool kit containing tools for operation and basic maintenance of the Orbital 3000 shaker and Martin vibrators. The kit includes, wedge block tightener, grease, grease gun, allen wrenches, a wrench, and deep sockets.

## Isolators

Stainless steel spring isolators provide excellent isolation efficiency while maintaining superior corrosion resistance.



Serving Customers Worldwide: [www.vortexfluidsystems.com](http://www.vortexfluidsystems.com)  
6324 South 69th E. Pl. • Tulsa, OK 74133  
Phone: (918) 810-7798 • Fax: (918) 492-1688