

MVH Series

Single Spindle Vertical Microhone® or Diamond Ream Machines

Standard Features

- Modular design with industry proven components
- Vertical spindle arrangement
- Electronic stroke control
- PLC controlled machine functions
- User-friendly operator interface
- Adjustable stroke and feed parameters
- Closed loop adaptive feed system
- Fault diagnostic software

Description

The MVH Series modular vertical spindle diamond ream and/or hone machines are specifically intended for precision bore finishing operations. Designed with industry standard components, the MVH series machine delivers great productivity, reliability, and maintainability. The use of industry proven components also reduces spare part inventory requirements, and supports simplified preventive maintenance strategies.

All MVH series machines include, as standard equipment, a PLC based programmable controller for monitoring and controlling various machine motions and process parameters throughout the machining operation. Repeatable and reproducible surface finish and cylindrical form is created by an adaptive pressure abrasive feed system, which is standard on all MVH hone machines.

Optional features include coolant filtration and refrigeration system, a variable frequency spindle drive motor, in-process gauging system used for bore size control, stepping motor feed system, and modifications to encompass any customer specified components.



Diamond ream and hone tools are designed and optimized for use with each MVH machine. As the manufacturer of all critical items used in each machine sold, KENRIE ensures undivided responsibility for the performance of the entire process, including ream, hone tools and abrasives.

All MVH Series hone machines can be adapted to process different part configurations by changing the part contact details, and hone tool.

Guide Specifications

| MACHINE MODEL | MAX STROKE LENGTH | MAX ID BORE DIAMETER | SPINDLE MOTOR | OVERALL H x W x L | MAX STROKE SPEED |
|---------------|-------------------|----------------------|----------------|-------------------|------------------|
| 1MVH | 300-610mm | 32mm | 1HP - 1800RPM | * x 1422 x 1828mm | 80 FPM |
| 3MVH | 300-610mm | 100mm | 3HP - 1200RPM | * x 1422 x 1828mm | 80 FPM |
| 5MVH | 300-610mm | 150mm | 10HP - 1200RPM | * x 1422 x 1981mm | 80 FPM |
| 10MVH | 300-1219mm | 300mm | 15HP - 1200RPM | * x 1422 x 1981mm | 80 FPM |

* Overall machine height will vary with stroke length and fixture height – minimum 2184mm to maximum 4000mm.