

Welcome to our Global Team and the world of Vibra-Free . . .



One of the most significant advances in making molds and forging dies is precision ultra-high-speed hard milling (UHSHM™). The ability to mill 3-D surfaces at 40,000 RPM and above dramatically changes the mold-making process by drastically reducing milling time. In many cases, this means starting with a block of hardened steel and milling the surfaces followed by minor polishing. No graphite milling, no EDM burning, no post hardening. When sharp corners or specific geometry mandate graphite milling, the same process is used to produce brilliant graphite electrodes.

Unique rigid-bridge machine construction, dynamic thermal and position control, high-speed contour control and ethernet link to a host are just the start. Numerous applications ranging from graphite to hardened steels have resulted in an extensive library of critical feed and speed data. These data, along with the optimum cutter path techniques from UHSHM experts, all come in one package from Compumachine.

Years of research dedicated to high-speed machining has brought together technology, quality and workmanship from Japan and unparalleled expert customer support in the United States.



Shower Valve Handle, P20 Steel, HRC40

| | Rough | Finish |
|---------|-----------------------|-----------------------|
| Cutter: | 4 mm ball end-mill | 3 mm ball end-mill |
| RPM: | 28,000 | 36,000 |
| IPM: | 200 | 300 |
| Time: | 16 min. | 32 min. |

