Speeding up precision alignment with 2-axis wireless leveling technology

Leveling and precision alignment are vital processes in CNC metal-cutting machines, inspection and testing equipment. Imprecise aligning a machine affects its structural stability (such as inducing vibration) during active operation thus severely reduces dimensional accuracy and quality performances of its outputs.

Conventionally, leveling and alignment of a precision machine are time-consuming and cumbersome tasks with tedious repetition on going back-and-forth checking "bubble" level position in-between tiny graduation lines. This monotonous trial-and-error alignment task promotes boredom that often succumbing maintenance engineers to resort for compromising works resulting in inefficiency. In those machines involving image-capturing measurements driven by X-Y screws such as Coordinate Measuring Machine (CMM), improper leveling induces additional vibrations resulting blur images affecting its measuring accuracy. In fact, without levelling a machine to its utmost precise condition, one could not ensure a machine's own weight is equally/proportionately distributed over its footings to achieve MAXIMUM STRUCTURAL STABILITY.

Choosing the Right Leveling Tool

Digi-Pas 2-axis SMART Precision Level revolutionizes levelling alignment tasks of metalworking machines, inspection and test equipment by greatly speeding up alignment time to achieve machine's maximum stability, which in turn resulting in dimensional accuracy and quality performance improvements of its outputs. This leveling tool wirelessly displays both X-Y leveling readings on a smartphone or laptop PC while you simultaneously adjusting machine's footings on the floor over Bluetooth range. This patented feature enables you to precisely align machine's own weight equally distributed over its footings with ease, thus greatly reduces time and improves quality of installation, setup and maintenance of machines. With its 2-axis sensing ability, it also effectively replaces two units of old-fashioned spirit levels or two single-axis Inclinometers.

Patented Cutting-Edge Levelling Technology

Powered by advanced multiple-axis MEMS technology, the superiority of patented Digi-Pas high-precision industrial-grade sensor compounded with digital embedded technologies provide 2-dimentional (planar) tilt-angle and leveling measurements with graphic-animated Smart 2D Bubble® bull's eye, wireless and remote real-time logging unique capabilities.

Digi-Pas precision levels are also equipped with built-in vibrometer to assess machine's vibration magnitude in real time. It permits highest accuracy of up to 1-arcsec and simultaneously display 2-D leveling with vibration measurements. Its accuracy is certified by accredited calibration and test laboratories traceable to NIST, JIS and DIN. Digi-Pas enables wireless levelling, real-time data acquisition, logging and diagnostic/analysis when synced with a PC using Digipas software, making them highly effective when used for installation, setup and maintenance of CNC machines, as well as inspection and testing equipment.

Digi-Pas 2-axis Smart Machinist Levels and sensor modules are used by some of the world's most technologically advanced companies, research laboratories and government institutions in various industries such as precision machining, metrology, automotive, aerospace, defense, medical, off-shore oil and gas, railways, semiconductor, construction, research and education.

Learn More: https://www.amazon.com/s/ref=nb_sb_noss_2?url=search-alias%3Daps&field-keywords=digipas