VULCANO Platform
VULCANO MOTION PLATFORM

A modular design

The Vulcano stage provides high dynamics, great bidirectional repeatability and outstanding position stability performance as well as short move and settle time due to the stiffness and symmetry of the mechanical design. This platform is equipped with a built-in vacuum suction device allowing ISO1 clean room compatibility. The stage is easily configurable and can be outfitted with different modules (Theta, ZT or Z3T) to best suit each individual application. The use of this platform is suitable for (but not limited to) Wafer Process Control applications such as Overlay Metrology, Critical Dimension and Thin film Metrology as well as other Back-end processes made on large panels / substrates.

The Vulcano XY system is a three-piece design allowing a compact and cost engineered solution, coupled to mechanical bearings and high-end optical encoders.

The bottom axis is composed of two linear motors controlled in a gantry mode moving on three decoupled linear bearings.

The upper linear motor lays on a stiff and light base plate with linear bearings.

A modular design allowing travels up to 650 mm on a standard.

The Vulcano XYT platform is made up of the standard Vulcano XY outfitted with the RTTB rotary module which includes high resolution encoder coupled to a high-end mechanical bearing.

The Vulcano XYZ3T platform is made up of the standard Vulcano XY and the combined Z3T module. This 4 degrees of freedom module, provides 364° Theta rotation, double Z-axes, a coarse one for wafer loading and unloading, and a fine one for focus adjustment, as well as a Tip-Tilt correction over ±0.1°.

ETEL is pushing ahead with its Forward Integration Strategy. An advanced motion platforms from ETEL will include not only the advanced motion system and its associated state-of-the-art motion controllers, but can also benefit from ETEL’s QuiET active isolation system. This makes ETEL the only motion system supplier able to cover such a wide scope of supply!