

Turbine Metrology NT tables by EIMELDINGEN TECHNOLOGY



As the mechanical heart of a circular geometry inspection system, the function of the rotary inspection table is to rotate with extreme accuracy, without run-out or coning errors. To accomplish this, the rotating top and stationary base must be made of strong, stable material which will not deflect under load, insuring that the precisely ground thrust bearing surfaces maintain a uniform air film and high stiffness. In addition, the table must feature a drive system that can accelerate massive parts to a stable rotational speed in a short period of time and maintain that speed without torque or lifting effects that might unduly influencing table run-out.

Having supplied and maintained rotary inspection tables for nearly two decades, Turbine Metrology has used its experience to create their **New Technology** inspections tables, manufactured in the USA by Eimeldingen Technology.

Many large table designs use steel-on-steel rim-drive systems that introduce an unbalanced driving force into the table top which must be precisely opposed by additional bearings, cam followers, and the table's own radial and thrust bearings. One shortcoming of this design is that these tables transmit all of the vibration and noise of the drive motor, gear reduction, and bearings through to the tabletop where it can influence the table's accuracy. From experience we know such tables do not perform well in shop floor environments and require constant maintenance to operate at published specifications.

TM's improved drive design uses a balanced force system that does not apply forces to the table that must be opposed by other noise-generating, high maintenance components. There are no gear trains or steel-on-steel elements in the drive. When un-powered, the table can freewheel in both directions, but no clutch or mechanical disengagement is required, further reducing maintenance issues.

In addition, NT tables for large Paragon® workstations are designed with tall base sections to raise the table to a comfortable working height for operators without having to add a "spacer" surface plate. This feature not only greatly increases the table base stiffness, but elimination of the spacer increases the stability of the system as a whole.

Turbine Metrology's NT tables are currently available in sizes up to 2000mm with capacities to 25,000 Kg. Contact TM today for more information.

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Turbine Metrology LLC

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