

A basic mounting attachment, with appropriate adapters, allows you to composite-test a complete range of worm and helical gears to a very high degree of accuracy. No other composite gear testing system is as versatile.

For testing helical gears, the VR-210 Rotary Face Plate Attachment employs a built-in sine bar to position the Master Spur Gear precisely at the nominal helix angle of the Worm or Helical Part Gear. The part gear and the master gear can then mesh and be rolled as you would two spur gears. This same set-up can then be used to check gears having the same diametrical pitch or module and pressure angle but different hands or helix angles, just by changing the sine bar setting. This versatility greatly reduces the number of Master Gears you must inventory.

The unit checks helix angle error with a built-in micrometer head graduated in 1' increments. This feature provides for a quick and simple check of helix angle error.

+ ADAPTERS

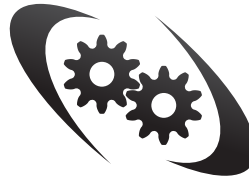
VR-2010 - Helical Gears

VR-2020 - Worms & Worm Gears

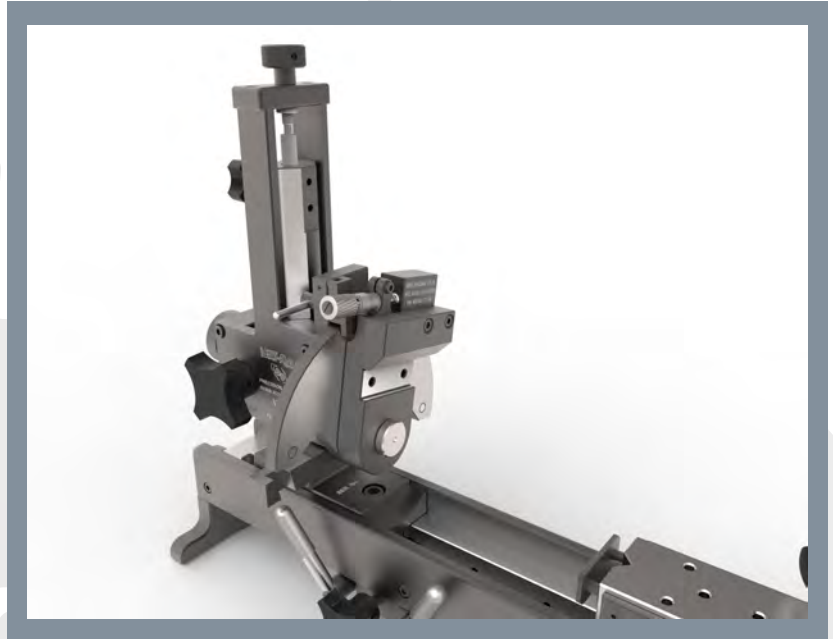
VR-2030 - Helical Pinion Gears

VR-2040 - Centerless Helical & Worm Pinions

VR-2050 - Throated Worm Gear



VARI-ROLL



More Information about the VR-210

- adjusts for left hand or right hand part gear helix angles anywhere from 0 through 90 degrees.
- Vertical adjustment is provided by a pre-loaded track and pinion gear system with fine adjustments by a fine pitch lead screw
- Reduces Master Gear inventory to a single gear for each diametrical pitch and pressure angle combination to be tested. Helix angle changes are all accommodated by the VR-210 2-1/2"/63.5mm sine bar adjustment
- Uses Spur Master Gears to test worm and helical part gears at 75% savings of the cost of Helical Master Gears
- Adjusts easily to accommodate gears of different sizes and face widths... permits inspecting all areas of the part gear face
- Micrometer heads check Helix Angle Error of part gears in graduation of minutes

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