

New Modular Fixture Technology for Comparators

This new modular fixture system for optical comparators is the first of its kind. The kit is economical and very functional, allowing a great variety of part staging fixtures to be built. The system can mimic traditional fixtures like vee-blocks, vises, and centers. It also allows the user to create an infinite variety of fixtures to stage parts that are not easily held by traditional fixtures.

System Features

- The t-slot system offers multi-axis infinite adjustment of part-locating components.
- A 16.5" x 6" fixture base with (7) t-slots laser engraved with reference scales for easy repeat setups. A slimmer 5" plate with 5 t-slots is also available. Spring-loaded mounts for easy on/off the comparator.
- (2) Laser-engraved 6" vertical risers with (6) t-slots
- New "near zero force" self-wedging clamps allow soft and fragile parts to be held with a minimum of distortion
- Sliding locators can be used in a variety of configurations to optimize part presentation to the comparator
- (2) Ridged right angle locators allow edges to be seen clearly with back-light illumination
- Integrated components like the jackstand, spherical fixture pins, and conical locators may all be used on the plate, risers, or standoffs for tremendous flexibility
- Kit components are anodized aluminum or stainless steel for corrosion free use
- Additional optional components like magnetic locators and swivel-heads are readily available

The FixOptix Modular Fixture Kit includes the following items:

The CCP modular fixture kit includes the following:

- (1) 16.5" fixture base with five t-slots and laser engraved reference scale for repeat setups. Includes spring-loaded mounts that locate into comparator stage dovetail slot
- (2) 1" standoffs with stainless 1/4-20 posts
- (4) 1.5" standoffs with stainless 1/4-20 posts
- (2) 2" standoffs with stainless 1/4-20 posts
- (2) 6" laser engraved vertical risers with six t-slots
- (4) Right angle t-nuts with (6) 1/4-20 tooling holes for mounting risers, or for use as sliding locators
- (3) Ridged corner locators that allow part edge to be viewed with rear illumination
- (2) Sliding t-nut blocks with (2) threaded holes provide tooling holes perpendicular to t-slots
- (4) Conical locators that can simulate a Vee-block or "centers" when combined with other components
- (3) Unique tail-spring clamps provide "near zero" force clamp action, and can be used for adjustable locators
- (3) Stainless clamp rods, 4" for use with tail-spring clamps
- (1) Stainless clamp rod, 8" for use with tail-spring clamps
- (7) 1/4-20 locknuts for locking components onto t-slots
- (7) T-nuts, 1.5" w- (2) 1/4-20 threaded holes, lock components onto t-slots of plate or risers.
- (4) Stainless adjustable rests, spherical top, 1/4-20 thread, can be used as side locators or vertical locators.
- (1) Mini jack-screw platform, stainless w-1/4-20 post
- (30) 5/16" x 1/4 -20 set-screws with nylon tips, are used to lock components into t-slots

Complete FixOptix kit shown below with base-plate and optional rotary vise stage



Simplify your part holding with FixOptix modular comparator fixtures



Optional Rotary Vise Stage mounts onto Fixture Base



The rotary vise stage has the following features:

- A steel vise with a precision ground finish. The vise is 1.25" width with a 2.9" clamp range. The vise can slide in the rotary stage so that a different diameter parts can be centered for true rotation.
- The vise base has a laser engraved rotary scale with 1° increments, and mounts to the fixture base. The rotary stage has full 360° rotation.

Modular Fixtures Simplify Your Work-holding

