



# Mate Tooling Solutions Ltd.

Mate Pilot™ Turret Calibration System is simply the best system available.

## Introducing the Mate Pilot™ Turret Calibration System

The **Mate Pilot™** Turret Calibration System is the most accurate system for ensuring precision concentric and angular alignment of thick turret punch press turret furniture available. The Mate Pilot Turret Calibration System operates in two modes.

- **Verification** — Confirm the precise concentric and angular alignment of your turret to maintain high quality piece part production and maximum tool life.
- **Alignment** — Restore the concentric and angular alignment of each station with the same or better precision as the initial machine installation.



### Accurate:

Each calibration instrument is machined from a single piece of high quality tool steel. The upper and lower halves are separated near the end of the production process, just prior to installation of the hardware. This eliminates the possibility of cumulative tolerances adversely affecting the accuracy of the finished instrument.

### Simple to Use:

Install the two halves of the calibration instrument into the turret station to be aligned. Rotate turret to position the station to be aligned under the machine ram. Use the integral adjustment handle to draw the two halves of the calibration instrument together.

The interlocking design of the interface between the two halves causes the loosened die holder assembly, to be drawn into concentric and angular alignment relative to the upper bore as the two halves of the calibration instrument engage.

The traffic light indicates alignment

- Red – not aligned.
- Yellow – angularity and concentricity within 0.0012(0.030)
- Green - angularity and concentricity within 0.0003(0.008) – recommended when punching materials with thickness of 0.078(2.00) or less.

### Comprehensive:

The **Mate Pilot** Calibration System is available in all five thick turret station sizes and is also available to suit the Finn-Power Multi-Tool stations. The Mate Pilot Calibration System is available as a set to suit Amada style presses, or Finn-Power presses.

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