



SA-1M with Push to Start Screwdriver

Hand-held Automatic Screwdrivers

- Simple
- Rugged
- Reliable

A Low-Cost Work Station

Assembly Automation hand-held automatic screwdrivers are fast, often reducing cycle times by over 60 percent. Screws are fed in *less than one second* to the handpiece down a flexible feed tube. This part of the cycle takes place as the operator moves from one screw position to the next.

The unique head configuration of the **Assembly Automation** hand-piece allows *positive extension* of the fastener during screwdriving. *Narrow pointed jaws* provide access impossible with many other systems.

HIGH PRODUCTION, LOW FATIGUE

Increased production rates require more emphasis on good ergonomic handpieces. **Assembly Automation**, working with high volume users and conducting studies, has produced tooling which requires virtually no grasping pressure. This is achieved with torque reaction tool holders, bio-flange hand supports and impact absorbing, foam-coated handpieces.

These features result in a dramatic reduction in operator fatigue.

Also included in the work station are high quality air and electric torque drivers with automatic shut-off clutches. Torque accuracies of ± 3 percent are attainable even with high speed insertion rates.

IDEAL FOR AUTOMATING PRODUCTS WITH SHORT LIFE CYCLES

Concurrent engineering and short product life cycles cannot wait for long lead automation deliveries.

Assembly Automation solves the problem with *short lead times*. Application specialists work in



Miniature Handpiece for Electronic Assembly

close cooperation with the end users to solve access and workplace layout problems *before delivery*. Emphasis is on the *complete work station*, not just the screwdriver.

THREE DIFFERENT MODELS TO CHOOSE FROM

Each application requires a specific feed unit, torque driver and handpiece support system. The SA-1M, SA-1.5 and SA-2.5 may be tooled from size 0 (SA-1M) through 2.5-inch long (SA-2.5) fasteners.

Torques from 8" / oz. to 20 NM are attained by using the highest quality air and electric torque tools.

TRANSDUCER CONTROL

Where necessary, the screwdriver system may be supplied with monitoring transducers and controllers. All controllers provide printer and RS 232 ports. Statistics to provide SPC data are accessible from the L.C.D. or from a printout.