
***VITAP Throughfeed Boring Machines**

The VITAP SIGMA 2TO Manual and SIGMA 2TA Automatic throughfeed drills are available with a working table of 2000 mm (78.75"), or 2500 mm (98.5"). They feature two opposing horizontal groups for simultaneous end boring in two sides and vertical boring with as many as six independent vertical groups.

The SIGMA 2TA is an automatic version with alternate horizontal/vertical drilling circuit belt conveyors fitted on pneumatic cylinders with front and side pneumatic pushers to align the panels.

These special machines are compact throughfeed drills and are priced both in standard configuration or custom designed for special applications.

SIGMA 2TO and 2TA Standard Specifications:

- Frame/working table length of 2000 mm or 2500 mm.
- Mechanical digital readouts control the vertical positioning of the two horizontal heads, longitudinal positioning of the right horizontal group and all the vertical groups. Readout fine-tunes down to one tenth of a millimeter.
- Digital readout for setting of boring depth.
- VITAP quick-change system supplied on all heads. Number of chucks supplied varies with different configurations.
- Two horizontal end boring groups, each with 21 spindles. The right group moves on bearings on a round bar guide by a rack and pinion system, and can collapse out of the way in case panels longer than the working tables need to be bored (model SIGMA 2TO only).
- Up to six vertical groups, each with two 9-spindle swiveling heads (split heads) for a total of 18 spindles per group. Horizontal movement of the groups is the same round bar, rack & pinion described above. On request, 11 or 13 spindle heads can be supplied.
- Manual locking of the right horizontal group.
- The right side horizontal boring group can be moved over any of the vertical boring groups when drilling narrow parts.
- Pneumatic locking of transversal movement of the vertical groups, as well as rotation of the split heads. Longitudinal movement of the vertical boring groups is obtained with a crank handle with a rapid gear ratio. Fine-tuning is achieved with a separate knob that can register down to tenths of millimeters.

VITAP **SIGMA 2TA** with automatic feed, consisting of two (one left, one right) conveyor belts for automatic positioning of the panels against preset stops, plus front and side pneumatic alignment of the panels. After the boring cycle is completed, the panels are automatically unloaded on the

(Continued)

Model SIGMA 2TO/2TA (Continued)

outfeed side of the machine. With this setup, the SIGMA 2TA is very fast and a cycle of up to 25 panels per minute (depending on panel sizes) is obtainable.

- Boring heads with 9, 11, or 13 spindles each
- Hydraulic brakes for vertical groups
- Additional quick-change chucks
- Frame/working table, 2500 mm length
- Minifeed: Hopper feed with pneumatic pistons for small parts such as rails, drawer parts, etc.

Maximum stackable height approximately: 16" (400 mm)
Minimum size of parts: 2" x 10" (50 x 250 mm)
Maximum size of parts: 10" x 63" (250 x 1600 mm)

OPTIONS AVAILABLE:

- Infeed belt extension: Price on request
- Outfeed belt extension: Price on request
- Automatic infeed system: Price on request
- Automatic outfeed stacker: Price on request

***SPECIAL MACHINE**

NOTE: Due to the many different configurations available for the SIGMA, machines are priced upon request. Custom configurations are also available. Please call for pricing.

**VITAP SIGMA 2TD AUTOMATIC THROUGHFEED
GLUE AND DOWEL INSERTING MACHINE**

Built on the same frame and configuration as the SIGMA 2TA, 2500 mm with automatic feed, consisting of two horizontal glue and dowel inserting groups, 5 or 6 injectors per side.

Up to 6 vertical boring groups can be added (see specs for SIGMA 2TA on this & previous page).

VITAP SIGMA 2BR AUTOMATIC THROUGHFEED DRILL

Deriving from the old Elite series, this is a full size automatic throughfeed drill with two horizontal boring groups, multiple bottom vertical boring groups and two or more vertical boring groups from the top. The boring groups movement is by ball screw with electronic digital readouts. Machine is outfitted with a bottom dust conveyor system.

Note: All VITAP boring machines come with a factory guarantee of 0.1 mm accuracy on one meter length (approximately 3 feet).