

new

AUTOTRAK CNC

CNC Controlled Autotrak Template Production System



Autotrak enables Autojig system users to maintain full control over template cost and delivery time with easy on-site manufacturing of stitching templates. The system produces robust, accurate stitching templates (jigs) of proven durability for small or large scale production of precision-made garment components ranging from pocket flaps to jacket foreparts.



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Concept Description

- Autotrak is an apparatus for automatic, precise production of sewing templates (jigs), which are used for profile sewing on the Autojig sewing machine.
- Specialized software which is a part of shipment enables preparing data for automatic template cutting on the Autotrak machine. Initial data in form of the sewing or fabric-cutting shape are supplied as DXF vector file. The software creates an output file in form of CNC machining data; this file is then loaded on a USB flash drive and mediates input data into the Autotrak machine.
- Template cutting data preparation can thus be realized in a clean office environment, while its production is carried out separately in a production workshop.
- Templates can be created in two modes:
 - A) Semi-automatic mode – the basic shape of the template is created automatically and user can define the overall shape of the template according to his/her needs
 - B) Automatic mode – the template cutting data are created automatically based on the input shape
- Autotrak template production machine is a small CNC machining center specially adapted for cutting out shapes from pertinax (phenolic resin sheet) and aluminum. X-Y axis machining ranges are selected so as to be able to cut any template from the smallest to the largest applicable to sewing on the Autojig machine. The machine is also designed to enable a flexible template production (quick material clamping, intuitive operation, quick exchange between pertinax and aluminum cutting, etc.).

Standard Features

- CNC-based machine with robust construction
- router head carriage moves in the X- and Y- directions on hardened steel shafts fitted with linear recirculating ball bushings and driven by ball-screws, giving ultra-smooth, rigid and precise movement ideal for machining the template
- sealed bushings excluding dust for durability and easy maintenance
- router speed is variable to ensure optimal cutting of different materials
- cutter is fully guarded and dust is continuously extracted
- cutting tools and consumable items can be obtained from local stockists, if necessary
- using phenolic resin sheet material and conventional hinges, the proven AMF Reece template construction can be reached



Technical Specifications AUTOTRAK

Maximum jig size	1040x450 mm
Material thickness	max. 5 mm
X, Y, Z drive	DC servomotors
Positioning preciseness	± 0,05 mm
Cut material	pertinax (phenolic resin sheet), aluminum
Jig slot width / Cutter diameter	12.7 mm (1/2 inch)
Dimensions	
Length	1405 mm
Width	740 mm
Height	1360 mm
Weight	approx. 220 kg



Distributor

World

Headquarters AMF Reece CR, s.r.o.

Tovární 837/9c
798 11 Prostějov
Czech Republic

Phone: +420 582 309 275
Fax: +420 582 360 608
E-mail: marketing@amfreece.com

Website: www.amfreece.com