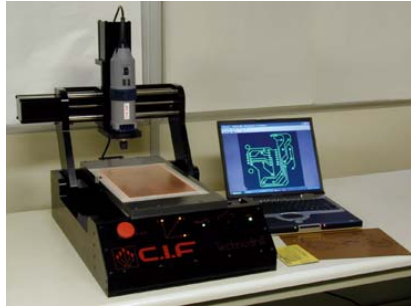


C.I.F.
CIRCUIT IMPRIME FRANCAIS

CNC DRILLING & MILLING MACHINE - TECHNODRILL



Etch, drill and mill Plastic, Metal and Printed Circuit Boards using - TECHNODRILL

With TECHNODRILL, etch, drill and mill plastic, metal and PCBs.
Drilling & milling at high accuracy, PC controlled. Also etches front faces made of aluminium or plastic. TECHNODRILL is the perfect tool to make cutting, etching, drilling, milling and manufacturing.

Description	Item Code
TECHNODRILL	C11 000
Technical characteristics	TECHNODRILL
Axes X, Y, Z	215 x 360 x 90 mm
Plate (working area)	215 x 320 mm
Resolution	0,0025 mm
Repeatability	0,005 mm
Spindle power	900 W
Spindle speed	8000 to 26000 turns/min Chuck 3,17 - 8 mm
Moving speed	50 mm/s maxi
Motor X, Y, Z	Motors step by step 1 / 2 to 1 / 16 steps by adjustable turn (micro step) Ball vice and precise screw
Frequency	Up to 50 KHz
Table	Iron XC48 rectified 0,05
Interpolation	3 axes
Supply	220 V – 50 Hz - 0,8 A
Net weight	64 Kg
Ext. dimensions L x l x H	500 x 720 x 590 mm
Tool positioning	Included
Cover	In option
Delivered with	Software GALAAD 3 (Free updating)
Version	Multi-installations use from network
Minimal configuration	486DX – 50 MHz, 80 Mo RAM up to XP PRO
Description	3D software including « milling » of PCB. Compatible with many machines CAO & CFAO software. Accepts HPGL, ISO, EXCELLON, GERBER, GCODE, DXF files.

Starting kit for TECHNODRILL

- 2 x drilling plywood 200 x 300
- 3 x carbide drill bits \varnothing 0,8 mm queue \varnothing 3,17 mm, length 38mm
- 3 x carbide drill bits \varnothing 1 mm queue \varnothing 3,17 mm, length 38mm
- 1 x carbide drill bit \varnothing 3,17 mm queue \varnothing 3,17 mm, length 38mm
- 1 x milling drill bit \varnothing 3.17 mm for PCBs
- 1 x milling diamond drill bit, \varnothing 2.5 mm for PCBs
- 3 x single sided raw epoxy boards, 16/10th, 35 u, 200 x 300 mm
- 2 x double sided raw epoxy boards, 16/10th, 35 u, 200 x 300 mm
- Martyr plate in PVC 10 mm thick – dimensions 220 x 320 mm

TECHNODRILL is a real 3 axes 3 D system. The software GALAAD 3 is an open software package allowing HPGL, ISO, EXCELLON, GERBER, GCODE, DXF files. The software helps making & milling PCBs.

GALAAD 3

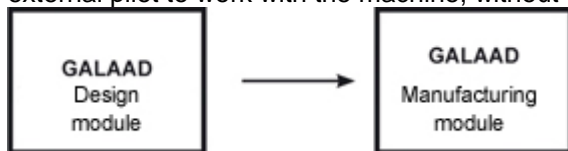
GALAAD 3 is a set of Windows® software packages (95 / 98 / ME / NT / 2000 / XP) dedicated to the **intelligent piloting of numeric controlled machines** from 1 to 5 axes. Thanks to its « all in one » conception, it purposes a complete manufacturing process, and adds supplementary modules for special applications.

From the design to the object, the process includes three steps: **Step 1 drawing of the piece**, thanks to a CAO (Conception Assisted by computer) software 2D, 2D 1/2 or 3D which creates a file giving the conseived geometry, for example HPGL, DXF or other files; **Step 2 definition of the tools distance**, thanks to a FAO (Manufacturing assisted by computer) software which creates the distance the tools will have to make, on ISO G-code file the most frequently used; and at last **Step 3** a CNC (Computerized Numerical Control) software to **pilot the machine**, dedicated to manufacture the required piece according to the produced tools distance.



GALAAD offers those **three steps** in one software package. Offering a module for special drawing, taking into account that the piece to design must be manufactured, and the user can create manufacturing information. The link with the manufacturing part is immediate, which does not need to use intermediary files. From the design module, a simple click launches the manufacturing process with **a machine piloted by GALAAD**.

Galaad is an **open software package**. GALAAD is not necessary for all the steps. You can also use external software in some key-points of the process. So, a design file can be issued from another software package other than GALAAD. The design module can also use an external pilot to work with the machine, without using many files.



Special Application Products Ltd.

Unit 1E, The Gattinets, Hadleigh Road

East Bergholt

Suffolk CO7 6QT

Tel: 01206 299334

Fax: 08701 400163

E-Mail: sales@sapltd.co.uk

Web: www.sapltd.co.uk