Easy access to the control panel. The control pad and the electronic programmer are positioned on a monitor on the left side of the machine. The monitor can rotate 180°.

The G-DRIVE control works within a multitasking environment using an industrial standard PC for programming cutting patterns and for control of the machine. G-DRIVE's innovative feature is that the PC is used not just as the operator's interface (for programming and displaying cutting patterns, alarm signals, diagnostics, etc.), but also a direct control in real time of all the complex machine functions, leaving the PLC as a simple executional tool. Maximum automation; easy to programme; minimum cycle times; diagnostics; simulation; can be networked; colour monitor. Automatic on-line transmission of the cutting patterns (on request) using Giben's optimisation software, Optisave.

Infrared remote control for cycle START/STOP.

G DRIVE

Board data

1 PCS 12.0 MM 3800x2200

Board: 254 Stack height: 1

SESSION Piece-B...........
615 : 2 =1000,0 x1000,0

F3: Job/Pattern/Stack/Batch/Manual

F1: Exec/Hold/Cancel/Simulate/Manual

EXECUTING JOB

Job GIBENAUS Pattern 1

G DRIVE 2D

Board data

1 PCS 12.0 MM

Board: 254 Stack height: 4

PLC OFF-LIN

Loaded:

Job Pat
GIBENAUS

F6: Pusher Speed   30,0 m/min
F3: Job/Pattern/Stack/Batch/Manual
F1: Exec/Hold/Cancel/Simulate/Manual   F10: Main menu/

Software "R.T.G. 2 D" with bidimensional simulation of the machine cycles.
The bidimensional layout of the machine and of the cutting pattern are displayed in scale. During the execution of the cutting cycle, the cutting operations and boards movements are simulated in real time.

Software "R.T.G." with graphical display in scale of cutting patterns. During the cutting cycle it shows the parts being cut.
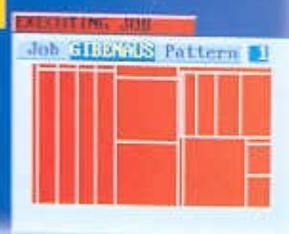
Jobs library.
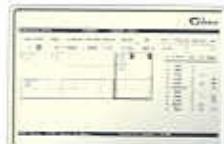
Pattern graphics shown on scale.
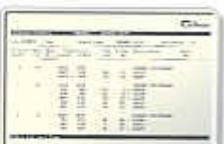
By-pattern summary of parts cut.

Modifications of user defined parameters.

Run time diagnostic in clear text.

Field device status.

TIME 16:16

To load:

SELECT PATTERN

s display

G DRIVE
3D

Board data					PLC OFF-LINE		TIME	
1	PCS	12.0	mm	3800 2200	Loaded:	1	To load:	0
Board:	254	Stack height:	4					

SELECT PATTERN

Job 3800   Pattern 1

F3: Job/Pattern/Stack/Batch/Manual
F1: Exit/Hold/Cancel/Simulate/Manual
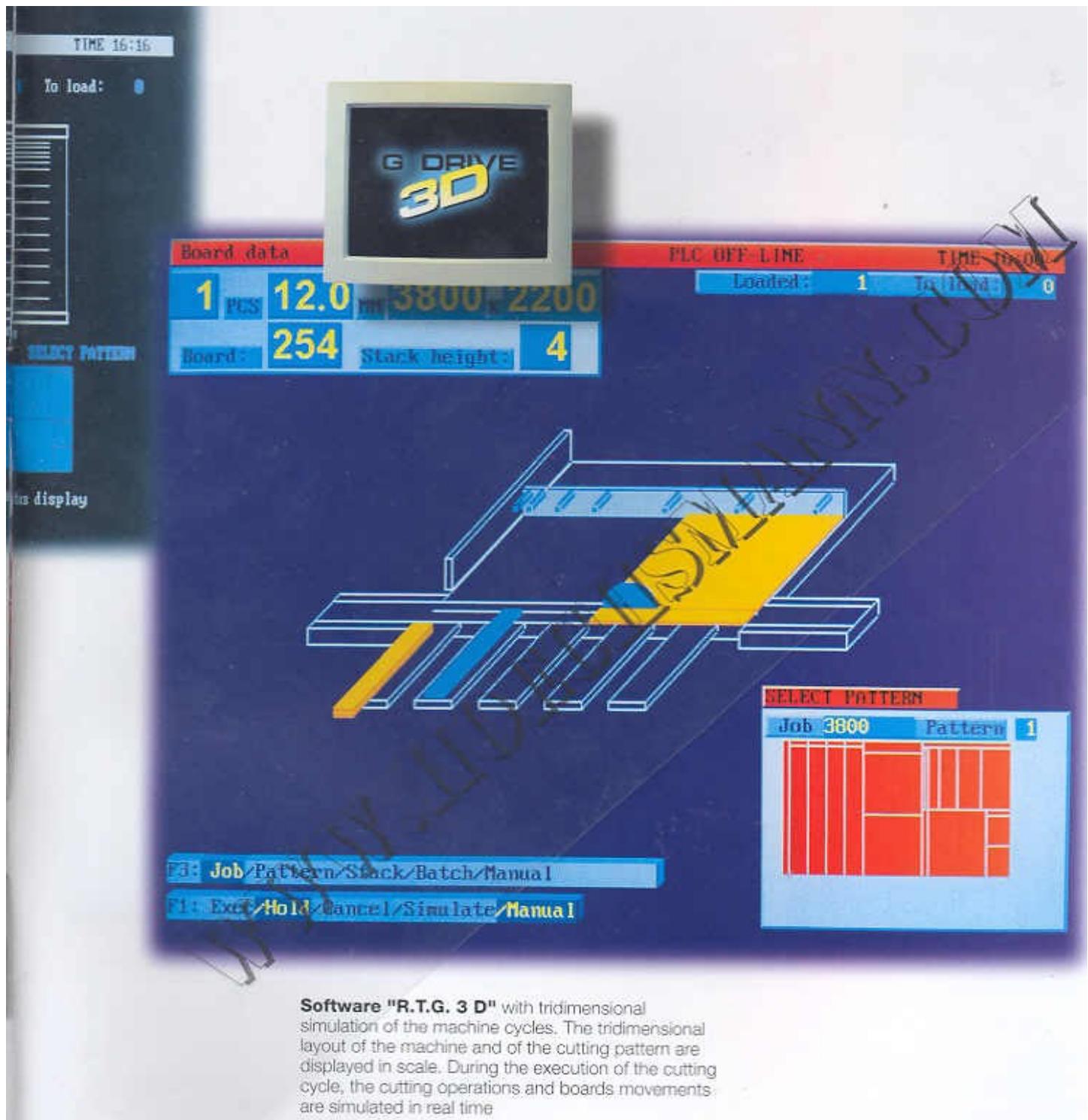
Software "R.T.G. 3 D" with tridimensional
simulation of the machine cycles. The tridimensional
layout of the machine and of the cutting pattern are
displayed in scale. During the execution of the cutting
cycle, the cutting operations and boards movements
are simulated in real time

OPTISAVE, Giben's optimisation software, is a perfect example of Giben's implementation of advanced technology. Optisave provides the best yield cutting patterns, taking into consideration the waste factor, the cost of running the saw, cutting time and the cost of the material being cut. Window menu - on-line connection with the main computer and the machine controller - can be networked - batch processing - label printing in processing order with a bar code - control rest parts of stock records - re-use of rest parts for optimisation - "door" and "strip" optimisation - downloading management - cost calculation.

OFFICE

EDP
Board data
Optimisation Parameter
Machine Parameter
Production list

ON LINE

Main summary
Board list
Cost calculation
Part list
Patterns
Production statistics

FACTORY

Machine controller

Label printing

GIBEN OPTISAVE optimisation software and data transmission to machine control units.

DOOR 600X720X15 Qt.1
SIDE 580X720X18 Qt.2
BOTTOM 600X580X18 Qt.2
REAR 600X720X4 Qt.1

A

720
600 580

DOOR 450X960X15 Qt.2
SIDE 960X320X18 Qt.2
BOTTOM 900X320X18 Qt.1
REAR 960X900X4 Qt.1
TOP 900X320X18 Qt.1

B

960
450 450 320

DOOR 300X720X15 Qt.1
SIDE 320X720X18 Qt.2
BOTTOM 300X320X18 Qt.1
REAR 300X720X4 Qt.1
TOP 300X320X18 Qt.1

C

720
300 320

DECISION QUANTITY FOR CABINET 1,2,3

SPLIT TO LIST N.1, N.2, N.3

LIST 1
DOOR 600X720X15
DOOR 450X960X15
DOOR 300X720X15

LIST 2
SIDE 580X720X18
BOTTOM 600X580X18
SIDE 960X320X18
BOTTOM 900X320X18
TOP

LIST 3
REAR 600X720X4
REAR 960X900X4
REAR 300X720X4

OPTIMISATION LIST 1
CUTTING PATTERN LIST 1

OPTIMISATION LIST 2
CUTTING PATTERN LIST 2

OPTIMISATION LIST 3
CUTTING PATTERN LIST 3

=30 =30 =30
=16 =16 =16
=9   =9   =9

LABELING OFF - LINE

CUTTING OPERATION LABELING ON - LINE

SORTING

CHERRY CHIP

16122 OAK

CHERRY CHIP

Optional on-line label printing.