



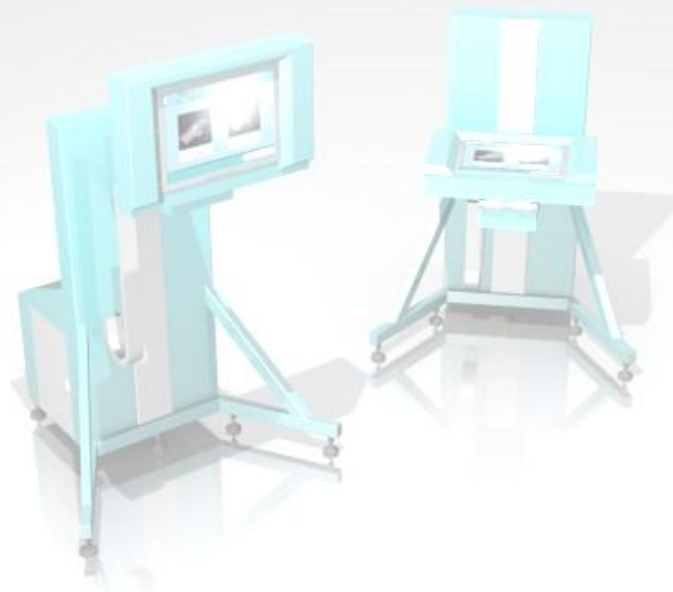
**CS WAVE  
CATALOGUE 2011**

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## 1. TECHNICAL DESCRIPTION

### 1.1 INTRODUCTION

This chapter introduces CS WAVE architecture and its modules.

### 1.2 CS WAVE

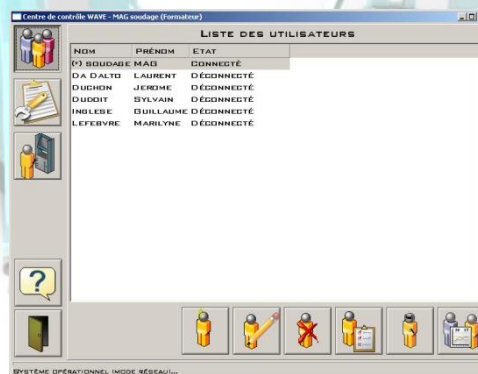
CS WAVE main modules are :

- The welding workbench. This is the main tool to train the welding beginners to the welding motions. It also integrates an educational tool for the analysis of the mistakes.



The Welding workbench can come with 3 different tools associated to the 3 main welding processes : GMAW, SMAW and GTAW.

- The training manager. It can be divided itself in two modules :
  - The training centre. It is the trainer's main tool. It allows him to follow and update the training progressions. It is also a tool for the trainees to consult and analyse their results.



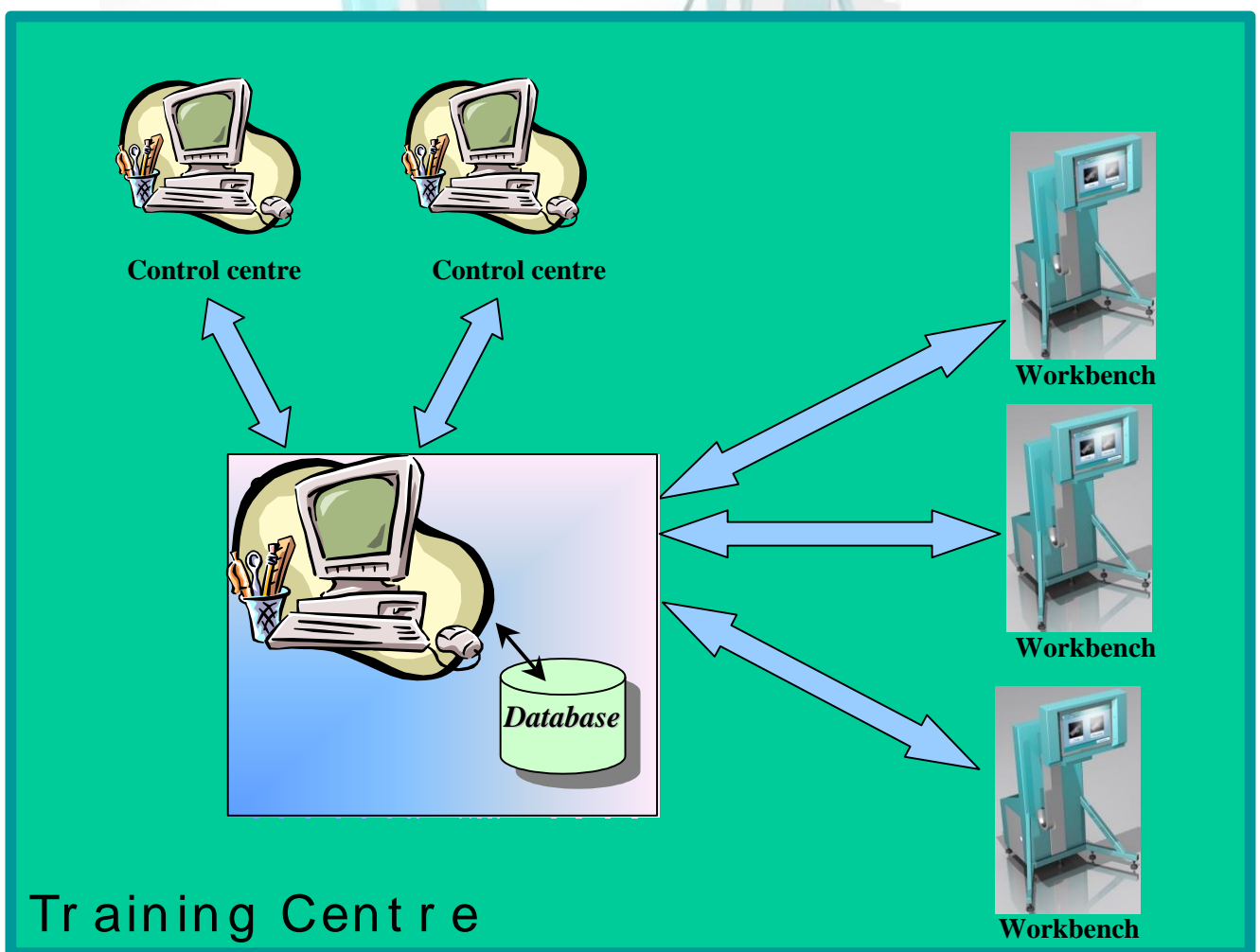
- The server is in charge of the communication between all CS WAVE elements and provides security and storage procedures to ensure data integrity.

These two modules are independent. It is possible to work only with the welding workbench. In that case, follow-up and update of the various training progressions are not possible. In the same way, it is not possible to create various profiles for each trainees.

The server provides information coherences on the various CS WAVE stations. If the workbench can be run without the server, the control centre, on its side, must have access to a server to be used.

### 1.3 ARCHITECTURE

The following schema describes a typical architecture for the integration of CS WAVE in a training centre.



The control centre can be installed either inside the training centre (local network) or outside (global network).

The server and the control centre modules can be installed on existing workstations. Nevertheless, it is highly recommended to install the CS WAVE server on a dedicated computer.

The server software is always provided with the first workbench.

## 1.4 LITE VERSION

The CS WAVE lite version is a portable solution that has the same features as the full workbench. This lite version comes in a suitable case that can be carried by plane, car, train in a convenient way.



Even if this product is designed for marketing actions (shows, demonstration ...), it can also be used by small companies that have several training places.

The LITE version comes with one tool but is designed to receive the other tool. In the same way as the workbench, it can work with the two different processes.



## 2. CATALOGUE

Here are introduced the different packages and module included in our CS WAVE product line.

### 2.1 CS WAVE PACKAGES

Package	
1 CS WAVE workbench + 1 Control Centre license	1 tool GMAW or SMAW
	1 tool GTAW
	2 tools GMAW + SMAW
	2 tools GTAW + GMAW or SMAW
	3 tools GTAW + GMAW + SMAW
1 CS WAVE LITE + 1 Control Centre license + 1 flightcase	1 tool GMAW or SMAW
	1 tool GTAW
	2 tools GMAW + SMAW
	2 tools GTAW + GMAW or SMAW
	3 tools GTAW + GMAW + SMAW

### 2.2 OPTIONS

Module
GMAW or SMAW module (tool + software)
GTAW module (tool + software)
Additional control centre license (1 to 10 by site)
Dedicated PC for CS WAVE Server (Full secured system including : - Computer, flat screen, keyboard, mouse - UPS - Double hard drive).

### **2.3 MAINTENANCE AND GUARANTEE**

All the equipment and software are provided with a one year on-site guarantee service.

An SUPPORT package can be subscribed to extend this service. The cost of this package is equal to 20 % of the modules installed per year.

The guarantee services includes :

- Phone support and maintenance (Helpdesk)
- Software upgrades
- On-site support (For France and neighbouring countries)

### **2.4 ON-SITE INSTALLATION**

A one day installation must be planned for each delivery on each site.

### **2.5 TRAINING**

A training to CS WAVE is recommended by DIGINEXT.

We recommended a 3 days training session with a maximum of 6 attendees.

