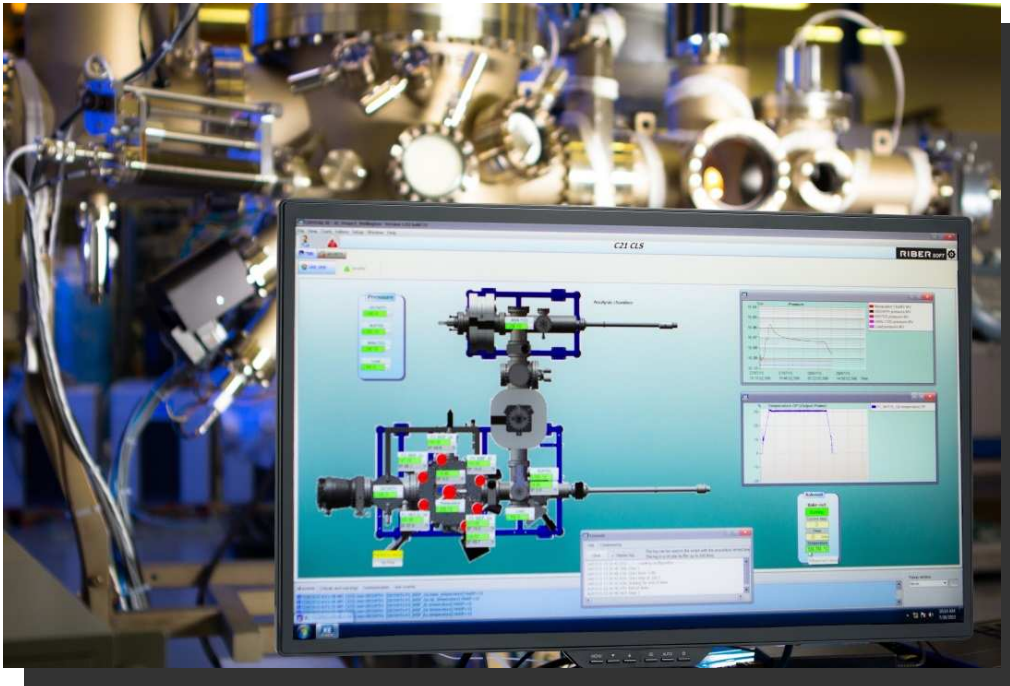


# MBE Process Supervisor CRYSTAL XE

Supervisory Control and Data Acquisition Software for  
Riber MBE Systems



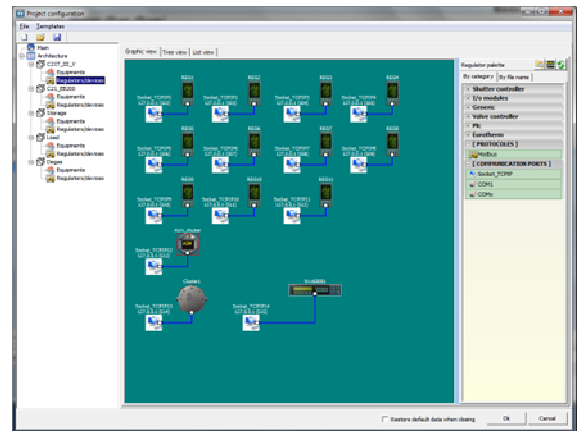
- Reduced time saved on routine tasks
- Intuitive data acquisition
- Structured programming language
- Powerful safety features for a complete peace of mind
- Remote modbus interface
- Recipes, batch, safety and synoptic **implemented by scripts**
- Recipes in real time mode with an accuracy better than 10ms
- Flexibility to share data with other software
- Powerful data saving functions
- Freedom to customize your screen and your system configuration
- Provided with templates and pre-defined visual objects

Crystal XE is the culmination of 26 years of experience in MBE software. It integrates a high quality development environment allowing the final user to write his own automation, custom forms and data acquisition.

## Main Features

- Operating system : XP, WIN7, WIN8, WIN10, 32 and 64 bits
- Only one program: no library, no framework needed, easy installation

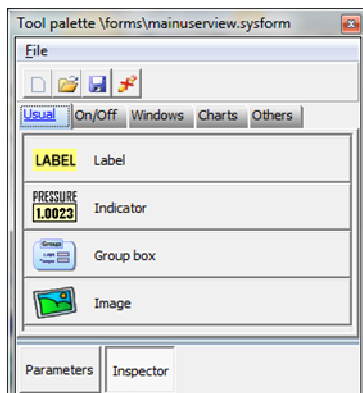
- Graphical hardware configuration
- Drag and drop
- Based on templates
- Provided with templates editors to create user templates



Regulator editor

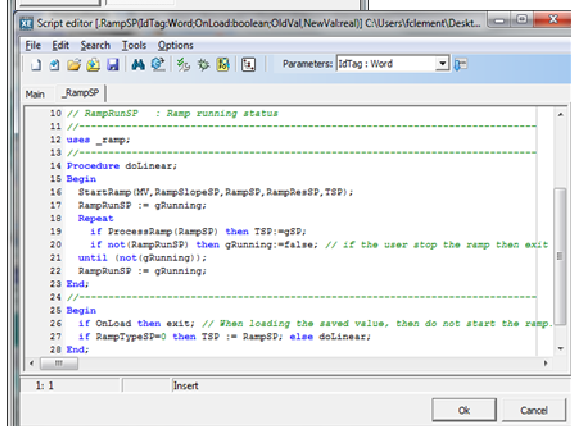
- Customize your screen with predefined objects
- Recipe in real time mode with an accuracy < 10ms
- Modbus server to share all the data with another software (Labview, etc.)

## Write your own automation/HMI with the integrated language



### Pascal Script Development

- Basic and powerful scripting support with mathematical functions, logical functions, file functions (open/save CSV, open forms), email, sms, sound, string manipulation, API functions, timer, array of variables, access to all properties/functions of graphical objects, no limit of code size, no limit of script running at the same time, full multi-task

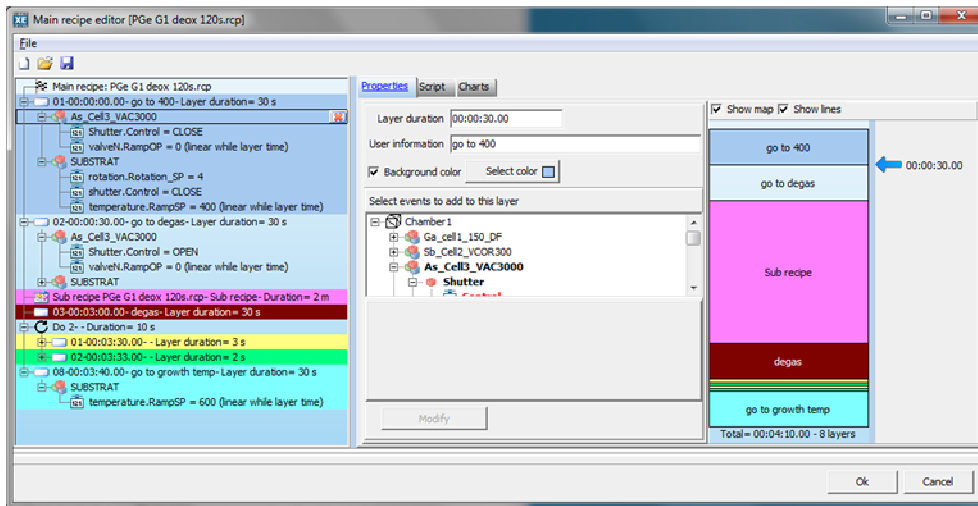


Script editor

- Visual objects: buttons, displays, cursor, comboBox, checkBox, charts, video display, light, picture, etc.

## Main Features

- Two kinds of recipes: script of graphical
- □ The graphical recipe editor generates a script that can be modified
- □ Subrecipes capabilities
- □ Entry point allowing to start the recipe anywhere



## References

- Institute of Semiconductors, Chinese Academy of Sciences, China-Compact 21
- University of Pretoria, Department of Physics, South Africa-Compact 21
- Toshiba, Japan-MBE412
- European Company, Poland-Compact 21
- Middle East Technical University, Turkey-Deposition Chamber
- EDF, France- Deposition Chamber
- MBE Academy of Russia, Russia-Compact 21
- Institute of Semiconductor, Physics, Russia-Compact 21
- TU WIEN, Austria-Compact 21 Cluster
- III-V Lab, France-V100
- Institute of Semiconductors, Chinese Academy of Sciences, China-MBE 412 Cluster
- Naval Research Lab, USA- Compact 21
- University of Wellington, New Zealand-Compact 21
- IMT Bucurest, Romania-Compact 21
- IMM Lecce, Italy-Compact 21
- SSPL, India- Compact 21
- Université de Lorraine, Institut Jean Lamour-Compact 21

### TRIAL LICENCE:

Please contact our customer service to try Crystal XE for free during a trial period: [customerservice@riber.fr](mailto:customerservice@riber.fr)

## TECHNOLOGICAL LEADERSHIP

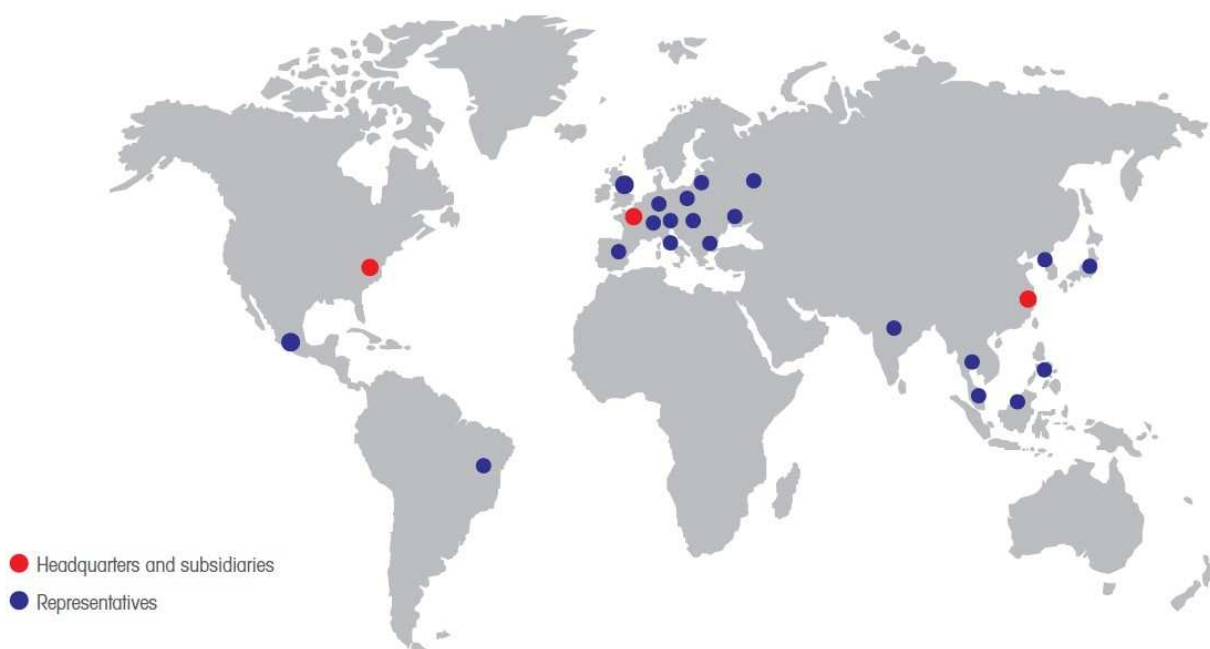
Riber is the world leading supplier of MBE processing equipment and related services.

In total, 750 of our MBE systems have been installed with at least one system in each of the 35 countries with which MBE is involved. This represents 75% of the global market.

Capitalizing on its 30 years of experience, the company's core philosophy is to design systems in close association with customers. Riber has invented and designed major features which are now found in all MBE systems.

Riber plays a key role in the development of MBE technology, providing customers with solutions from equipment to epitaxial growth.

## WORLDWIDE PRESENCE



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