



SPECIAL SOFTWARE

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Make simple what simple isn't. A simplicity that immediately becomes the indispensable prerogative of increasing efficiency. This is the spirit that has always driven companies that produce software for industrial plants and machines. A constantly evolving sector that moves within an increasingly automated production system in which the IT aspect cannot be a negligible item. Software are increasingly the variables that can make the difference, details that can no longer be relegated to a marginal second floor. An ever increasing complexity of calculation and operations that we want to be more and more refined - also in the face of an increasing sectorialisation of the production system - it is important that it is translated into a language that is as simple as possible. A language capable of taking advantage of an increasingly accurate graphic interface for the use and consumption of the largest number of people, even regardless of the different degrees of professionalization. Successfully carrying out this delicate (and complicated) synthesis operation allows an increasing number of companies (and people) to make their production system more and more efficient. A synthesis also able to bring in dowry a significant and decisive reduction of costs to the item waste and error. And that's not all: with software it becomes easier and easier to organize and program production flows allowing optimization of the work and the different times that must elapse between one phase and another. It is therefore difficult to think that companies, more and more accustomed to measuring themselves in a competitive international market, now more than ever, can give up such a spending chapter. Investing in simplicity is worthwhile.





3R SOLUTIONS



Using Software in a smartly-controlled Pipe-shop

The direct costs of pipe-spool pre-fabrication are easy to see. You need the workshop, the machines, and the man-power. The capital and operational expenses for these can easily be identified and calculated.

But the actual shop-floor operations are only a small part of the overall fabrication cycle, and the planning, tracking and documentation of operations are a much larger cost factor. Savings here are harder to quantify, but can be significant. And a streamlined process for these

tasks not only reduces their own costs, but can only reduce costs on the shop-floor itself.

In order to have smooth operations on the shop-floor you need to have the following data:

- What will be fabricated during the shift?
- Which machines / operators will handle which process?
- Is enough material available for all spools?
- Which worker has the necessary qualifications and permits to perform the work?
- How will the material be transported to the machine / work station?
- How long does it take a machine / worker to perform a specific task / process?
- What are the machine parameters for each pipe to cut or to flame cut?

In a conventional pipe-shop much of this information is prepared manually or using Excel sheets, so it can be a time-consuming and man-power intensive process. In addition using hard-copies for your work orders and documentation requires substantial amounts of paper (and space for your documents), so it is not very sustainable.

By using the RAMP workshop control system by 3R solutions you can reduce both the time and the man-power required for planning, tracking and documenting your workshop processes, while at the same time reducing the ecological impact of these operations.

The RAMP software can be used to create optimized work packages, which not only take the actual capacities of the machines into consideration, but can prepare all required instructions and data in a digital format. This can include actual CNC data for operating machines (plasma-cutting, bending, welding), or digital work-sheets for pipe-fitters and welders, which can be sent automatically to their destination



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