

Coil Cut Optimizer used also by S. Polo Lamiere Steel Service Centre

05/Jan/2007

Fast-Square has developed a software to Optimize the Cutting process of Steel with Slitters, Cut-to-Length and Shears. This Italian software house with an English name (www.fast-square.com), has developed a software package (Coil Cut Optimizer) to help Steel and Aluminium Service Centres in planning and optimizing their cutting lines. With CCO you can select, show and filter in a simple interactive way the set of Customer Orders and Coils you want to cut (plan). In few seconds CCO optimizer is capable of automatically build a set of cutting programs that are considered "optimal" according to the criteria (S.Polo Lamiere in this case study) that can be easily configured in the CCO system. The key Optimization Criteria considered are : trim-loss minimization, setup-minimization, complete utilization of Coils, minimization of order fragmentation, cutting-machine scheduling optimization. CCO calculates the "best" cutting-plans without violating any typical constraint of Steel Service Centres like: weight constraints, diameter constraints and maximum allowed number of knives for slitting machines or Customer constraints about width, weight and diameters. CCO implementation in S.Polo Lamiere has confirmed that the software can be integrated with the company information system in few weeks. Afterwards S.Polo's planning experts have used CCO in parallel for some months in order to parametrize and test their specific Optimization Criteria and now all cutting programs are created through CCO. Carlo Vezzosi, head of IT in S.Polo Lamiere has declared: "We have appreciated the flexibility of the software. CCO has been easily configured with our own Optimization Criteria and specific requirements. Ing. Vigano', General Director in S.Polo Lamiere, has declared: "The utilization of CCO is an important step in the reengineering of the complete planning and cutting process of the company." CCO can be easily integrated with other Information Systems like standard ERPs.

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