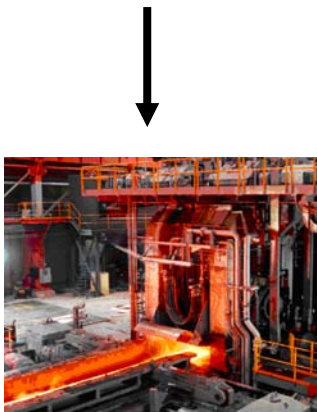
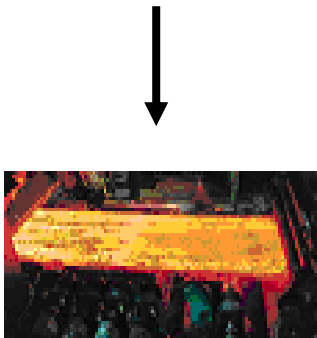
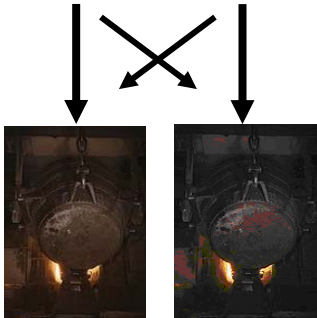


Production Organizer



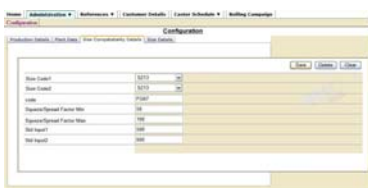
Overview

Production Organizer is focused on delivering value to Steel Industries through streamlined Sales Order Handling, Production Scheduling and integration with lower level machine centre systems (Level2 systems). Customers benefit from better planning based on rules defined resulting in reduced inventory, shorter production lead times, increased productivity and improved customer service

Production Organizer provides decision support to improve efficiency and increase on-time deliveries, and include the following

- ✚ Plant Configuration
- ✚ Order Management
- ✚ Master Production Scheduling
- ✚ Production Management
- ✚ Shipping Distribution
- ✚ Reporting
- ✚ Interface with any Level2 System (or optional modules within Production Organizer) for
 - Equipment Management (Preventive Maintenance)
 - Down Time Management
 - Process Data Input handling
 - Process Data Output handling
- ✚ Laboratory Information Management System (Optional module within Production Organizer)

Plant Configuration

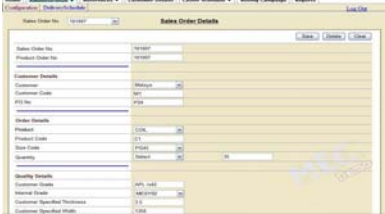


- ✚ Configuration of Plant - Capacity of furnaces, casters, rolling mill etc.
- ✚ Definition of Product Types
- ✚ Definition of Internal Grades
- ✚ Definition of various sizes per Product Type and manufacturing tolerance capability definition
- ✚ Definition of Size and Grade Compatibility



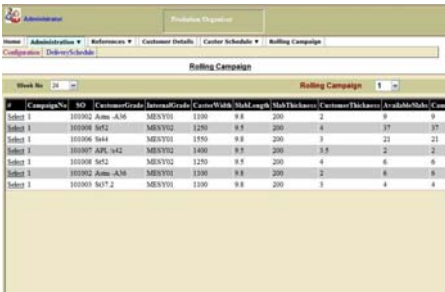
Production Organizer

Order Management



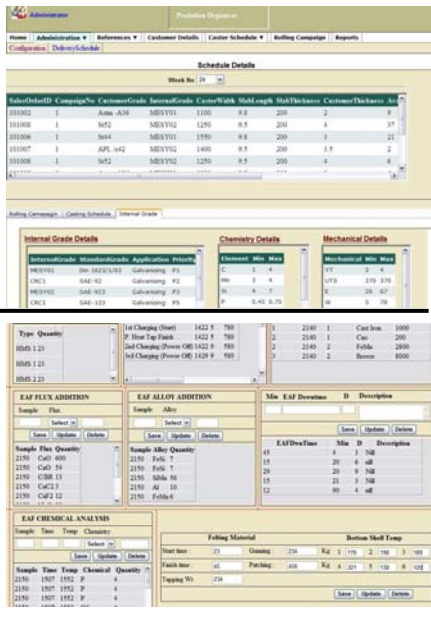
- ✚ Order Entry - Customer PO Number, Product, Tonnage, Number
- ✚ Order Booking - Mapping of customer specified quality specifications with Internal Quality Level, Customer Specified Delivery Schedule
- ✚ Customer grade to internal grade mapping
- ✚ Product Type and Size mapping

Master Production Scheduling



- Scheduling based on predefined constraints and rules
- ✚ EAF Scheduling
- ✚ LF Scheduling
- ✚ Caster Scheduling
- ✚ Rolling Mill Scheduling

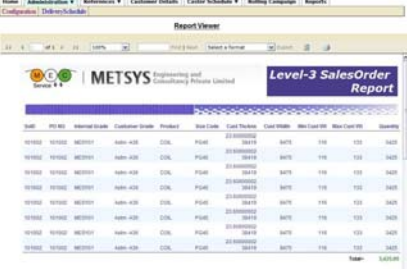
Production Management



- ✚ Production Tracking at EAF, LF, CCM, _Rolling Mill
 - ✚ Tracking Quality at EAF-LF_CCM_Rolling Mill
- Based on unit/equipment capacity and defined constraints between one unit to next proceeding unit
 The Quality Management system provides facilities to monitor and control quality as the product moves between processes and provides the information and that will require either human inspection or intervention from LIMS testing
 Distribution of PDI to Level2 System and acquiring PDO from Level2 System



Production Organizer

Shipping Distribution	
Inventory Management	<ul style="list-style-type: none"> ✚ Flexibility of Classification of finished product as inventory
Operating Principles	<ul style="list-style-type: none"> ✚ Standardisation of Products ✚ Inventory standard ✚ Cost Standard ✚ Quality Standard ✚ Delivery Standard
<p>Reports</p> 	<ul style="list-style-type: none"> ✚ Sales Order Report ✚ Scheduling Reports ✚ Log sheets ✚ Work-in progress summary ✚ Finished Goods summary ✚ Customer wise/grade wise/size wise order Status ✚ Any customised MIS Reports



Production Organizer

Design Principles

- ✚ System design based on Client Server Architecture
- ✚ Database Tables configured with wide flexibility to adapt to customer's defined internal quality system to meet the ISO defined standards.
- ✚ Definition of Sales order identification code, product code, grade code, heat no , slab no , coil no interlinked to monitor the process at every stage of production (Product Genealogy)
- ✚ All quality Standards and parameters are well defined by grouping under defined set of rules during order booking stage. No surprises during production by creating internal grade codes and Quality standards - order booking made more realistic
- ✚ Parameterization to meet best batch sizes at every stages of production.
- ✚ Proper distribution of product mix ensures the achievement of the set goals. This system has been designed to group and classify the orders as per internal set standards at order entry stage so that scheduling is done with precision without overlooking any of the key requirements of the customer.
- ✚ System tables configuration designed in such way that there is no interference required from quality person in re arranging production schedule after order is booked.
- ✚ Standardization of products and process and matching the batch output of one unit with next proceeding unit, results in defined inventory level at all stages
- ✚ Batch sizing and loading of units to its rated capacity not only in terms of quantity but also in terms of quality mix results in higher yield and less diversion, resulting in cost saving
- ✚ Historical data of consumables are used to devise schedule and sequence.
- ✚ System designed to track Product based on more than one key field - by planning order no/ by internal grade/ heat number
- ✚ System designed to track the life of many items - ladle, finishing mill rolls, roughing mill rolls, back up back rolls
- ✚ System designed for configurability and flexibility for continuous improvement by standardisation of product and processes and to take care of any future process requirement in terms of quality, grade , delivery and batch quantity etc...
- ✚ The system designed for data collection from Level2/Level1 system where ever it is feasible and has provision for manual intervention.