



KITARON ERP&MES

W i s e M a n a g e m e n t



KITARON MES



№	№ ПОСЛЕДСТВИЯ				
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10



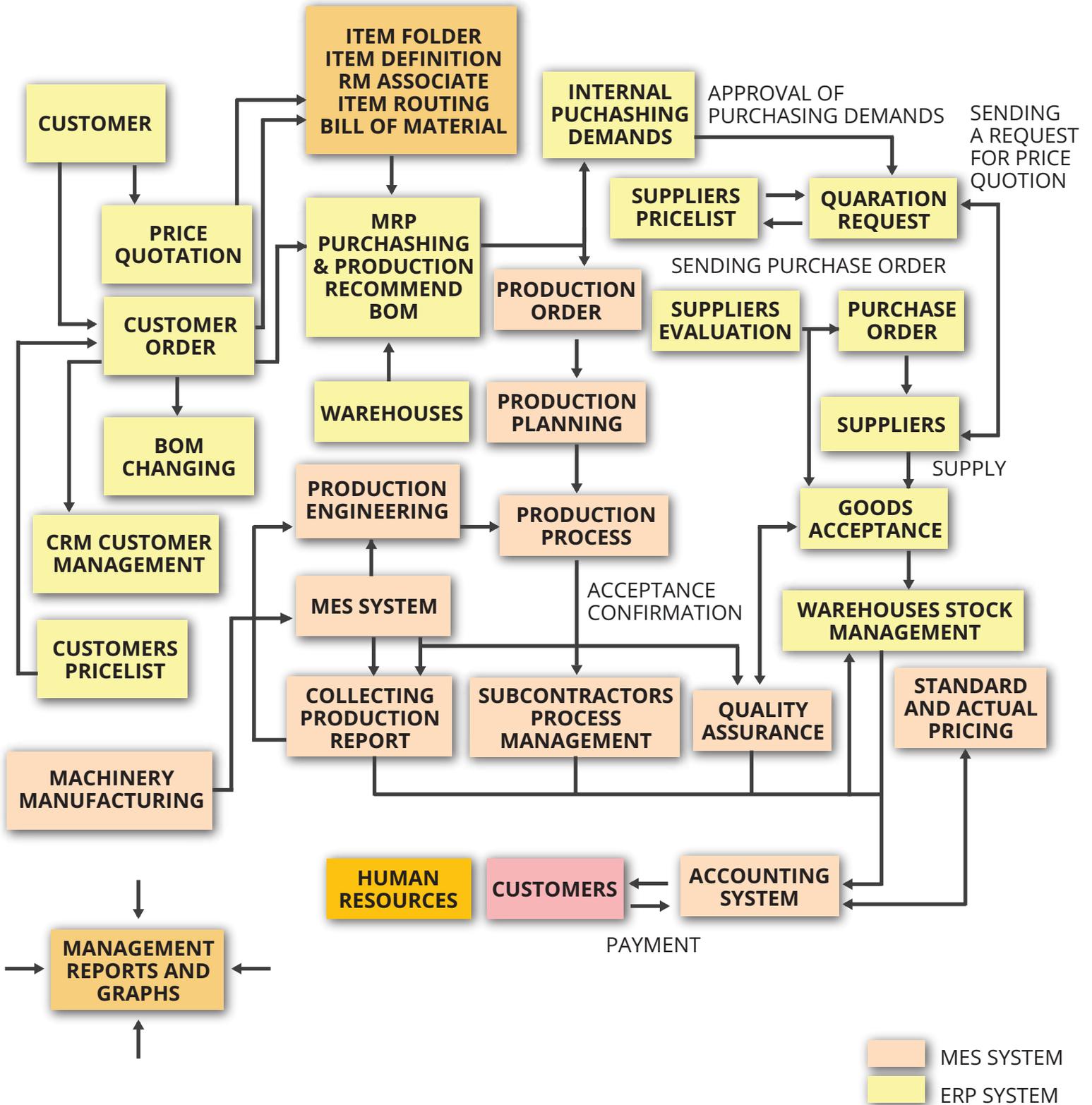
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KITARON – What Is It

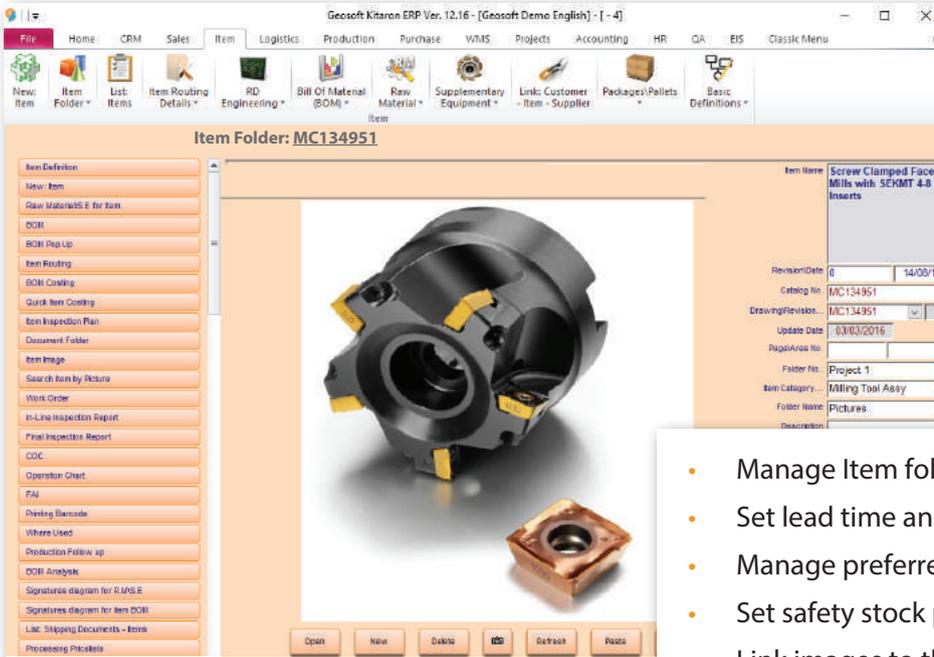
- KITARON is an ERP and MES system.
- KITARON is based on Make to order, Make to stock, Lean manufacturing methods.
- KITARON designed to provide quick and easy solutions for production issues.
- KITARON designed to be flexible to operate and to be fast to implement.
- KITARON designed to provide real time information in Sales, Production, Purchase, Finance, HR, Logistics, WMS, QA and more.
- KITARON can integrate with non Kitaron systems.
- KITARON can integrate with PLC & other production sensor controllers.
- KITARON can integrate with Automatic warehouse systems.

The Uniqueness of KITARON

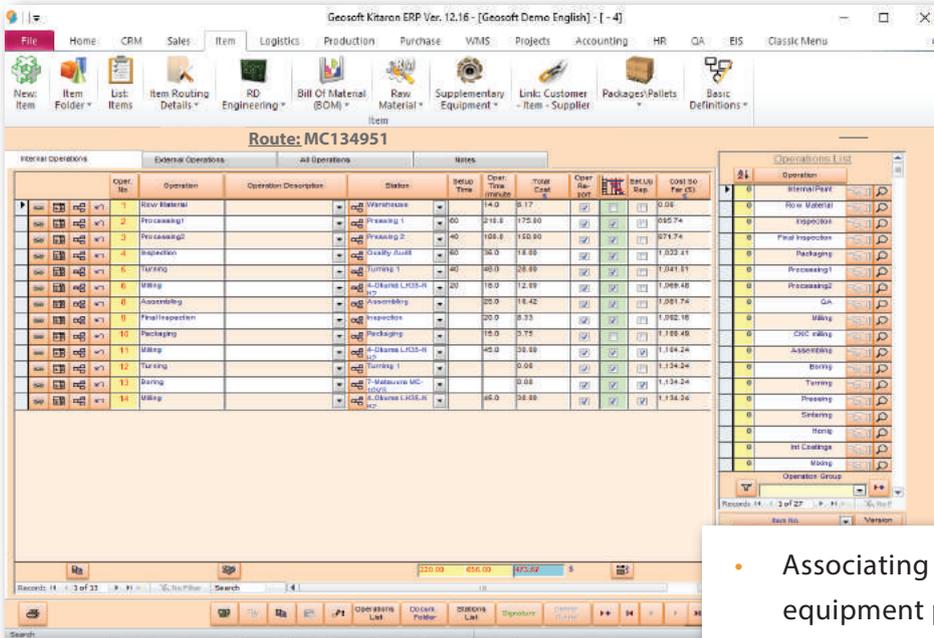
- KITARON is one single information system with a wide range of production solutions that can be achieved using wide range of modules and BI tools.
- Unique tools for managing, monitoring and analyzing manufacturing information.
- Sophisticated Top control and BI tools for managers.
- Management and control of complex Assemblies items.
- Standard and Actual costing control of assemblies.
- Full batch and serial numbers traceability across the system.
- Sophisticated MRPs, to reduce inventory cost and to manage production queue to JIT.
- Finite, inFinit, TOC production planning system.
- Complete Quality Assurance management system that supports Aviation and Medical standards.



Complete and accurate definition of the item (assembly) will bring the entire process to a clear, controlled and profitable state.



- Manage Item folder in detail.
- Set lead time and production time per item.
- Manage preferred warehouse and stock transactions.
- Set safety stock per item and get alert.
- Link images to the item.

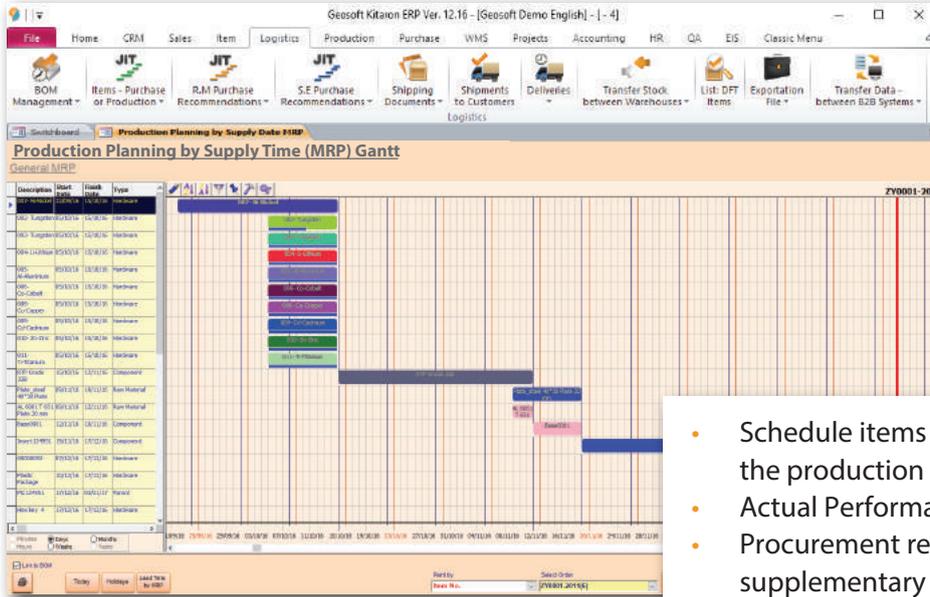


- Associating raw material / supplementary equipment per item
- Define raw material by geometric shape
- Calculate cost of required raw material per unit
- View raw material procurement price
- Calculate moving average price of raw materials in stock

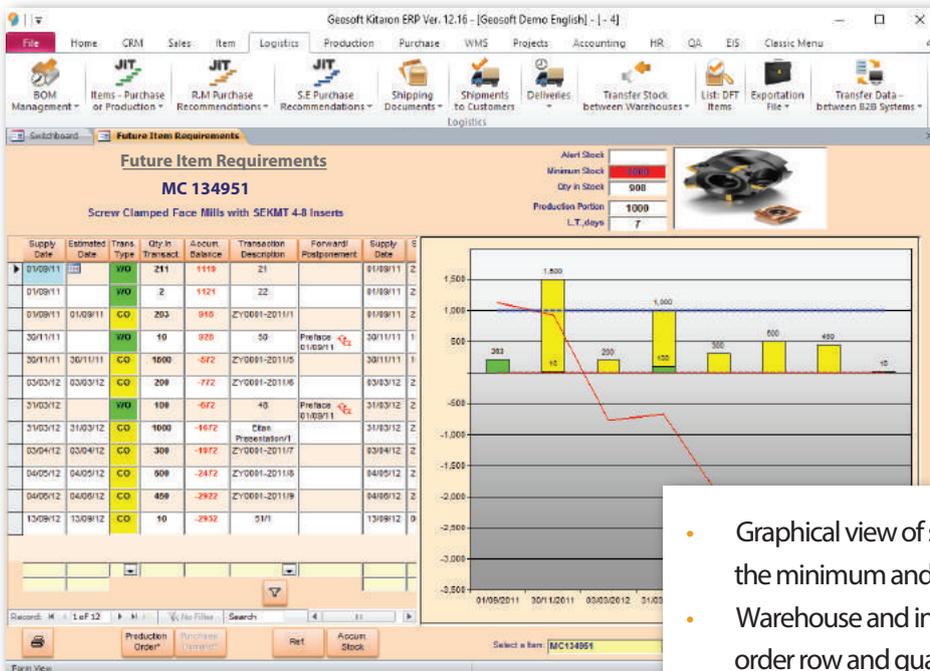
Material Resources Planning - MRP



Control in material planning and scheduling - MRP is the key to reducing inventory and managing production lines up to a level of Just in Time. Effective management and in-depth knowledge will improve both the production efficiency and punctuality of customer order deliveries.

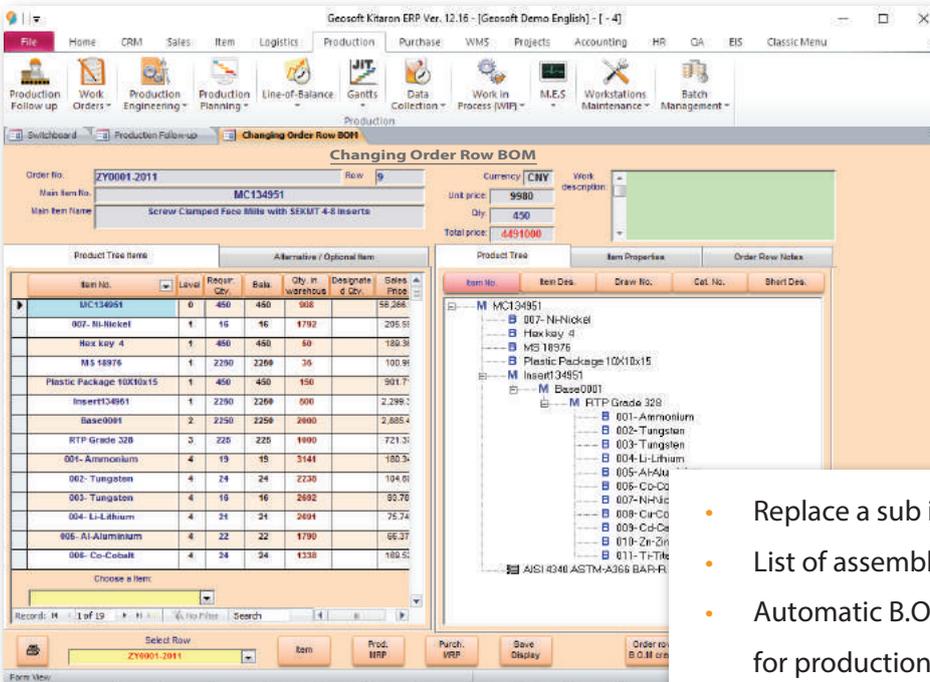


- Schedule items and materials as they are needed for the production without storage (Just in time)
- Actual Performance Planning
- Procurement requirements planning for supplementary equipment according to concentrated method plus order line
- Raw material requirements planning by minimum inventory and order line
- Manage raw materials supplied by the customer

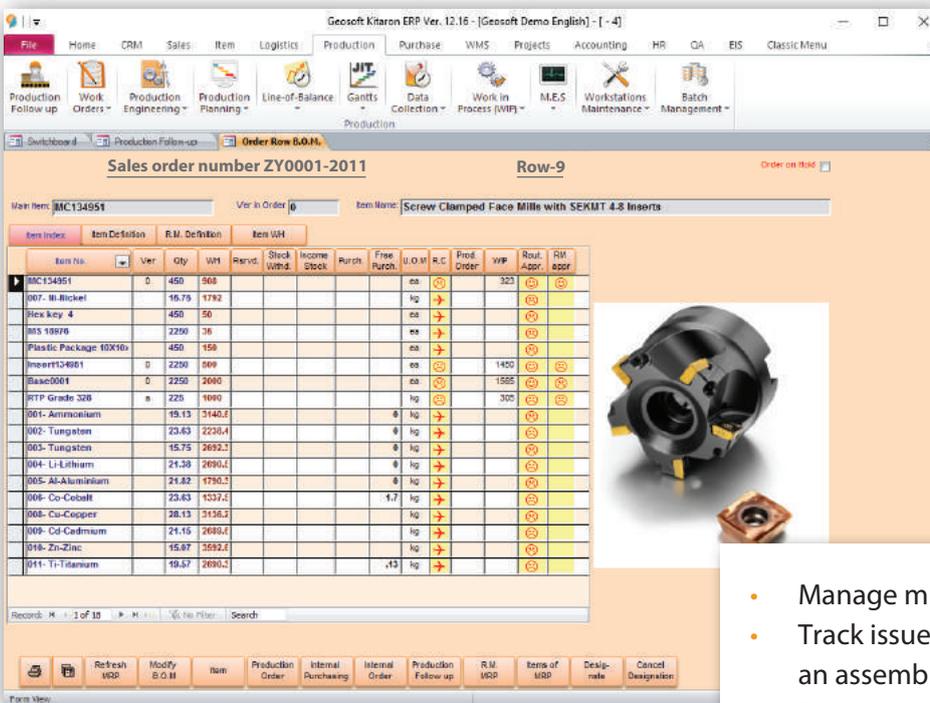


- Graphical view of stock management taking into account the minimum and future inventory movements
- Warehouse and inventory management, including reserved order row and quarantine warehouses
- Option to schedule items outside of the MRP
- Set and manage warehouses that do not participate in MRP
- Track issues to customers and customer warehouses

Managing complex assemblies without appropriate solutions for control and management is the number one cause of inflated inventory, which in turn damages the company's cash flow, causing high financial losses.



- Replace a sub item in all BOM
- List of assemblies (per item)
- Automatic B.O.M withdrawal (from warehouse) for production order, automatic insertion to end of production warehouse

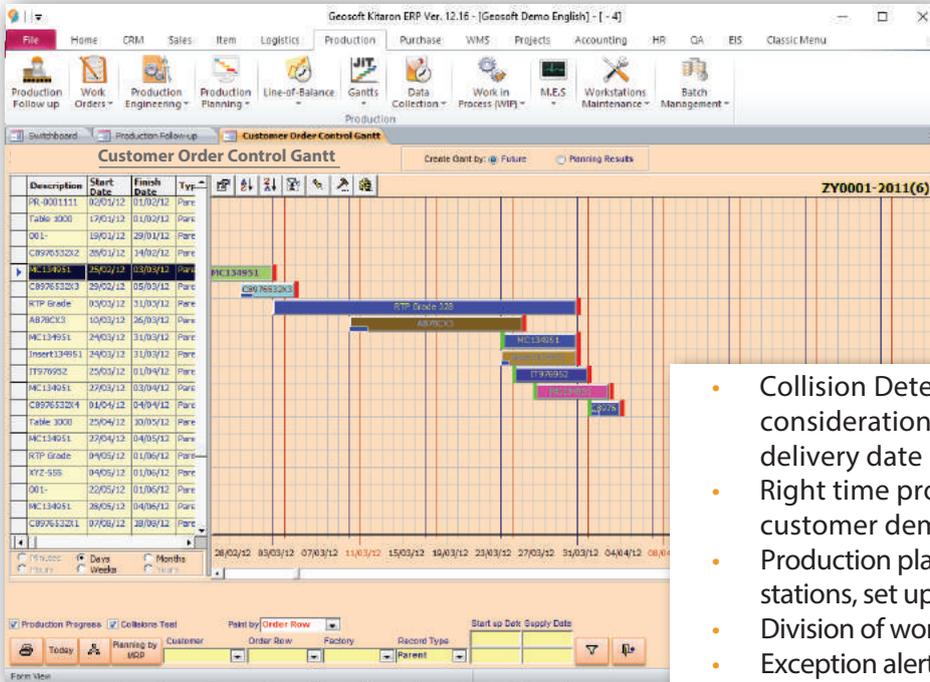


- Manage missing items per assembly
- Track issued child items for production order of an assembly item
- Track issued items by surplus or shortage
- Option to complete missing child items while updating stock

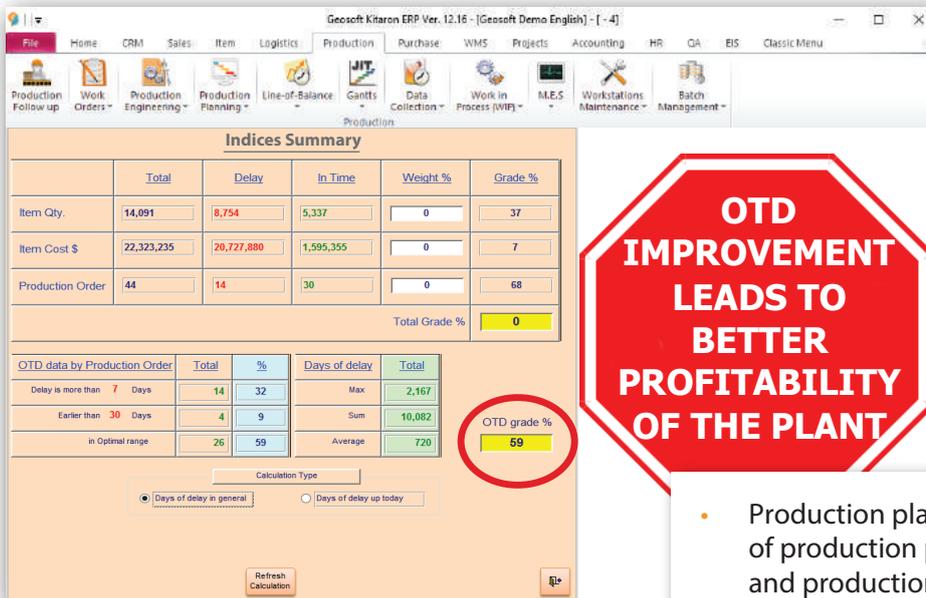
Finite capacity production planning



The ultimate tool for improving productivity and compliance in OTD.
Leads to better profitability of the plant by planning the most effective utilization of existing resources rather than increasing the plant's resources.



- Collision Detection in planning taking into consideration the planned completion date and delivery date
- Right time production scheduling to satisfy customer demand
- Production planning considering the intervals between stations, set up, weekends and holidays
- Division of work between alternative stations
- Exception alerts if there is deadlines at not achieved



OTD IMPROVEMENT LEADS TO BETTER PROFITABILITY OF THE PLANT

- Production planning indices: estimating the quality of production planning by meeting delivery dates and production orders
- Production Planning vs. Performance: Controlling the actual production performance against planned performance in terms of quantity and cost
- Efficiency of production planning: wide dashboard of the results of production planning
- Production planning verse actual efficiency of machines: daily, weekly, monthly

Management and control tools that lead to improved order and discipline in meeting goals, will always also lead to greater success and profitability.

- Report production time, setup and malfunctions
- Collect production time report by Barcode
- Report on the quantity of Accepted / Rejected items at the end of each operation
- Receive measurement data from XYZ machine
- Monitor and control the production floor rejections

- Information about quantity of items in the production order according to the production time report
- Information about production stations while viewing jobs set to produce in real time
- Status follow up and actual overload stations
- Display works according to production planning by stations
- Monitor and control the production process in real-time

Standard Price Control



Costing, Costing, Costing – this is the keyword to a company’s survival in a very competitive market.

Manager’s dream – to understand and retrieve the exact costing of his products.

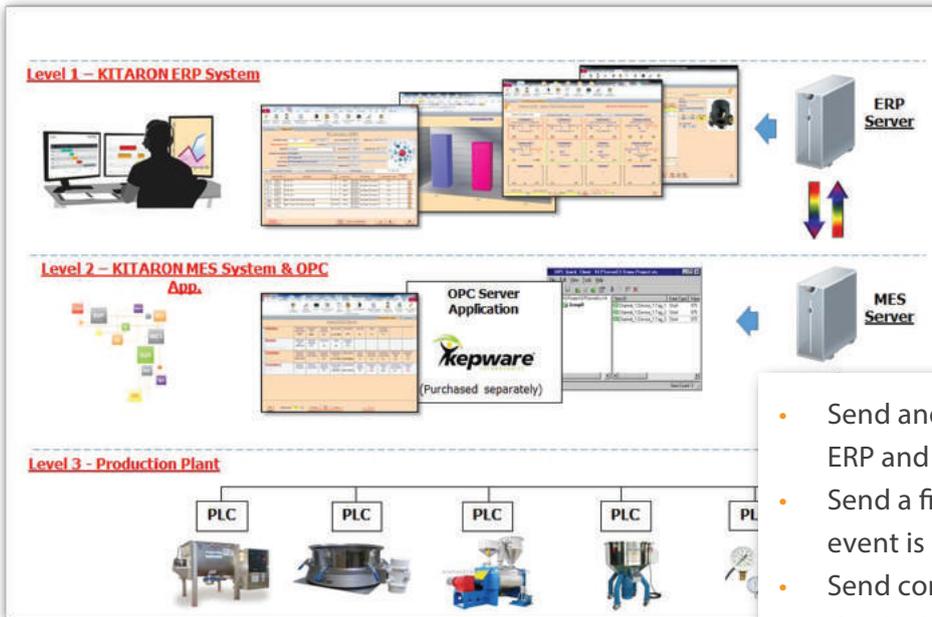
Item No.	Qty	Product	Process	Raw Mat.	S.E.	Item	Item Price	Setup Cost	Par. Status	Item Price	Pricing portion	Versko
MC134951	1	473.97	0.00	324.58	0.00	798.24	1,418.18	3.80	Internal Production	1,448.80	100	0
007- Bl. Nickel	1.025	0.00	0.00	0.00	0.00	5.30	5.70	0.00	Purchas	5.70		
Hex key 4	1	0.00	0.00	0.00	0.00	5.25	5.25	0.00	Purchas	5.25		
M3 11876	6	0.00	0.00	0.00	0.00	14.04	2.34	0.00	Purchas	2.34		
Plastic Package M3110x11	1	0.00	0.00	0.00	0.00	25.00	25.00	0.00	Purchas	25.00		
Insert134951	5	159.58	0.00	0.00	0.00	159.58	63.75	42.82	Internal Production	42.75	100	0
Base001	5	75.00	0.00	0.00	0.00	75.00	0.00	266.80	Internal Production	88.80		
RTP Grade 328	3	113.04	0.00	0.00	0.00	113.04	14.00	0.00	Internal Production	28.00	300	8
001- Aluminium	0.425	0.00	0.00	0.00	0.00	0.11	2.70	0.00	Purchas	5.80		
002- Tungsten	0.525	0.00	0.00	0.00	0.00	0.14	2.60	0.00	Purchas	2.80		
003- Tungsten	0.25	0.00	0.00	0.00	0.00	0.09	2.60	0.00	Purchas	2.60		
004- Li-Lithium	0.475	0.00	0.00	0.00	0.00	0.16	2.40	0.00	Purchas	2.40		
005- Al-Aluminium	0.495	0.00	0.00	0.00	0.00	0.09	1.84	0.00	Purchas	1.84		
006- Co-Cobalt	0.525	0.00	0.00	0.00	0.00	0.23	4.70	0.00	Purchas	4.70		
008- Cu-Copper	0.625	0.00	0.00	0.00	0.00	0.29	4.60	0.00	Purchas	4.60		
009- Cd-Cadmium	0.47	0.00	0.00	0.00	0.00	0.04	0.00	0.00	Purchas	0.00		
010- Zn-Zinc	0.335	0.00	0.00	0.00	0.00	0.13	3.50	0.00	Purchas	3.50		
011- Ti-Titanium	0.435	0.00	0.00	0.00	0.00	0.15	3.40	0.00	Purchas	3.40		

- BOM Costing: Display production costs, processes, raw material, hardware
- Calculate item price whilst considering the portion and setup costs
- Estimate the item standard price including mark up percent
- Follow historical costing of the item

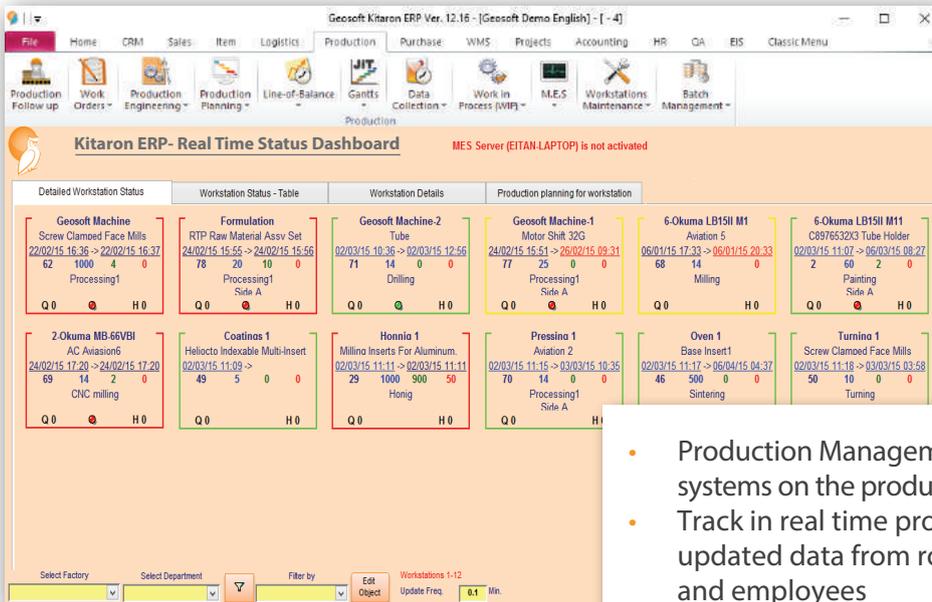
	Standard	In actual by WH	Purchasing
Raw Material Cost	0.00	0.00	0.00
Hardware Cost	618.36	0.00	0.00
Bus Items Cost	0.00	0.00	0.00
Tools and Equipment Cost	0.00	0.00	0.00
External Processes Cost	0.00	0.00	0.00
Setup Cost	213.73	0.00	0.00
Internal Production Cost	139,566.74	0.00	0.00
Produced Items Cost	0.00	0.00	0.00
Rejection Cost	0.00	0.00	0.00
General Purchasing Cost	0.00	0.00	0.00
Total Row Cost	140,439	0	0
Items Quantity	2,000		
Sales Price	70.25		
G.P. (%)	-10.15		

- Calculate the value of “Cost so Far” in the Item routing
- Display value of “Cost so Far” in the MRP report
- Automatic updates of standard costs, by routing data, last purchase and last invoice

Production machinery is a very valuable resource having a dominant effect on a company's profitability and longevity. M.E.S provides management and control systems that increase the utilization of machinery in percentage terms and in doing so improve the company's profitability.



- Send and receive data between Kitaron ERP and OPC Server
- Send a file by machine parameters when an event is defined
- Send commands to the machine by moving the OPC server tags
- Display History of the commands sent to the OPC server



- Production Management MES - Command and control systems on the production floor processes
- Track in real time production data by receiving updated data from robots, machines and employees
- Collect production data in a central database received directly from the machines
- Connect Kitaron ERP system to the machine controllers
- Manage a list of connecting means to the machine (PLCs)

Project Management



Project management is a tool that enables the control of all tasks that are not necessarily production related such as new product development, moving premises, marketing campaign planning. In addition, it can also be used to merge and monitor separate orders.

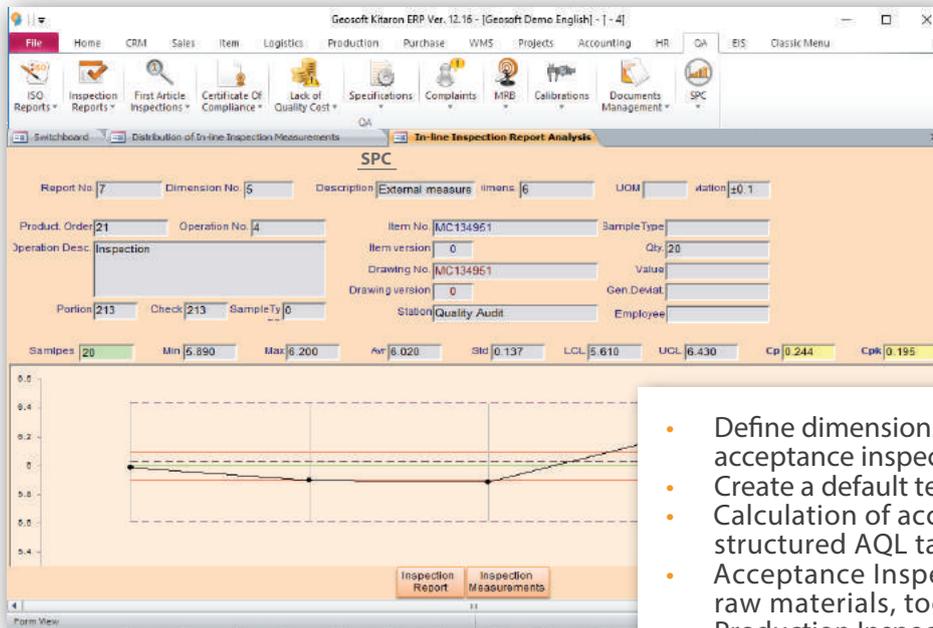
Order No.	Row No.	Item No.	Var.	Est. Date	Supply Date	Qty	Bal	Stand. Qty	Customer Name
01001-2011	1	MC134851	0	31/03/12	31/03/12	1000	1000	1,193.42	Cztingsten Ltd
01001-2011	2	Insert134851	0	31/03/12	31/03/12	1000	1000	23,226.0	Cztingsten Ltd
01001-2011	3	MC647874	0	18/12/12	01/03/12	25	25	523.63	Cztingsten Ltd
01001-2011	4	IT978952	0	01/04/12	01/04/12	30	30	14,335.3	Cztingsten Ltd
01001-2011	5	MC134851	0	30/11/11	30/11/11	1500	1500	1,790.02	Cztingsten Ltd
01001-2011	6	MC134851	0	03/03/12	03/03/12	200	200	234,857	Cztingsten Ltd
01001-2011	7	MC134851	0	03/04/12	03/04/12	300	300	354,178	Cztingsten Ltd
01001-2011	8	MC134851	0	04/04/12	04/04/12	500	500		Cztingsten Ltd
01001-2011	9	MC134851	0	04/04/12	04/04/12	400	400		Cztingsten Ltd
01001-2011	10	Insert134851	0	01/03/12	01/03/12	200	200		Cztingsten Ltd

- Manage several customer orders in one project
- Define project routing
- Automatic calculation of the starting and ending date for routing operations
- Project Management by BOM layout
- Production follow up according to the project's BOM
- Associate employees to a project

Operation	Start Date	Finish Date	Step
Set the	02/09/11	18/09/11	
Building a	18/09/11	29/09/11	
Concept	01/10/11	09/10/11	
Patent	29/09/11	05/10/11	
Prototype	29/09/11	09/10/11	
Model	08/10/11	17/10/11	
Building a	06/10/11	21/10/11	
Making testing	10/10/11	23/10/11	
Approval	19/10/11	29/10/11	

- Display Gantt according to routing project scheduling
- Display Gantt in different colors: number of project, operation, customer, operation name or project name
- Display project progress on operations in the Gantt

High product quality is the key to building satisfied long term customers. Product quality with stability processes improve the plant profitability through reducing customer complaints, goods returns, etc.



- Define dimensions for production inspection and acceptance inspection
- Create a default template of measurements list
- Calculation of acceptance sampling, including structured AQL tables
- Acceptance Inspection Report for Items, raw materials, tools, etc.
- Production Inspection Report according to production operation
- Document Inspection Report result for the serial number of the item
- Final Inspection Report for portion
- Display exceptions measurements on the Inspection reports

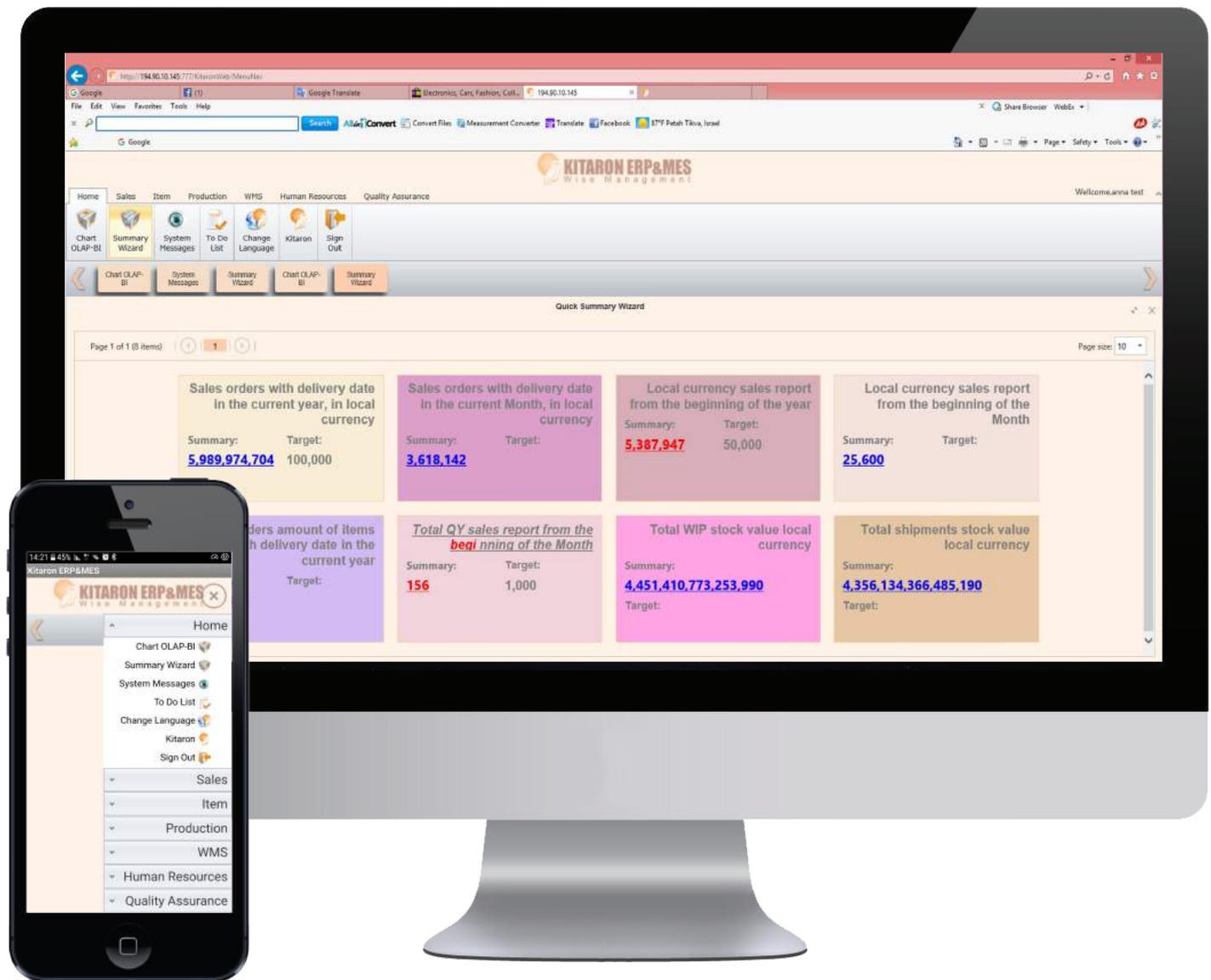
No.	Dimension Description	Dim Code	Value	Value Code	Unit	Deviation	Measuring Tool	Measured-1	Measured-2	Measured-3	Measured-4	Measured-5	Tool Catalog No.	Degree of Importance
1	External measure	14				±0.1	KVZ	14	13.5	13.99	4.603	4		Major
2	External measure	5				±0.1	Caliber	5	5	5	6.005	5		Critical
3	Internal measure	5				±0.1	Caliber	5.2	5.1	5.001	5.13	5		Major
4	Degree of depth	4				±0.2	KVZ	4.2	4.25	4.3	4			Major
5	External measure	5				±0.1	Caliber	5	5	5	5			Major

- SPC statistical process control, control chart, process capability indices (Cp, Cpk)
- Variability Graph of dimension
- Manage and follow up the rejections reports and rejection causes report
- Manage correspondence with customer through "question - answer" form
- Manage service calls / customer complaints including calculating working times and costs
- Replace items mechanism following complaint from a customer

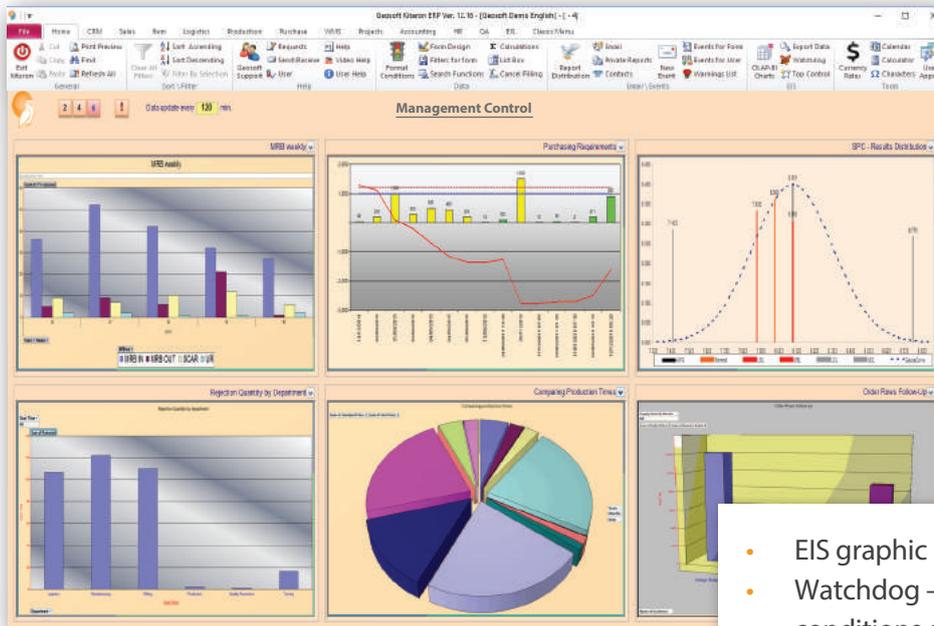
Customer Management (CRM) and suppliers



WEB access to import and read online data directly from the ERP.



Managing a factory without effective monitoring and control systems is like trying to produce items without raw material.



- EIS graphic system for data analysis
- Watchdog – Create queries, receive an alert when conditions exists
- Full permissions user system
- OLAP-BI - Analysis and Control by the system data on all modules with multi-dimensional system
- Personal shortcuts menu leading to selected documents

Order	Message	Importance Level	Date of update	Public/Private	Pop Up
KK	Employee Curses Qualification - Expired	Emergency	04/04/13 17:41:30	Private	<input type="checkbox"/>
KK	Rejection on the last 2 days ago	Regular	04/04/13 17:41:30	Public	<input checked="" type="checkbox"/>
KK	Collection Report - 10 days belated in payment	Urgent	04/04/13 17:41:30	Public	<input checked="" type="checkbox"/>
KK	Production orders delays over 20 days	Emergency	04/04/13 17:41:30	Private	<input checked="" type="checkbox"/>
KK	Stock down form minimum quantity	Emergency	04/04/13 17:41:30	Private	<input type="checkbox"/>
KK	Purch. orders with more than 5 days of delay 1	Regular	04/04/13 17:41:30	Public	<input type="checkbox"/>
KK	Purch. orders with more than 5 days of delay	Emergency	04/04/13 17:41:30	Public	<input type="checkbox"/>
KK	Inventory with no transfers since more than 180 days	Emergency	04/04/13 17:41:30	Public	<input type="checkbox"/>
KK	Customer's accounting code is not defined	Urgent	04/04/13 17:41:30	Public	<input type="checkbox"/>

- System search tool, advanced sorting and filtering
- Minutes of Meeting and follow up
- Electronic signatures tree structure
- Currency rates auto update
- Reports Generator: allows the organization to develop own reports using Access app
- Built-in barcode system plus printing documents and labels



Production Order 21

Batch No.: MC-001-XX1
Supply Date: 01/09/11
Folder No.: 0




Notes

Item No.: MC134951	Rev: 0	Prog.Path:	Draw. Rev: 0	Stock: 998	Work Order: 27
Screw Clamped Face Mills with SEKMT 4-8 Inserts					
Drawing No: MC134951					
Customer Name	Cust. Order No.	Raw	Qty.	Balance	Supply Date
Czarnogóra Ltd	ZY001-2011	1	215	203	01/09/11
Contact Person					
Qty. for Production: 213 Total Qty.: 213 Qty. in Order: 215					
C.O.C No.:	R.M Cut. Instruction		R.M Cut. Dimen.		
Portion No.:	Date: 30/08/11	R.M AISI H21 ASTM-A368 BAR-R. 140x80x140 mm		Length: 1400 mm	
Therm. State:	Inspector	Raw Material Default Supplier		Width: 80 mm	
R.M Instruct.		Qty in R.M: 10	R.M for P.O: 22	Items Qty. in Cut: 1	R.M Qty. for cutting: 213
				Rolling Direction:	

Operat. No.	Station/Supplier	Operation Description	Qty.	Done by	Set Up Prod.	Signat. Date
1	Warehouse	Row Material	172	Biden Joe	15.00	30/08/11
	Pressing 1	Processing 1	135	Madison James	12.00	30/08/11

Location of Program: Y:\geosoft\Demo\Pictures\EnDNC\MC134951_002_Processing_1\8 Okuma_MB-66VB1.docx

Routing confirmed by: Admin Geosoft
Checked by: Admin Geosoft
Confirmed by: Admin Geosoft

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Final Review Report

REPORT NO.: MC134951
Rev: 0
DRAW NO. REV: MC134951

REVIEW PHASE/TYPE

P.O. NO.: 21
Milling and Turning Ltd
SUPPLIER DEF: Czarnogóra Ltd

Inspected Face Mills with SEKMT 4-8
Item DESCRIPTION: 0
DRAW NO. REV: MC134951

QUANTITY: 20
REJECTED: 0
ACCEPTED: 20
TOTAL: 20

G.DEV CONTACT CUSTOMER ORDER NO. SAMPLE BY...

INSPECTION		PLANNING:		SIGNATURE		NAME		DATE	
NO.	Attribute LOCATION	REQUIRED	CHARACTERISTIC ACTUAL	Test Equip /Method	Quantity	SUSPECTED	ACCEPTED	REJECT	Remarks
1.00	External measure	14±0.01	1-14.8	Maj	Measuring instrument	5	5	0	
2.00	External measure	8±0.1	7.01-8.9	Cut	Visual	5	5	0	
3.00	Internal measure	5±0.1	4.6-5.35	Maj	Manual	5	5	0	
4.00	Degree of depth	4±0.2	3.5-4.5	Min	Manual	5	5	0	
4.00	Degree of depth	4±0.2	3.5-4.5	Min	Manual	5	5	0	
5.00	External measure	6±0.1	5.89-6.2	Min	Caliper	5	5	0	

REMARKS

DOCUMENTS ISSUED BASED ON THIS REPORT:

CONCLUSIVE REMARKS

Edited: Admin Geosoft
Checked: Admin Geosoft
Confirmed: Admin Geosoft

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Production Planning by Station

Station: Packaging

Prio	Item No.	Qty.	Setup Time	Prod.ord. SupplDate	Remarks	StartupDate	FinishDate	Picture
	C8976532X1	11	0.0	31				
	C8976532X1 Tube Holder	5.0	18/08/12					
	RTP Grade 328	5		42		23/09/12 08:00		
	RTP Raw Material Assy Set 328	10.0	01/06/12			23/09/12 08:50		
	Base0001	500		46		26/09/12 09:03		
	Base Insert1	5.0	30/09/12			02/10/12 06:43		
	C8976532X3	58	0.0	2		22/10/12 08:20		
	C8976532X3 Tube Holder	5.0	05/03/12			22/10/12 14:10		
	C8976532X3	34	0.0	1		22/10/12 10:40		
	C8976532X3 Tube Holder	5.0	26/03/12			22/10/12 13:30		
	RTP Grade 328	100		27		22/10/12 12:10		
	RTP Raw Material Assy Set 328	10.0	05/08/11			24/10/12 06:50		
	Base0001	1005		25		01/11/12 09:14		
	Base Insert1	5.0	01/09/11			13/11/12 10:02		
	RTP Grade 328	100		28		11/11/12 08:10		
	RTP Raw Material Assy Set 328	10.0	31/03/12			12/11/12 13:50		
	Insert134951	300		45		27/11/12 09:03		
	Milling Inserts For Aluminum, S.S., High Temp Alloys	5.0	30/09/12			05/12/12 06:43		
	MC134951	2		22		28/11/12 07:18		
	Screw Clamped Face Mills with SEKMT 4-8 Inserts	5.0	01/09/11			28/11/12 07:55		

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Station Capacity Time Weekly

Factory Rainbow

Station	14	13	12	11	10	9	8	7	6	5	4	3	2
2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013
Development	55	55	55	55	55	55	55	55	55	55	55	55	55
Department Aver.	55	55	55	55	55	55	55	55	55	55	55	55	55

Department Engineering

Station	14	13	12	11	10	9	8	7	6	5	4	3	2
2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013
Planning	55	55	55	55	55	55	55	55	55	55	55	55	55
Department Aver.	55	55	55	55	55	55	55	55	55	55	55	55	55

Department Grinding

Station	14	13	12	11	10	9	8	7	6	5	4	3	2
2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013
1-Okuma MB-66VB	55	55	55	55	55	55	55	55	55	55	55	55	55
2-Okuma MB-66VB	85	85	85	85	85	85	85	85	85	85	85	85	85
Department Aver.	70	70	70	70	70	70	70	70	70	70	70	70	70

Department Logistics

Station	14	13	12	11	10	9	8	7	6	5	4	3	2
2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013
RM Warehouse	45	45	45	45	45	45	45	45	45	45	45	45	45
Warehouse	55	55	55	55	55	55	55	55	55	55	55	55	55
Department Aver.	50	50	50	50	50	50	50	50	50	50	50	50	50

Department Management

Station	14	13	12	11	10	9	8	7	6	5	4	3	2
2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013
Tolin	55	55	55	55	55	55	55	55	55	55	55	55	55

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Before purchasing an ERP system the following question should be asked:

“Where is the big money in the organization?”

It is no secret that in a manufacturing plant the money is on the production floor. Therefore, it is critical to select a system specializing in managing manufacturing plants in general and in managing the production floor in particular.

The combination of Kitaron ERP system + MES system allows for direct control of production processes and machinery, improved performance, reduced cycle times, and ensures the supply of better quality products on a timely basis!

All In One Kitaron ERP&MES

Specialization:

Specializes in managing various manufacturing plants, by understanding the complex processes on the production floor.

Simplicity:

Simple and convenient user interface, allows users to keep pace with the fast-moving changes within the organization.

Efficiency:

Enables maximum efficiency and effectiveness in decision making.

Flexibility:

Suitable as an off the shelf product for various kinds of manufacturing plants.

Compatibility:

Suitable to the unique needs of various manufacturing plants.

Implementation Cost and Time:

Kitaron ERP&MES system can be implemented in a very short time and, therefore, at low costs.

Control tools:

Offers a high management standard for monitoring and supervising organizational information.

Customer Service:

Company support 24/7 to give customers fast, quality and professional service.

Knowledge and experience in the industry:

Leading in production management in Israel! The company has over 3000 users in Israel

Leading technology:

Kitaron ERP&MES is developed using the latest Microsoft technologies.

User-friendly:

Kitaron ERP&MES allows you to use Microsoft Office tools.

Flexible System:

Kitaron ERP&MES gives the customer full control over the processes and the system settings.

Kitaron ERP&MES

Streamlining and improving the production processes

ALL IN ONE KITARON ERP&MES



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Wise Management

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