



KITARON ERP&MES

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



KITARON MES





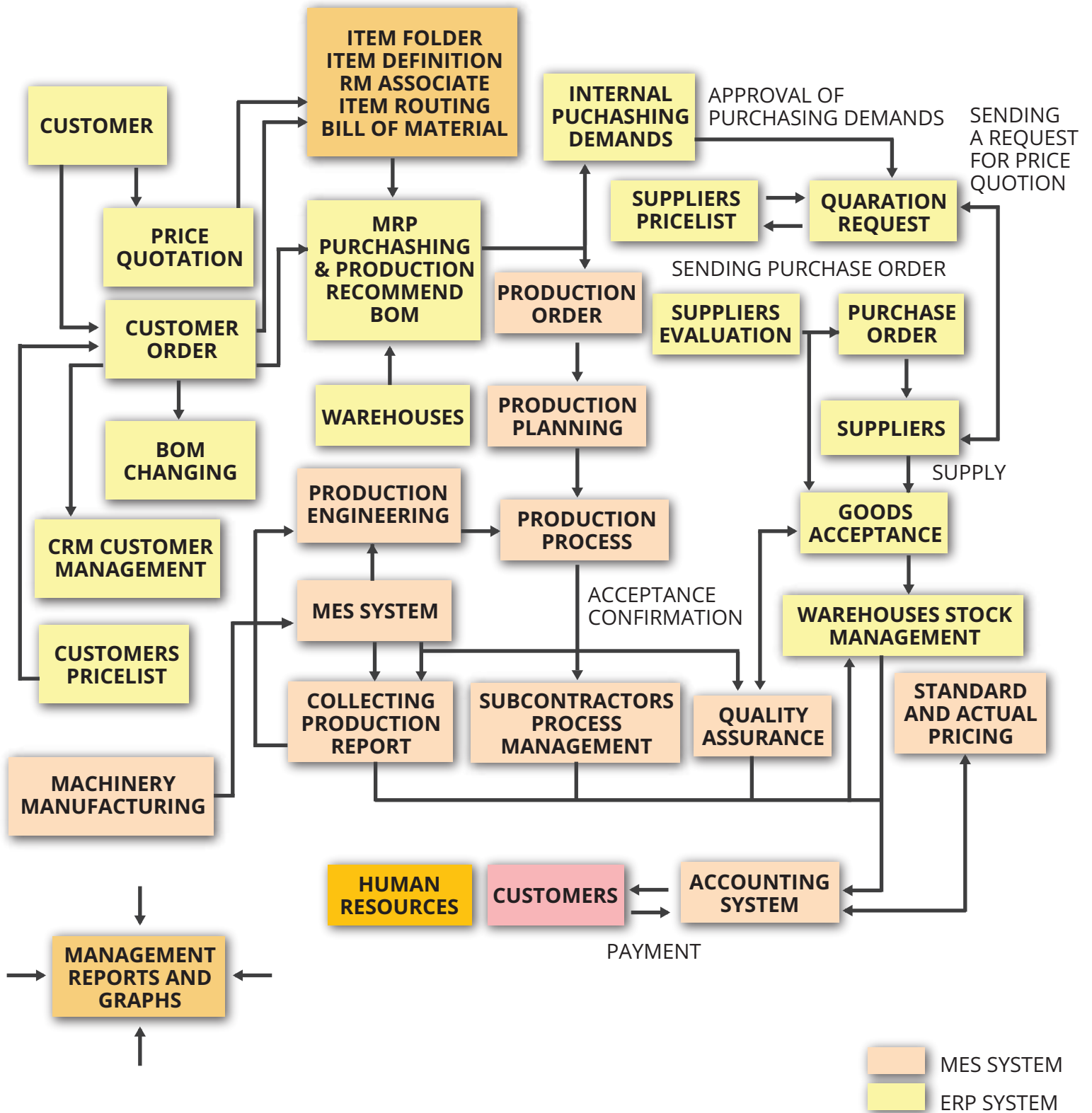
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KITARON – What Is It

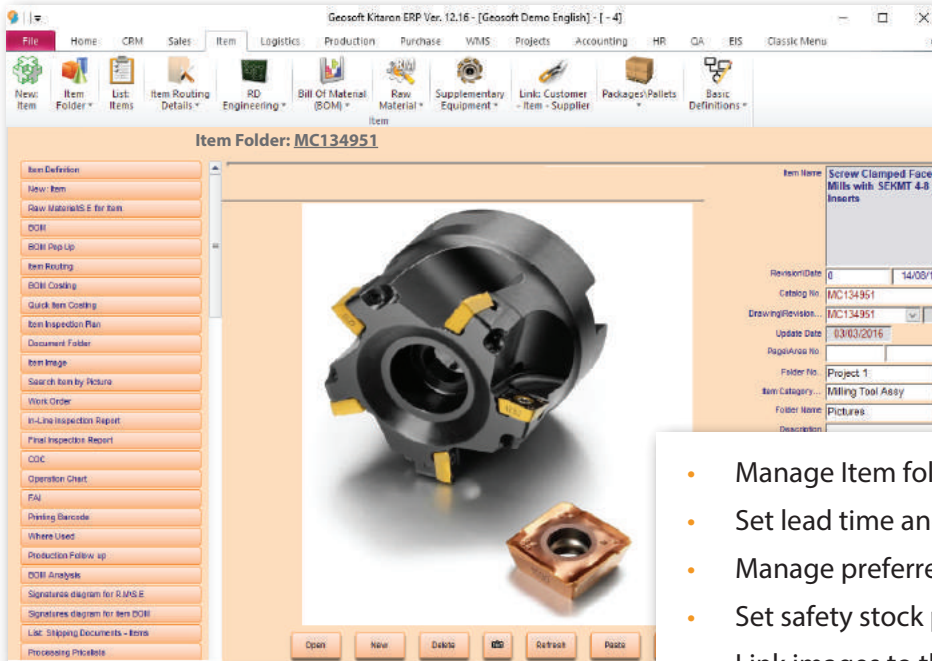
- KITARON is an ERP and MES system.
- KITARON is based on Make to order, Make to stock, Lean manufacturing methods.
- KITARON designed to provide quick and easy solutions for production issues.
- KITARON designed to be flexible to operate and to be fast to implement.
- KITARON designed to provide real 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

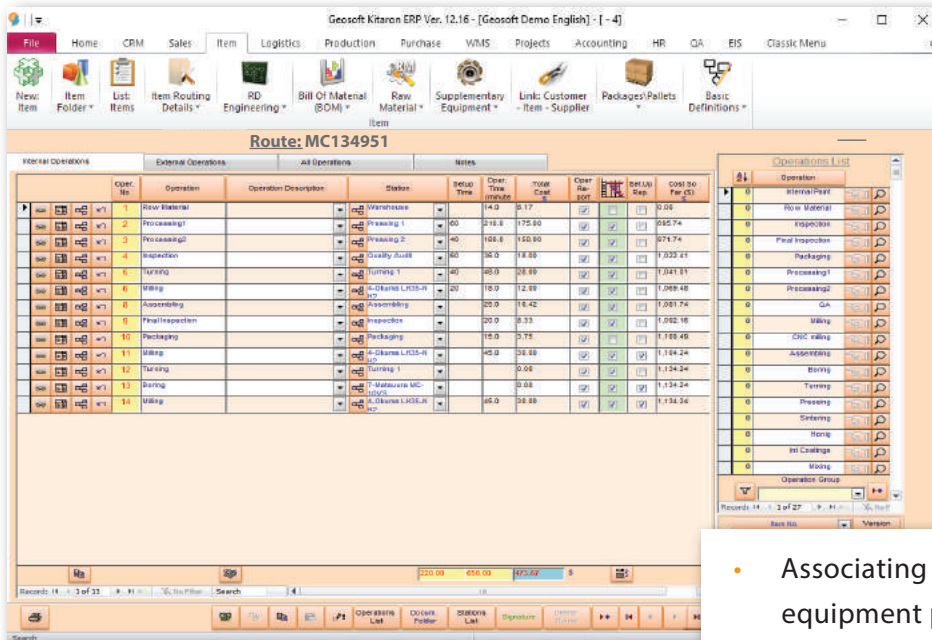
- KITARON is one single information system with a wide range of production solutions that can be achieved using wide range of modules and BI tools.
- Unique tools for managing, monitoring and analyzing manufacturing information.
- Sophisticated Top control and BI tools for managers.
- Management and 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.

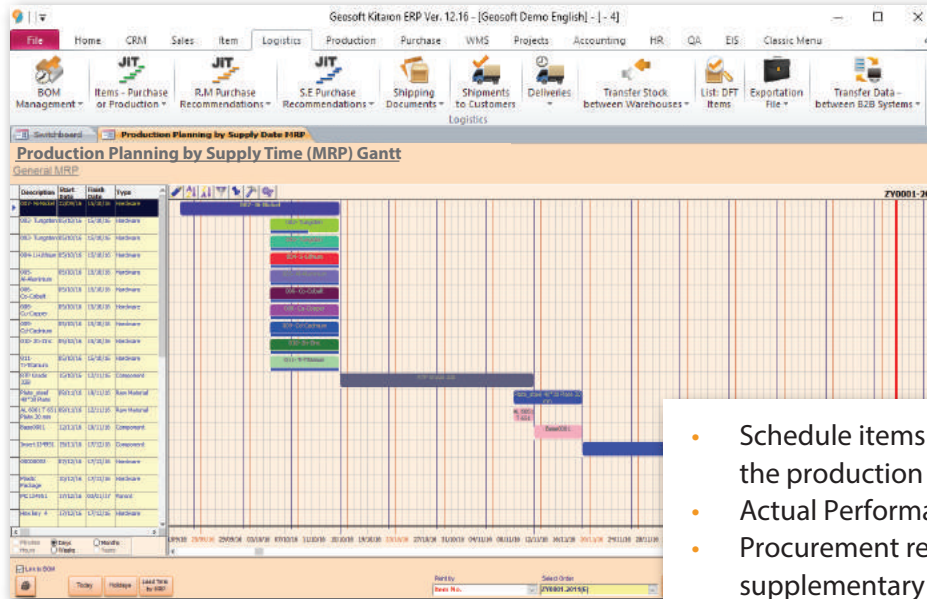


- Associating raw material / supplementary equipment per item
- Define raw material by geometric shape
- Calculate cost of required raw material per unit
- View raw material procurement price
- Calculate moving average price of raw materials in stock

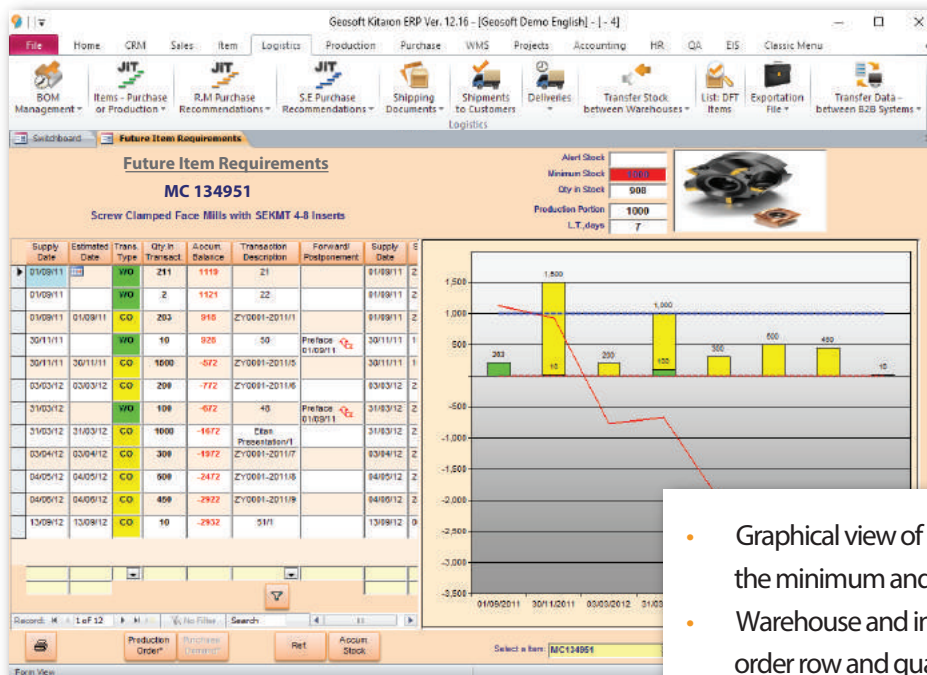
Material Resources Planning - MRP



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.

Item No.	Level	Recur. Qty	Bal	Qty. in warehouse	Designate & Qty.	Sales Price
MC134951	0	450	450	508		58.288
007-Ni-Nickel	1	16	16	1792		295.51
Hex key 4	1	450	450	50		180.38
MS 18976	1	2250	2250	36		100.91
Plastic Package 10X10x15	1	450	450	150		301.7
Insert134951	1	2250	2250	500		2,299.2
Base0001	2	2250	2250	2000		2,885.4
RTP Grade 328	3	225	225	1000		721.31
001-Ammomium	4	15	15	3141		180.5
002-Tungsten	4	24	24	2230		194.01
003-Tungsten	4	18	18	2692		92.78
004-Li-Lithium	4	21	21	2691		75.74
005-Al-Aluminum	4	22	22	1790		66.37
006-Cu-Cobalt	4	24	24	1538		180.51

- 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

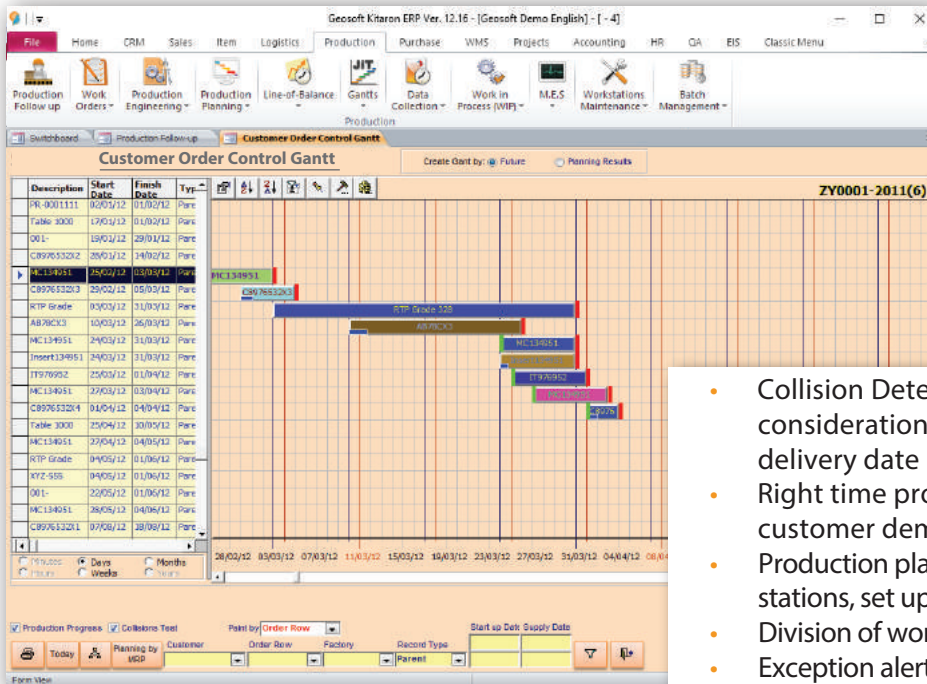
Item No.	Ver	Qty	WH	Revd	Stock	Income	Purch	Free Purch	U.O.M	R.C	Prod Order	V.P.P	Rout. Appr	RM Appr
MC134951	0	450	508						ea			323		
007-Ni-Nickel	16.75	1792							kg					
Hex key 4	450	50							ea					
MS 18976	2250	36							ea					
Plastic Package 10X10x15	450	150							ea					
Insert134951	0	2250	500						ea			1450		
Base0001	0	2250	2000						ea			1555		
RTP Grade 328	0	225	1000						kg			305		
001-Ammomium	15.13	3140.2							kg					
002-Tungsten	23.63	2230.4							kg					
003-Tungsten	18.75	2692.3							kg					
004-Li-Lithium	24.38	2690.1							kg					
005-Al-Aluminum	21.82	1750.3							kg					
006-Cu-Cobalt	23.63	1537.2							kg					
009-Cd-Cadmium	24.15	2690.2							kg					
010-Zn-Zinc	15.87	3592.1							kg					
011-Ti-Titanium	19.57	2690.2							kg					

- 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

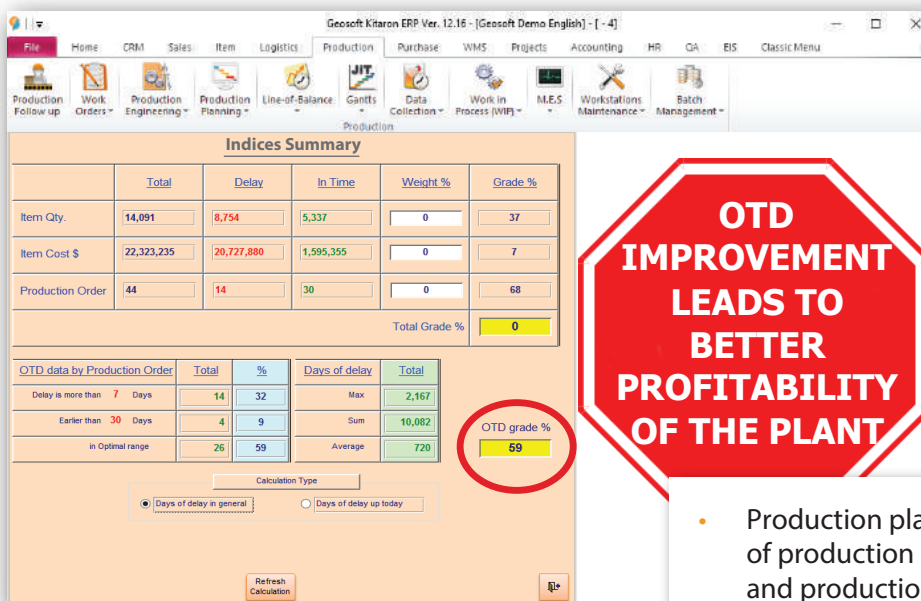
Finite capacity production planning



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.

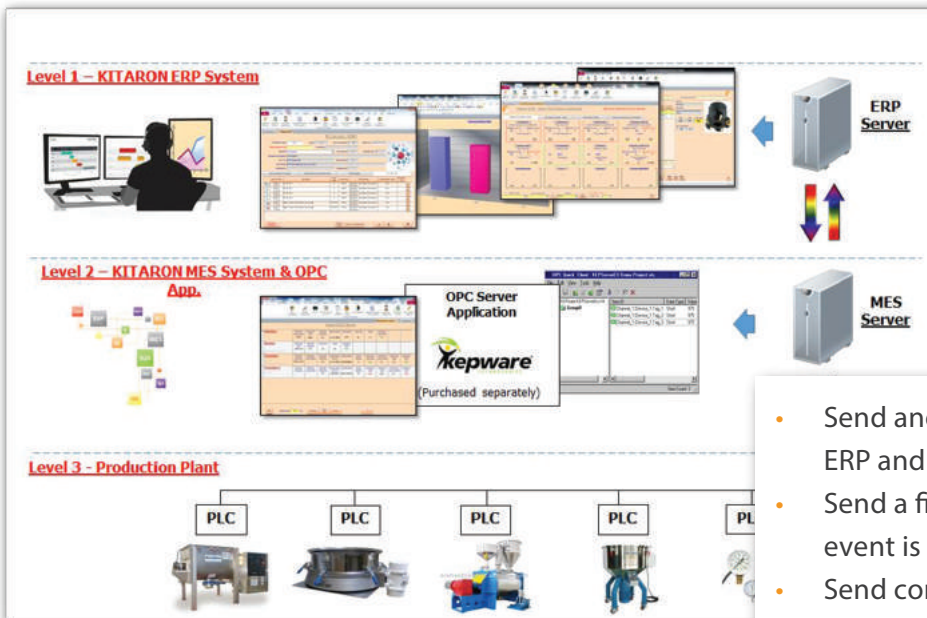
Manager's dream – to understand and retrieve the exact costing of his products.

- 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

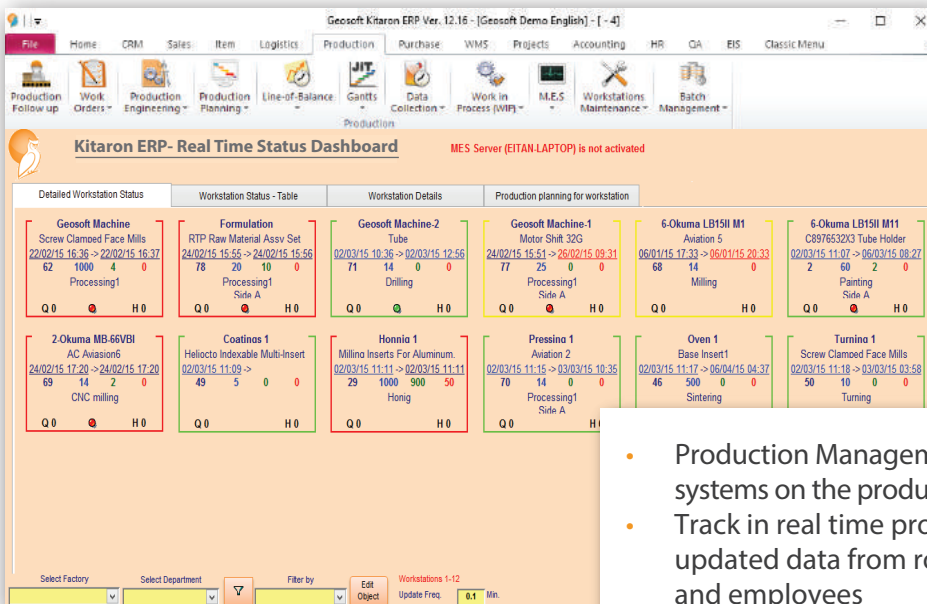
- Calculate the value of "Cost so Far" in the Item routing
- Display value of "Cost so Far" in the MRP report
- Automatic updates of standard costs, by routing data, last purchase and last invoice

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)

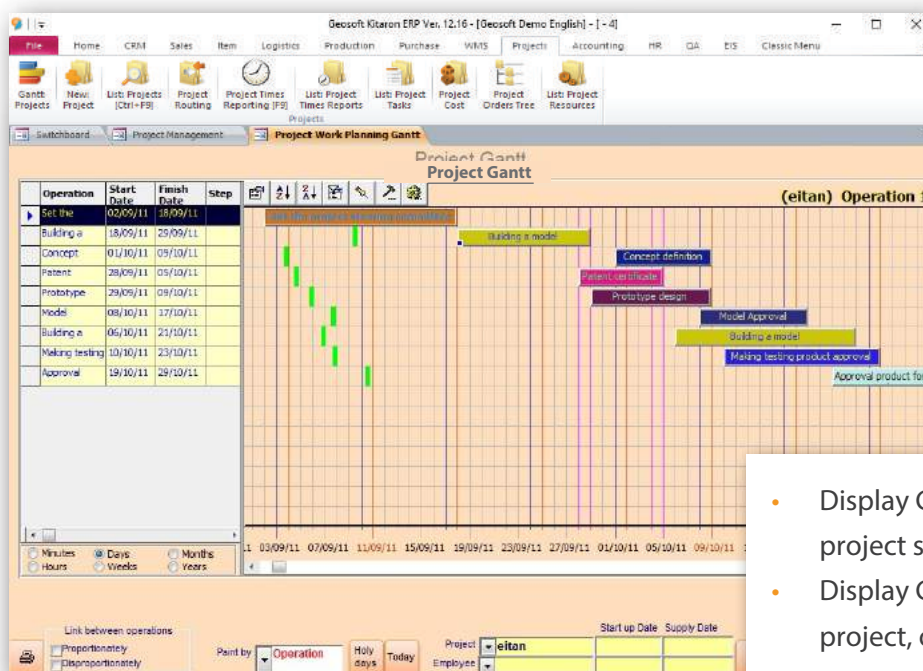
Project Management



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, ERP can also be used to merge and monitor separate orders.

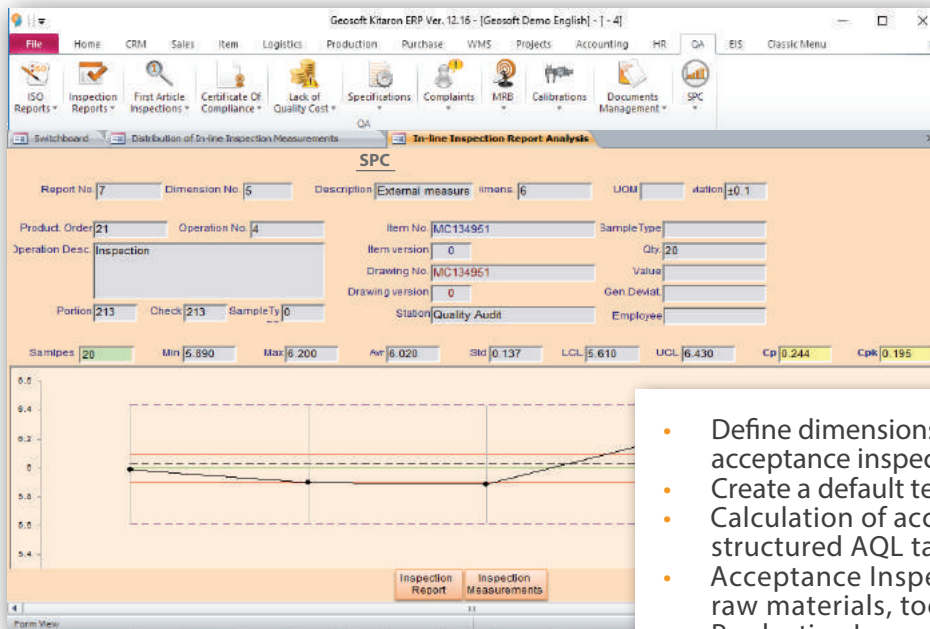
Order Rows	Resources	Project Cost by operations	Project Message list	Others
1	MC134854	0	31/03/12	31/03/12
2	WTP Grade 328	0	31/03/12	31/03/12
3	WTP Grade 328	0	31/03/12	31/03/12
4	WTP Grade 328	0	31/03/12	31/03/12
5	MC134854	0	31/03/12	31/03/12
6	MC134854	0	31/03/12	31/03/12
7	MC134854	0	31/03/12	31/03/12
8	MC134854	0	31/03/12	31/03/12
9	MC134854	0	31/03/12	31/03/12
10	MC134854	0	31/03/12	31/03/12

- 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

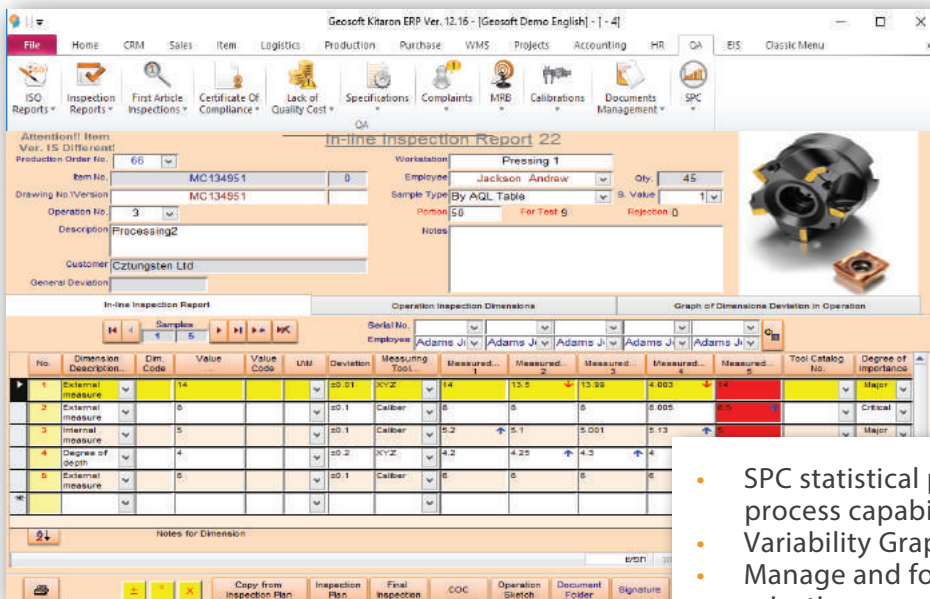


- Display Gantt according to routing project scheduling
- Display Gantt in different colors: number of project, operation, customer, operation name or project name
- Display project progress on operations in the Gantt

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

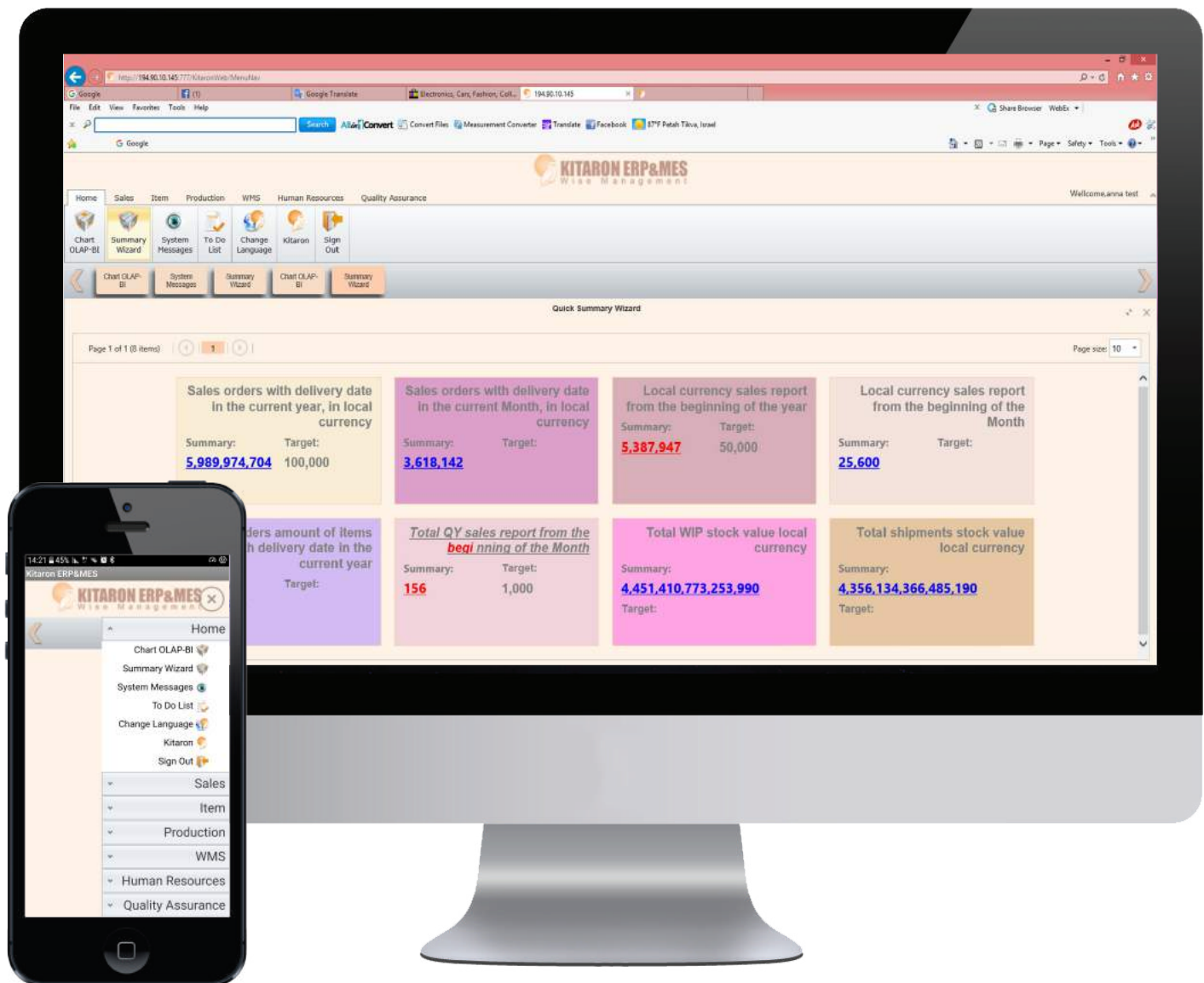


- SPC statistical process control, control chart, process capability indices (Cp, Cpk)
- Variability Graph of dimension
- Manage and follow up the rejections reports and rejection causes report
- Manage correspondence with customer through "question - answer" form
- Manage service calls / customer complaints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

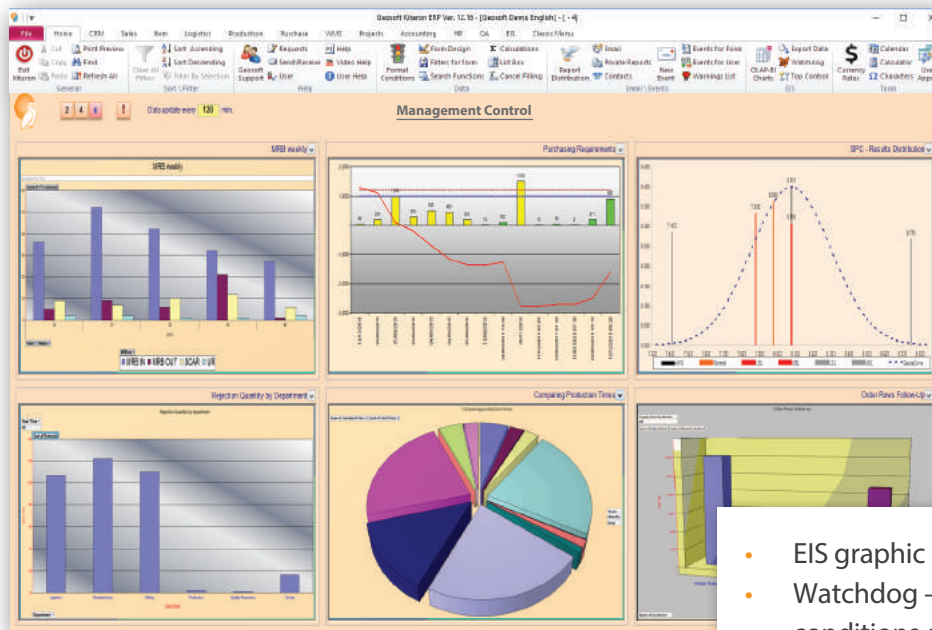
Customer Management (CRM) and suppliers



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
OK	Employee Curses Qualification - Expired	Emergency	04/04/13 17:41:30	Private	<input type="checkbox"/>
OK	Rejection on the last 2 days ago	Regular	04/04/13 17:41:30	Public	<input checked="" type="checkbox"/>
OK	Collection Report - 10 days belated in payment	Urgent	04/04/13 17:41:30	Public	<input checked="" type="checkbox"/>
OK	Production orders delays over 20 days	Emergency	04/04/13 17:41:30	Private	<input checked="" type="checkbox"/>
OK	Stock down form minimum quantity	Emergency	04/04/13 17:41:30	Private	<input type="checkbox"/>
OK	Purch. orders with more than 6 days of delay 1	Regular	04/04/13 17:41:30	Public	<input type="checkbox"/>
OK	Purch. orders with more than 6 days of delay	Emergency	04/04/13 17:41:30	Public	<input type="checkbox"/>
OK	Inventory with no transfers since more than 180 days	Emergency	04/04/13 17:41:30	Public	<input type="checkbox"/>
OK	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-X1
Supply Date: 01/09/11
Folder No.: 0

Notes

Item No.: MC134951 Rev: 0 Prog.Path.:
Screw Clamped Face Mills with SEKMT 4-8 Inserts Drawing No: MC134951 Draw. Rev: 0 Stock: 998 Work Order: 27

Customer Name: Czmungtea Ltd Cmt. Order No.: ZY001-2011 Raw Qty: 215 Balance: 203 Supply Date: 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. Length: 1400 mm Width: 80 mm Depth: 140 mm
Therm. State Inspector 1400x80x140 mm Raw Material Default Supplies Items Qty. in Cut: 1
Qty in R.M: 10 R.M for P.O: 22 R.M Qty. for cutting: 213 Rolling Direction:

R.M Instruct.

Prod.

Operat. No.	Station/Supplier	Operation Description	Qty.	Done by	Set Up Prod.	Signat. Date
1	Warehouse	Raw Material	172	Biden Joe	15.00	30/08/11
2	Pressing 1	Processing1	135	Madison James	12.00	30/08/11

Location of Program: Y:\geosoft\Demo\Pictures\ZNC\MC134951_0\02_Processing1_78\Okuma_MB-66VB1.docx

Routing confirmed by: AdminGeosoft Checked by: AdminGeosoft Confirmed by: AdminGeosoft

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Final Review Report

REPORT NO.: 01/0011 3
MC134951 0
Item NO. REV: MC134951
CATALOGUE NO.

REVIEW PHASE/TYPE

P.O. NO.: 21 Item DESCRIPTION: Screwed Face Mills with SEKMT 4-8 DRAW. NO. REV: MC134951
Milling and Turning Ltd QUANTITY: 20 20
SUPPLIER DEP. REJECTED ACCEPTED TOTAL

Czmungtea Ltd ZY001-2011 AQL Table
G. DEV CONTACT CUSTOMER ORDER NO. SAMPLE BY...

INSPECTION PLANNING: SIGNATURE NAME DATE

NO.	Attribute LOCATION	REQUIRED	CHARACTERISTIC ACTUAL	Test Equip /Method	Quantity			Remarks	
					SUSPECTED	ACCEPTED	REJECT		
1.00	External measure	14±0.01	1-14.8	Max	Measuring instrument	5	5	0	
2.00	External measure	8±0.1	7.05-8.9	Ctrl	Visual	5	5	0	
3.00	Internal measure	5±0.1	4.6-5.35	Max	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	5.88-6.2	Min	Caliber	5	5	0	

REMARKS

DOCUMENTS ISSUED BASED ON THIS REPORT:

CONCLUSIVE REMARKS

Edited: AdminGeosoft Checked: AdminGeosoft Confirmed: AdminGeosoft

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Production Planning by Station

Station: Packaging

Prio	Item No.	Qty.	Setup Time	Prod.ord. SupplDate	Remarks	StartupDate	Picture
	Item Name						
	C8976532X1	11	0.0	31			
	C8976532X1 Tube Holder		5.0	18/08/12			
	RTP Grade 328	5		42		23/08/12 08:00	
	RTP Raw Material Assy Set 328		10.0	01/06/12		23/08/12 08:50	
	Base0001	500		46		26/09/12 00:03	
	Base Inset1		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 04:50	
	Base0001	1005		25		01/11/12 09:14	
	Base Inset1		5.0	01/09/11		15/11/12 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 13:59	
	Inset134951	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 07:48	
	Screw Clamped Face Mills with SEKMT 4-8 Inserts		5.0	01/09/11		28/11/12 07:58	

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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



KITARON ERP&MES
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