





The Change needs a Revolution



Automatic Supervisor and Control System







Organization Manager

Monitor your organization Efficiency, Quality and Stoppages down to the level of departments, groups and workers at any place.





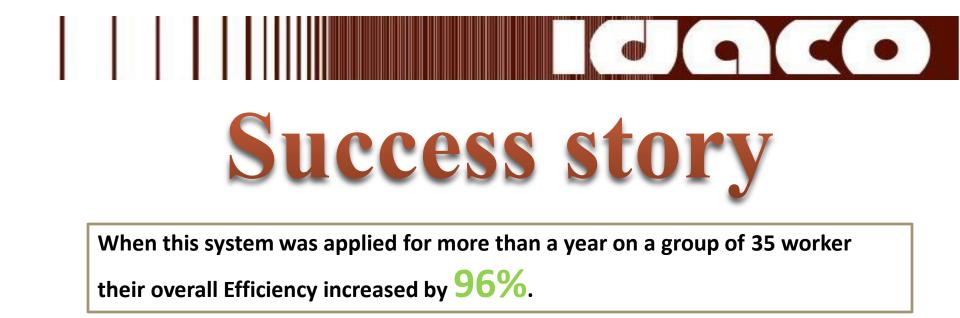
- Immediate feedback
- Increasing both Efficiency & Quality
- Employees motivation
- Maximizing team work spirit
- Real time waste analysis



• Monitor Workers inside and outside the organization included workers locations



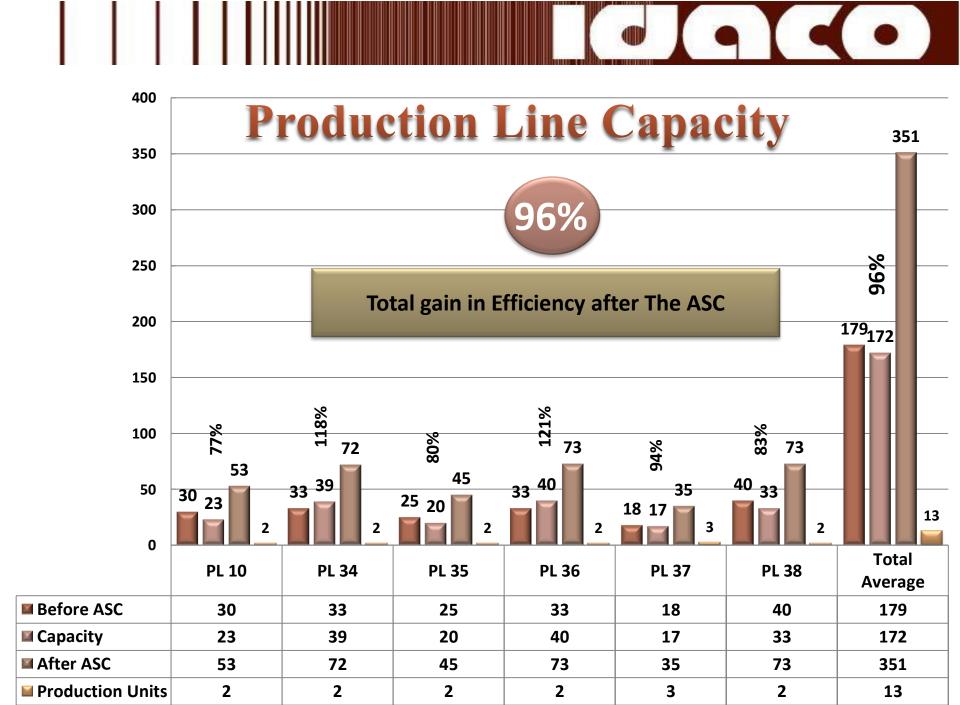




<u>Payback period</u> if the overall efficiency is increased only by less than 20% your payback period is less than 10 months.







Adaptation to Real Life

Problem	Solution and Enhancement
Efficiency calculation accuracy over the Shift	Use weighted average time in equations
Make efficiency effected by PPM	Use fault weights in efficiency equations
Fake Counter	Posting and Max. efficiency threshold
Authorized stoppage	Integrating the company formal stoppages into the system
Workers leave unit before shift ending	End Shifting Recalculations
Automatic Counter (Press)	GPIO



Adaptation to Real Life

Problem	Solution and Enhancement
Multi worker efficiency wrong calculation	Multi Worker Mode
Worker movements	Worker logged in one unit at a time
Maintenance, Production stoppage deals	Calculate maintenance worker efficiency
Wrong real time follow up in large operations	Divided Operations Mode



Adaptation to Real Life

Problem	Solution and Enhancement
Quality Efficiency	Dynamic Standard Time
Password hack	Return from stop through name/password or (RFID access card at ACS v2)
Wrong eff calculation because of life feeded data	Data correction mechanism
System wifi overriding	Solved





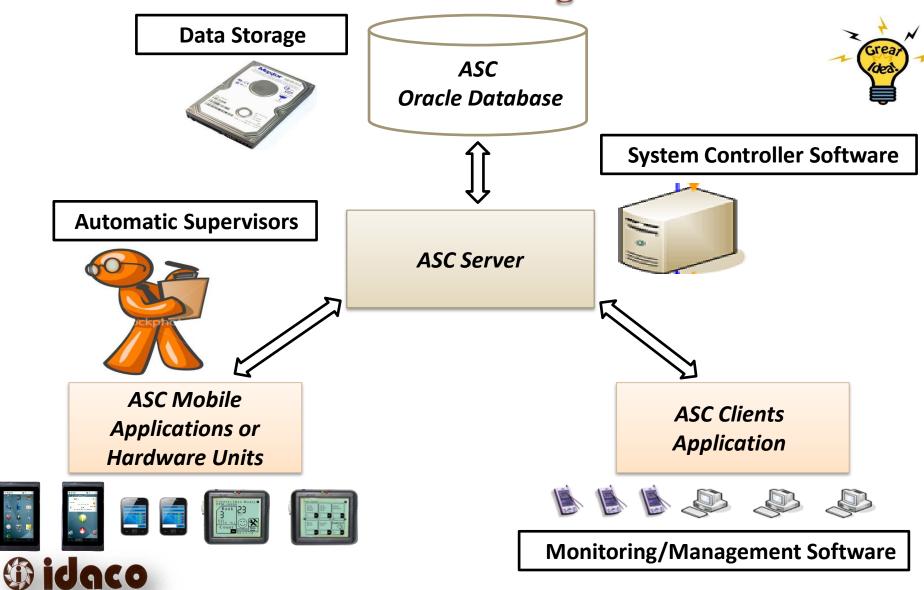
>Enhance the traditional monitoring techniques

>Build communication system between all workers and their managers.

- > Real time feedback of bonuses according to the efficiency and Quality.
- > Differentiate between active and less active workers giving a sense of justice.
- > Increasing the performance level of the utility departments.
- > Traceability in case of barcode processes.
- > Help manager to take decision using reports types and Hierarchy from organization down to level of workers



ASC Block Diagram









Types of Automatic Supervisor at each Worker

Two Types of ASC Hardware Unit:

- > ASC Hardware Unit with Wired connection on ASC Server.
- ASC Hardware Unit with Wireless connection on ASC Server.

ASC Mobile Application which work as ASC Hardware Unit and Connect on the ASC Server through:

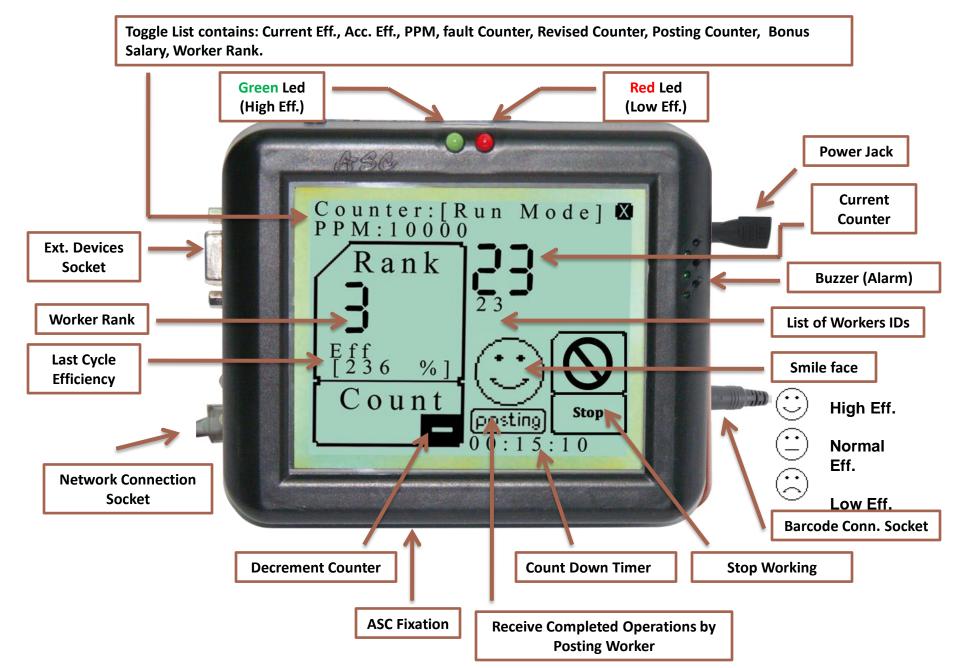
- > WIFI.
- ➤ 3G/4G (Mobile Network) which also make the manager able to monitor the worker outside the organization in special tasks and also monitor the locations of the workers outside the organization.







ASC Production

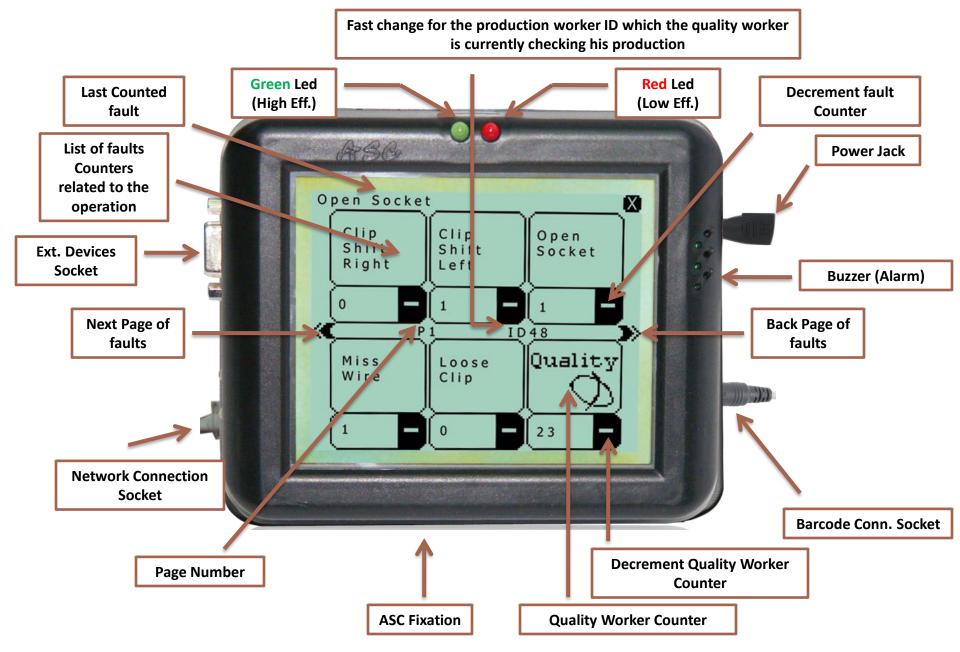


ASC Production

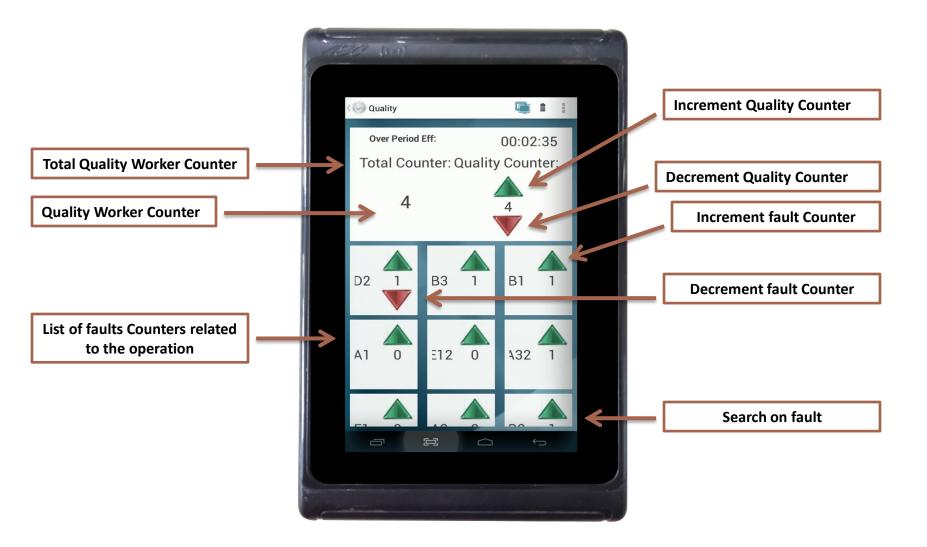
Toggle List contains: Current Eff., Acc. Eff., PPM, fault Counter, Revised Counter, Posting Counter, Bonus Salary, Worker Rank.



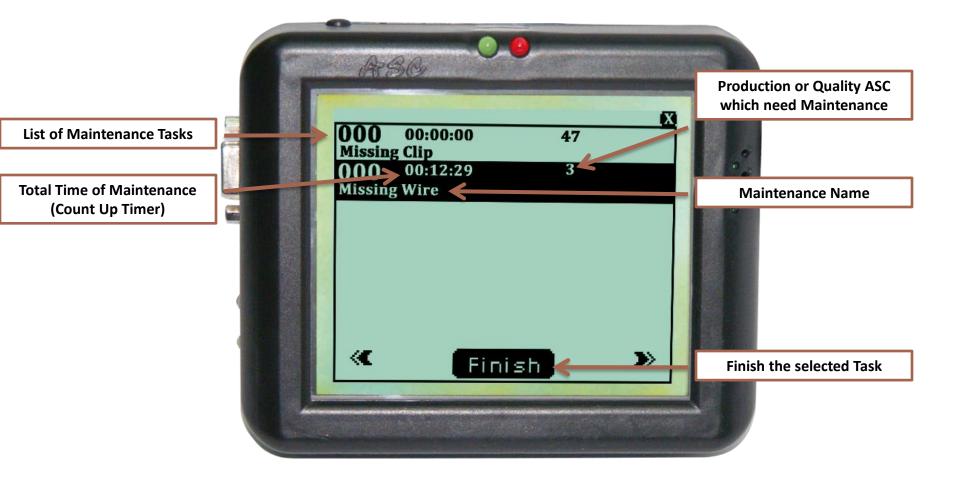
ASC Quality



ASC Quality

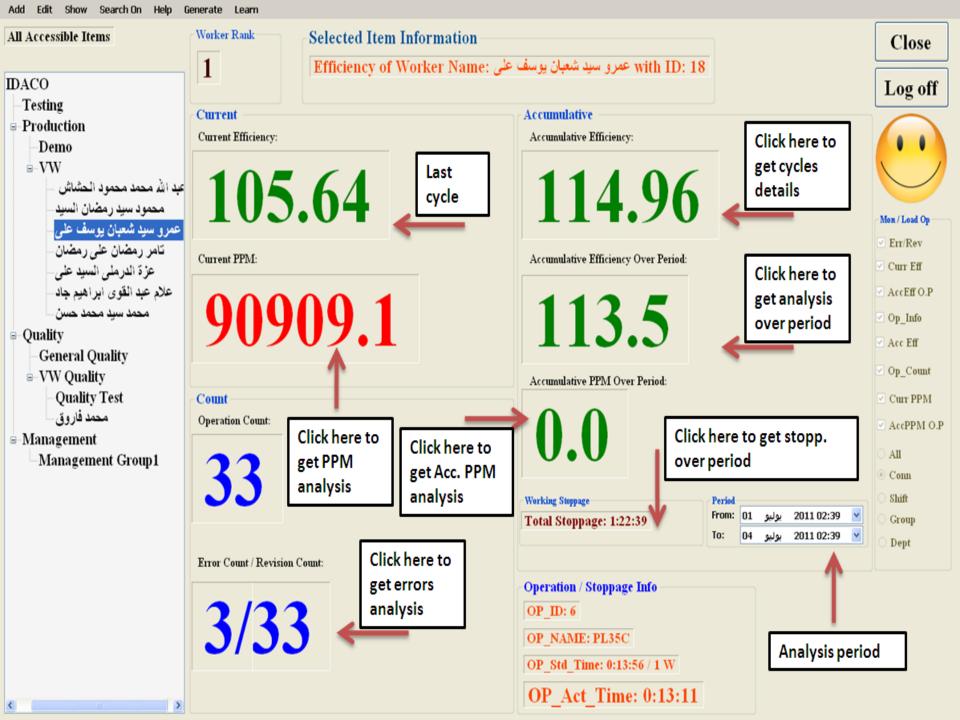


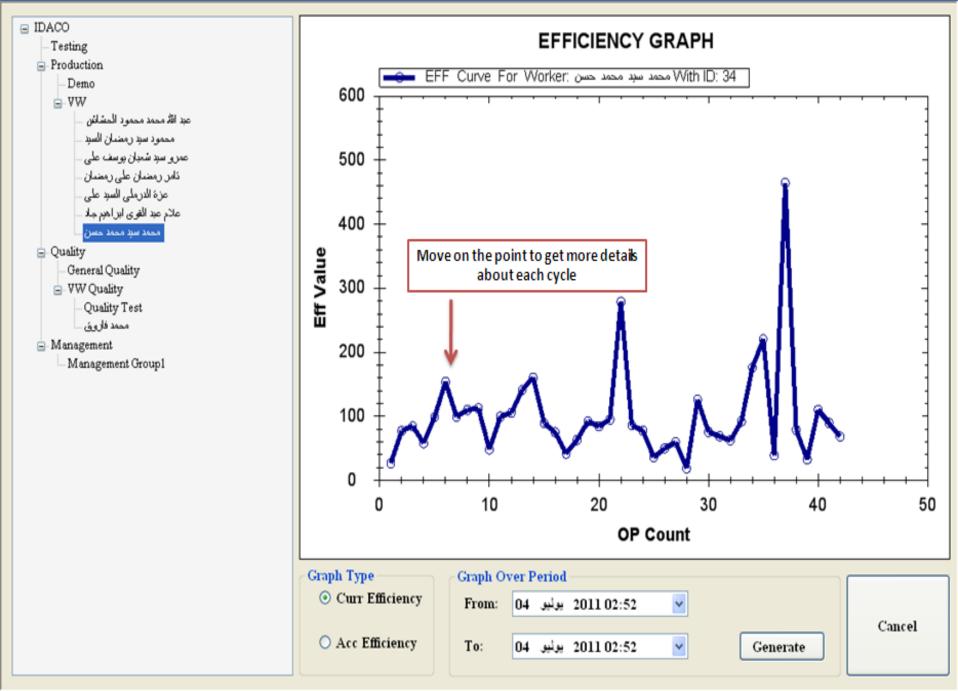
ASC Maintenance



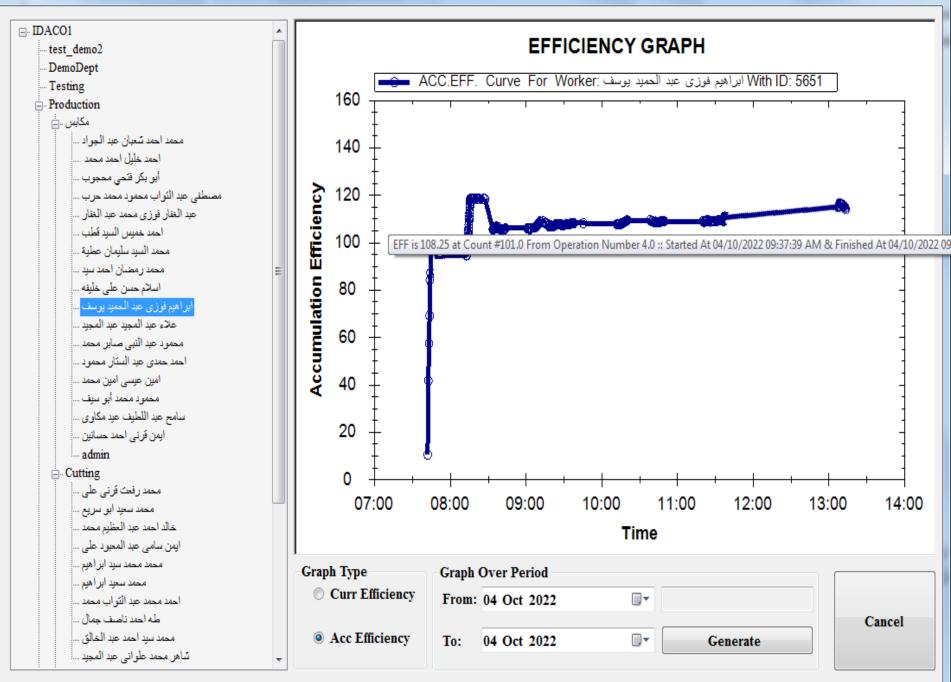
ASC Maintenance







🚾 Graph





Worker Stoppages Details



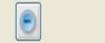
	OP_NAME	STOP_ID	STOP_NAME	STOP_STD_TIME	STOP_START_TIME	STOP_EN	ID_TIME	TOTAL_	1 *
•	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 07:47:56 AM	04/10/202	22 07:54:05 AM	0:6:9	
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 08:00:57 AM	04/10/202	22 08:12:38 AM	0:11:41	-
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 08:12:55 AM	04/10/202	22 08:24:21 AM	0:11:26	
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 09:04:56 AM	04/10/202	22 09:11:46 AM	0:6:50	-
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 09:15:04 AM	04/10/202	22 09:25:37 AM	0:10:33	
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 09:26:19 AM	04/10/202	22 09:32:06 AM	0:5:47	
	Tarmala	1	Rest	0:40:0	04/10/2022 09:45:14 AM	04/10/202	22 09:59:10 AM	0:13:56	
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 10:09:20 AM	04/10/202	22 10:33:41 AM	0:24:21	-
	Tarmala	54	Menawla Fail	0:2:0	04/10/2022 10:58:10 AM	04/10/202	22 11:04:55 AM	0:6:45	-
	Tarmala	52	Quality data adjust	0:2:0	04/10/2022 11:09:32 AM	04/10/202	22 11:26:24 AM	0:16:52	Ŧ
•			III			•			

Still Working Till Now		Total Stoppages/Breaks Time: 2:50:4		Total Stoppages Time: 1:57:40		
				Total Breaks Time: 0:52:24		
Stoppages_Over_Period					Delete Selected Stoppages	
From:	04 Oct 2022		Not Stop			
To:	04 Oct 2022					
Export To Report		Load	Not Break		Cancel	

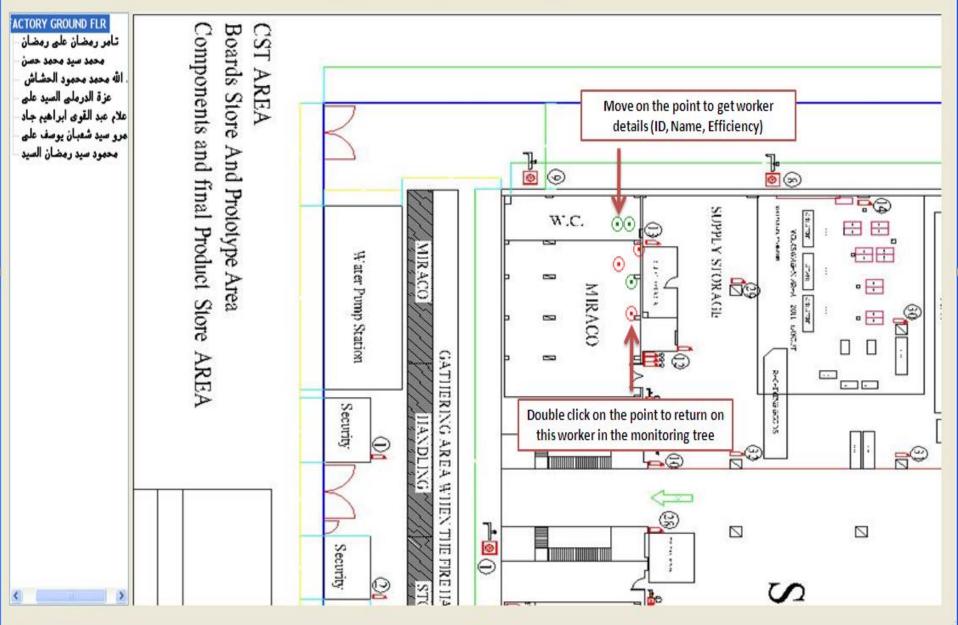














Production

Quality

Learn

Motivations

Posting



Detect Specific Parameters for each Worker:

- Start time of working.
- > End time of working.
- > Number of completed operations.
- > Details about each cycle.
- > Accumulation Efficiency.
- > Active Shift.
- > Expected output related to the shift time.
- Has over time or not.
- > Available breaks related to the shift time.
- Amount of stoppages (Breaks or Maintenances) taken by the worker.



Production

Quality

Learn

Motivations

Posting



Detect Specific Parameters from Q.Worker:

- > Quality check operations count for each production worker.
- > Number of faults found in the operations completed by each production worker.
- > Details about each fault (Number, Name, Weight, Description,....).
- > The Quality worker parameters is as well recorded.

Production

Quality

Learn

Motivations

Posting



ASC System gives you the ability to learn:

Production Operation (to detect the standard time of the operation which will be used to calculate the efficiency).

> Organization Layout (to detect the location of each ASC HW Unit for tracking and visualization).



Production Quality Learn Motivations

Posting



ASC System helps the worker to increase his efficiency and production through:

- Smile face at the ASC HW Unit.
- ➤ Win Win .
- Bonus salary at each tick.
- Real time ranking.
- Count down timer for each cycle.
- > Real time feedbacks from the system.





Production

Quality

Learn

Motivations

Posting



The System minimizes the probability of miss counting using the posting technique:

- > The worker receives the produced products and records the received number to validate the counter of the producing worker.
- The system Automatically differentiates between these different scenarios:
 - ✓ Correct count.
 - ✓ Miss count from prod. worker.
 - ✓ Miss counting from the receiving worker.
 - ✓ Miss counting from both.





Barcode Connection

Tracking

Continuous Feedbacks

ASC Settings

Privileges

ASC System gives you the ability to connect Barcode reader to the ASC HW Unit in order to read data.







Barcode Connection

Tracking

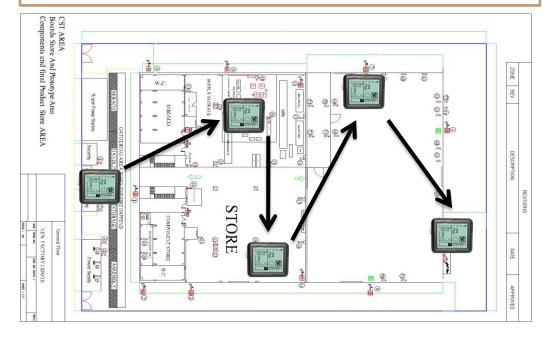
Continuous Feedbacks

ASC Settings

Privileges

ASC System gives you the ability to track the worker movement inside the organization departments through:

> Detecting the ASC HW Units which the worker is using in factory layout graph





Tracking

Barcode Connection

Continuous Feedbacks

ASC Settings

Privileges



ASC System sends real time feedback to the connected worker like:

- **Current Efficiency.**
- Accumulation Efficiency.
- Quality revised counter.
- Fault Counter.
- ➢ PPM.
- **Bonus Salary.**
- Led Indicator (red or green).
- Posted Counter.
- > Worker Rank.
- Count down timer. (Count down then Count Up)









Barcode Connection

Tracking

Continuous Feedbacks

ASC Settings

Privileges

ASC System gives the administrator the ability to define specific parameters which effect on the system calc. like:

- > Win Win Parameters.
- Enable / Disable Over Breaks on Workers.
- Team Mode / Individual Mode
- Each user has the ability to select

specific loading setting.

- ✓ Specific Department.
- ✓ Specific Group.
- ✓ All Workers.
- ✓ Connected Workers.
- ✓ Spec. Shift Workers.



Barcode Connection

Tracking

Continuous Feedbacks

ASC Settings

Privileges

ASC System Supports some privileges: Monitoring Privilege:

> Administrator: Can access all nodes in the organization and monitoring them.
> Dept. Manager: Can access his department included related group and

related workers only.

Grp. Manager: Can access his group and related workers only.

Posting Privilege: to decid which worker to post which operation.





Threshold Settings

History Analysis

Exporting To Excel

Graph

Customization

ASC System gives you the ability to detect specific thresholds through Settings which effect certain indicators in the system like:

- Current Efficiency threshold.
- > Accumulation Efficiency threshold.
- > Accumulation Efficiency over period threshold.
- > Current PPM threshold.
- > Accumulation PPM over period threshold.
- > ASC Led effected by (Current or Accumulation).





Threshold Settings

History Analysis

Exporting To Excel

Graph

Customization

ASC System Supports History Analysis in specific period for:

- Stoppages (Breaks or Maintenances)
 occur in this period by W or G or D or O.
 faults occur in this period by W or G or D or O.
- > Accumulation Efficiency in this period for W or G or D or O.
- > Detailed Efficiency for all cycles in this period for W or G or D or O.
- > Workers Logging in and off details in this period.
- System Errors (Log File).





Threshold Settings

History Analysis

Exporting To Excel

Graph

Customization



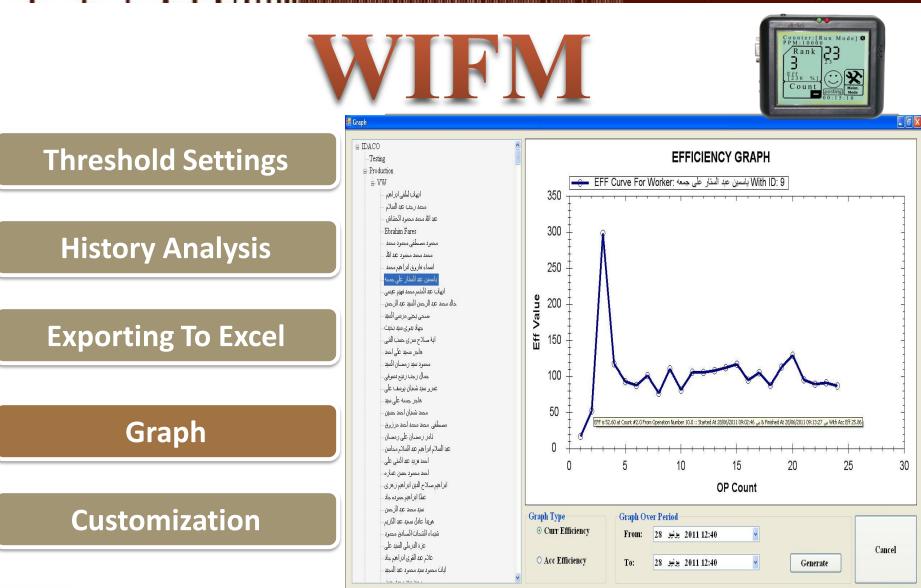
ASC System gives user the ability to export into excel file :

- > Any history analysis.
- Defined Operations Details.
- Defined faults Details.
- > Defined Stoppages Details.
- Defined Shifts Details.
- Defined Breaks Details.
- Defined Workers in Group or

Departments or All organization.

> Defined Groups in Department or All organization.

> Defined Department in organization.



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Threshold Settings

History Analysis

Exporting To Excel

Graph

Customization



ASC System gives each user according to his privilege the ability to:

- Add Shift and Edit Shift.
- > Add Break and Edit Break.
- > Add Organization.
- Add Department and Edit
- Department.
- > Add Group and Edit Group.
- > Add Worker and Edit Worker.
- > Add Stoppage and Edit Stoppage.
- Add fault and Edit fault.
- > Add Operation and Edit Operation
- Show Details about the predefined Entities (Shifts, Breaks, Operations ,...) in the database.



Maintenance Analysis

Apply Salaries

Map Monitoring

Win Win

Easy Installation

ASC System gives the user ability to generate analysis information for each defined maintenance in the system; this information includes:

- > Number of occurrence.
- Taken time to repair this maintenance at each time.
- Required time to repair this maintenance.
- For Worker, Group, Department or all organization.



Maintenance Analysis

Apply Salaries

Map Monitoring

Win Win

Easy Installation

ASC System gives the organization management the ability to link between workers salaries program used by the organization and the workers results calculated by the ASC System. Efficiency Results.

- Quality Results.
- **>** Ranking Results.
- Discipline Results.
- > Or any other factors.





Maintenance Analysis

Apply Salaries

Map Monitoring

Win Win

Easy Installation

ASC System gives each user ability to display the location of:

- Specific ASC Connected on the
- System.
- Collection of ASCs Connected on the System.

By select the worker node or the group of workers node and click on it. Then the user can return to a specific worker in the tree from the Layout by clicking on the location of this worker in the map.





Maintenance Analysis

Apply Salaries

Map Monitoring

Win Win

Easy Installation

ASC System gives the management the ability to enable or disable Win Win property and the administrator will detect:

- > Win Win Efficiency Threshold.
- Percentage of worker part.
- Percentage of organization part.





Maintenance Analysis

Apply Salaries

Map Monitoring

Win Win

Easy Installation

ASC System requirements installations is very simple:

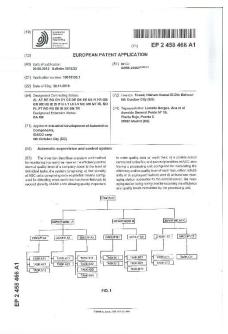
- > Just adapter and network point for each hardware unit.
- > Install ASC Server on Admin. PC.
 - ✓ Windows XP/Vista/Seven OS.
 - ✓ Oracle Installation Products.
- Install ASC Monitoring Client on Any PC in the organization.
 - ✓ Windows XP/Vista/Seven OS.
 - ✓ Oracle Installation Products.

And Start to monitor according to the privileges applied by the Admin. ASC Client.





USA Patent Number: 13/010,708 EU Patent Number: EP 10015133.1 EGY Patent Number : 810/2011



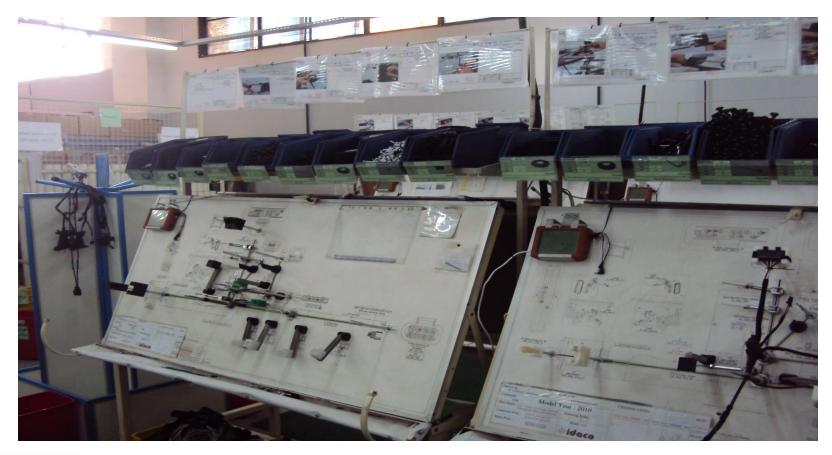




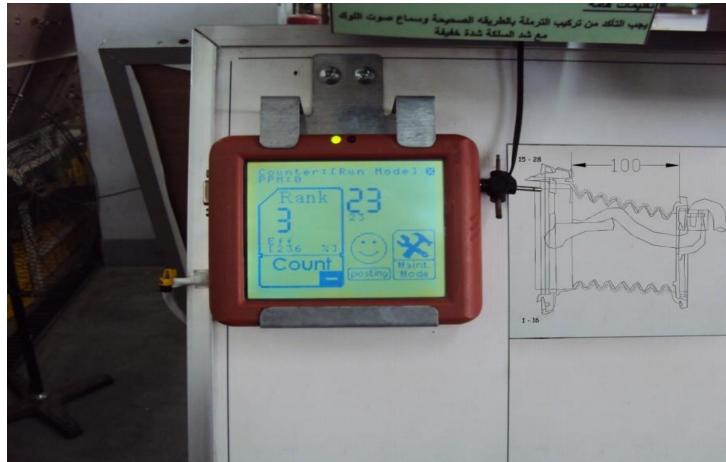




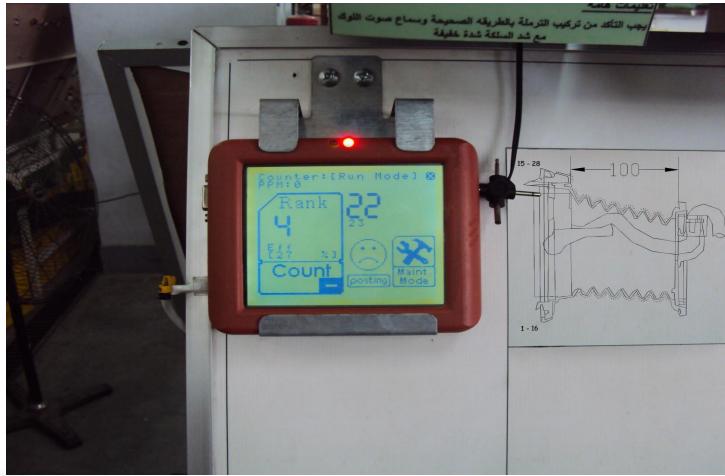
















THANK YOU



