

MICRONPROD

SHOP FLOOR DATA COLLECTION SYSTEM



CONTROL - DIGITAL INDUSTRY - WEB
T - ADVANCED PROCESS CONTROL -
WEB SOLUTION - REAL TIME MANA
S CONTROL - DIGITAL INDUSTRY -
EB SOLUTION - REAL TIME MANA
ROL - DIGITAL INDUSTRY - WEB
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Micronprod: the solution for Shop Floor Data Collection

Micronprod is the optimal tool to ensure a prompt and reliable management of all the events generated by the manufacturing units in the production workflow.

MICRONPROD is efficiency

It offers all the required tools to meet the delivery times, optimize the production resources and check the manufacturing processes through statistical detection systems

MICRONPROD is a fully WEB solution

Users can take advantage of the application by using an Internet-Intranet connection from any workstation in the company. Users accounts are protected by configurable logics and authorization profiles, without any further installation of the software applications.

MICRONPROD is real time

It controls and monitors in Real-time the events generated by the manufacturing compound of a company, in terms of manpower, machine capacity, stock and maintenance, quality, and so on.

MICRONPROD is flexible

It interacts with ERPs and schedulers, following the entire data flow from acquisition of a work order till the return of all analyzed data, such as work hours, produced quantities, timings, wastes and so on.

MICRONPROD is versatile

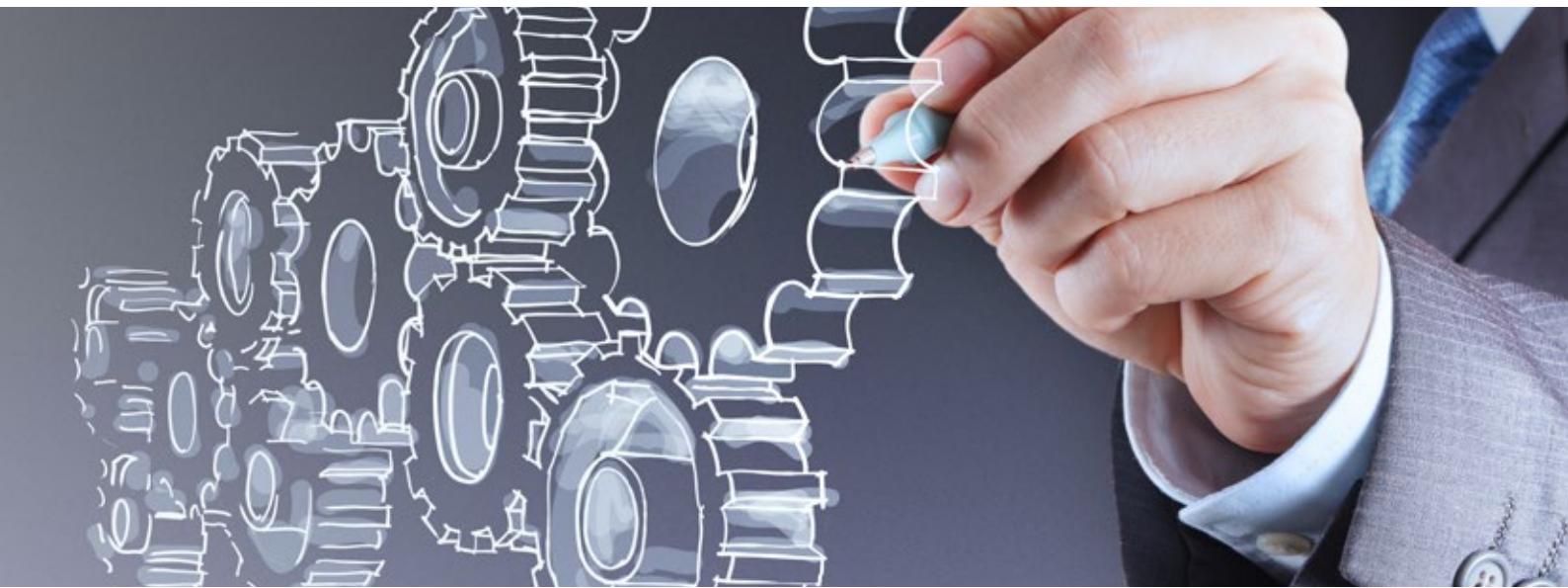
It can be integrated by modules and software procedures that supply all the tools to overcome the requirements related to the management, control and interactivity of the work flow.

MICRONPROD is customizable

Each project, which is developed following dedicated analyses, can either follow standard requirements or be customized on purpose.



Complete, Reliable, Realtime Shop Floor Management



Customizable Micronprod

- On-site Analysis
- Customized Development
- Test
- Configuration and Activation Service

Micronprod

- Data Acquisition Terminals Management
- Validation and Control of all acquired Events from the Manufacturing Units
- Production Progressive Monitoring
- Data Analysis and final Balance
- Data Import/Export from and towards ERP



Multilingual Micronprod

- Italian
- English
- Spanish

Micronprod modules

- Infopoint Workforce
- Traceability Warehouse



Shop Floor Management to optimize and meet any delivery times

Micronprod provides prompt statistical feedback regarding quantities produced, work timings, analyses of scraps and unproductive times; any potential criticality in the manufacturing process is pointed out accordingly.

Data Acquisition Terminals Management

The Terminals Management feature gathers all production events from the terminals. Production events are defined as the activities performed by manpower in the various manufacturing departments and the activities automatically acquired by work centers, interacting with the operator and the manufacturing environment.

The management allows the user to display and enter any information related to the advancement of the manufacturing process, operators, work orders, machine status, produced quantities, work/stop/scrap reasons.

Acquired data guarantees real-time updates in relation to the events generated by the work centers or by the operators' manual input.



Validation and Control of all acquired Events from the Manufacturing Units

Data / Estimate

The Data/Estimate module contains the database used for the online control of the shop floor events and the advancement of the work orders.

All the events acquired from the manufacturing units or declared by the operator are processed and get a real-time validation according to the estimation data in the database and to the operational controls.

The database includes estimate tables, that are fed through an automatic import procedure or manually and contain essential information, such as card details, employee personal details, company data, work centers, work orders and object details.

The Estimate feature allows the user to print work detail sheets regarding the forecasts of manufacturing plans, details of the reasons and the employee's personal data.



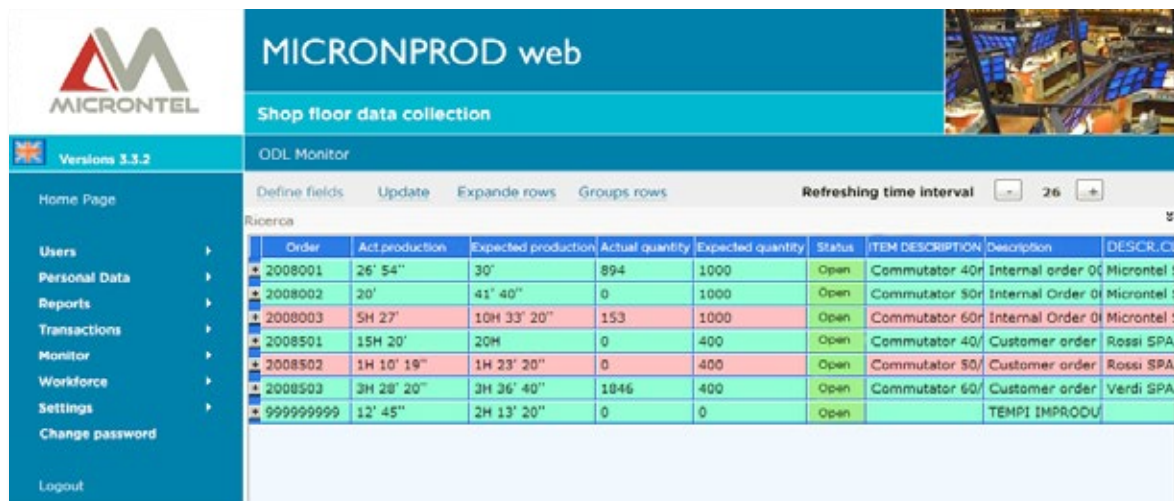
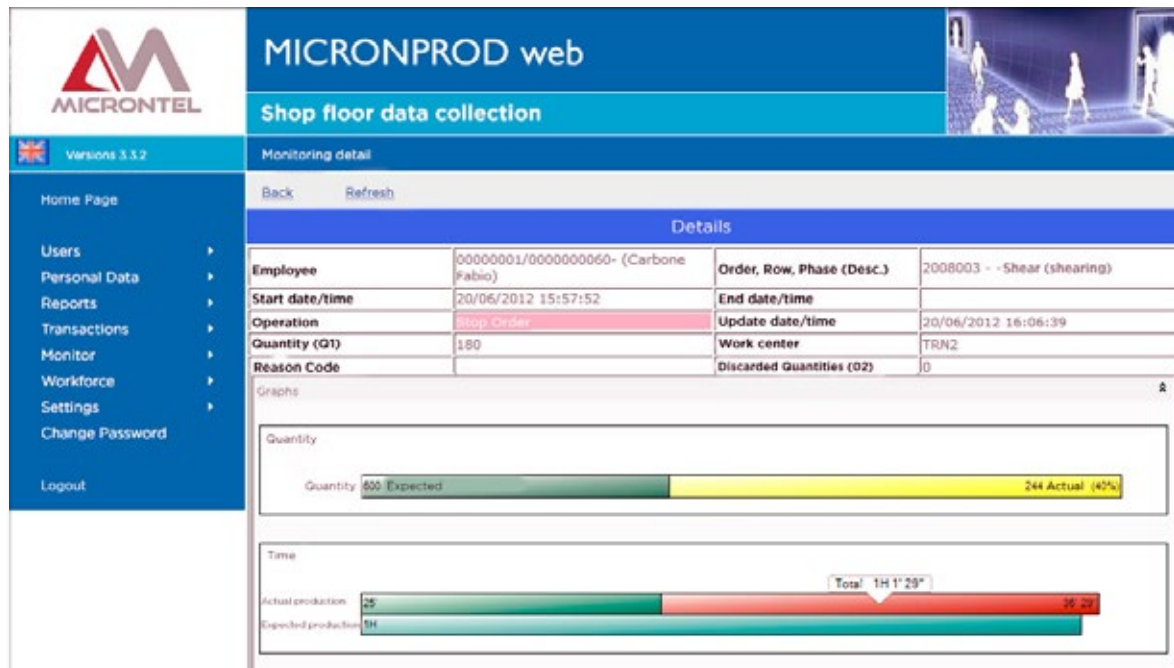
Shop Floor Management for an Intuitive and Immediate control

Production Progressive Monitoring

Operators – Work Orders – Work Centers Monitors

The Production Progressive Monitoring modules allow the users to display the real-time status of the work progress as declared by the operators of the manufacturing departments, of the final data regarding work orders/phases, of the work advancement and progress of the work centers.

It also allows to define a visualization based on various levels, to display the most important data as well as the minor details. By selecting a specific sorting order, the final data are displayed with an effective graphical representation, including histograms and graphs.





Dynamic and Versatile Shop Floor Management

Data Analysis and final Balance

Report

The Reports module generates summaries of work orders, work centers and logs of the user activities.

It also includes a report management feature that allows to generate an archive of the previously created reports.

Micronprod SDA Quote/balance comparison									
Quantity = 1 Quantity Order = 2008003									
J080001 Internal Order 001 CL 00/22 SL Computed 00mm 00.22mm									
Cycle Description	Status	Expected	Quantity	%	Total	%	Production	Production A	Production B
10 Internal order 001	Open	Expected	600		1 h 0' 00"		1 h 0' 00"	0' 00"	0' 00"
		Actual	52	9	30' 40"	81	30' 40"	0' 00"	0' 00"
20 Internal order 001	Open	Expected	600		1 h 0' 00"		1 h 0' 00"	0' 00"	0' 00"
		Actual	246	41	25' 00"	42	25' 00"	0' 00"	0' 00"
30 Internal order 001	Open	Expected	600		1 h 0' 00"		1 h 0' 00"	0' 00"	0' 00"
		Actual	153	26	08' 00"	83	08' 00"	0' 00"	0' 00"
Total		Expected	1,800		3 h 0' 00"		3 h 0' 00"	0' 00"	0' 00"
		Actual	451	25	1 h 57' 40"	42	1 h 57' 40"	0' 00"	0' 00"

Data Import/Export from and towards ERP

The Data Import/Export from and towards ERP activates the interface with an enterprise resource planning system (ERP). The main tasks performed by the application are:

- Import of the planned work from ERP
- Export of the final data from the Micronprod application

Data Import from ERP

For companies with databases connected with management procedures, Micronprod performs a file transfer import of the planned work orders, avoiding the manual upload of the data released by the management system: work orders, work phases, forecasts and related times, items, work centers.

Data Export towards ERP

For companies with databases connected with external management procedures, Micronprod performs a file transfer export of the data depending on the requests of the management system. The data export, performed through a predefined record file, elaborates and exports the data by work shifts, work orders, items, work centers.





Micronprod modules to complete the manufacturing process



Infopoint Workforce

The Infopoint Workforce module displays the real-time status of the work orders and activities declared by the employees/manpower.

The module is optimized to be displayed on large screens. Infopoint Workforce is a software application that conveys information for the manufacturing departments.

Traceability Warehouse

Loading - Unloading - Inventories

The system for item traceability in the warehouse lets the user classify the articles managed by the corporate production process.

The application of this system allows the user to automate the traceability activities of the item in stock, plus typical warehouse activities such as,

loading, unloading, inventory and even a simple inventory inquiry with the corresponding visualization of the photo of the requested article. In any case, it is always possible to export the recorded warehouse transactions to a higher level management system.

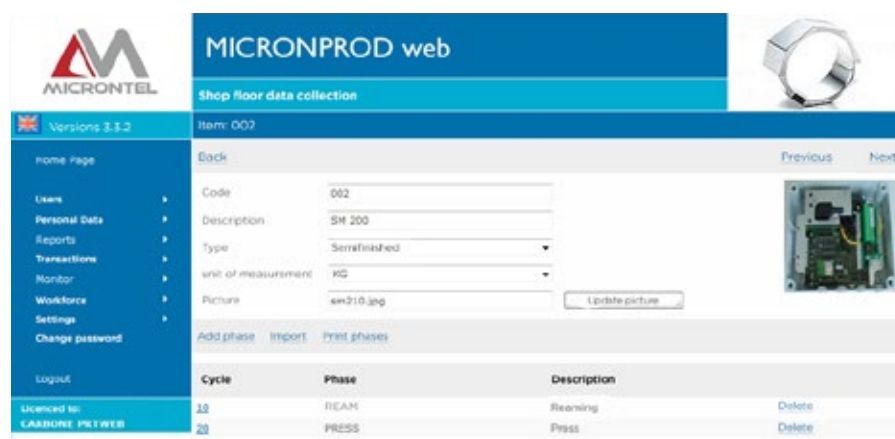
Warehouse article / Stock record management

The table of articles includes several features related to the management of the corporate articles.

- ▶ Recorded classification of the items and their relative typology (raw materials, semi-finished products, finished products);
- ▶ Warehouse stock management for different units of measure;

- ▶ Combination of warehouse inventories for different deposits;
- ▶ Elaboration of standard production.

If integrated with the portable data collection terminal, the articles compose the database for carrying out any loading, unloading, inventory and general warehouse management inquiries.





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WEB SOLUTION - REAL TIME MANAGE
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