



ITACA SRL CUSTOMIZED SOFTWARE SOLUTIONS

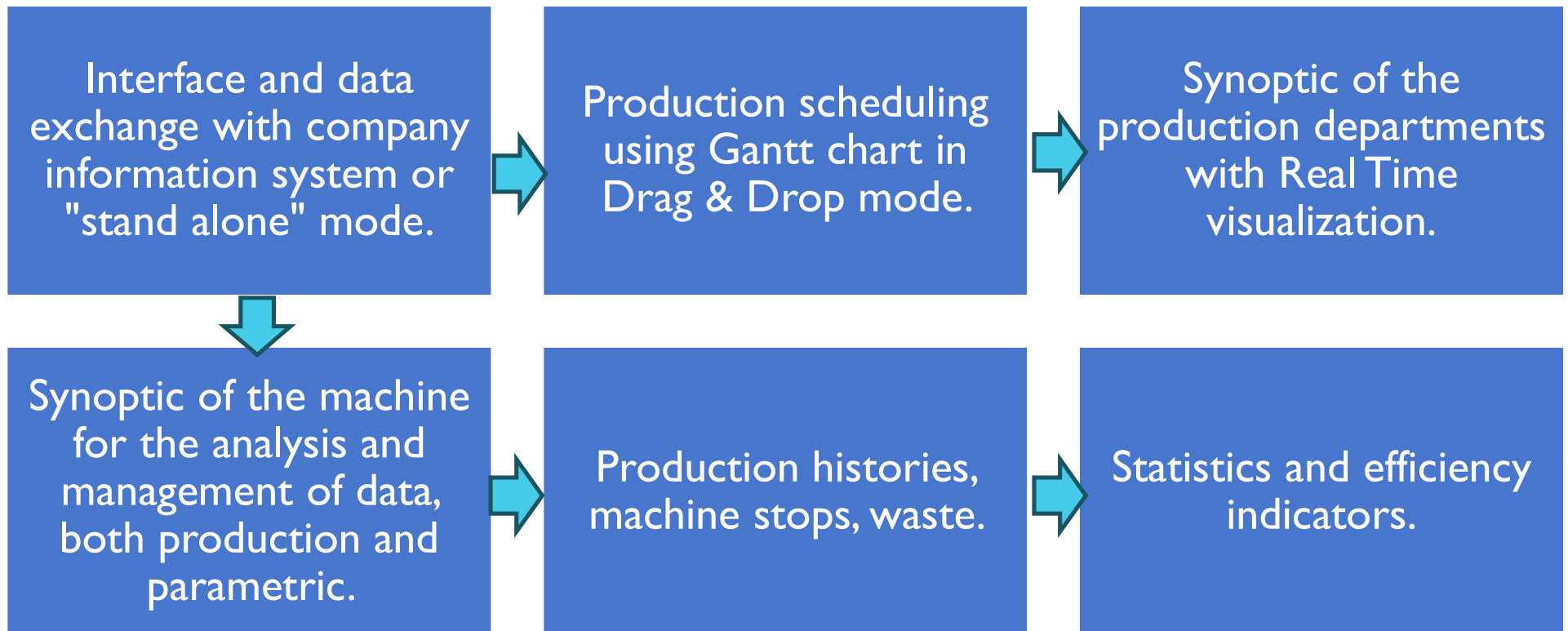
M.E.S. POLIFEMOXE



SCHEDULING, MONITORING AND PRODUCTION CONTROL



OUR SOFTWARE OPERATING PRINCIPLES



HOME PAGE –MAIN MENU

The screenshot shows the main menu of the Itaca Polifemo XE software. The left sidebar contains the following items:

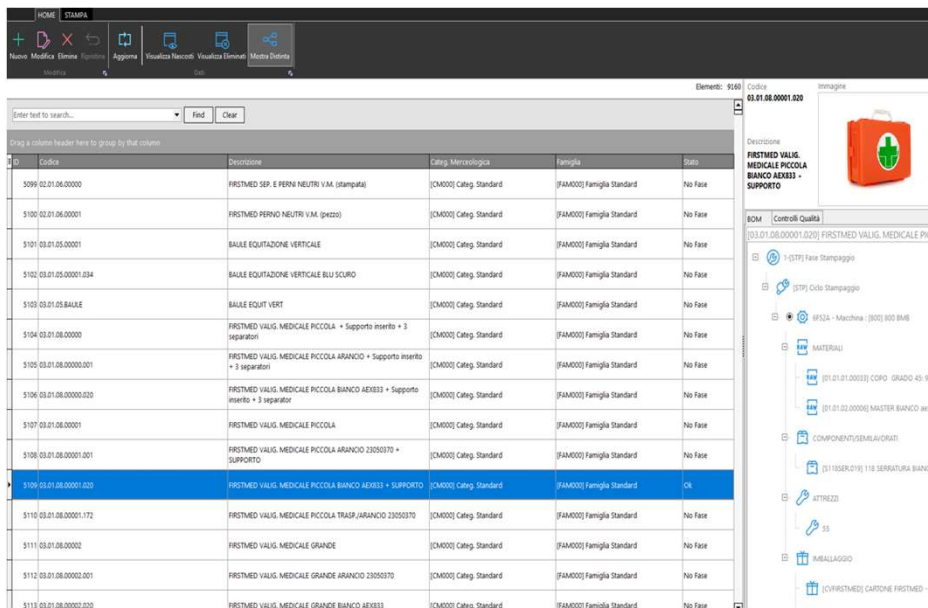
- LOGIN
 - Login/Logout
 - Cambio Lingua
- Anagrafiche
 - Anagrafiche
 - Anagrafiche Produzione
 - Anagrafiche Magazzino
- CALENDARIO
 - Calendario Lavorativo
 - Turni
- DEMO BARCELONA
 - Gantt Demo
 - Sinottico Demo
- STORICO
 - Storico Produzione
 - Storico Fermi
 - Storico Scarti
 - Indicatori di Efficienza
 - Statistiche
 - Storico Tracciabilità Materiali
 - Storico Pesate
- Produzione/Fabbisogni
 - Gestione Ordini
 - Gantt Macchine
 - Calcolo Fabbisogni Lotti
 - Sinottico Completo
 - Stampe Lotto
 - Stampa Etichette

The main content area displays the Itaca Polifemo XE logo, which consists of a stylized 'i' inside a blue circle, the word 'itaca' in a serif font, and 'POLIFEMO XE' in a bold, sans-serif font.

- Homepage with menu and features, **designed** on user's needs or on Client's stations.

INTERFACE AND DATA EXCHANGE WITH THE COMPANY BUSINESS INFORMATION SYSTEM

The system can work both through data exchange with the lists and records present in the company business information system and in "stand alone" mode.



The screenshot displays the software interface with a table of items and a detailed view of a selected item. The table has columns for ID, Codice, Descrizione, Categ. Mercatologica, Famiglia, and Stato. The selected item is:

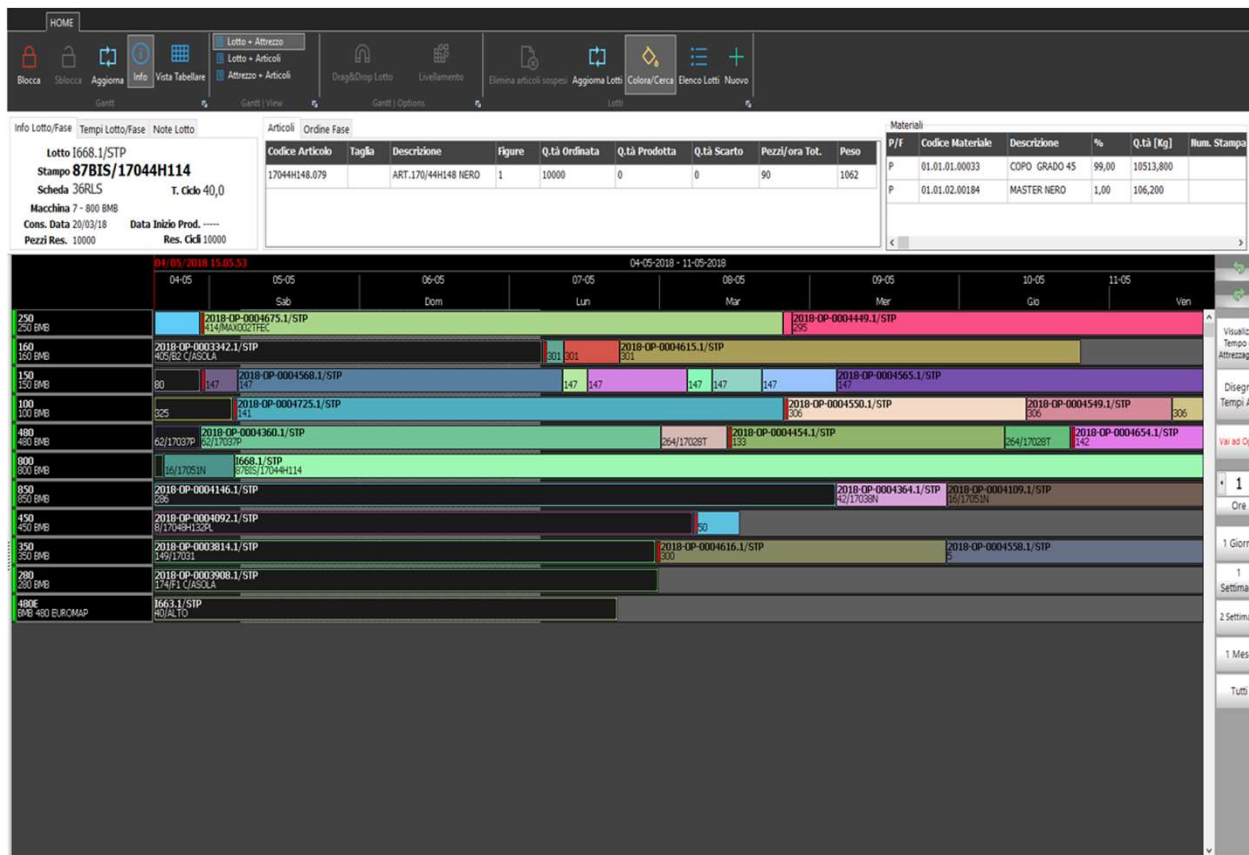
ID	Codice	Descrizione	Categ. Mercatologica	Famiglia	Stato
5099	03.01.06.00000	FIRSTMED SEP. E PERNI NEUTRI V.M. (stampata)	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5100	03.01.06.00001	FIRSTMED PERNO NEUTRI V.M. (pezzo)	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5101	03.01.05.00001	BAULE EQUITAZIONE VERTICALE	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5102	03.01.05.00001.034	BAULE EQUITAZIONE VERTICALE BLU SCURO	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5103	03.01.05.00001	BAULE EQUITAZIONE VERTICALE	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5104	03.01.08.00000	FIRSTMED VALIG. MEDICALE PICCOLA + Supporto inserito + 3 separatori	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5105	03.01.08.00000.001	FIRSTMED VALIG. MEDICALE PICCOLA ARANCIO + Supporto inserito + 3 separatori	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5106	03.01.08.00000.020	FIRSTMED VALIG. MEDICALE PICCOLA BIANCO ADE333 + Supporto inserito + 3 separatori	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5107	03.01.08.00001	FIRSTMED VALIG. MEDICALE PICCOLA	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5108	03.01.08.00001.001	FIRSTMED VALIG. MEDICALE PICCOLA ARANCIO 2305070 + SUPPORTO	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5109	03.01.08.00001.020	FIRSTMED VALIG. MEDICALE PICCOLA BIANCO ADE333 + SUPPORTO	[CM002] Categ. Standard	[FAM002] Famiglia Standard	OK
5110	03.01.08.00001.172	FIRSTMED VALIG. MEDICALE PICCOLA TRAIARANCIO 2305070	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5111	03.01.08.00000	FIRSTMED VALIG. MEDICALE GRANDE	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5112	03.01.08.00000.001	FIRSTMED VALIG. MEDICALE GRANDE ARANCIO 2305070	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase
5113	03.01.08.00000.020	FIRSTMED VALIG. MEDICALE GRANDE BIANCO ADE333	[CM002] Categ. Standard	[FAM002] Famiglia Standard	No Fase

The detailed view on the right shows the description: "FIRSTMED VALIG. MEDICALE PICCOLA BIANCO ADE333 + SUPPORTO" and a list of components including "Ciclo Stampaggio", "MATERIE", "COMPONENTI/DEALAVORATI", and "ATTREZZI".

- **Polifemoxe supervision software** enables management of items, boms and production orders.
- In fact, it is possible to choose the necessary items from the system or acquire them from the Customer's management system.
- Images or photos that recall its shape and composition can be associated with the article.
- The solution involves the use of a **production server** as a data collector and **multiple clients** within the network, with access rights varying according to the workstation and the user.

PRODUCTION SCHEDULING

GANTT chart shows the scheduling for each machine.



Each 'brick' corresponds to an order or production batch.

- **Scheduling** is updated and realigned in **real-time**, thanks to the direct connection with the department machines.
- The system provides a range of useful information, including **production completion forecasts**, operator engagement, setup time visualization, etc.
- Scheduling involves the working calendar of the machines, which can be set and changed.

PRODUCTION SCHEDULING

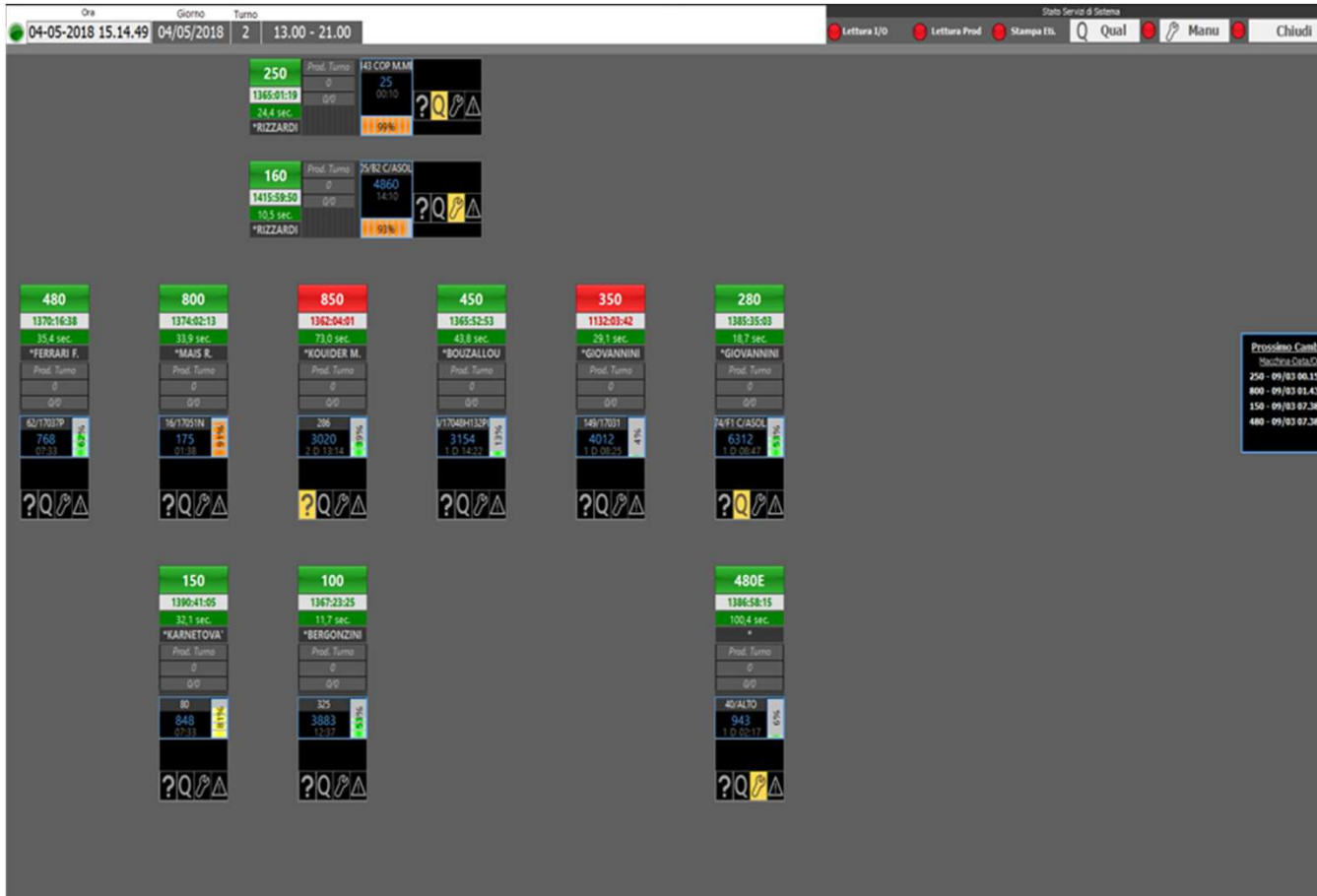
Scheduling is performed using Drag & Drop mode

The screenshot displays a software interface for production scheduling. At the top, there is a navigation bar with icons for 'HOME', 'Blocca', 'Sblocca', 'Aggiorna', 'Info', 'Vista Tabellare', 'Gantt', 'Drag&Drop Lotti', 'Livellamento', 'Elimina articoli sospesi', 'Aggiorna Lotti', 'Colora/Cerca', 'Elenco Lotti', and 'Nuovo'. Below this, there are several panels:

- Info Lotto/Fase:** Shows details for 'Lotto 2018-OP-0003908.1/STP' with 'Stampo 174/F1 C/ASOLA' and 'Scheda GH11L'. It includes 'Macchina 11 - 280 BMB', 'Cons. Data 07/03/18', 'Data Inizio Prod. 07/03 09.20', 'Pezzi Res. 12624', and 'Res. Ck3 6312'.
- Articoli Ordine Fase:** A table with columns: Codice Articolo, Taglia, Descrizione, Figure, Q.tà Ordinata, Q.tà Prodotta, Q.tà Scarto, Pezzi/ora Tot., and Peso. It lists 'ART. F1 MM 195X70X35' with '2/2' figure and '27100' quantity.
- Materiali:** A table with columns: P/F, Codice Materiale, Descrizione, %, Q.tà [Kg], and Num. Stampata. It lists '01.01.01.00028' with 'RANDOM' description and '100,00' percentage.
- Lotti/Fase:** A table with columns: Lotto, Fase, Data di Consegna, and Stampo. It lists various lot numbers and their corresponding delivery dates and stamp numbers.
- Gantt Chart:** A central area showing a timeline from 04-05-2018 to 11-05-2018. It displays a grid of days (Sab, Dom, Lun, Mar, Gio, Ven) with horizontal bars representing production orders. The bars are color-coded and labeled with lot numbers and machine codes.
- Visualizza Tempo di Attrezzaggio:** A sidebar on the right with options for 'Disegna Tempi Att.', 'Vai ad Oggi', and a time scale from '1 Ore' to '1 Mese'.

While scheduling, user just select the order raw and “**drag**” it to the machine level.

- The system automatically uses the information entered in the bom list to allow the release of the order 'brick' only on machines **suited and compatible** with the production of that specific item.
- Scheduling can be carried out not only manually but also with **automatic levelling**. The software will use an algorithm to "hook" the various orders to be programmed, according to the criteria chosen by the operator.
- With the same screen, user can search for what has been programmed using the “**Color/Search**” mode, which allows all optimizations (by material, by article, by batch ...).



The synoptic corresponds to the **corporate layout** of the various production departments.

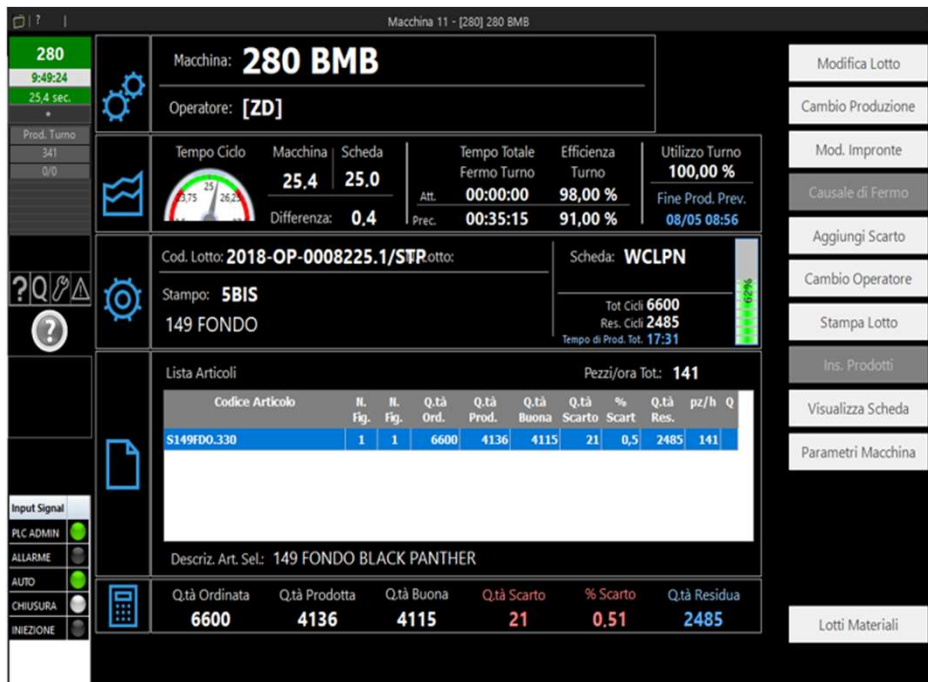
- **In real time** you have a series of **useful information**, including machines status, duty cycle, order progress, various alarms set up from personal data, the operator code, etc.
- **Connection to the machines** is defined according to the type of machine itself. If possible, we prefer connections through predefined standard communication protocols, compliant to **Industry 4.0 protocol**.

SYNOPTIC DEPARTMENT

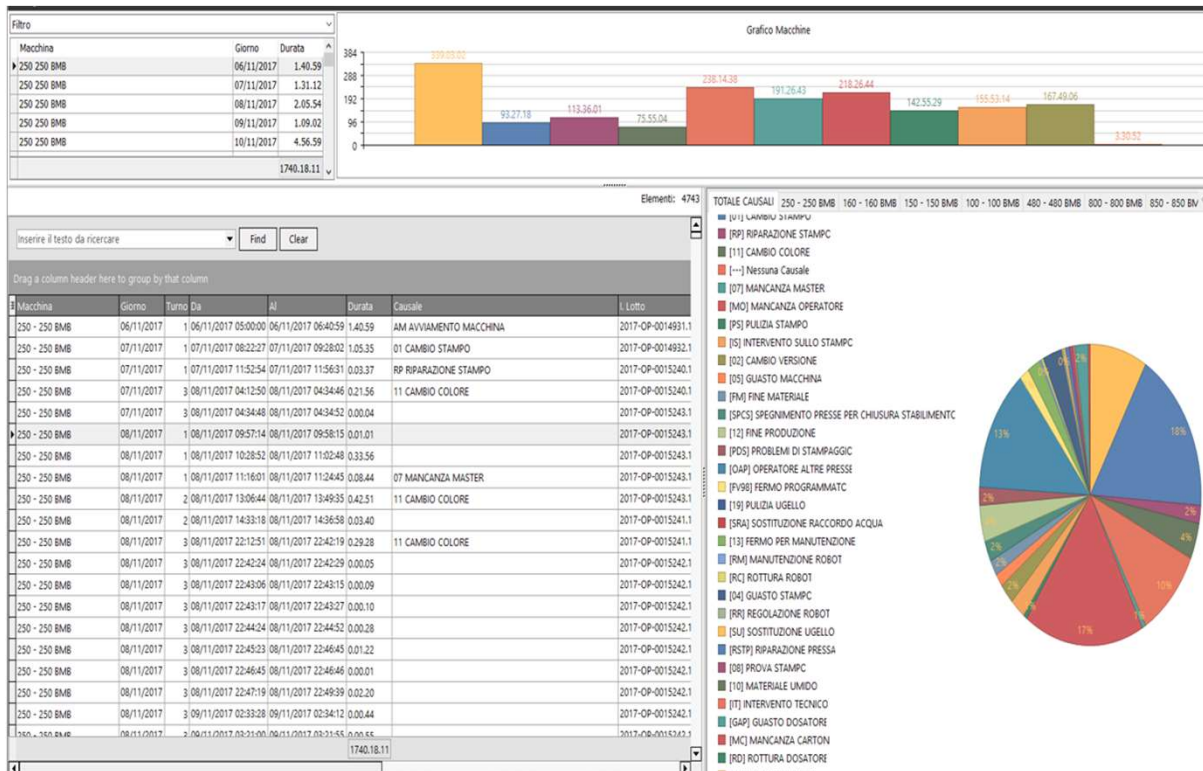
Software, thanks to department synoptic, allows a real-time display of the machine's status.

MACHINE SYNOPTIC

Here you can find information available for operator and activities that can be performed



- The **operator**, from the machine synoptic, can view a series of information related to production, such as duty cycle, rate of job progress, the downtime during shift, the expected end time, and so on.
- Operator can carry out **useful activities for proper functioning, including definitions for the downtime, waste management, production change, alarm management**, batch allocation of used materials.
- Operator can also view the **phase sheet**, which contains information on the **machine working parameters** and further documentation, if any.



In addition to the production tracking, our software can → track production, **downtime and waste**, split by cause, by machine, by article...

Charts with data are available in standard formats and can be exported in many versions, as well as being structured as **Pivot charts**.

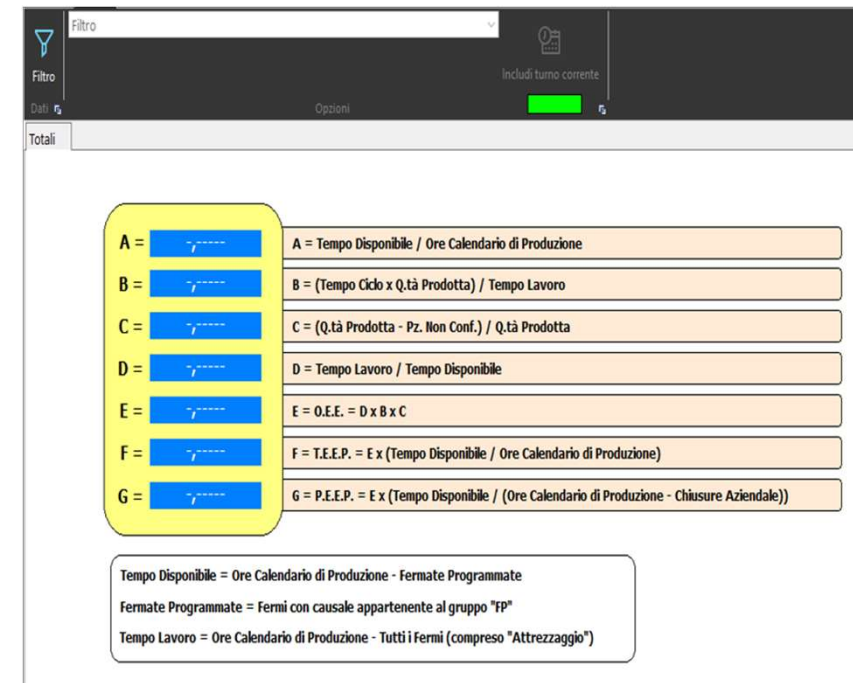
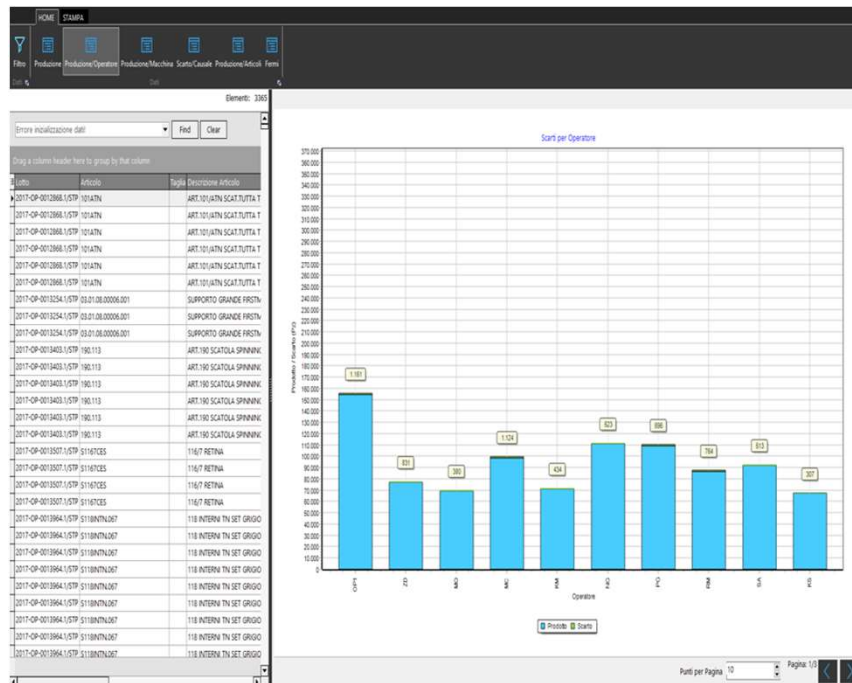
PRODUCTION TRACKING

Software supplies production data tracking, thanks to an advanced filter search.

EFFICIENCY INDEX AND STATISTICS

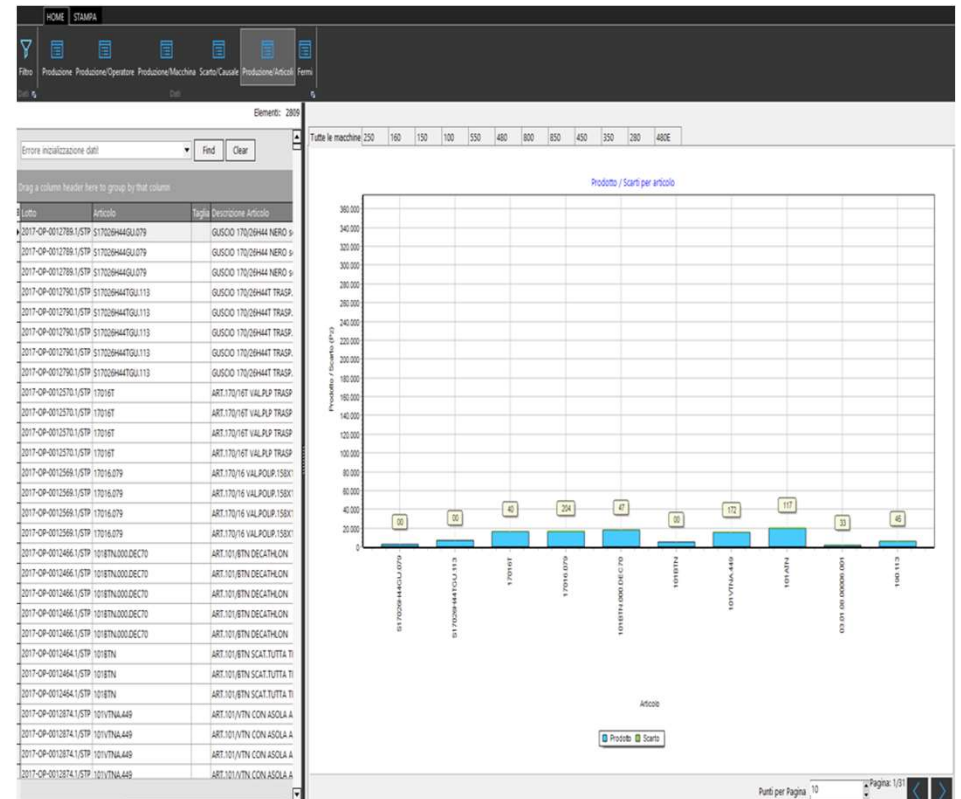
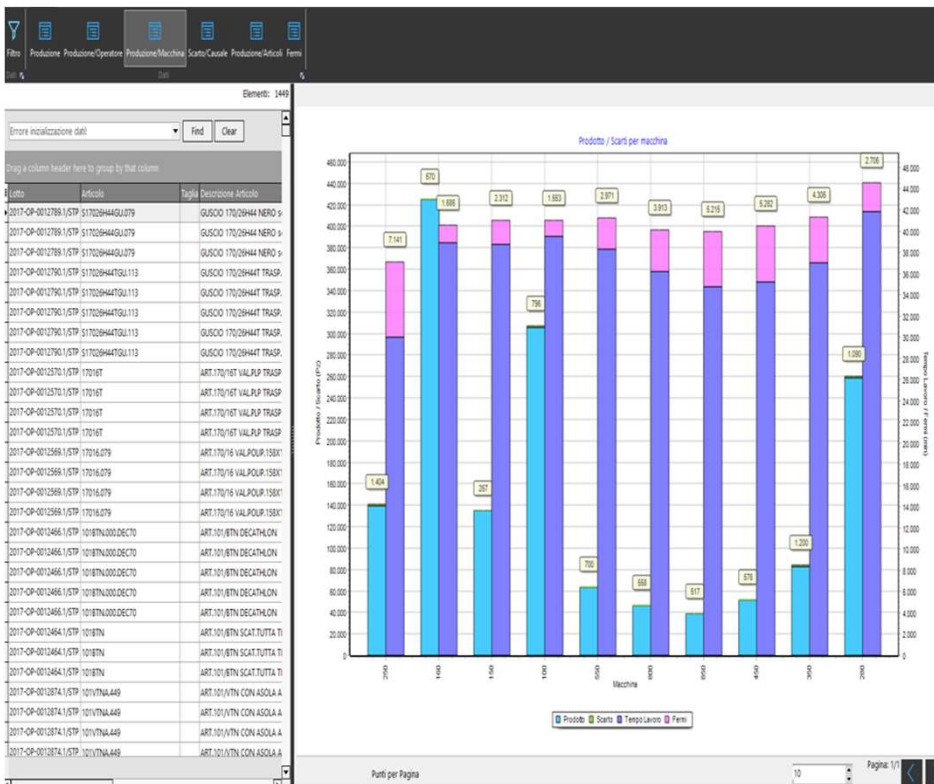
The system allows consultation of various Production Statistics and related efficiency index.

From a statistical point of view, various **KPIs** and **O.E.E.** are available, studied on the specific needs of our customers.



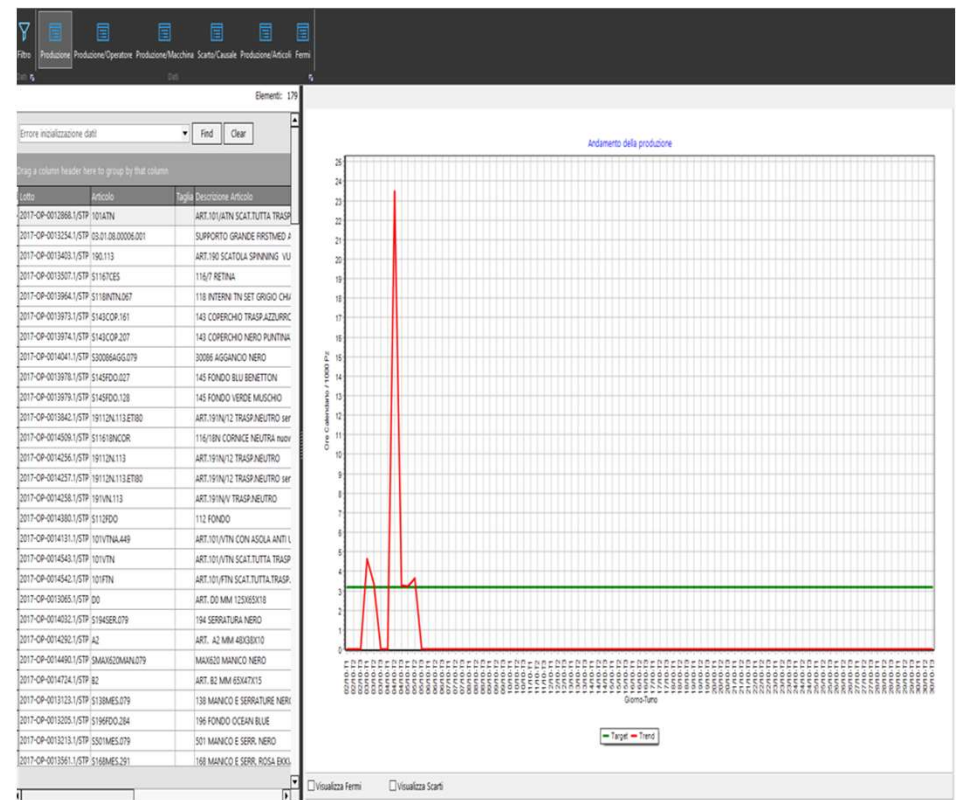
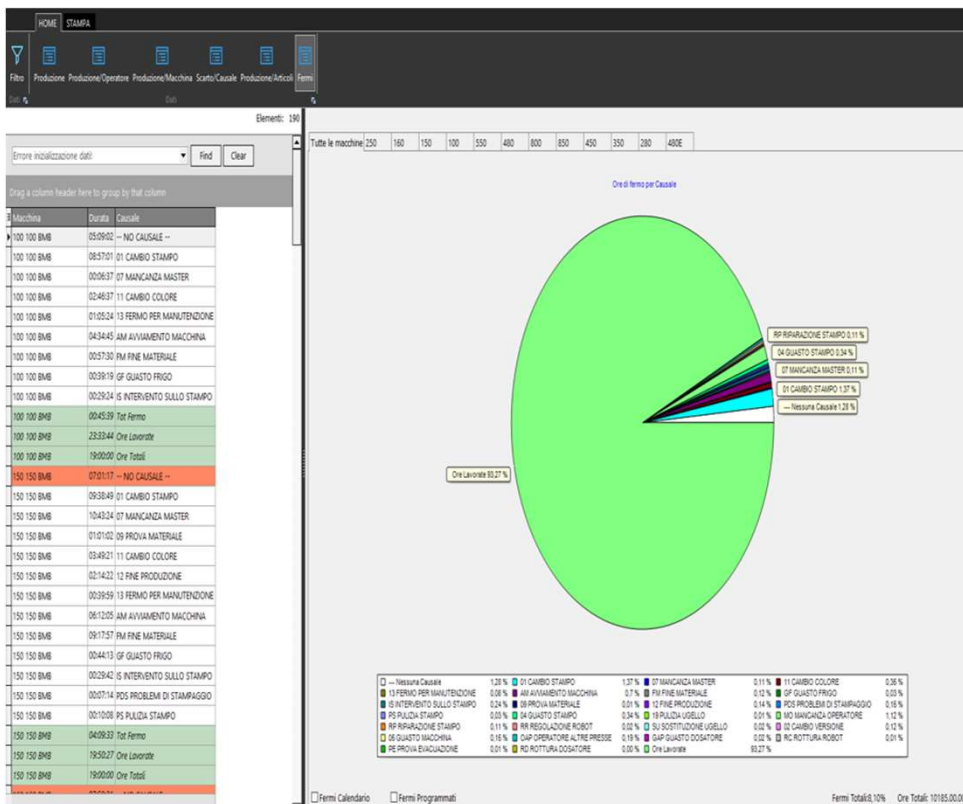
STATISTICS REPORTS

Examples of Charts and Reports data split by Machine and/or Article.



STATISTICS REPORTS

Charts and Reports with data split by **machine downtime cause** and/or by **production timing**.



SOME OPERATIONS AND CONTROLS THAT CAN BE CARRIED OUT BY OUR SOFTWARE



Batch need assesment.



Operators **time assesment**.



Manufacturing process management (with progress control).



Quality Control (on each order), with specific alerts.



Maintenance control (on equipment and machines), with dedicated alerts.



Label printing management.



Material traceability and tracking.



Document Management in **PDF** and **JPG** formats.



Modules that can be integrated into the Business Management System



Customized interfaces according to customer needs.



Operational **flexibility**.



Clients managed from different platforms fixed and mobile.



Tracking data exportable in standard formats.



Alerts management with customized outputs.



Compliance with **INDUSTRY 4.0** requirements.

PRODUCTION MANAGEMENT SYSTEM POLIFEMOXE MAIN FEATURES



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