

ITACA SRL CUSTOMIZED SOFTWARE SOLUTIONS M.E.S. POLIFEMOXE





SCHEDULING, MONITORING AND PRODUCTION CONTROL





OUR SOFTWARE OPERATING PRINCIPLES

Interface and data exchange with company information system or "stand alone" mode.



Production scheduling using Gantt chart in Drag & Drop mode. Synoptic of the production departments with Real Time visualization.

Synoptic of the machine for the analysis and management of data, both production and parametric.

Production histories, machine stops, waste. Statistics and efficiency indicators.



HOME PAGE -- MAIN MENU





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.

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- 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.

Lotto 1668.1/STP Stampo 87BIS/12 Scheda 36RLS Macchina 7 - 800 BMB Cons. Data 20/03/18 Pezzi Res. 10000		Articoli Ordine Fase Codice Articolo Taglia 17044H148.079	Descrizione ART.170/44H148 NERO	Figure 1	Q.tà Ordinata 10000	Q.tà Prodotta 0	Q.tà Scarto O	Pezzi/ora Tot. 90	Peso 1062	P	Codice Materiale 01.01.01.00033 01.01.02.00184	Descrizione COPO GRADO 45 MASTER NERO	% 99,00 1,00	Q.tà [Kg] 10513,800 106,200	Num. Stam
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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

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72.1/STP	30/03/18	62/17037P	800 800 BMB	16/17051N 87	68.1/STP 805/17044H114						
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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 suitable 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 ...).



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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

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- 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.



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250 - 250 BMB	08/11/2017		08/11/2017 22:44:52 0.00.		2017-OP-0015242.1	ISUI SOSTITUZIONE UGELLO
250 - 250 BMB	08/11/2017		08/11/2017 22:46:45 0.01.	-	2017-OP-0015242.1	[RSTP] RIPARAZIONE PRESSA [08] PROVA STAMPC
250 - 250 BMB	08/11/2017		08/11/2017 22:46:46 0.00.		2017-OP-0015242.1	[US] PROVA STAMPC [10] MATERIALE UMDO
250 - 250 BMB	08/11/2017		08/11/2017 22:49:39 0.02.		2017-OP-0015242.1	IT] INTERVENTO TECNICO
250 - 250 BMB	08/11/2017		09/11/2017 02:34:12 0.00.		2017-OP-0015242.1	GAP] GUASTO DOSATORE
250 . 250 04/0			00/11/2017 02:21:55 0.00		2017-00-0015242.1	[MC] MANCANZA CARTON

In addition to the production tracking, our software can \rightarrow 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

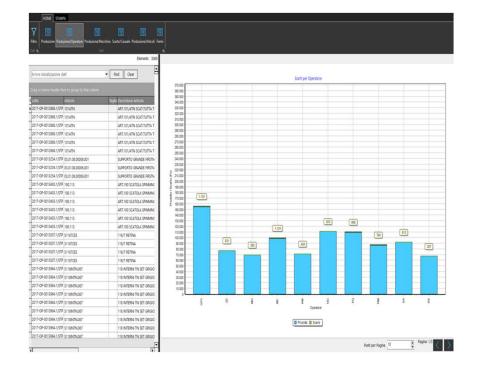
Software supplies production data tracking, thanks to an advanced filter search.



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.





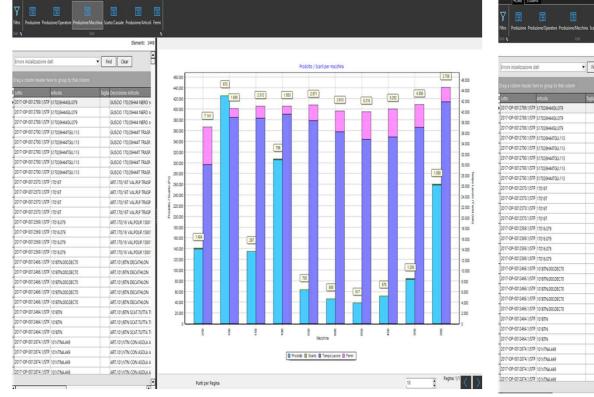
Fermate Programmate = Fermi con causale appartenente al gruppo "FP"

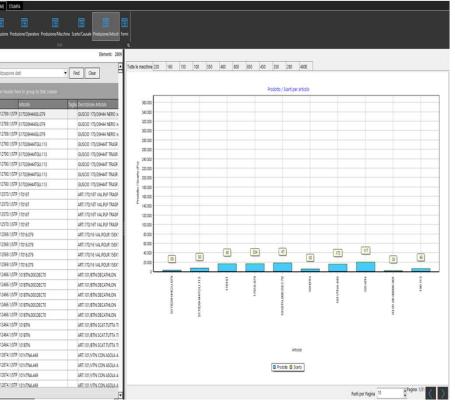
Tempo Lavoro = Ore Calendario di Produzione - Tutti i Fermi (compreso "Attrezzaggio")



STATISTICS REPORTS

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

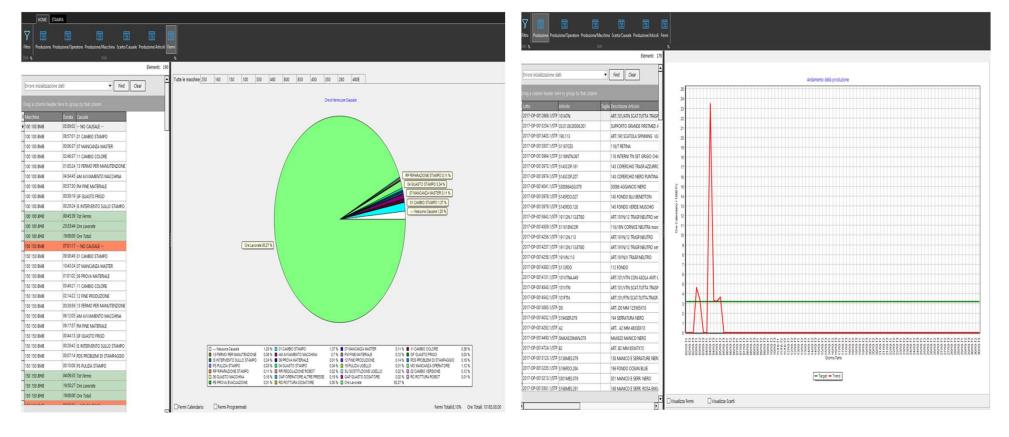






STATISTICS REPORTS

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**.

machines), with

dedicated alerts.



Manufacturing process management (with progress control).



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



Maintenance control (on equipment and



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.

Interstation of the second se

Alerts management with customized outputs.

Compliance with INDUSTRY 4.0 requirements.

PRODUCTION MANAGEMENT SYSTEM POLIFEMOXE MAIN FEATURES





ITACA S.R.L.

VIA SANDRO PERTINI, 12 63812 MONTEGRANARO (FM) ITALIA P. IVA: 01187300437 TEL.: +39 0734.445279 +39 0734.445294

WWW.ITACASW.IT



