



Your Performance Partner  
**MES/MOM, Time Attendance  
& Access Control**



## Our Story:

- Company established in 1996 in partnership with the Sopra Group
- Specialized in MES Solution (Manufacturing Execution System), Time Attendance, and Access Control



## Alpha3i Today

2018

- ▶ 42 employees
- ▶ 4 Million turnover  
(With 1/3 done internationally)

100%

Growth over 5  
years

12%

Of our turnover  
devoted to our R&D  
activities

10 countries

Global  
Presence  
Location in the USA, Europe  
and Asia



# Alpha3i Package

## → Hardware



Acquisition Terminals  
Multi-Brand, multi-devices stationary  
and mobile



## → Software



Global management of your workshop data and efficiency, in order to improve and optimize your production.



Optimize your HR and TAM processes/Improve your human resources management.



Ensure your security and plant access management.



## → Services

### Audit & Consulting

Deploy a customizable solution, to meet your actual needs

### Integration & Project Management

The Guarantee of a delivered turnkey system

### Training

The guarantee that your collaborators can use CIMAG MES to its full potential

### Customer Support

A team dedicated to quality monitoring in direct connection with your production team



**cimag**  
Production

**MES/MOM**  
Software for the Industry 4.0





Production  
Cycle

- 40%



WIP Inventory

- 57%



Document  
Management

- 63%



Scrap

- 15%



Reactivity

+ 45%

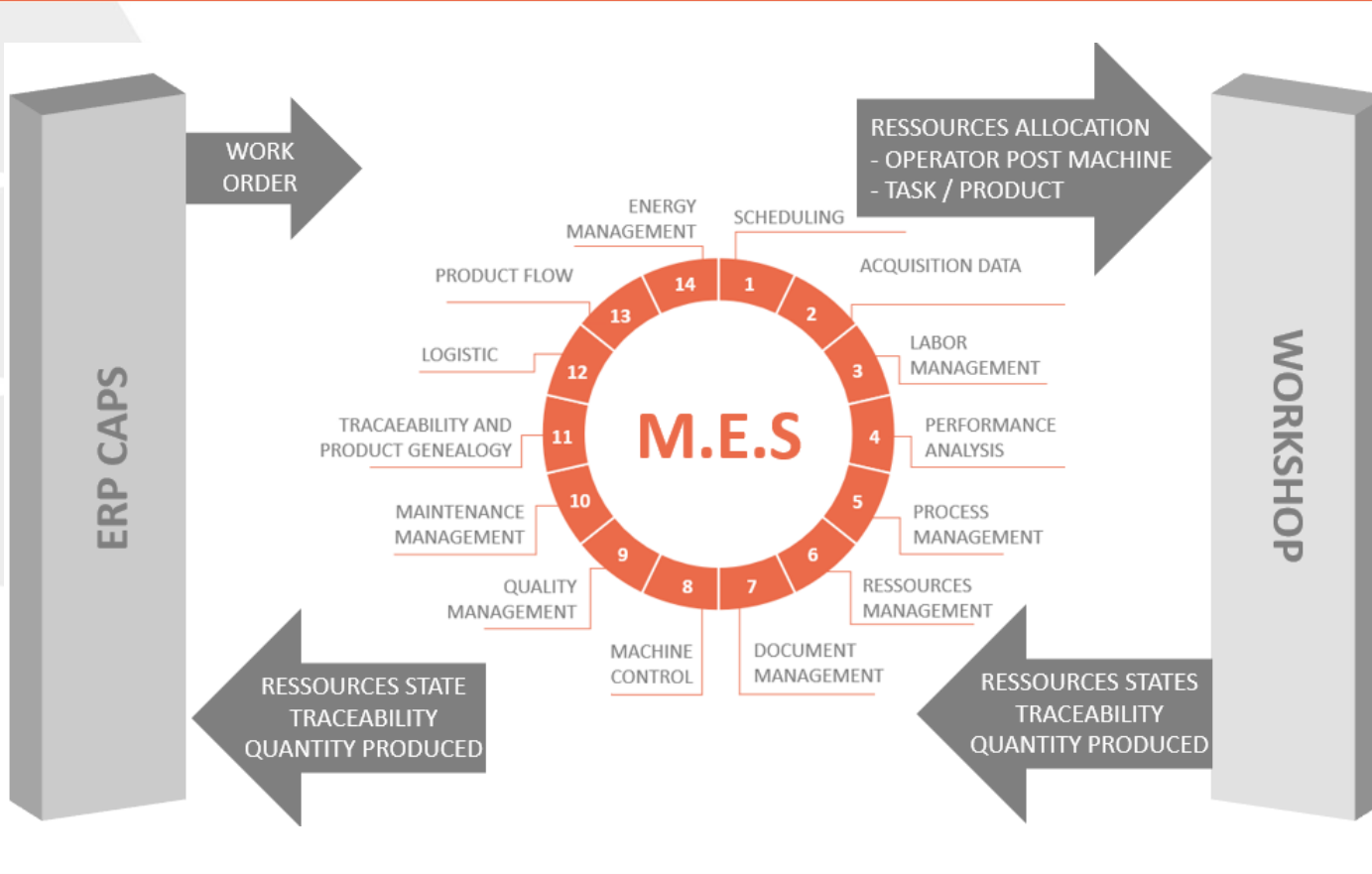


*Source MESA Study onto companies who have implemented an MES system, across all sectors.  
Data is from 75% manufacturers, 16% continuous processes, and 9% mixed manufacturing*


Mettallurgy, Plastics, Glass, Ceramics


Mechanical, Turning, Watches


Agribusiness, Chemicals, Medical and Other Industries



## MES

An Indispensable Tool to Increase Profitability

- Improve Inventory Accuracy
- Enhance Scheduling
- Increase Visibility
- Reduce Waste
- Maximize Productivity
- Optimize Training
- Comply with Customer Traceability Requirements



# Data Acquisition

## PRODUCTION TERMINAL



TAHO  
150



TAHO  
65



Server CIMAG  
PRODUCTION

## DATA COLLECTION Of production machines

1



Connection Module  
machine

2

Direct Connection

3

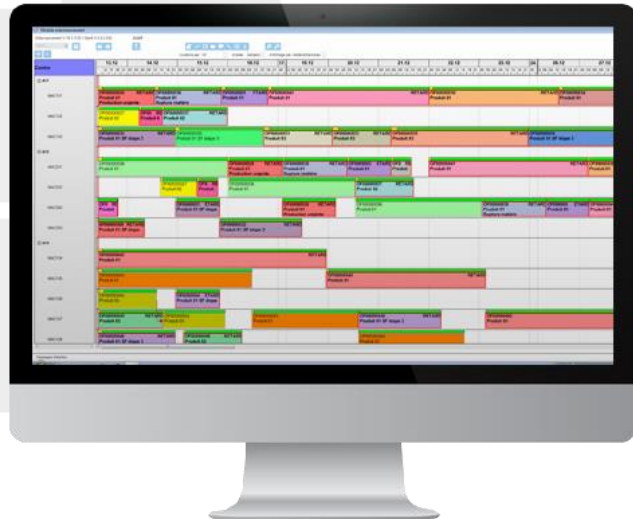


Connection Module  
machine – PLC

**OEE Real-time Monitoring**  
Calculated with reliable data  
Leads to relevant actions  
**Of Continuous improvement**

## MACHINES PRODUCTION





Visual alerts of scheduling conflicts

Alerts in the event of issues due to raw materials shortages

Allow production scheduling using alternative sequencing and bill of materials

Freeze particular work orders or periods and dates

Possibility to put work orders on hold until the bill of process is established

Provide a visual description of capacity load

Generate a realistic, feasible schedule



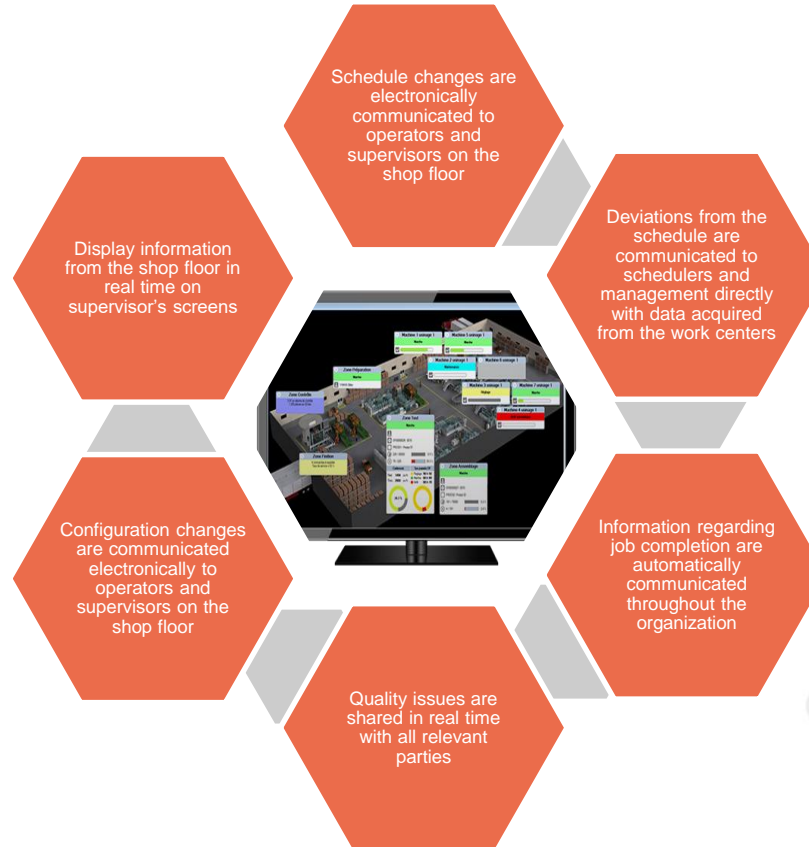
### Improves Scheduling

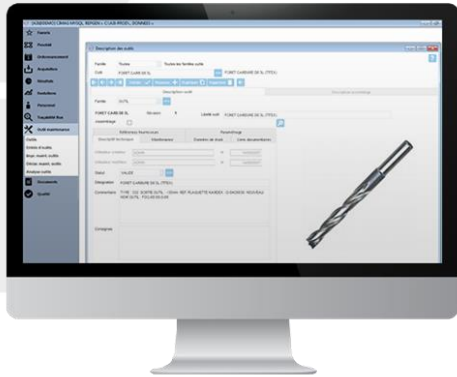
Based on our customers' experience, CIMAG Scheduling enabled them to achieve a **Schedule Attainment** performance of **over 90%**.



## Enhances Communication

Based on our customers' experience, CIMAG enhanced communication was instrumental in reducing the scrap factor and rework by more than 33% and increasing machine utilization by more than 15%.





- Make pickers aware of errors while they are picking raw materials and components
- For each WO, alerts are issued to operators in the event of deviations in the materials sequence
- For each WO, alerts are issued to operators in the event of errors regarding quantities
- Avoiding misplacing finished goods in the wrong warehouse location after production runs
- Helping operators preparing the correct finished goods required to fill customer orders
- Preventing loading the wrong finished goods to departing trucks



**Eliminates Production Errors**

According to our customers' experience, CIMAG has had a tremendous impact reducing operators' errors. Operators' errors cause rework, scrap, missing scheduled shipments, raw materials' shortages and other disruptions to the Supply Chain.



- Company including 100 employees
- Masterbatch manufacturer
- Mixing and extrusion production steps



- Extrusion lines advanced scheduling
- Production management for weighing station and extruders
- Monitoring of raw material use
- Production traceability and batch genealogy
- Machine connection
- ERP interface





Extrusion line management: bag label printing, sample identification, production line status reporting





#### **Inventory management**

- Raw material purchase order receipt
- Material labelling
- Finished products warehouse management
- ERP shipment confirmation

#### **Work Order scheduling**

- Sequencing optimization by color
- Dynamic raw material allocation

#### **Production management**

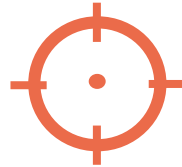
- Weighed quantity acquisition
- Bill of Material monitoring
- Extrusion line status reporting

#### **Traceability**

- Raw material warehouse management
- Finished goods labelling
- Batch genealogy



US-based international company  
4000 employees, 40 plants  
Master batch  
Plastic Industry







1	CPC Sweden	Astorp
2	CPC United Kingdom	Crumlin
3	CPC Belgium	Opglabeeek
4	CPC Poland	Plock
5	CPC Hungary	Biatorbágy
6	CPC France	Oyonnax
7	CPC Italy	Gorla
8	CPC Spain	Valence



PBH FSU 105 E    NAT  
 25,00 KG  
 2H170143AA    10752801  

 A10002

**45 extrusion  
 lines  
 170 PANEL PC  
 60 Mobile  
 terminals  
 1 centralized  
 server**





International group



**38,062**  
employees



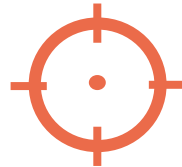
**99**  
sites



**24**  
countries



1 site in France  
530 employees  
1 site in Poland  
280 employees



Handmade Seals for the Aerospace Industry

- Gave a greater visibility of the workshop
- Exposed issues
- Helped production management
- Ability to schedule WOs in relation with the number of operators (400 per week)
- Quality control recording
- OEE calculation in real time



HUTCHINSON		Effectif Global	21	Présentisme	100 %		
UAP1 18:02		Effectif Théorique	21	Efficience	74 %		
		Effectif Présent	21				
Effectif Global	UC11	Présentisme	100 %	Effectif Global	UC12	Présentisme	100 %
Théorique	6	Efficiency	100 %	Théorique	3	Efficiency	100 %
Présent	6	OTD	0 %	Présent	3	OTD	0 %
		Heures perdues	0 %			Heures perdues	0 %
Effectif Global	UC13	Présentisme	100 %	Effectif Global	UC14	Présentisme	100 %
Théorique	2	Efficiency	100 %	Théorique	2	Efficiency	100 %
Présent	2	OTD	0 %	Présent	2	OTD	0 %
		Heures perdues	0 %			Heures perdues	21 %
Effectif Global	UC15	Présentisme	0 %	Effectif Global	UC16	Présentisme	100 %
Théorique	0	Efficiency	0 %	Théorique	2	Efficiency	100 %
Présent	0	OTD	0 %	Présent	2	OTD	0 %
		Heures perdues	0 %			Heures perdues	22 %
Effectif Global	UC17	Présentisme	100 %	Effectif Global	UC18	Présentisme	100 %
Théorique	2	Efficiency	100 %	Théorique	4	Efficiency	100 %
Présent	2	OTD	0 %	Présent	4	OTD	0 %
		Heures perdues	0 %			Heures perdues	23 %

HUTCHINSON Retard (h) : 70  
Atelier scan CF

Séquenceur Confection UC34

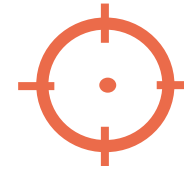
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767241.01/01	0_23855A	09/05/2017 02:00	OK	OK		1/0 (0)	0/4 (0)	C
775561.07/20	0_23268Z	09/05/2017 19:36	OK	OK		0/1 (0)	0/1 (0)	A
767949.01/01	0_78680W	09/05/2017 23:27	OK	OK		0/1 (0)	0/1 (0)	C
775561.08/20	0_23268Z	10/05/2017 03:11	OK	OK		0/1 (0)	0/1 (0)	A
776020.02/08	0_86746J	10/05/2017 03:40	OK	NA		2/3 (0)	2/3 (0)	A
771715.01/03	0_21934Y	10/05/2017 05:31	OK	NA		0/4 (0)	0/4 (0)	C
760111.04/04	0_94405E	10/05/2017 14:02	OK	NA	II	0/4 (0)	0/4 (0)	B
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765044.01/04	0_85634H	11/05/2017 00:52	OK	NA		1/3 (0)	1/3 (0)	A

- 4 supervision screens
- 15 sequencing screens
- 70 panel PC

# STÄUBLI



International group  
1200 employees in the largest site  
500 employees in the second site  
Industrial robot manufacturer



- Production management for all sites (time, quantity produced)
- Scrap quantity monitoring
- Document management (technical drawings, sequencing instructions, etc.)
- Batch traceability
- Checklists
- ERP interfaces

Graphite components manufacturer

1 production site in Italy

1 production site in Ohio

1 raw material warehouse in West Virginia

1 finished goods warehouse in Texas



**40 PANEL PC**  
**15 mobile terminals**  
**8 weeks deployment**  
**for each site**

- Remnant stock management
- WO launching
- WO scheduling
- Batch traceability
- Raw material identification
- Semi finished products identification
- Finished goods labelling
- Quality inspection plan





- International Group
- 1500 employees, 11 plants on 4 continents
- Largest production site equipped with CIMAG in France
- Foundry and packaging
- Global leader for steel abrasive



- Stock management for semi-finished products
- Work Order launching
- WO scheduling
- Packaging line supervision
- Pallet labelling
- Data acquisition for stationary barcode reader
- Shipping confirmation
- ERP interfaces (AS 400)



Packaging line management



Packaging line supervision





# Thank You

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