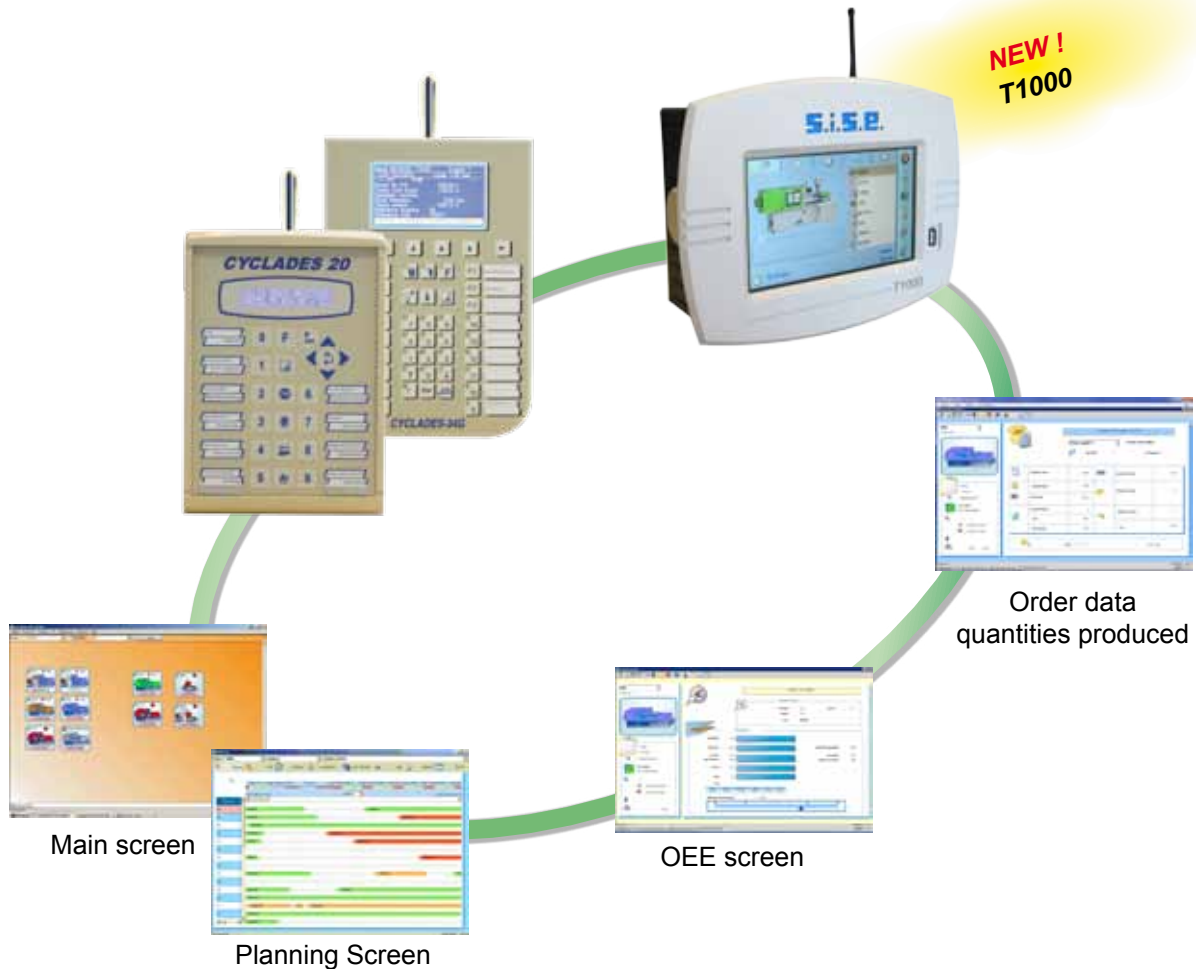


Cyclades

PRODUCTION MONITORING



Cyclades is a Production Monitoring System that provides real-time information from the production department.

The several available modules (ex: planning, HR, machine & tooling management) deliver production management optimization

Data is stored in SQL-type databases and is available in all relevant formats to the management staff.

TECHNOLOGY

- "Cyclades" is based on a **client/server** structure.

One dedicated Server ensures real time data acquisitions thanks to machine terminals or to a touch screen PC for manual assembly operations (New Cyclades module).

- "Cyclades" runs in **WINDOWS**

- "Cyclades" is developed using Visual Basic and C Language, linked to an SQL 2005 data base.

- "Cyclades" is a user-friendly and open system offering electronic data interchange with other management system (PPS, Maintenance, ERP, ...).

- "Cyclades" offers three types of terminal (T20, T34G, T1000) thus allowing the monitoring of the workshop, from the simplest to the most performing in terms of data upload (graphical display, SPC on parts and/or machine,...).

The three terminal types are completely interchangeable and can be combined in one workshop configuration.

The monitoring of your workshop is customized and will be configured to match your requirement.

- "Cyclades" offers as an option, an SPC module (statistical process control) parts and machine meeting many standard SPC requirements (Ford, Cnomo, etc ...).



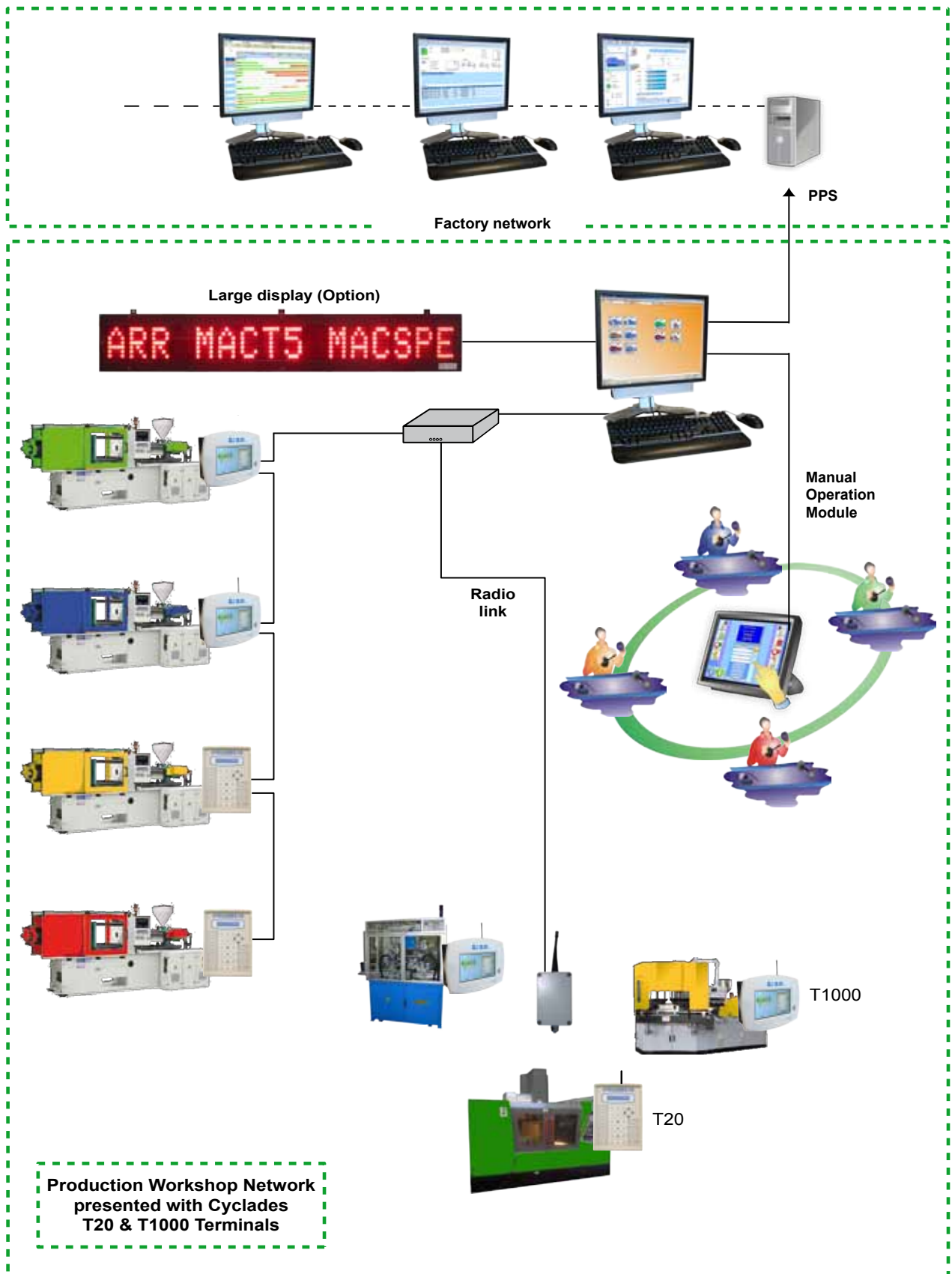
Cyclades
SPC screens

- SISE offers 3 levels of maintenance contracts:

- Level 1: telephone support & remote maintenance
- Level 2 : Level 1 + one on-site annual visit for control and upgrade
- Level 3 : Level 2 + one additional annual visit + full warranty on equipment back in our premises

PRODUCTION MONITORING

SYSTEM LAYOUT



PRODUCTION MONITORING

WORKSHOP TERMINALS

Cyclades 20

Management of downtime/scrap
(20 Causes)

- 10 Downtime reasons with direct access keys
- 10 Downtime reasons with access via function key

Modification on progress of a production order

Input of good parts in manual "(number or boxes)"

List of follow-on orders

Current order status

(Order No., Tool No., Quantity produced, scrap, remaining quantity...)



Cyclades 34G

Management of downtime/scrap
(30 Causes)

- 15 Downtime reasons with direct access keys
- 15 Downtime reasons with access via function key

Modification of the fulfillment of a production order

Input of good parts in manual "(number or boxes)"

List of follow-on orders

Current order status

(Order No., Tool No., Quantity produced, scrap, remaining quantity...)

3 programmable function keys

SPC parts and machine (Display at machine foot) (Option)

Cyclades T1000

Management of downtime/scrap (30 Causes) :

- 30 Downtime reasons with direct access keys

Modification of the fulfillment of a production order

Input of good parts in manual "(number or boxes)"

List of follow-on orders

Current order status

(Order No., Tool No., Quantity produced, scrap, remaining quantity...)

3 programmable function keys

SPC parts and machine (Display and alarm at machine foot) (Option)

Machine maintenance & tooling alarm

Data entry correction

Function	CYCLADES 20	CYCLADES 34G	CYCLADES T1000
Down time Automatic down time capture & counting Number of downtime causes	Yes 20	Yes 30	Yes 30
Scrap Input of number of scrapped parts Input of reasons for scrap Number of scrap causes	Yes Yes 20	Yes Yes 30	Yes Yes 30
Production order Number of follow-on orders Start a follow-on order Display running order Display a follow-on order Number of different product numbers manufactured simultaneously	5 Yes Yes Yes 10	5 Yes Yes Yes 10	5 Yes Yes Yes 10
Shift Normal schedule Flexible schedule (1)	Yes Yes	Yes Yes	Yes Yes
SPC (Option) Parts Process / Machine Transfer of the dimensions to the PC SPC display on the terminal	No No No No	Yes Yes Yes Yes	Yes Yes Yes Yes
Possible barcode reading on serial link	Yes (option)	Yes	Yes
Protocole network Standard (2) Radio IP Other	RS 485 Option No On request	RS 485 Option No On request	RS 485 Option No On request
Inputs for counting Number Max. frequency (3)	1 30 Hz	4 30 Hz	4 30 Hz
0/1 Inputs Number	2	8 (4)	8 (4)
Output relays (Contact 250V~ 3 A)	2	4	4
Serial Connection	1 (Option)	2	2

(1) The mode flexible schedule allows the totalling of the shift time only when the machine is running and during the coded downtime. The totalizing of machine time starts and stops with the machine production.

(2) Maximum length : 1.5km

(3) i.e. maximum speed of 200 cps/mn

(4) Binary encoding available

Indication of the average autonomy for the plastics industry :

CYCLADES 20 2 days
CYCLADES 34G 3 days
CYCLADES T1000 3 days