

How the mean time between failures can affect your **PROFIT**?

How to improve the production efficiency thus shorten the production **TIME**?

How to reduce the production **COST** by preventing the production loss?

Do you know your machine utilization?

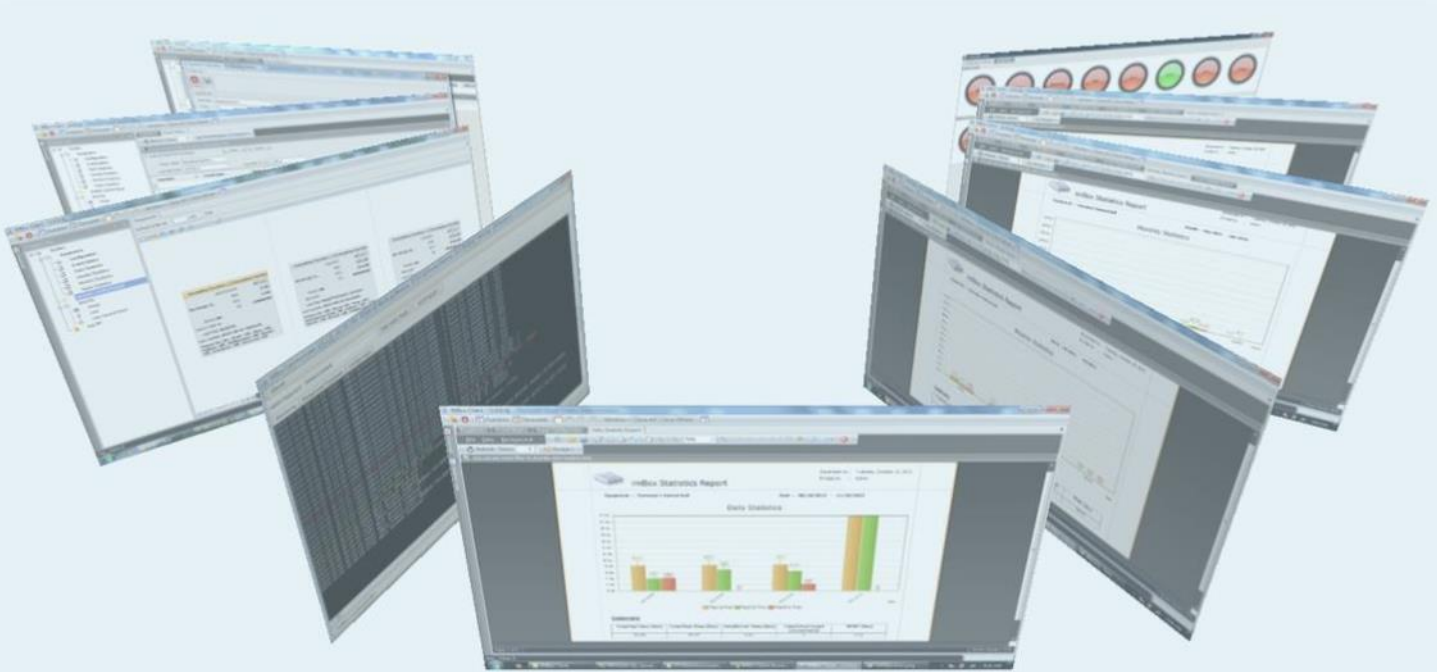
Let
imBox
find it out
for you!!!

Path to enhancement



imBox can :

- **Record** information of captured from machine.
- **Analyse** the recorded information.
- **Produce** comprehensive report (machine utilisation, production output, etc.)

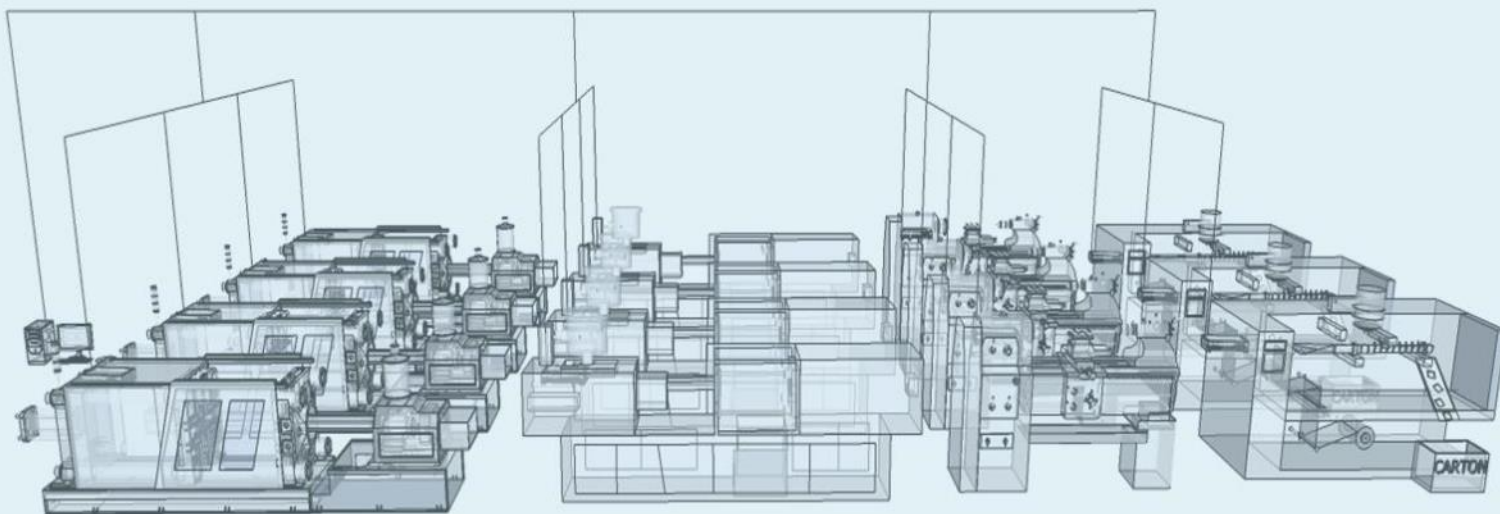


With the **imBox** analysed information, management can take the necessary actions such as regular maintenance to prevent failures or breakdown and reduce loss of production hours, in order to achieve **3i**:

- ♦ **I**nsight into the machine utilisation
- ♦ **I**mprove production efficiency
- ♦ **I**ncrease productivity.

FEATURES:

- *Easy to connect and implement.*
- *Uniform way of collecting the status from variety of machines.*
- *Real time monitoring of machine's performance indicator.*



FLEXIBILITY:

Customised computer software can be developed to extend **imBox** functionality. For example, the process workflow monitoring and control can be done with:

- ♦ Serial number captured by **imBox**.
- ♦ The customised computer software verified the serial number.
- ♦ Pass the result (accept / reject) to machine through **imBox**.

Specifications

POWER REQUIREMENTS

| | |
|-------------------|------------------------------|
| Power Input | 10-30vdc |
| Power Connector | Terminal block |
| Power Consumption | < 4W |
| Protection | No Power reversal protection |

ENVIRONMENT

| | |
|-----------------------|---------|
| Operating Temperature | 0~70°C |
| Storage Temperature | 0~70°C |
| Operating Humidity | 5~95%RH |

SERIAL COMMUNICATIONS

| | | |
|----------------|------------|----------------|
| No. of Port | 1x RS-232 | 1x RS-485 |
| Port Connector | DB9 Female | Terminal block |
| Data Bits | 8 | 8 |
| Stop Bits | 1 | 1 |
| Baud Rate | 9600 | 9600-57600 |

FORM FACTOR

| | |
|-----------|--|
| Dimension | 128.0(L) x 75.0(W) x 28.5(H) mm |
| Mounting | Bare PCB with 4-screw mounting hole DIN-Rail (with WAGO) |
| Weight | ~ 370g |

SOFTWARE

| | |
|------------------|----------------------------------|
| Utility Software | imBox Client, imBox Communicator |
|------------------|----------------------------------|

GENERAL

| | |
|----------------|---------------|
| LED Indicators | Power, DI, DO |
|----------------|---------------|

DATA INPUT

| | |
|--------------|----------------------------|
| No. of Input | 8 channels |
| Input | AC Optocouple (5vdc-24vdc) |
| Protection | Optocouple |
| Connector | Terminal block |

DIGITAL OUTPUT

| | |
|---------------|----------------|
| No. of Output | 8 channels |
| Output | Open Collector |
| Protection | Optocouple |
| Connector | Terminal block |

ANALOG INPUT

| | |
|--------------|----------------|
| No. of Input | 2-channel |
| Input | 0~5vdc, 25mA |
| Resolution | 10 bits |
| Connector | Terminal Block |

COUNTER

| | |
|-----------------|--|
| No. of Counter | 1-channel (Digital Input 6) |
| Input | Refer to Digital Input |
| Resolution | Max count 65,535 (16 bits) |
| Input Frequency | Max frequency = 10kHz ; Min Pulse Width = 50us |
| Protection | Optocouple |
| Connector | Terminal block |

EVENT

| | | |
|-----------------------|---------------------------|--------------------|
| Number of Event Store | Barcode (39 include time) | Counter/AI/DI (13) |
| | 33 sets data | 100 sets data |

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