

## Pneumatic machine maintenance Dynamic filing cabinet

### DESCRIPTION

- The filing cabinets of dynamic parts is automated pneumatic industrial application that is particularly adapted to the industrial maintenance training.
- Functioning is founded on the selection and organisation of parts from serial production (aimlessly arrival of parts/organised evacuation of them).
- Designed for diagnostic activities, replacement of faulty material, technique improvement of the machine...
- The structure is suitable with all the suggested activities.
- The unit is delivered complete with technical and didactic documentation , software and suitable links for PC.
- Design, manufacturing and material are industrial.
- System with automaton and piloting interface.



### DIDACTIC APPLICATIONS

- Diagnostic of fault
- Replacement / reparations of faulty elements
- Adaptation of repairing solution in front of replacement parts missing
- Improvement of the machine technology
- Physical integration of new functions
- Integration of new motions
- Modification of the programme
- Etc...

## Technical description:

Risable protection case with gaz jacks for access on 3 sides to the working area

Passage of cables of sensors and electro-distributors

Terminal for electric connection of the sensors and electro-distributors



Mecanism integrating the grainer, the system of storage identification of the parts together with the exhausting pipe

Electric enclosure integrating telemecanique automaton, electric securities, piloting station of the unit with magelis modulus for display, parametering and help for diagnostic

Working table with orifices for passage of pipes and cables toward terminals of connections

Storage for parts

## Diversity of the material :

- ⇒ **Actuators:** rotative with padles, jack with or without gear, guided and compact, depression suction pad, pliers...
- ⇒ **Distributors** - bistable and monostables 5/2 and 5/3 – integrated near the actuators
- ⇒ **Sensors** ILS, PNP inductive or magnetic, capacitive , vacuum sensor with incremental coder and sensor for detection of part profile
- ⇒ **Securities:** contact with key on case, electric and pneumatic cutters, security electrovalve...

## Activities of maintenance:

**Important :** all the suggested maintenance activities are associated to a real problematic that needs their operation (modification of the operation material, of the configuration of the system of the functions of the system for e.g.)

### Improvement of the system

- ⇒ **Adjustment of actuator's courses**
- ⇒ **addition of motions :** integration of an additional action chain (sensor, preactuator, jack) that allow the selection of parts with increased dimensions
- ⇒ **Changing of technology of actuators:** prehension through vacuum / prehension through pliers : justified by an evolution of the geometry of the parts to be handled
- ⇒ **Changing of technology of the sensors** – inductive/capacitive, justified by a modification of material on the parts you have to detect.

### Diagnostic and repairing:

- ⇒ **Inductive sensor**

**Utility:** electricity 230V/50Hz singlephased / compressed air : 5/10 bars

**Dimensions:** (L\*h en mm) : 1100\*840\*1710 (height case up = 2650mm) /

**Weight** : 200kg