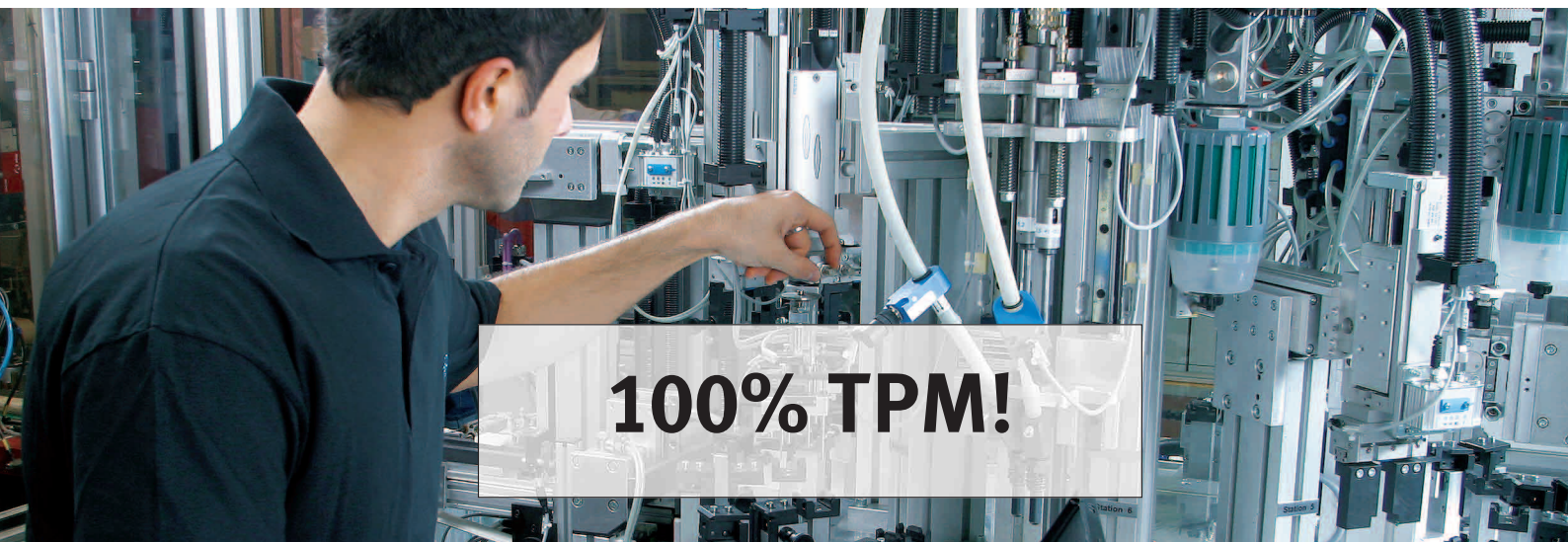


# Festo Total Productive Maintenance Support For maximum machine availability

**FESTO**



#### **Optimum cost-effectiveness and maximum process security:**

This can be achieved with Total Productive Maintenance (TPM). Our TPM Support service makes it easier for you to implement this, via numerous individual services which guarantee considerably better plant availability and performance.

#### **Safeguarding your competitive edge**

Innovative concepts such as Total Productive Maintenance make a crucial contribution towards better availability of machines, systems and installations. Possible weak points are continuously analysed and OEE (overall equipment effectiveness) is continuously improved – with the active participation of all staff involved. In short: TPM means the integration of maintenance into production.

#### **Holistic partnership**

Holistic thinking means considering processes from beginning to end. This is why Festo also applies the TPM concept to the area of TCO (total cost of ownership), from the design of components right through to services in the operational phase. On this basis, a product portfolio and related services that support TPM can improve your cost-effectiveness considerably.



Cutting costs



Process security



Full range of products & services

912.10.PSI →

Product Short Information

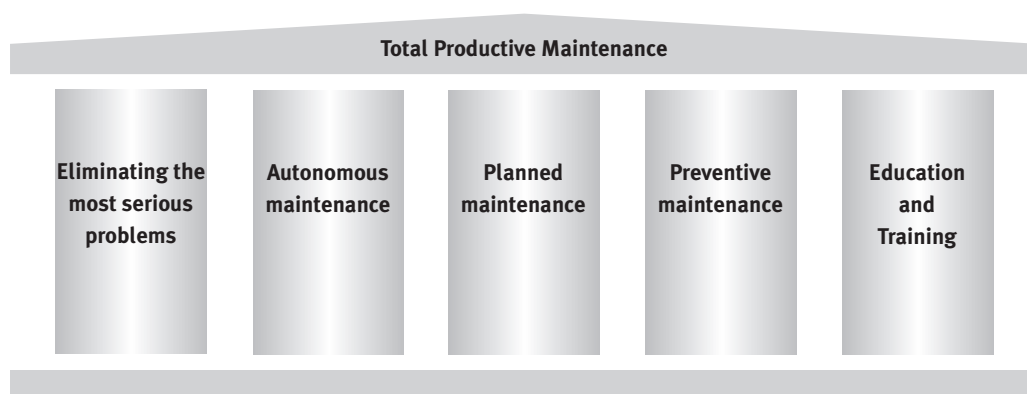
# Festo Total Productive Maintenance Support

## For maximum machine availability

### The services in detail

Five pillars – but many more services. All precisely tailored to the needs of total productive maintenance, reflecting the fact that excellent products, first-class know-how and knowledge of users' requirements are vital for a TPM partnership.

### The 5 pillars of maximum productivity



#### Eliminating the most serious problems

Identifying, prioritising and eliminating the six major types of loss (plant breakdowns, losses due to setting-up work, difficulties with starting-up, idle time, cycle-time losses and quality losses).

#### Festo's services:

- Energy Saving Services
- Air Quality Analysis (PSI 912.5)
- PROFIBUS Level Measurement
- Commissioning Support (PSI 912.8)
- Measurement of OEE (overall equipment effectiveness)

#### Autonomous maintenance

Production workers carry out some maintenance work in order to avoid unplanned downtimes.

#### Festo's services:

- Maintenance and cleaning schedules
- Checklists (product- and system-specific)
- Stock Label Service

#### Planned maintenance

Ensures maximum system availability – thanks to the specialist knowledge of our Maintenance Department.

#### Festo's services:

- Energy Saving Services
- Air Quality Analysis (PSI 912.5)
- Logistic Optimisation Service (PSI 912.2)
- PrePack Service (PSI 912.3)
- PreAssembly Service (PSI 912.3)
- Condition Monitoring/ System Diagnosis
- 24-h Emergency Service (PSI 912.6)
- Service Contracts (PSI 912.7)

#### Preventive maintenance

To ensure short run-up periods for production plant – right from the planning and purchasing phases, consideration is given to system maintenance, accessibility and ease of operation.

#### Festo's services:

- Air Consumption Analysis (PSI 912.4)
- Condition Monitoring/ System Diagnosis
- Consultancy provided by Festo specialists

#### Education and Training

Know-how terms of TPM for the development of skills and abilities of all employees in production and maintenance departments.

#### Festo's services:

- Support throughout all stages of autonomous maintenance.

#### • Training and consulting

- › Technology, e.g.:
  - Basic pneumatics knowledge
  - Maintenance and fault-finding with pneumatic and electropneumatic systems
  - Basic hydraulics knowledge for machine operators
  - Product-specific training
- › Human skills, e.g. :
  - Communication techniques
  - Team leadership
- › Basic principles of organisation and methodology, e.g.:
  - Objectives and methods of TPM
  - Problem-solving techniques for maintenance personnel
  - Optimising set-up times with SMED (Single Minute Exchange of Die)

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