



# Maintenance, Diagnostics and Commissioning

SUPPORT IN MAINTENANCE AND ASSESSMENT OF  
EQUIPMENT OPERATIONAL CONDITION

## KEY WORDS

EQUIPMENT,  
PRODUCTION,  
OPTIMIZATION

## DESCRIPTION

Maintenance service, operating protocols, setup, and diagnostics of the current condition of machinery for plastic production and recycling (shredders, boilers, injection molding machines, blow molding machines, among others). Preventive maintenance plans are designed considering electrical, mechanical, electronic, and software components. User guides, brochures, and manuals are generated for machinery operating protocols. This extends the lifespan of equipment, reduces failures, prevents delays, and lowers costs for repairs or spare parts. Ideal for SMEs seeking to improve the efficiency and sustainability of their processes.

## AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Machinery maintenance plan
- Inspection of electrical panels and cooling system
- Optimization of control practices
- Diagnosis and monitoring of control systems, electrical operation, mechanical motor performance, and hydraulic systems, along with simulation.
- Programmable Logic Controller (PLC)
- Variable Frequency Drives (VFDs)
- Capacitive and Inductive Sensors
- Three-phase Motors
- Power, Grounding, and Insulation Meters

## APPLICATIONS

- Extended producer responsibility (EPR)
- Producers of containers, packaging and plastic items

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