



DieTronic
lubrication technology

TEST REPORT IN DIETRONIC

MOD SGQ 06.03

R	DATE	DESCRIPTION
0	30/04/2018	First issue

CHECK	APPROVAL
RSGQ	DG

Technical information of the partly completed machine

Name:	
Product:	Q.M. - Quasi-machine
Model:	PUNTO TOX
Serial number:	2022910
Review:	00 - 15/03/2017 12.17.02
Year of manufacture:	2022
Brand:	Dietronic s.r.l.
Intended use:	Partly completed machine for metal sheet lubrication
Description:	The PUNTO TOX series is a partly completed machine

Created by:	Inspected by:	Validated by:	Date:	Observations:
Boera Stefano	Cosentino Dario	ALEX ARRIGONI	20/12/2022	

Risk Assessment overall status

Directive 2006/42/EC of European Parliament and the Council of May 17th 2006 on machinery and amendments of Directive 95/16/EC

Manufacturer: Dietronic s.r.l.

Via Madre Teresa di Calcutta 13	26866	Lodi
<i>Address</i>	<i>postal code</i>	<i>Province</i>
Sant'Angelo Lodigiano	Italia	
<i>City</i>	<i>Country</i>	

Machine:

Partly completed - machine for metal sheet lubrication			
<i>Intended use</i>			
PUNTO TOX	2022910	2022	00 - 15/03/2017
<i>Model</i>	<i>Serial number</i>	<i>Year of manufacture</i>	<i>Rewiev</i>

INDEX

1. MATERIALS AND PRODUCTS	5
2. MACHINE DESIGN FOR THE PURPOSE OF HANDLING	5
3. SAFETY AND RELIABILITY OF THE STOP SYSTEMS.....	6
4. SELECTION OF THE CONTROL OR OPERATING MODE	6
5. ELECTRICAL SPECIFICATIONS	7
6. NOISE	7
7. INFORMATION AND INFORMATION DEVICES.....	8
8. MACHINE LABELING.....	8
9. SIGNS	9
10. ELECTRICAL COMPONENTS INSPECTION	10
11. PNEUMATIC AND OIL-HYDRAULIC COMPONENTS INSPECTION.....	11
12. MECHANICAL COMPONENTS INSPECTION.....	12

1. Materials and products

The materials or products used for the construction of the machine or originated during its use must not represent a risk for people's safety and health. In particular, in case of fluids usage, the machine must be designed and built to prevent risks due to filling, use, recovery and evacuation.

Standards: **ISO/TR 14121-2** and **EN ISO 12100**

Scheduled action: Visual inspection of the correct construction of the machine frame and the cutting-edge assembly of all parts including the mechanical and pneumatic components. Sealing test of tanks and oil hydraulic circuit with max 3 bar pressure.

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

2. Machine design for the purpose of handling

The machine, or each of its different components, must be handled and transported safely.

The machine is equipped with accessories that facilitate a safe handling with a lifting device or has a shape that allows the lifting means to adapt easily.

Standards: **ISO/TR 14121-2**, **EN ISO 12100**, **EN 1005-2** and **EN 1005-4**

Scheduled action: Visual inspection of the correct construction of the machine frame. Lifting and handling tests of the machine and all its components.

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

3. Safety and reliability of the stop systems

The control systems must be designed and built in such a way as to prevent the dangerous situations.

The following information requires a particular attention:

- the machine must not start unexpectedly,
- the parameters of the machine must not change in an uncontrolled manner, because such a change can lead to dangerous situations,
- the machine must not be prevented from turning off if the stopping command has already been given,
- no moving part of the machine or processed piece must fall or be thrown out,
- the manual or automatic stop of moving parts of any kind must not be prevented.

The machinery must be equipped with a control device that allows the general shutdown in safe conditions

The machine stop control must take priority over the start controls.

Once the machine or its dangerous operation has been stopped, the power supply of the corresponding actuators must be cut.

Standards: **ISO/TR 14121-2; EN ISO 12100, EN ISO 13849-1, IEC/EN 62061 and EN 60204-1**

Scheduled action: System shutdown by means of emergency button and inspection of the proper operation.

Outcome: OK

Date: 20/12/2022

Notes: Inspection of the correct online operation.

Possible intervention method: Check the correct operation after putting into service the partly completed machine.

Closing date:

4. Selection of the control or operating mode

The selected control or operating mode must have priority over all other control or operating modes, except for the emergency stop.

Each selector position, which must be clearly identifiable, must correspond to a single control or operating mode.

Placed on the switchboard, the selector allows the operation of the partly completed machine in automatic running condition if the system is online or in manual mode (maintenance), in case of a system outside the production line.

Standards: **ISO/TR 14121-2; EN ISO 12100, EN ISO 13849-1, IEC/EN 62061 and EN 60204-1**

Scheduled action: Inspection of the correct operation.

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method: Check the correct operation after putting into service the partly completed machine.

Closing date:

5. Electrical specifications

The machine is powered with electricity, therefore it must be designed, built and equipped in such a way as to prevent or to allow the prevention of all hazards caused by electricity.

Standards: **ISO/TR 14121-2; EN ISO 12100** and **EN 60204-1**

Scheduled action: Inspection of the correct operation (mechanical and electrical inspections)

Outcome: OK

In compliance with standards and regulations. Power voltage according to specifications.

Wiring and devices selection according to specifications. Operating conditions followed.

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

6. Noise

The machinery must be designed and built in such a way as to reduce to the minimum level the risks caused by the emission of airborne noise

Standards: **ISO/TR 14121-2; EN ISO 12100 ISO 3743-1; ISO 3743-2; ISO 3744; ISO 3745; ISO 3746; ISO 3747; EN ISO 11200; EN ISO 11201; EN ISO 11202; EN ISO 11203; EN ISO 11204; EN ISO 11205; EN ISO 11688-1** and **EN ISO 4871**

Scheduled action: Inspection of the sound pressure lower than 80 dB (A) by using a sound level meter.

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

7. Information and information devices

The information necessary for operating the machine must be provided in a clear and easily understandable way. The amount of information must not exceed the operator's ability of processing and understanding.

Standards: **ISO/TR 14121-2; EN ISO 12100; EN 894-1; EN 894-2; EN 61310-1; EN 61310-2; EN 61310-3; EN 842 and EN 981**

Scheduled action: Supply of manuals and all the required documentation in ENGLISH and POLISH (as specified) to accompany the machine.

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

8. Machine labeling

Each machine must be marked, in a visible, legible and indelible manner, at least with the following information:

- company name, full address of the manufacturer and, where relevant, of his authorized representative,
- machine designation
- «CE» marking (see. Annex III),
- series or type designation,
- if necessary, serial number,
- year of manufacture, i.e. the year in which the manufacturing process was completed

Standards: **ISO/TR 14121-2; EN ISO 12100 and EN 82079-1**

Scheduled action: Application on the switchboard of the CE plate showing the data according to current legislation.

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

9. Signs

The machine is equipped with all the necessary signs to signal the hazards, where present, and any indications for maintenance and control.

Standards: **ISO/TR 14121-2; EN ISO 12100; EN ISO 13849-1; IEC/EN 62061** and **EN 60204-1**

Scheduled action: Signs application according to current legislation. Visual inspection

Outcome: OK

Date: 20/12/2022

Notes:

Possible intervention method:

Closing date:

10. Electrical components inspection

Component	Schedule method	Outcome:	Running hours	Possible intervention method
Tanks level switches	Inspection of the correct electrical and mechanical operation	OK	/	
Tanks heating system	Inspection of the correct electrical operation	/	10 h	
Teach-in System	Inspection of the correct electrical operation	/	2 h	
Motor Efficiency In-Out Machine System	Inspection of the correct electrical operation	/	2 h	
Mixer	Inspection of the correct electrical and mechanical operation	/	50 h	
Efficiency Single oil solenoid valves	Inspection of the correct electrical operation	OK	50 h	
Efficiency Heating manifold system	Inspection of the correct electrical operation	/	50 h	
Efficiency motor Brush	Inspection of the correct electrical operation	/	10 h	
Efficiency Cyclon System	Inspection of the correct electrical operation	/	20 h	
Efficiency Motor Suction Brush Unit	Inspection of the correct electrical operation	/	20 h	
Efficiency motor suction system lubrication machine	Inspection of the correct electrical operation	/	20 h	
Motor Conveyor system inspection	Inspection of the correct electrical operation	/	20 h	
Flow Control Nozzle	Inspection of the correct electrical operation	/	50 h	
Lifting motor upper spray head	Inspection of the correct electrical operation	/	1 h	
Safety switch	Inspection of the correct electrical operation	/	/	

Efficiency main air pressure regulator	Inspection of the correct electrical operation	50 h
--	--	------

11. Pneumatic and oil-hydraulic components inspection

Component	Schedule method	Outcome:	Running hours	Possible intervention method
Oil pump	Inspection of the correct Pneumatic and hydraulic operation	OK	50 h	
Refill oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	5 h	
Ingromat pump	Inspection of the correct Pneumatic and hydraulic operation	/	50 h	
Recovery tank pump	Inspection of the correct Pneumatic and hydraulic operation	/	5 h	
2nd Oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	0 h	
2nd Refill oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	3 h	
3th Oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	5 h	
3th Refill oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	3 h	
4th Oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	5 h	
4th Refill oil pump	Inspection of the correct Pneumatic and hydraulic operation	/	3 h	
Solenoid valve	Inspection of the correct Pneumatic and electrical operation	OK	50 h	
Wiping system	Inspection of the correct Pneumatic and electrical operation	/	2 h	
Efficiency Single Spray nozzles	Inspection of the correct Pneumatic and hydraulic operation	OK	50 h	
Efficiency Single Air valve	Inspection of the correct Pneumatic and electrical operation	OK	50 h	

Efficiency Upper Ingromat nozzle	Inspection of the correct Pneumatic and hydraulic operation	/	10 h
Efficiency Lower Ingromat nozzle	Inspection of the correct Pneumatic and hydraulic operation	/	10 h

12. Mechanical components inspection

Component	Schedule method	Outcome:	Running hours	Possible intervention method
Infeed Pinch-roll Height Adjustment	Inspection of the correct mechanical operation	/	2 h	
Outfeed Pinch-Roll Height Adjustment	Inspection of the correct mechanical operation	/	2 h	
Efficiency In-Out Machine System	Inspection of the correct electrical and mechanical operation	/	2 h	
Efficiency Upper Brush	Inspection of the correct electrical and mechanical operation	/	10 h	
Efficiency Lower Brush	Inspection of the correct electrical and mechanical operation	/	10 h	
Efficiency Suction Brush Unit	Inspection of the correct electrical and mechanical operation	/	10 h	
Efficiency Cyclone System	Inspection of the correct electrical and mechanical operation	/	20 h	
Efficiency suction system lubrication machine	Inspection of the correct electrical and mechanical operation	/	20 h	
Conveyor system inspection	Inspection of the correct electrical and mechanical operation	/	20 h	
Control Up/Down crush-less wheels lubrication system	Inspection of the correct electrical and mechanical operation	/	2 h	
Extraction upper and lower spray box	Inspection of the correct mechanical operation	/	/	
Lifting system upper spray head	Inspection of the correct electrical and mechanical operation	/	1 h	

Date: 20/12/2022

Signature: Alex Arrigoni