



裕蘭環保科技有限公司
Yulan Green Technology Co., Ltd.

Circular Thermoforming Machine (5-step)

Machine structure

一、 Specification

1. Machine dimensions : L:7,280mm * W:3,000mm * H:3,000mm
2. Machine weight : about 20T
3. Maximum installed power of machine : 225kW @ 380V
4. Machine method : Forming → First hot-pressing → Second hot-pressing → Automatic demolding → Trimming
5. Template dimensions : 900mm * 620mm
6. Maximum height of the product : 170mm
7. Vacuum pump : 30m³/min., -60Kpa
8. Compressed air : 0.6~2.4m³/min., 0.7Mpa
9. Supply pulp: 20~60kg/hr., it depends on the products.

二、 Structure

1. Frame : Carbon steels SS41 welding, post-treatment annealing.
2. Forming: Lower mold (stainless steel SUS304)

3. Hot-pressing Upper mold & Lower mold: Carbon steels SS41 welding, post-treatment annealing.

三、 Hydraulic pressure system

1. Forming servo hydraulic cylinders: Hydraulic cylinders (max. force 3T, max. stroke 600mm) + Servo motor drive (power : 5.5kW)
2. Hot-pressing servo hydraulic cylinder: Hydraulic cylinders (max. force 14T, max. stroke 450mm) + Servo motor drive (power : 5.5kW)
3. Automatic demolding hydraulic cylinder: max. force 3T, max. stroke 650mm.
4. Trimming (Cutting) servo hydraulic cylinder: max. force 25T, max. stroke 550mm + Servo motor drive (power : 5.5kW)

Electrical control

1. Mitsubishi servo motor
2. PLC : Mitsubishi FX5U series
3. HMI : HMI touch screen+GUI+15” screen
4. Heating mode : Electric heating (SSR power controller /380V),
Single groups of maximum power 15kW (total of 12 groups), Max.
heating power : 180kW

VERIFICATION OF COMPLIANCE to the requirements of **Machinery Directive 2006/42/EC**

Verification Report No. : ZA/2021/10009B & ZA/2021/10009D & ZA/2021/10009E
Representative Model : YL0609-R-5-CE
Series Model(s) : YL0609-R-3-CE
Product Name : CIRCULAR THERMOFORMING MACHINE
Applicant : YULAN GREEN TECHNOLOGY CO., LTD
Address of Applicant : No. 3, Dexing 2nd Rd., Su'ao Township, Yilan County 27051, Taiwan (R.O.C.)
TCF Number : TR21100101
Date of Issue : December 10, 2021
Date of Expiry : December 9, 2026
Applicable Standard(s) : EN ISO 12100:2010, EN 60204-1:2018, EN ISO 13849-1:2015

Conclusion

Based upon a review of the Technical Construction File, the apparatus is deemed to meet the requirements of the above standard(s) and hence fulfill the requirements of:

Machinery Directive 2006/42/EC

Note : This verification is only valid for the apparatus and configuration described and in conjunction with the technical data detailed above.

The CE mark as shown below can be used, under the responsibility of the manufacture, after completion an EC Declaration of Conformity and compliances with all relevant EC Directives.

Authorized Signatory:

Jason Lin

SGS TAIWAN LTD.
Jason Lin
Technical Manager



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VERIFICATION OF COMPLIANCE to **Electromagnetic Compatibility**

Verification Report No. : ZA/2021/10010
Representative Model : YL0609-R-5-CE
Series Model : YL0609-R-3-CE
Product Name : CIRCULAR THERMOFORMING MACHINE
Applicant : YULAN GREEN TECHNOLOGY CO., LTD
Address of Applicant : No. 3, Dexing 2nd Rd., Su'ao Township, Yilan County 27051, Taiwan (R.O.C.)
Test Report Number : ZA/2021/10010
Date of Issue : December 10, 2021
Date of Expiry : December 9, 2026
Applicable Standards : SGS On-Site Test Standard
EN IEC 61000-6-2: 2019, EN IEC 61000-6-4: 2019

Conclusion

Based upon a review of the Test Report, the apparatus is deemed to meet the requirements of the above standards.

Note: This verification is only valid for the apparatus and configuration tested and in conjunction the test report(s) detailed above.

The CE mark as shown below can be used, under the responsibility of the manufacture, after completion an EU Declaration of Conformity and compliances with all relevant EU Directives.

Authorized Signatory:

Jason Lin

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