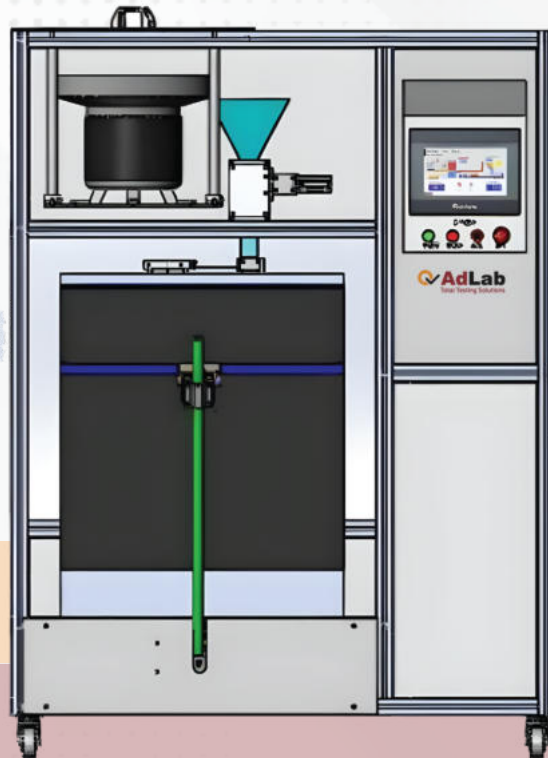




## Dishwasher Resistance Testing Machine Model: ADL-DRT01



**ADL-DRT01** Recommendation for mechanical dishwashing resistance of appliances for automatic cycle dishwashers.

### Technical Specifications

Independent design dishwasher model: Purchase domestic Midea dishwasher design the following specifications for independent design

1. Size :700 x 700 x 850 mm
2. Purchase Midea dishwasher P60 capacity :13 sets
3. Hot water: up to 70°C test machine water needs to have a soft water module, and there must be real-time monitoring data;
3. Water spray pressure :29000pa.
4. Cycle temperature controller :PLC + touch screen
5. Cleaning agent dosing mechanism: automatic dosing, according to weight measurement (dosing mechanism using vibration plate + weighing system structure, installed on the top of the dishwasher precision weighing sensor). Add water filter and water quality real-time monitoring
7. The feed amount 0-30G can be set on the screen
8. Dosing using vibration plate + weighing system structure
9. Test cycle: Mode 1: according to EN12875-1 article 8.3 Mode 2 Custom mode, custom Settings.
10. According to EN12875-1 Article 8.3 Test cycle, the test cycle shall include the following stages

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- a) Drain the dishwasher with a water pump.
- b) 1) Fill the dishwasher with water (see 5.1):  
2) Circulating water ( $5\pm 0,5$ )min;  
Drain the dishwasher with a water pump.
- c) 1) Wash the test specimen in the dishwasher:  
2) Fill the dishwasher with ( $6,0 + 0,5$ ) water and ( $24\pm 3$ )g cleaning agent per liter (see 5.2);  
3) Heating to ( $60\pm 2$ )°C, while circulating water and cleaning agent ( $20\pm 1$ ) minutes;  
4) Cycle the water and cleaning agent for ( $3\pm 1$ ) minutes without heating
- d) 1) Rinse the sample in the dishwasher :1) Add water to the dishwasher;  
2) Circulating water ( $3\pm 0,5$ )min;  
3) Drain the dishwasher with a water pump.
- e) 1) Finally wash the sample in the dishwasher :  
2) Fill the dishwasher with water,  
3) The circulating water is heated to ( $65\pm 2$ )°C;  
4) Measure the temperature between 40 °C and 45 °C and add 2.5g to 3.0g of bleach (see 5.2) per ( $6.0\pm 0.5$ ) litre of water  
5) The measured temperature reaches ( $65\pm 2$ )°C and is cleaned by the pump
- F) 1) Store the test sample in the dishwasher for drying  
2) ( $3\pm 1$ )min close the door 2)(30 1)min open the door

### Specific Technical Parameters are as Follows

- meet the EN 12875-1 standard, the details of the standard are as follows:
- The use of finished dishwasher main body, but in order to achieve a better life of the test machine, the finished machine due to the high strength of continuous testing, wearing parts need to be replaced with better;
- Can realize the automatic quantitative input of dishwasher powder and block according to EN standard, to consider avoiding the phenomenon of quantitative instability, such as water vapor on the powder outlet wet, it is recommended to refer to the design of the shock feed machine;
- After each cycle is completed and the door is opened, the automatic alarm can be set to manually or automatically reset into the next cycle, after the completion of the set number of tests, the alarm can be reminded, the alarm volume needs to be applied by human ears;
- Due to the heavy product, basket and pull track, need to be designed for high reliability, basket partition should also take into account our test pair like, mainly for pot products, milk pot, wok and other sizes; The upper basket can support objects of 10KG weight, and the lower basket can support objects of 20KG weight.
- 1 station a group, but the frame connection design between the machine needs to consider easy movement, easy disassembly, for example, can consider independence





## Test Dishwasher Characteristics

- The water softener (cation exchanger) can control the hardness of water c (CaMg) between 0.3 mmol/L and 0.6mmol/L (1mmo/ -5.6 H or 1" DH-0.1786 mmol/L) when tested by the 1SO 6059 method. As for the control of water quality, it is necessary to add water quality filters and water quality real-time monitoring devices.
- Heating shall meet the heating rate.
- Fixed Water quantity 6.0±0.5L water for each test period, with water pressure ranging from 5N/cm to 100 N/cm (select pump lift of 0.3-0.4MPA).
- The white distribution device can give the required amount of detergent and bleaching agent in each test cycle.
- Method of automatic opening or uniform cooling and humidity reduction after the end of the cleaning cycle
- Thermostat accuracy ±2C.
- The door actuating device can automatically perform and repeat the complete cleaning procedure
- The number of times the counter records cleaning is the total number of single zeroable times and the total cumulative number.
- The safety of dishwashers shall comply with EN 60335-1 and EN 60335-2-5.
- The bottom of the equipment should be designed with a leakproof tray, and drainage function (drainage hole and drainage pipe), in order to prevent equipment failure to cause water bubble phenomenon in the test area;
- All test data, including test conditions can be exported by USB, including raw data or test reports can be exported, report templates need to be developed, the report should reflect the relevant monitoring data, such as temperature, cycle times, soft water  
The value is etc.;
- close the door design, do not consider the pneumatic type, the design should consider aesthetics, and stability
- 10, the test machine program defaults to EN 12875 standard program, but can also customize the test program, in order to meet the special test requirements of customers, such as heating temperature can be set up to 80°C;
- According to the state of the door or the degree of closure, the body needs to have spray protection, program protection and other protection functions, such as when opening the door or not closed the door frame, the spray function can not work;
- The test machine water needs to have a soft water module, and there must be real-time monitoring data;
- The body heating component, to consider the matching of heating power, to avoid heating time is too long, and occupy the time node controlled by the program itself, and finally make the program node does not correspond, the test results are inconsistent, but also consider the life of the heating component
- Situation. Some vulnerable and consumable parts need to be backed up several sets for our company to replace.
- The main frame part is recommended to use stainless steel as the main body.
- Retain the original function of the dishwasher to increase the washing liquid, and meet the contents of article 3 (e) of EN 12875-1

*\*Technical Data Subject to change without notice.*

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## Our Products

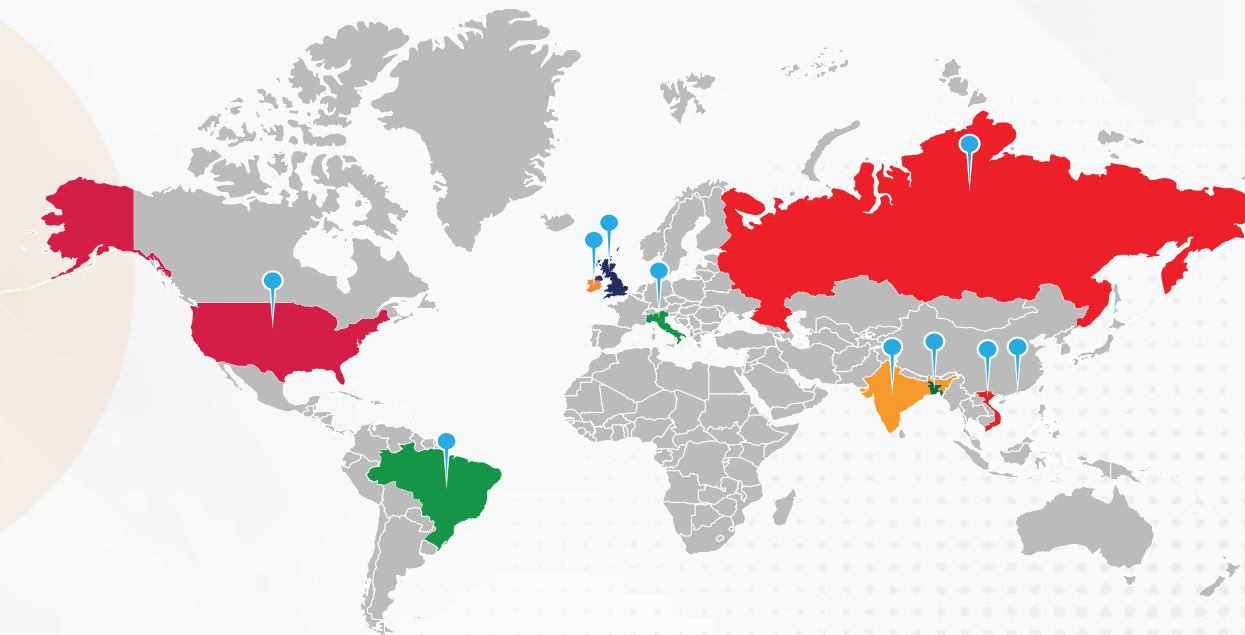
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