



The production test bench of engine fuel nozzle is designed for its users. It can carry out automatic batch test of the nozzle, which can greatly reduce the testing intensity of production personnel, improve the testing accuracy and save production time. The test items include flow test, spray angle test, air flow test, seal test and uniformity test, etc., so it is a standard fuel nozzle test product. At present, it has been applied in a certain foreign APU development and production enterprise and highly praised by customers.

For the production, maintenance and development of fuel nozzles, Chengdu Ruineng Technology Co., Ltd. can provide different test bench solutions.

Main indicators:

- Fuel medium :MIL-C-7024,TYPE II;
- Fuel medium temperature:  $80^{\circ}\text{F} \pm 5^{\circ}\text{F}$  , with heating and cooling measures;
- Working liquid filtration accuracy: 5 um, using in and out multi-stage filtration, to ensure filtering quality and efficiency;
- It can test the flow characteristics of the fuel nozzle, test the relationship between the oil pressure of the nozzle and the amount of fuel injection under different oil pressure conditions and the relationship between air pressure and air flow under different air pressure conditions.

The oil pressure of the nozzle can be adjusted in the range of 20 ~ 400 psi, CNC adjustment, quick response, stable pressure;

- The seal test pressure is 600 psi;
- With product serial number input device, it can automatically read and record the environmental temperature, humidity, air pressure, oil pressure, air pressure, oil temperature, oil flow and air flow, and analysis of process data automatically, and can automatically alarm and tag the non-conforming products in the record. The data unit and requirements are consistent, and data output is USB interface;
- The nozzle can be quickly disassembled and assembled, suitable for batch testing;