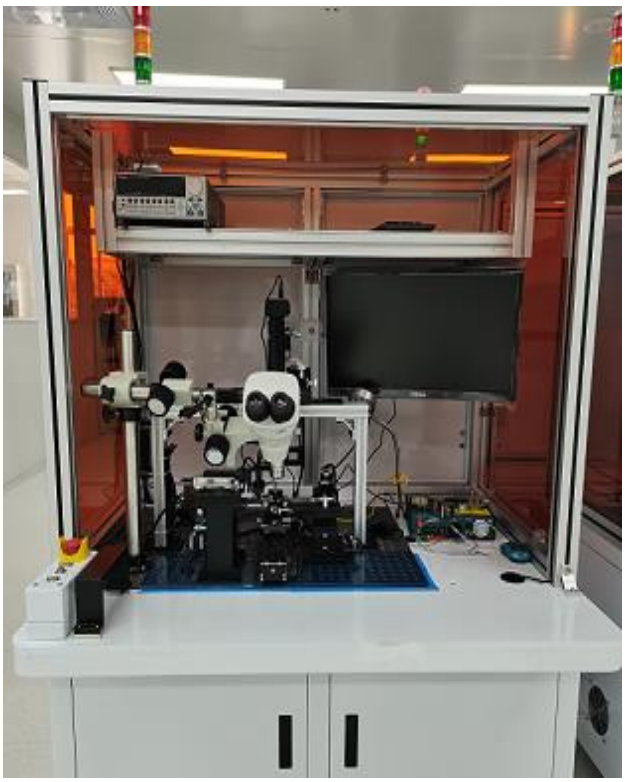
Equipment Introduction

1490/1577 Automatic Coupling System

The system automatically tests the power and spectrum of the 1490 LD and compares it with the module power after LD-PLC coupling. It automatically tests the power and spectrum of 1577 LD, scans the PIV, calculates the insertion loss of LD-PLC, compares with the coupling data before Baking, and screens the performance of the module according to the 1577 LD spectrum and coupling data.



Technology & Function	Specification & Parameters
◆ Supports self-configuration of coupling position, coupling step, speed, range, UV light energy, time gradient, power specification and other parameters; ◆ Supports real-time display of coupling position and coupling power value, and display the relationship curve between power and Z-axis position; ◆ It supports processing the original test data, and storing the processed data into the background database. The software automatically judges whether the test is qualified, and saves the process data.	◆ Repeatability of X/Y axis coupling (end face butt coupling) power: ≤0.15 dB ◆ X/Y axis coupling return position and scanning vertex power offset: ≤2% ◆ COC power measurement accuracy: ≤0.1 dB ◆ Power measurement accuracy of PLC module: ≤0.15 dB ◆ Static stability of machine: power change ≤0.2dB within 3 minutes after coupling ◆ Thermal stability of machine under ultraviolet irradiation: no dispensing after laser coupling, and the maximum power change during ultraviolet irradiation ≤1 dB