

Pitch Error Measurement System

For High Density Optical Communication Devices

Features

- Fast & Efficient — < 1 s measurement cycle for higher throughput
- Sub-micron repeatability and 0.001 μm resolution
- One platform for V-groove, FA, and MT connector inspection
- Production-Ready Automation — Automated measurement, compensation, and reporting
- Smart Data Integration — SPC/MES connectivity for traceability



Application Scenarios

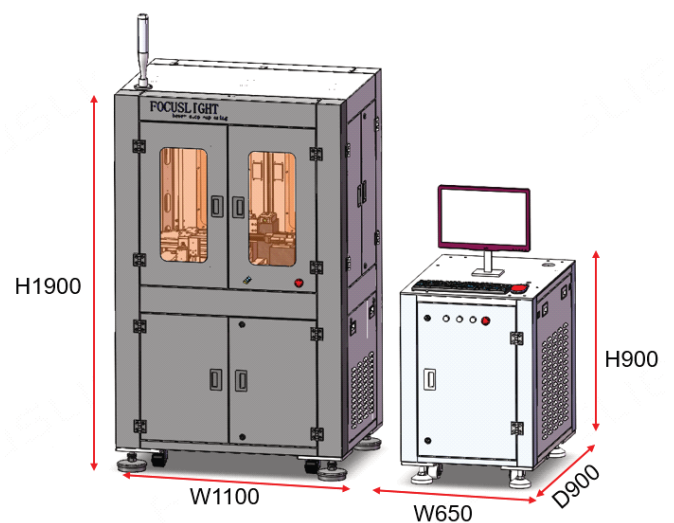
- High-density Optical Interconnect Production
- V-Groove Alignment Verification
- Fiber Array Unit (FAU) Inspection
- MT Connector Inspection



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Key Specifications

Part No.	FLSM-LL80 (Typical Configuration)
Applicable Products	V-Groove / FA / MT Connector
Fiber Types	SM / MM / PM Fiber
Minimum Pitch	40 μm for V-Groove / FA; 250 μm for MT
Maximum Channel Count	128 for V-Groove / FA; 16 for MT
Maximum sample size	100mm*60mm (standard), also customizable upon request
Measurement Repeatability	3 σ < 0.1 μm
System Resolution	0.001 μm
Measurement Cycle	< 1 s/channel
Positioning Accuracy	< 0.1 μm on X/Y axes; < 0.2 μm on Z axis
Report Output	CSV / PDF
Automation Functions	Auto Focus / Tilt Compensation / Measurement / Report Generation



Remark: All dimensions are in mm. The drawing is for reference only.