

## Coupler Working Station

FSCW-3000 Type Coupler Machine is used to produce light passive components, the operating surface of it is high automatically, running stably and convenient to use.

### Features:

**High accuracy:** The mechanism parts of running, drive and guide are chosen the best, this displacement of this pulling platform is set less than 0.1nm of distinguish but this torch and package organization are set less than 0.5um.

**Long life using:** All parts adopt the design principle of high accuracy, high credibility, long life using and strong function and adopt special craft of the surface.

**High credibility :** We carry out the above designing principle and strict produce administration and make this system a high credibility.

**Automatically:** Three dimension torch and the two dimension package organization are all for doing trimming and automatic advance and retreat.

**Special heat source organizaie:** It is using H<sub>2</sub> (mixture of H<sub>2</sub> and O<sub>2</sub>) to be as heating source. Three dimensions package organization can fix the package perfectly

**Detector:** The detector can be chosen to adapt the working wavelength

### Producible products

1. Standard optical coupler(980/1310/1550)
2. SM tree and star mode optical coupler
3. Single-dual polarization maintaining coupler
4. WDM series products

### Standard packages:

S/N	Products Names	Model	Unit	Qty
1	Main Frame		set	1
2	IPC (build-in in the machine)	Standard	set	1
3	Operation manual	Standard	set	1
4	Bare filer adaper	Standard	pc	2
5	Wind-cover for torch head	Standard	pc	1
6	Alcohol Bottle	Standard	pc	1
7	Electrical Lighter	Standard	pc	1
8	Stripper	Standard	pc	1
9	Fiber Cutter	Standard	pc	1
10	Spanner	Standard	pc	1
11	Spanner with 6 inside angles	1.5	pc	1
12	Spanner with 6inside angles	2.5	pc	1

Main Specifications:

**(1) Main frame working platform**

- Stretching precision: <50nm
- Stretching speed: 0~1500 μ m/sec
- Stretching range: 0~80mm
- Pre-stretching length: 0.2~9000 μ m
- Position moving resolution: ≤0.05 μ m
- Torch moving resolution: 3axis 200nm/step automatic  
Max adjustable <50nm/step
- Packging axis moving resolution: 2axis 200nm/stpe automatic  
Max adjustable <50nm/step

**(2) Electrical and optical system**

- Longer wavelength detector: sensitive area φ2m InGaAs 2pcs each
- Testing range: 900nm~1700nm

**(3) Software and Digital collecting system**

Special 12 Bit Digital Collecting A/Dcard(high-speed)

**(4) Real-time hydrogen flow controlling**

- Flow controller: 1set
- Flow control and real-time monitoring by PC
- Flow adjustable

**(5) Whole system**

- Dimensions: 730mmx518mmx250mm
- Weight: 50kg
- Power supply: 200~240v
- Power Consuming: <300w

**Below is inspection standard for fused coupler .**

**Standard fused SM fiber coupler**

Working wavelegth:1310nm,1550nm.

Bandwith:+/-20nm

Excess loss:<0.15dB

CR:±2%,Package.

**MM large core size coupler is made on request of MM fiber, NxM configuration, working wavelength.**

