# SD-9 Fusion Splicer

Six-motor core alignment, a 5-second splice and 11-second heat — with a power meter and a 15 mW VFL built in, so the splicer is also the test set.

Core alignment is a measurement before it is a weld: six motors centre both fibers on their cores in X and Y, and only then does the arc fire — which is how typical losses of 0.02 dB on singlemode are earned. The SD-9 pairs that alignment with a 5-second splice, an 11-second heat and the two instruments splicing crews otherwise carry separately: a six-wavelength power meter and a 15 mW VFL.




SD-9 — 4.3-inch touchscreen and splice chamber

## Key Features

- Six-motor core alignment: typical losses SM 0.02 dB, G.657 0.03 dB, MM 0.01 dB (ITU-T) — the alignment class trunk work asks for
- Cycle speed as a pair: 5 s splicing and 11 s fast auto-heating, sustained for 240+ full cycles on the 7,200 mAh battery
- Test set built in: power meter (850/1300/1310/1490/1550/1625 nm, -50 to +26 dBm, <0.3 dB error) and a 15 mW VFL, flashing or constant
- Heater presets for 20/30/40/50/60 mm sleeves, up to 100 stored modes, in a new-structure oven that also takes multi-type connector assemblies
- Rated for the field as specified: 0-5,000 m altitude, -15 °C to +50 °C, 95% humidity, 15 m/s wind; automatic arc calibration by pressure and temperature
- Job records on board: 20,000 splice results and 200 images via USB 2.0, estimated loss and a 2.0 N tension test per joint
- 4.3-inch capacitive touchscreen at 380x per axis, 41 preset modes + 100 storable, multi-gear adjustable handle
- Private labeling made to your requirements — labels with your logo, part numbers and barcodes on the inner boxes and outer cartons, ready for your warehouse

## Specifications

| | |
|---|---|
| **Alignment** | Core alignment, 6 motors, fully automatic |
| **Applicable fibers** | SM (ITU-T G.652 & G.657), MM (G.651), DS (G.653), NZDS (G.655) |
| **Compatible fiber / cable** | 0.25–3.0 mm / indoor cable |
| **Cladding diameter** | 80–150 µm |
| **Cleave length** | 8–16 mm (coating diameter 0.125–1 mm) |
| **Splicing time** | 5 s |
| **Heating time** | 11 s (fast auto-heating) |
| **Typical splice loss (ITU-T)** | SM 0.02 dB · MM 0.01 dB · DS 0.04 dB · NZDS 0.05 dB · G.657 0.03 dB |
| **Return loss** | ≥ 60 dB |
| **Splice modes** | 41 preset, 100 storable |
| **Display** | 4.3-inch colour capacitive touchscreen (button + touch), 380x magnification (X / Y), 180x dual view |
| **Built-in power meter** | 850 / 1300 / 1310 / 1490 / 1550 / 1625 nm; -50 to +26 dBm; absolute error < 0.3 dB |

| | |
|---|---|
| **Built-in VFL** | 15 mW, 2 Hz flashing and constant modes |
| **Protection sleeves** | 20–60 mm; heater presets 20 / 30 / 40 / 50 / 60 mm, up to 100 modes |
| **Results storage** | 20,000 splice records and 200 images; USB 2.0 |
| **Tension test** | 2.0 N (standard) |
| **Electrode life** | 5,000 arcs |
| **Arc calibration** | Automatic, by air pressure and temperature |
| **Battery** | 7,200 mAh — typically 240+ splice + heat cycles per charge |
| **Power supply** | AC 100–240 V; DC 12–15 V |
| **Operating conditions** | Altitude 0–5,000 m; humidity 0–95%; -15 °C to +50 °C; wind up to 15 m/s |
| **Dimensions** | 135.1 × 205.9 × 130.4 mm |
| **Weight** | 1.75 kg |

## Two Views

From the top, the splice chamber, electrodes and keypad sit ahead of the touchscreen; the flat-lay shows the complete kit the case carries — splicer, cleaver, battery, adapter, strippers and cleaning set.



Top — splice chamber and keypad



Full kit — everything in the case

## In Use

Strip, clean and cleave as usual; the machine centres the cores, fires, estimates the loss and tension-tests the joint before the sleeve goes into the 11-second oven. Verify on the built-in meter; if the span reads wrong, walk the VFL glow to the fault. Keep the V-grooves and lenses clean — every field splicer's accuracy is, in the end, housekeeping — and let the arc calibration run when altitude or weather changes materially.

## OEM & Private Label

The SD-9 is supplied in neutral, unbranded stock as standard. Private labeling is made to your requirements — labels with your logo, part numbers and barcodes on the tools, the inner boxes and the outer cartons, so the goods arrive ready for your warehouse. Custom barcode & contract labeling is applied to every inner box and outer carton to your receiving specification.