K-63 Fusion Splicer

Precision, held joint after joint: a four-motor fusion splicer with a 6-second SM FAST splice, typical single-mode loss of 0.03 dB, a V-type heating tank with a removable 5-in-1 fixture, and a 5,200 mAh battery rated for more than 250 splice-and-heat cycles per charge.

A splice is only ever as good as the cleave that feeds it and the alignment that precedes the arc. The K-63 is built around that sequence: fibers are presented in a multi-function clamp that comes apart freely for cleaning and changeover, watched on a 4.3-inch touchscreen at 400× magnification in X, Y or combined X/Y view, and joined in 6 seconds in SM FAST mode at a typical single-mode loss of 0.03 dB. The arc recalibrates itself against air pressure and temperature, so the precision set up on the bench is the precision delivered at altitude, in heat and in wind.



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Key Features

- Four-motor drive with X, Y and combined X/Y fiber views at 400× magnification on a 4.3-inch touchscreen — the joint is inspected on screen before the arc fires
- 6-second splicing in SM FAST mode, with typical splice loss of 0.03 dB on single-mode, 0.02 dB on multimode and 0.03 dB on G.657 fiber (ITU-T)
- V-type heating tank with a removable 5-in-1 heater fixture: one fixture covers the sleeve sizes and fiber types a crew meets in a day, and lifts out to sit at the back of the machine
- Heating adjustable from 10 to 900 seconds with a typical cycle of 20 seconds or more; sleeves from 20 to 60 mm
- Automatic ARC calibration by air pressure and temperature — discharge power follows the conditions, not a fixed guess
- 5,200 mAh battery for typically more than 250 splice-and-heat cycles; electrodes rated for 5,000 arcs; 3 powerful white LEDs for cabinet and night work
- 20,000 splice records and 200 splice images stored on the machine, with 41 preset splice modes and room for 100 of your own, exported over Mini USB 2.0

Specifications

Drive	Four motors
Applicable fibers	SM (ITU-T G.652) / MM (ITU-T G.651) / DS (ITU-T G.653) / NZDS (ITU-T G.655) / BI (ITU-T G.657)
Compatible fiber / cable	0.25–3.0 mm; indoor cable
Coating diameter	0.125–1 mm
Cleave length	8–16 mm
Splice modes	41 preset; 100 storable
Typical splice loss	SM 0.03 dB; MM 0.02 dB; DS 0.05 dB; NZDS 0.05 dB; G.657 0.03 dB (ITU-T)
Return loss	≥ 60 dB
Splicing time	6 s (SM FAST mode)
Splice loss estimation	Available

Protection sleeve length	20–60 mm
Heating tank	V-type tank, preset for 5 sleeve sizes (20/30/40/50/60 mm); up to 100 heating modes; removable 5-in-1 fixture
Heating time	Adjustable 10–900 s; typical ≥ 20 s
Result storage	20,000 latest records; 200 images
Tension test	1.5–2.0 N
Display	4.3-inch high-resolution touchscreen; 90° bi-directional view
Fiber view	X / Y / X-Y views; 400× magnification
Fiber holder	Multi-function free-disassembly fiber clamp
Lighting	3 powerful white LEDs
Electrode life	5,000 arcs
Operating methods	Button / touch screen
Automatic calibration	Automatic ARC calibration by air pressure and temperature
Interface	Mini USB 2.0
Power supply	AC 100–240 V; DC 12–15 V
Battery	5,200 mAh; typically above 250 splice & heat cycles
Dimensions	142 × 172 × 134 mm
Weight	2,044.3 g (including rubber bumper)
Operating environment	Altitude 0–5,000 m; relative humidity 0–95%; −20 to +50 °C; max. wind speed 15 m/s

Standard Configuration

Main unit · Fiber cleaver · Battery · Spare electrodes (1 pair) · Power adapter · Power cable · SOC fiber holder · Hard carrying case · Alcohol dispenser bottle · Cooling tray · Carrying straps (1 pair) · Test report · User manual

The Splicer in Detail

The splice chamber sits under a wind cover with the electrodes, V-grooves and clamps laid out for cleaning — the maintenance that precision depends on takes seconds, not tools. The heater fixture lifts out of the V-type tank and can be placed at the back of the machine, so the work surface arranges itself around the joint instead of the other way round. The battery reads its own charge state at a press, and swaps without tools.



Splice chamber — V-grooves, electrodes and clamps



Side profile — battery bay and carry strap

Working Notes

Splice loss figures are the machine's typical values under ITU-T fiber classes; the estimate shown after each splice is a guide, and acceptance testing is done on an OTDR. Keep the V-grooves, fiber clamps and camera lenses clean — dust on the groove is the most common cause of a drifting loss figure — and let the machine run its automatic arc calibration when the weather or the altitude changes. Electrodes are a consumable: plan a change around 5,000 arcs.

OEM & Private Label

The K-63 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.