

# 83H



# Digital Core Alignment Fusion Splicer

FTTx Active V-groove Fusion Splicer

DACAS-Digital Analysis Core Alignment Systems (PAS - Profile Alignment Systems) with 4 motors

4.3" high resolution color LCD touch screen, anti-reflective, visible clearly with bare eyes

Auto-splicing mode, using friendly design

German CNC technique and integrated fiber-adjust frame, which make performance much stable

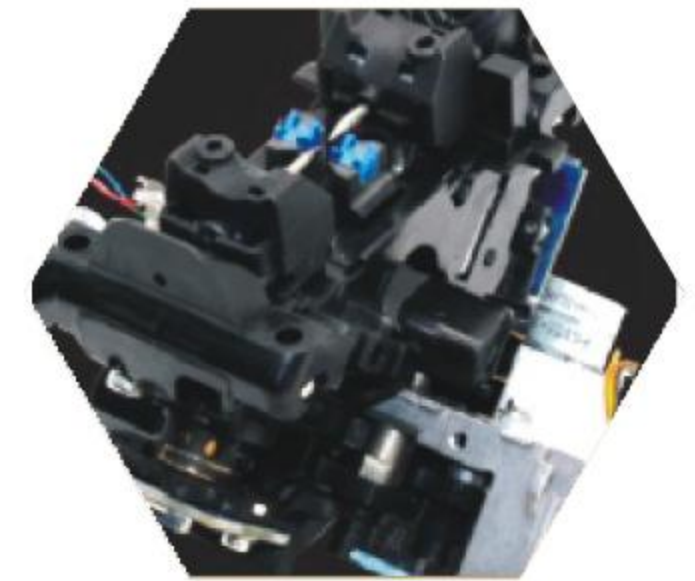
3 high-power white LEDs and illuminated keypads simplifies your work at night

Detachable multifunction fixture, suitable for various fiber type

Dust-proof, water-proof, high-temperature resistance, adapting to various altitude and harsh environment

Optical imaging system ranks No. 1 in the world

Built-in Japanese components and Korean chipset



Integrated fiber-adjust frame



4.3" touch screen



Detachable multifunction fixture



Fiber endface melter & fusion splicer 2 in 1



**ECONOMIC**  
**FUNCTIONAL**  
**CONVENIENT**  
**RELIABLE**

FTTx Active V-Groove Digital Core Alignment Fusion Splicer

# Splicer Master 83H

Digital Core Alignment Fusion Splicer

Combining domestic with foreign technologies, Tumtec has been dedicated to providing professional optical fiber solution and become the renowned fusion splicer & fiber cleaver manufacturer for 17 years.



## Standard Accessories

Fusion splicer 83H*1
Fiber cleaver*1
Battery*1
Power adapter*1
AC power line*1
Back-up electrode*1
Cooling tray*1
Carrying case*1
Carrying strap*1
User manual*1
Splicing test report*1
Fiber stripper*1
Drop cable stripper*1
Alcohol bottle*1

## Equipment Parameters

Model	83H
Dimension	125W*140L*130H (excluding rubber bumper) / 140W*165L*135H (including rubber bumper)
Weight	1950G (with battery) / 1550G (without battery)
Number of Fiber	Single
Applicable Fibers	SM(ITU-T G.652& G.657)/MM(ITU-T G.651)/DS(ITU-T G.653)/NZDS(ITU-T G.655)
Compatible Fiber/Cable	0.25 - 3.0mm/Indoor Cable
Cleaved Length	Diameter: 0.125 - 1 mm/Cleave Length: 5-16mm
Cladding Diameter	80 - 150 $\mu$ m
Splicing Mode	Pre-set 41 splicing modes, max 100 modes
Heating Mode	Pre-set 5 heating modes (20/30/40/50/60mm), max 100 modes
Typical Splice Loss	SM: 0.02dB / MM: 0.01dB/ DS: 0.04dB / NZDS: 0.04 dB/ G.657: 0.02dB (ITU-T Standard)
Return Loss	$\geq$ 60dB
Lighting	3 White LEDs
Splicing Time	Quick mode: 6s
Estimated Splice Loss	Available/Accuracy:0.01dB
Heating Sleeve Length	20 - 60 mm
Heating Time	Quick heating time: 13s, typical heating time: 25s
Results Storage	20000 latest records & 200 images
Tension Test	1.96 - 2.25N
Operating Condition	Operating Altitude: 0 - 5000m above sea level, 0 - 95% relative humidity, - 10 ~ 50 $^{\circ}$ C, Max Wind 15m/s
Storage Condition	0 ~ 95% relative humidity, -40 ~ 80 $^{\circ}$ C
Display	90 $^{\circ}$ bi-directional view, 4.3" Color High Resolution Display
Fiber View & Magnification	X, Y, XY, X/Y: 500X Magnification
Power Supply	AC Input 100 - 240V, DC Input 10 - 15V
No. of Splice/Heating with Battery	TWP-52: 5200mAh, typical 250 times / TWP-72: 7200mAh, typical 320 times
Operating Methods	Button/Touch Screen
Automatic Calibration	Automatic arc calibration by air pressure and temperature
Electrode Life	5000 arcs
Terminal	Mini USB 2.0

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