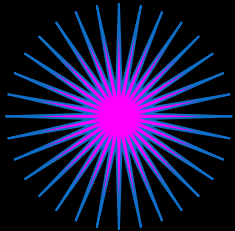
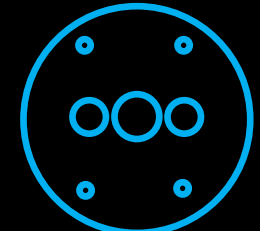
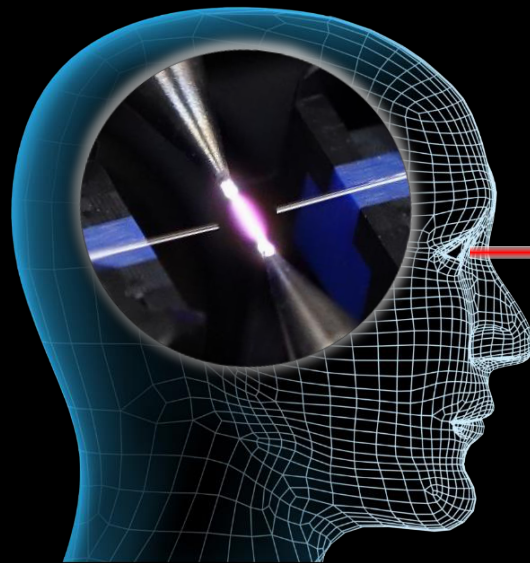


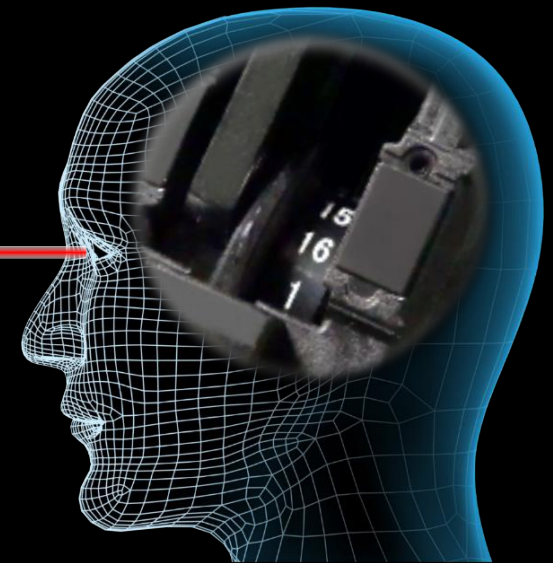
Valguskanali järgi joondav keevitusaparaat **90S+** kit



ACTIVE FUSION
CONTROL TECHNOLOGY



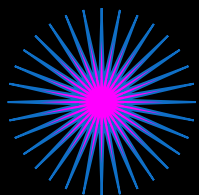
ACTIVE BLADE
MANAGEMENT TECHNOLOGY



Parim jätkamise tulemus



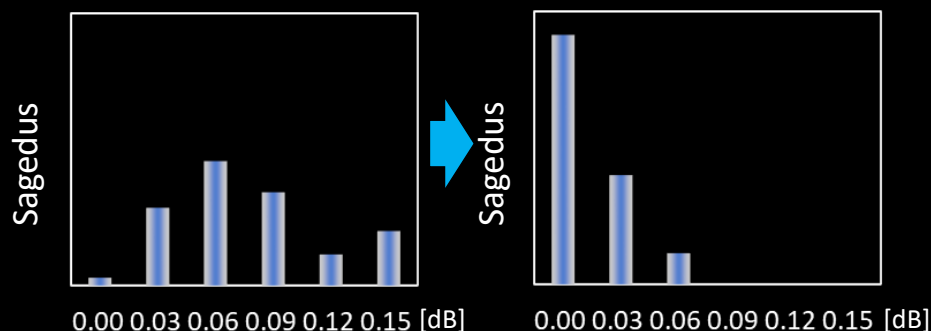
Active Fusion Control tehnoloogia



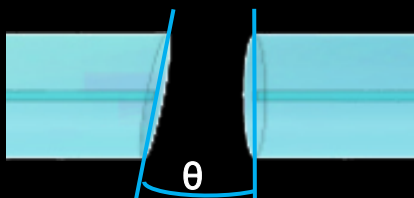
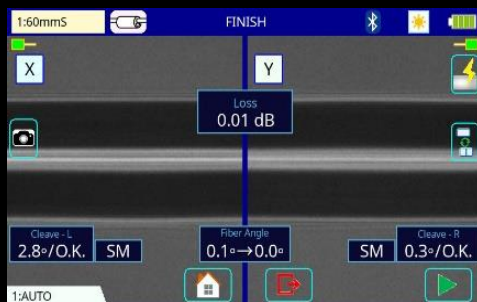
ACTIVE FUSION CONTROL TECHNOLOGY

1. Active Fusion control jälgib lõike kvaliteeti

Põhiliseks keevise suure sumbuuse põhjuseks on kiu halb lõige. 90S+ analüüsib nii paremat kui vasakut otspinda ja teeb keevituse parimate võimalike parameetritega. See uus tehnoloogia võimaldab oluliselt vähendada keevise sumbuust ja ühtlasi võimalust, et töö tuleb ümber teha.



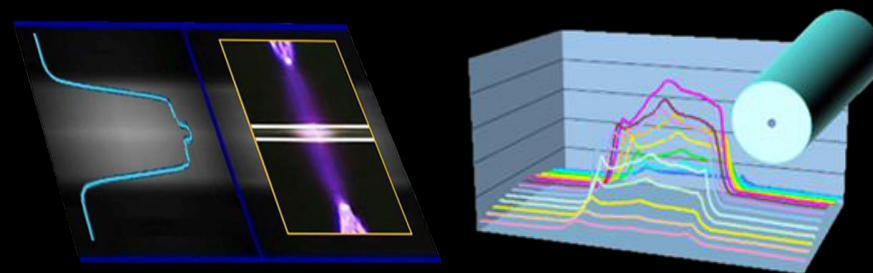
Keevise sumbuus suure lõikenurga korral : $3 < \theta < 5$ kraadi



*G.652 keevituse tulemus mõõdetuna *cut-back* meetodiga. Keevituse tulemus muutub sõltuvalt kiu tüübist ja omadustest.

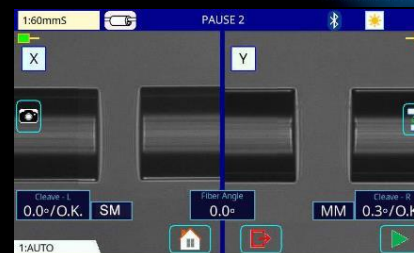
2. Active Fusion control arvestab kiu eredusega

Keevitusprotsessi mõjutavad oluliselt välised keskkonnamõjused. 90S+ analüüsib reaajas kiu ereduse taset ja korrigeerib automaatselt keevitamise parameetreid, vähendades sumbuust ja tagades stabiilse tulemuse.



3. Active Fusion control tuvastab kiu tüübi

Optimaalsed keevitamise parameetrid sõltuvad kiudude tüübist. 90S+ seadistab parimad keevitamise parameetrid vastavalt kiu tüübile automaatselt.

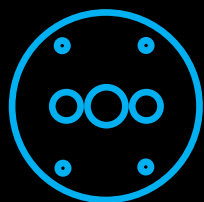


Vasak:G.652-Parem:G.651



Vasak:G.652-Parem:G.657

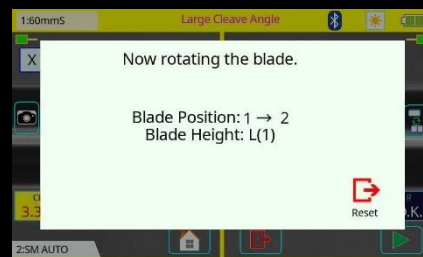
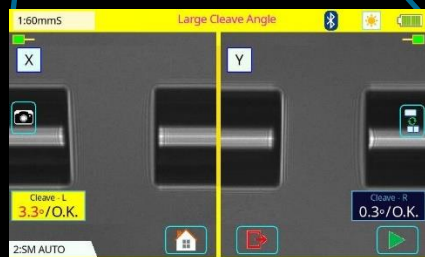
Aktiivne tera juhtimise tehnoloogia



ACTIVE BLADE
MANAGEMENT TECHNOLOGY

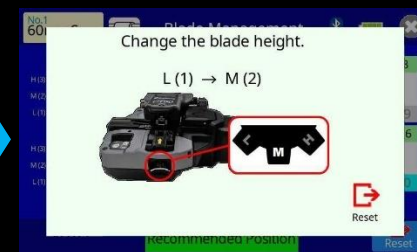
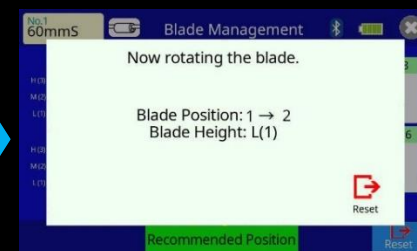
1. Active Blade mootoriga pööramine

90S+ ja CT50 kiulõikaja on omavahel juhtmevabalt ühendatavad. S90+ jälgib lõike kvaliteeti ja suudab tera pöörata, kui selgub, et see on kulunud. Efektivsuse tõstmiseks on võimalik 90S+ ühendada korraga kahe CT50 täppislõikuriga.



2. Active Blade tera ressursi juhtimine

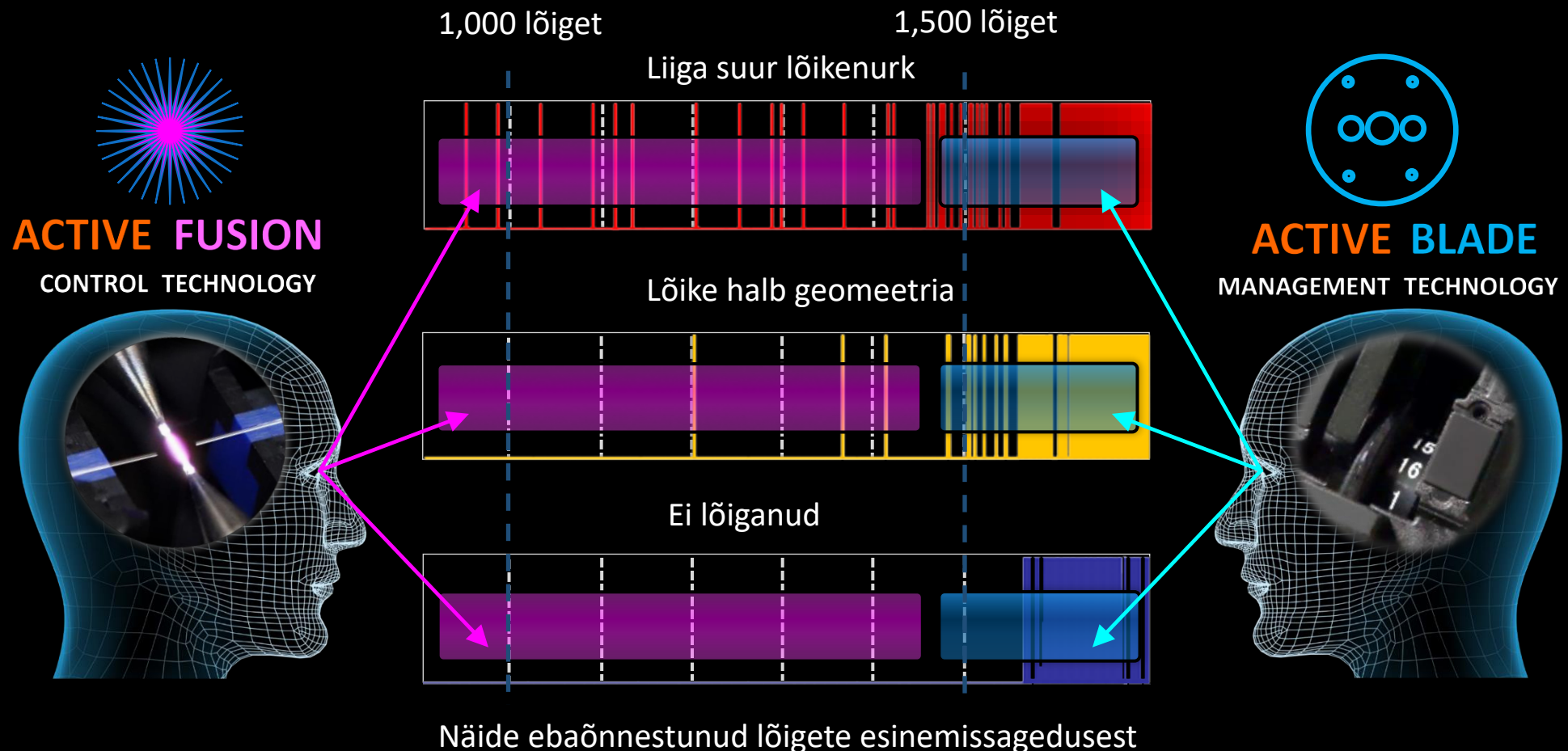
90S+ kuvab tera allesjäänud ressursi ja teavitab kasutajat, kui on vajadus muuta tera positsiooni, kõrgust või hoopiski tera uue vastu vahetada.



Veelgi parem keevitamise tulemus

Järgnev diagramm näitab liiga suure lõikenurga, halva geomeetria ja mittelõikamise esinemistihedust lõigete arvu kasvamisel. Liiga suure lõikenurgaga lõigete arvu kasvades tunneb **Active Blade** Management tehnoloogia selle tendentsi ära ja pöörab automaatselt tera edasi. **Active Blade** Management tehnoloogia vähendab oluliselt suure lõikenurgaga lõigete osakaalu ja isegi kui selline lõige tekib, suudab **Active Fusion** Control vähendada suure sumbuvuse teket tänu automaatsele keevitusparameetrite juhtimisele.

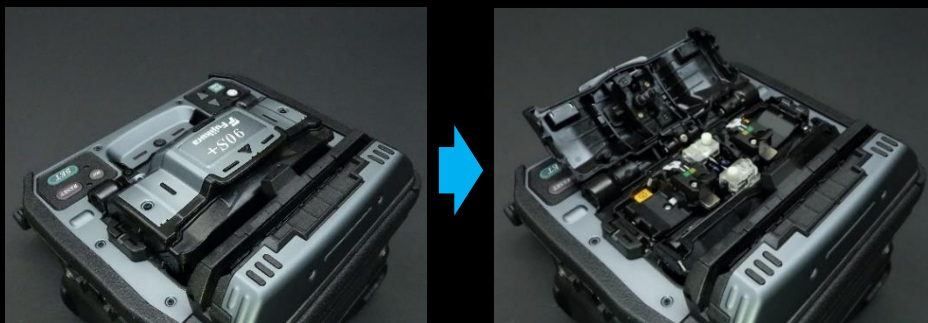
90S+ vähendab suure sumbuvusega keevituste tekkimise ohtu. Väheneb vajadus keevitusi ümber teha ja seda ennekõike nende kahe tehnoloogia - **Active Blade** Management ja **Active Fusion** Control sünergiale.



Keevitamisele kulunud aeg väheneb

1. Automaatselt avanev ja sulguv tuulekaitse

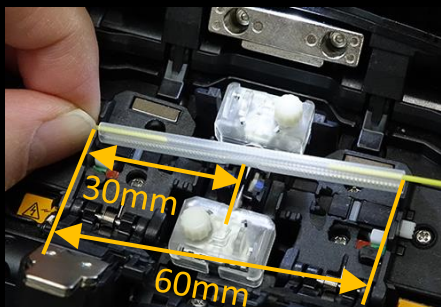
Automaatsed toimingud vähendavad keevitusprotsessile kuluvat aega. 90S+ keevitusmasinat ennast pole keevitusprotsessi ajal vaja kordagi puudutada, piisab vaid kiu tõstmisest ahju.



Automaatselt avanev ja sulguv tuulekaitse

2. Operatsioone kiirendavad detailid

Kiu fikseerimisklambri kuju on optimeeritud 60mm pikkadele keeviskaitsetele. Kevituspunktist fikseerimisklambri ääreni on 30mm. Seega piisab keeviskaitse tsentreerimiseks näpust. 40mm pikale keeviskaitsele on oma tsentreerija ahjus.



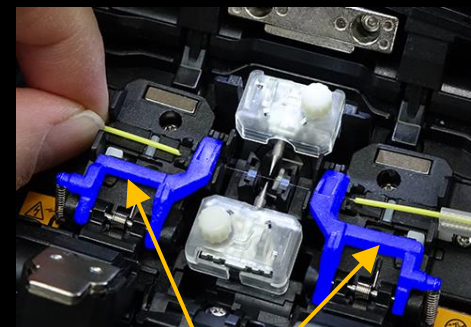
Lihtne tsentreerimine



Automaatne ahi

3. Kiu liikumist piirav klamber

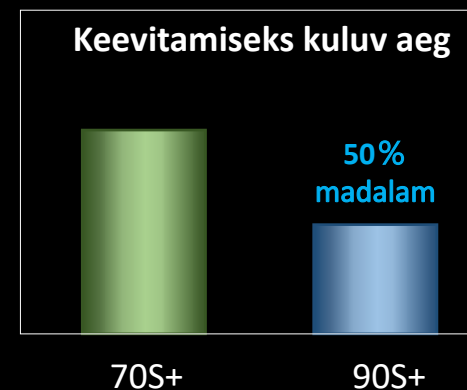
Kiu liikumist piiravad klambrid lihtsustavad automaatseid operatsioone. Fikseerimisklambrite automaatsel avanemisel takistavad need kiu välja hüppamist masinast. Liikumist piiravad klambrid avanevad alles siis, kui operaator hakkab kiudu ahju asetama.



Kiu liikumist piiravad klambrid

4. 90S+ on palju kiirem kui eelkäijad

Detailid mängivad olulist rolli - 90S+ võimaldab üle 50% ajalist kokkuhoidu võrreldes eelmise mudeliga.



Kasutajasõbralik

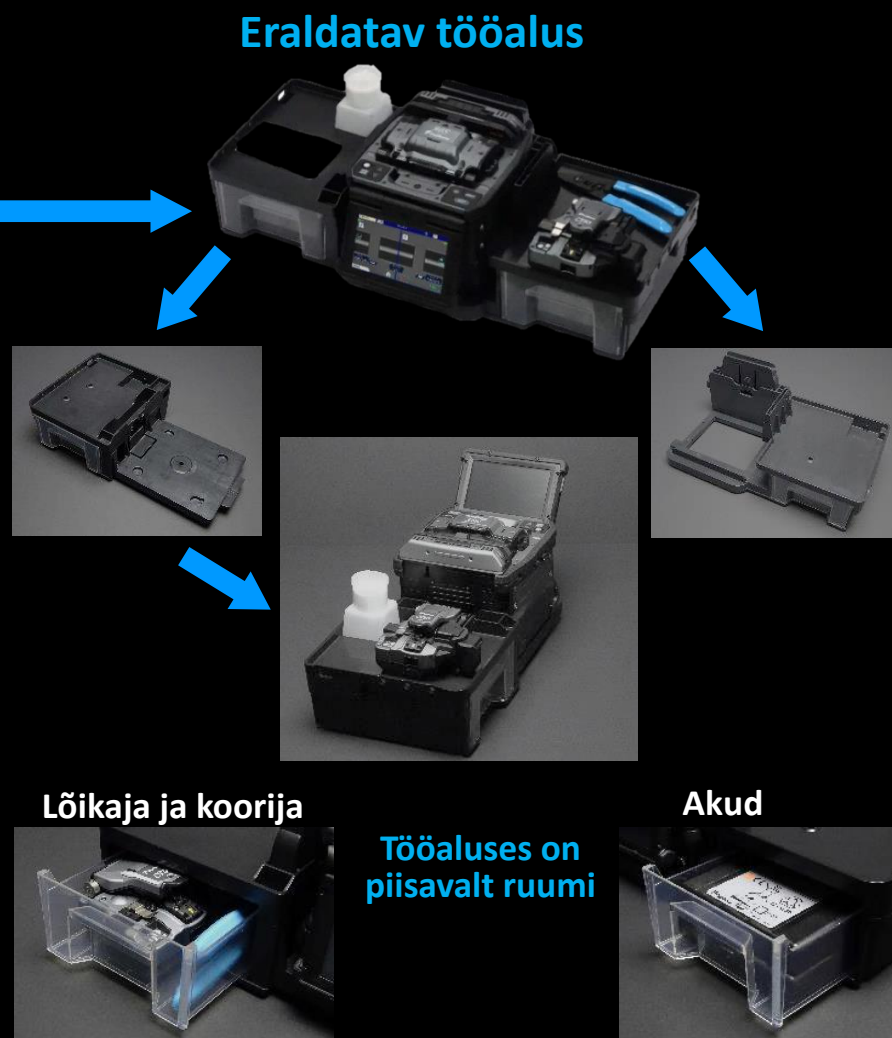
1. Kohver

90S+ kohver on kasutatav mitmel viisil. Sõltuvalt oma eelistustest ja töökeskkonnast saab operaator keevitusaparaati 90S+ kasutada juba kaane avamisel, asetada keevitusaparaadi kaanele või eemaldada tööaluse kohvrast.



2. Tööalus

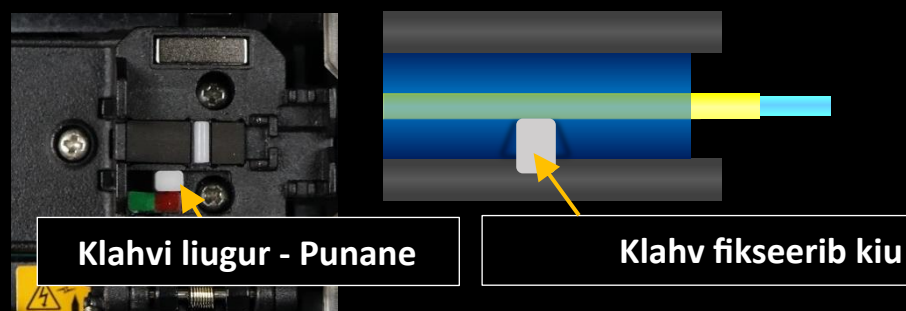
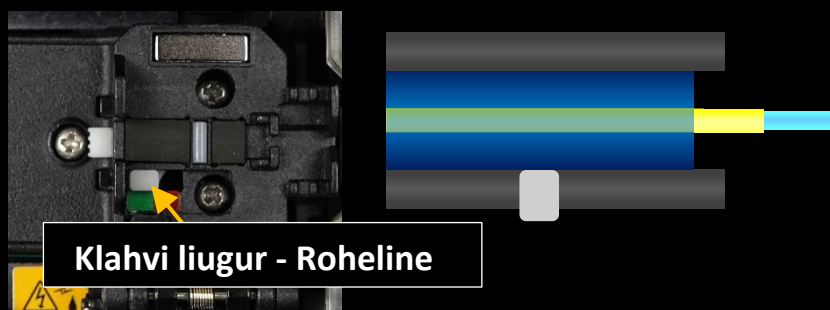
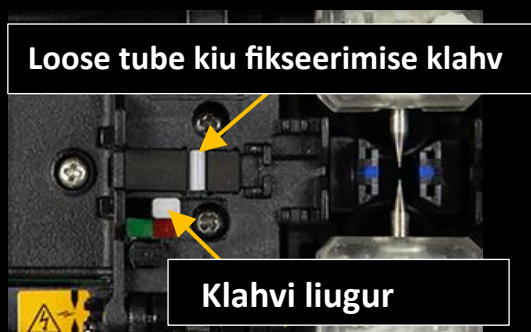
Uue disainiga tööalusel on mitmeid funktsioone. Seal on kaks sahtlit töövahendite ja aku hoidmiseks. Samuti saab tööaluse osid kombineerida vastavalt vajadusele.



Kasutajasõbralik

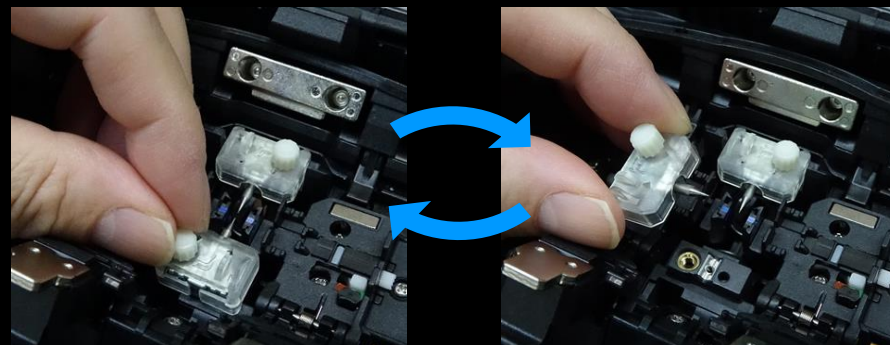
3. Sobib *Loose tube* kiududele

90S+ kiu fikseerimise klamber sobib *loose tube* kiududele. *Loose tube* kiu fikseerimise klahv tõuseb või langeb näpuga vastavat liugurit lükates.



4. Tööriistavaba elektrootide vahetus ja parem valgustus

90S+ elektrootid on komplekteeritud kinnituskruvidega. Elektrootide vahetamine käib lihtsalt näpuga kruvisid keerates.

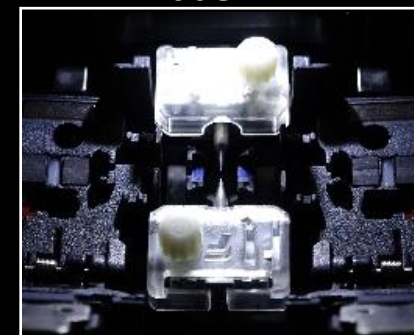


Läbipaistvad elektrootide katted võimaldavad V-sälku paremini valgustada. Kiu fikseerimise klamber avaneb lambile vastupidises suunas ja niimoodi ei jää tööalale varje.

70S+



90S+



Suurem valgustatud ala

Standard komplekt

90S+ standard komplekt



(1)



(2)



(3)



(4)



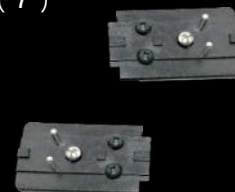
(5)



(6)



(7)



(8)



(9) (10) (11)



(12)



(13)



(14)



(15)



(1)



(2)



(3)



(4)



Kirjeldus	Mudel	tk
Valguskanali järgi joondav keevitusaparaat	90S+	1tk
(1) Aku*	BTR-15	1tk
(2) AC adapter	ADC-20	1tk
(3) AC toitejuhe	ACC-14, 15, 16 17or 18	1tk
(4) USB kaabel	USB-01	1tk
(5) Kevitusmasina rihtm	ST-02	1tk
(6) Varuelektroodid	ELCT2-16B	1paar
(7) Kiuholdija plaat	SP-03	1paar
(8) Kohver	CC-39	1tk
(9) Vasakpoolne tööalus	WT-09L	1tk
(10) Parempoolne tööalus	WT-09R	1tk
(11) Tööaluse jahtumisplaat	JP-09	1tk
(12) Tripodi kruvi	TS-03	2tk
(13) Kohvri rihtm	ST-03	1tk
(14) Alkoholi dosaator	AP-02	1tk
(15) Lühijuhend	QRG-02-E	1tk
Kiu koorija	SS03 or SS01	1tk
Kiulõikur	CT50	1tk
(1) Kiu jääkide koguja	FDB-05	1tk
(2) Kiu mõõteplaat	AD-10-M24	1tk
(3) Lõikuri karp	CC-37	1tk
(4) Hex võti	HEX-01	1tk

* Palume järgida akude lennutranspordil IATA regulatsioone

Andmeleht



90S+ spetsifikatsioon

Item		Specification
Fiber alignment method		Active core alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber
	Cladding dia.	Multi mode optical fiber
Applicable coating	Sheath clamp	Coating dia. : Max. 3000µm
		Cleave length : 5 to 16mm *1
Fiber splice performance	Splice loss *2	ITU-T G.652 : Avg. 0.02dB
		ITU-T G.651 : Avg. 0.01dB
		ITU-T G.653 : Avg. 0.04dB
		ITU-T G.654 : Avg. 0.04dB
		ITU-T G.655 : Avg. 0.04dB
		ITU-T G.657 : Avg. 0.02dB
	Splice time *3	SM FAST mode : Avg. 7 to 9sec.
		AUTO mode : Avg. 14 to 16sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat performance	Heat time *4	60mm slim mode : Avg. 9 to 10sec.
		60mm mode : Avg. 13 to 15sec.
Fiber tensile test force		Approx. 2.0N
Electrode life *5		Approx. 5000 splices
Physical description	Dimensions W	Approx. 170mm without projection
	Dimensions D	Approx. 173mm without projection
	Dimensions H	Approx. 150mm without projection
	Weight	Approx. 2.8kg including battery
Environmental condition	Temperature	Operate : -10 to 50 degreeC
	Humidity	Storage : -40 to 80 degreeC
		Operate : 0 to 95%RH non-condensing
	Altitude	Storage : 0 to 95%RH non-condensing
AC adaptor	Input	Max. 5000m
	Type	AC100 to 240V, 50/60Hz, Max. 1.5A
Battery pack	Output	Rechargeable Lithium Ion
	Capacity *6	Approx. DC14.4V, 6380mAh
	Temperature	Approx. 300 splice and heat cycles
		Recharge : 0 to 40 degreeC
	Battery life *7	Storage : -20 to 30 degreeC
Display	LCD monitor	Approx. 500 recharge cycles
	Magnification	TFT 4.9 inches with touch screen
Illumination	V-grooves	200 to 320x
	LED lamp	LED lamp
Interface	PC	USB2.0 Mini B type
	External LED lamp	USB2.0 A type
	Ribbon Stripper	Approx. DC5V, 500mA
		Mini DIN 6pin
	Wireless *8	DC12V, Max. 1A
Data storage	Splice mode	Bluetooth 4.1 LE
	Heat mode	100 splice modes
	Splice result	30 heat modes
	Splice image	20000 splices
		100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Splice mode selected using fiber type analysis
		Fusion power calibration
		Wind protector : open and close
		Sheath clamp : open
		Heater lid : open and close
		Heater clamp : open and close
	Reference guide	Video and PDF file stored in splicer
Sheath clamp	Easy sleeve positioning clamp	
Electrode	Replaceable without tool	

90S+ Lisavarustus

Item	Model	Remark
Fiber holder	FH-70-200	200µm coating diameter
	FH-70-250	250µm coating diameter
	FH-70-900	900µm coating diameter
	FH-FC-20	900µm in 2mm diameter cable
	FH-FC-30	900µm in 3mm diameter cable
DC Adapter	DCA-03	Connect AC adapter not through battery
DC power cord	DCC-20	Car cigar socket to BTR-15/DCA-03
	DCC-21	Car battery to BTR-15/DCA-03
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on work tray
J-Plate	JP-10	Attaching to splicer, not to work tray
	JP-10-FC	JP-10 with fiber clamps
Protection sleeve	FP-03	60mm, Max. 900µm coating diameter
	FP-03(L=40)	40mm, Max. 900µm coating diameter
	FP-03M	FP-03 with non-magnetic material

Notes

*1 Cleave length range depending on fiber type

- 5 to 16mm : 125µm cladding dia. and 250µm coating dia.
- 10 to 16mm : 125µm cladding dia. and 400 or 900µm coating dia.
- 5 to 10mm : 80µm cladding dia. and 160µm coating dia.
- 5 to 16mm : 150µm cladding dia. and 250µm coating dia.

*2 Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.

*3 Measured at room temperature. The definition of splice time is from the fiber image appearing on LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

*4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type and battery pack condition.

*5 The electrode life changes depending on the environmental conditions, fiber type and splice modes.

*6 Test condition

- (1) Splice and heat time : 1 minute cycle
 - (2) Using the splicer power save settings
 - (3) Using a not degraded battery
 - (4) At room temperature
- The battery capacity changes when testing with different conditions from the above.

*7 The battery capacity decreases to a half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.

*8 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

Andmeleht

CT50 spetsifikatsioon



Item		Specification
Applicable fiber	Fiber type	Single mode optical fiber
		Multi mode optical fiber
	Fiber count	Up to 16 fiber ribbon
	Cladding dia.	Approx. 125µm
Applicable coating	Fiber setting plate	AD-10-M24 : Max. 900µm coating diameter
		AD-50 : Max. 3mm coating diameter
	Fiber holder	Coating shape. : Refer to splicer options
Cleave length		AD-10-M24 : 5 to 20mm *1
	Fiber setting plate	AD-50 *C.D. : coating diameter C.D. = 250µm or less : 5 to 20mm *1 250µm < C.D. < =900µm : 10 to 20mm 900µm < C.D. < =3mm : 14 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees
	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade life *3		Approx. 60000 fiber cleaves
Physical description	Dimensions W	Approx. 117mm without projection *4
	Dimensions D	Approx. 94mm without projection *4
	Dimensions H	Approx. 59mm without projection *4
	Weight	Approx. 306g including battery and AD-10-M24
Environmental condition	Temperature	Operate : -10 to 50 degreeC Storage : -40 to 80 degreeC
	Humidity	Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing
Battery		2 pieces of LR03, AAA dry battery
Wireless interface *5		Bluetooth 4.1 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation Manual rotation dial
	Replaceable parts	Blade
		Clamp arm

CT50 lisavarustus

Item	Model	Remark
Fiber Setting Plate	AD-50	Optional fiber setting plate
Blade	CB-08	Blade for replacement
Clamp Arm	ARM-CT50-01	Clamp arm with anvil for replacement
Fiber Scrap Collector	FDB-05	Spare scrap collector
Side cover	SC-CT50-01	Side cover instead of scrap collector
Spacer	SPA-CT08-10	Cleave length 10mm
	SPA-CT08-09	Cleave length 9mm
	SPA-CT08-08	Cleave length 8mm

Notes

*1 When the cleave length is less than 10mm, the coating diameter should be 250µm or less. Also, a blade height adjustment is required before cleaving. The average cleave angle is worse than the specification when the cleave length is less than 10mm.

*2 Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and ribbon fibers. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.

*3 The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.

*4 Measured in a condition when closing the lever.

*5 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.



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<https://www.fusionsplicer.fujikura.com>

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