

HY-90 Fiber Polishing Machine Operation Manual

Efficient · versatility · Portable

- FTTH
- 5G Installation
- FTTR
- Data Center Rectify



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I. Functional Specification



Sewage Tank/Outfall



Net Water Tank

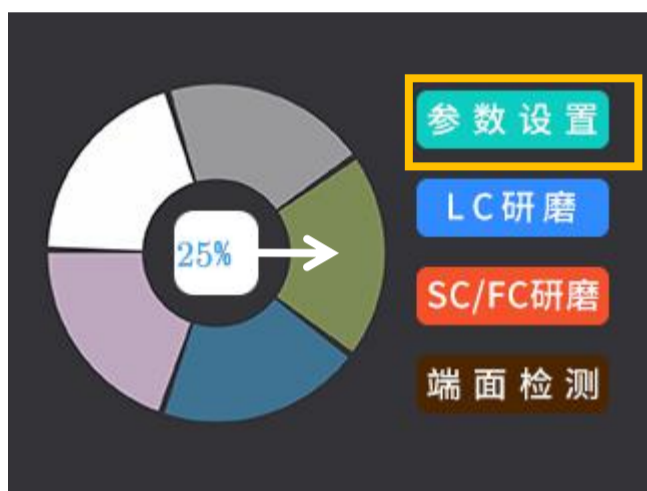


Focus Control

II. Menu Details



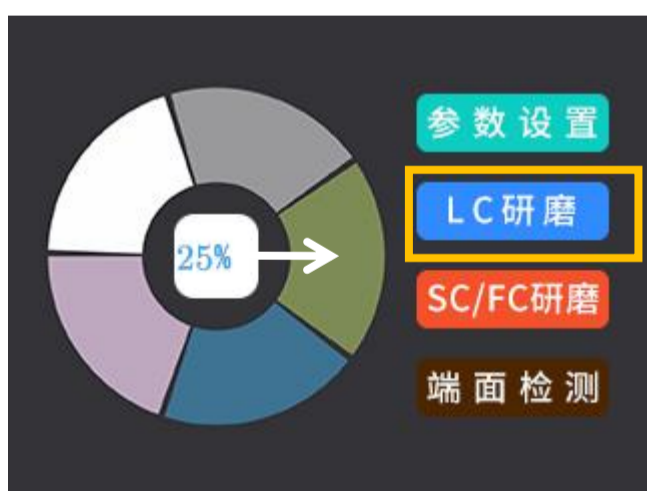
【Boot Screen】



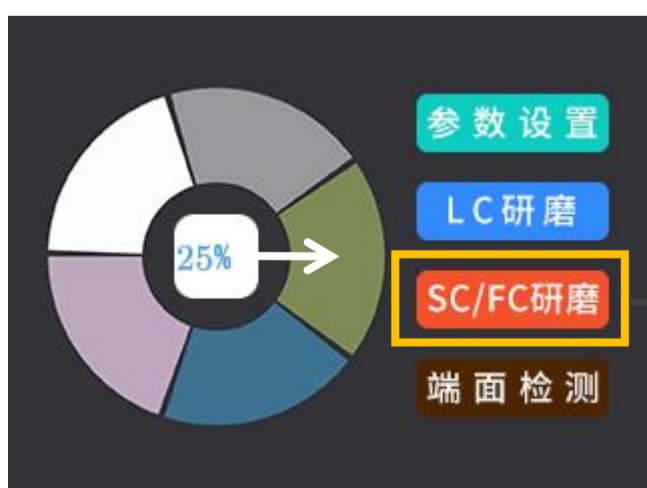
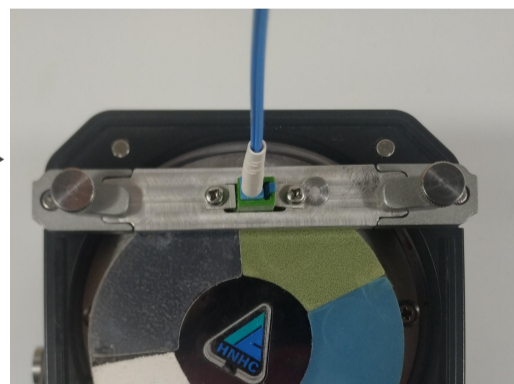
【Operation Interface】



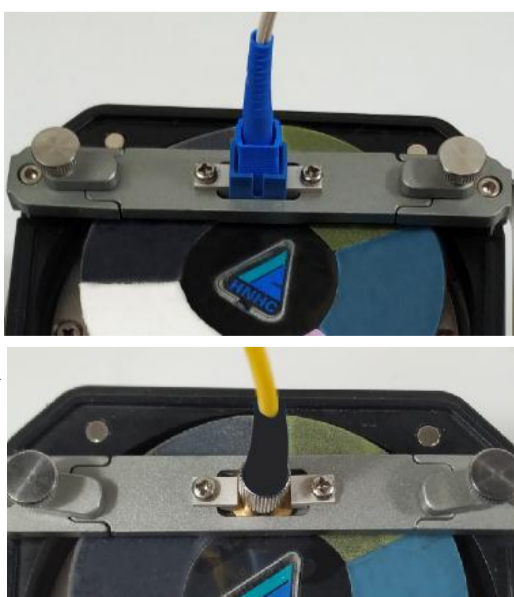
【Restore Defaults】



Correspond mode state



Correspond mode state



III. Product Details

● Specification Parameter

Model	HY-90		
Polishing Mode	SC/FC/LC	End Face Type	UPC/APC
Battery Capacity	3400mAh +7800mAh	Abrasive Paper Life	30+
UV Curing Time	12S	Working Temperature	-10°C ~ 50°C
Net Water Tank Volume	30ml	Sewage Tank Volume	25ml
Charger Input Voltage	AC 220v50HZ 1.5A	Charger Output Voltage	DC12.6v
Weight	2.3kg	Dimension	209mm*123mm* 104mm
Return Loss	≥45dB	Insert Loss	≤0.3dB
Magnification Times	252 times	Display Screen Size	70mm*53mm
Polishing Time	39s	Screen Resolution	340*240

● Standard Configuraitons

HY-90 Polishing Machine	1 set	Adapter	1 piece
User Manual	1 piece	SC-UPC Clamp	1 piece
FC-UPC Clamp	1 piece	LC-UPC Clamp	1 piece
Multi-function fiber stripper	1 piece	Cutter Pen	1 piece
UV Lamp	1 piece	Alcohol Pump	1 piece
Water Pipe	1 piece	Water Bottle	1 piece
Bag	1 piece	Rubber Mat	1 piece
Power Bank	1 piece	Abrasive Paper	1 piece

● Optional configurations

SC-APC Clamp	1 piece	FC-APC Clamp	1 piece
LC-APC Clamp	1 piece	ST Clamp	1 piece

IV. Polishing Procedure

1、 Take out the fiber polishing machine and select the appropriate clamp, click the power button to start and the screen lights up, click the “Start” button, the machine default SC-UPC mode (FC-UPC mode).



2、 Make the fiber connector.



①: Pour the glue into ceramic ferrule

SC-UPC indoors wiring optical cable connector production

Connector assembly



②: Thread the sleeve of tail handle



③: Determine the length



④: Strip according to the determined length



⑤: Strip the fiber coating



⑥: Thread the fiber through the ferrule



⑦: Crimp



⑧: Install the sleeve of tail handle and solidify inside the machine



⑨: Use a cutter to remove excess fiber and start polishing

SC-UPC3.0 Optical fiber jumper connector production

Jumper connector assembly



①: Pour the glue into ceramic ferrule



②: Thread the sleeve of tail handle



③: Strip according to the determined length



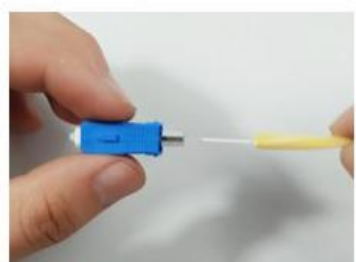
Put on the pressure ring



⑤: Strip the 0.9 fiber sheath



⑥: Strip the fiber coating



⑦: Thread the fiber through the ferrule



⑧: Crimp



⑨: Install the sleeve of tail handle and solidify inside the machine



⑩: Use a cutter to remove excess fiber and start polishing

SC-APC indoors wiring optical cable connector production

Connector assembly



①: Pour the glue into ceramic ferrule



②: Thread the sleeve of tail handle



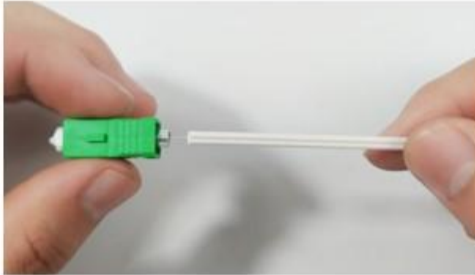
③: Determined the length



④: Strip the determined length



⑤: Strip the fiber coating



⑥: Thread the fiber through the ferrule



⑦: Crimp



⑧: Install the sleeve of tail handle and solidify inside the machine



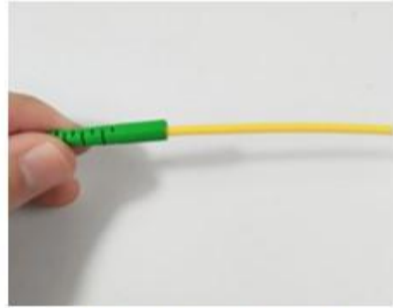
⑨: Use a cutter to remove excess fiber and start polishing

SC-APC3.0 Optical fiber jumper connector production

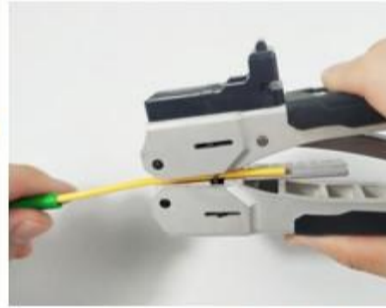
Connector jumper assembly



①: Pour the glue into ceramic ferrule



②: Thread the sleeve of tail handle



③: Strip according to the determined length



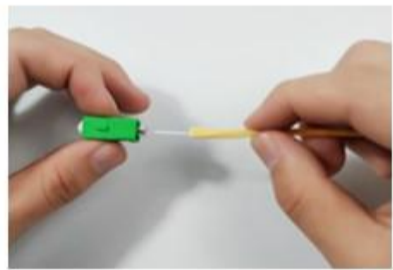
④: Put on the pressure ring



⑤: Strip the 0.9 fiber sheath



⑥: Strip the fiber coating



⑦: Thread the fiber through the ferrule



⑧: Crimp



⑨: Install the sleeve of tail handle and solidify inside the machine



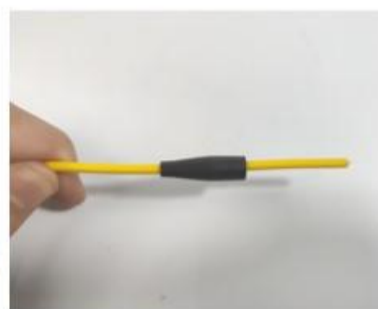
⑩: Use a cutter to remove excess fiber and start polishing

FC-UPC3.0 Optical fiber jumper connector production

Jumper connector assembly



①: Pour the glue into ceramic ferrule



②: Thread the sleeve of tail handle



③: Strip according to the determined length



④: Put on the pressure ring



⑤: Strip the 0.9 fiber sheath



⑥: Strip the fiber coating



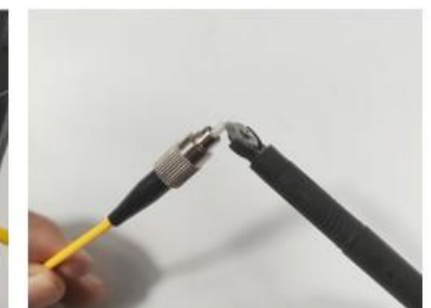
⑦: Thread the fiber through the ferrule



⑧: Crimp



⑨: Install the sleeve of tail handle and solidify inside the machine



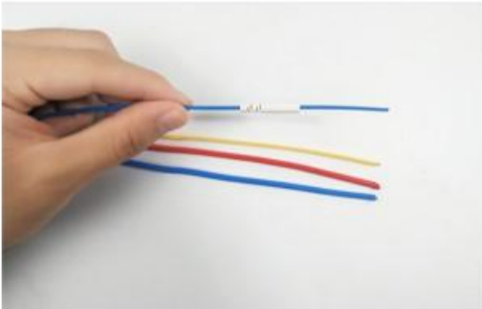
⑩: Use a cutter to remove excess fiber and start polishing



①: Pour the glue into ceramic ferrule

LC-UPC Optical power composite cable connector production

Connector assembly



②: Thread the sleeve of tail handle



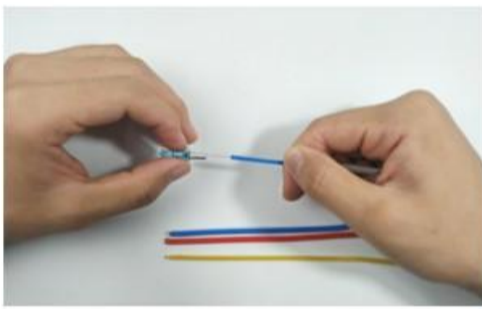
③: Determine the fiber length



④: Strip the determined length



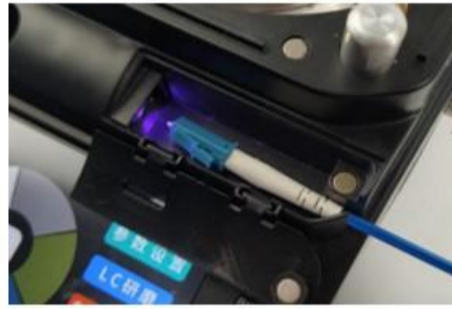
⑤: Strip the fiber coating



⑥: Thread the fiber through the ferrule



⑦: Crimp



⑧: Install the sleeve of tail handle and solidify inside the machine



⑨: Use a cutter to remove excess fiber and start polishing

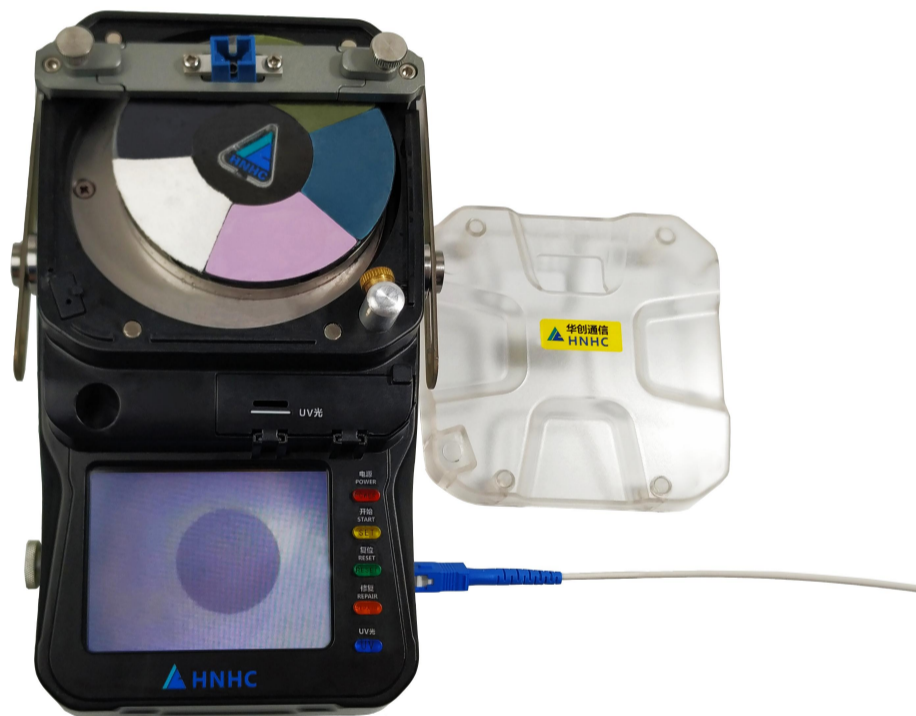
* Fiber connector components and finished product display



3、 Click the "Start" button and the machine will runs normally.



4、 After polishing is completed, remove the finished connector and insert it into the end face detection port to check whether it is qualified. If the end face image on the screen is smooth and clean, the fiber connector is completed.



5、 After polishing, wipe the abrasive paper in time to ensure the quality of the next polishing.



Wipe the abrasive paper counterclockwise from fine to rough

6、 If the end face is not perfect, click one-click key to repair it.



V. Configuration RePlace

1、 Replace the clamp. Take the replacement of LC clamp as an example. First adjust the screw of the clamp pressing block. Remove the pressing block, remove the SC clamp, then take out the LC clamp and put it into the clamp slot. Return the pressing block. Tighten the screw, and complete the fixture replacement. As shown in the figure:



2、 Manually switch the LC mode. Click the screen [LC Mode] to switch with one key, as shown in the figure:



3、 Replace the abrasive paper. Open the clamp cover, remove the clamp. Tear off the old abrasive paper, clean the rubber pad; Take out the new abrasive paper, tear off the adhesive of the abrasive paper, align the hollow triangle of the abrasive paper with the triangle mark on the polishing disc, press gently to complete the replacement. As shown in the figure:



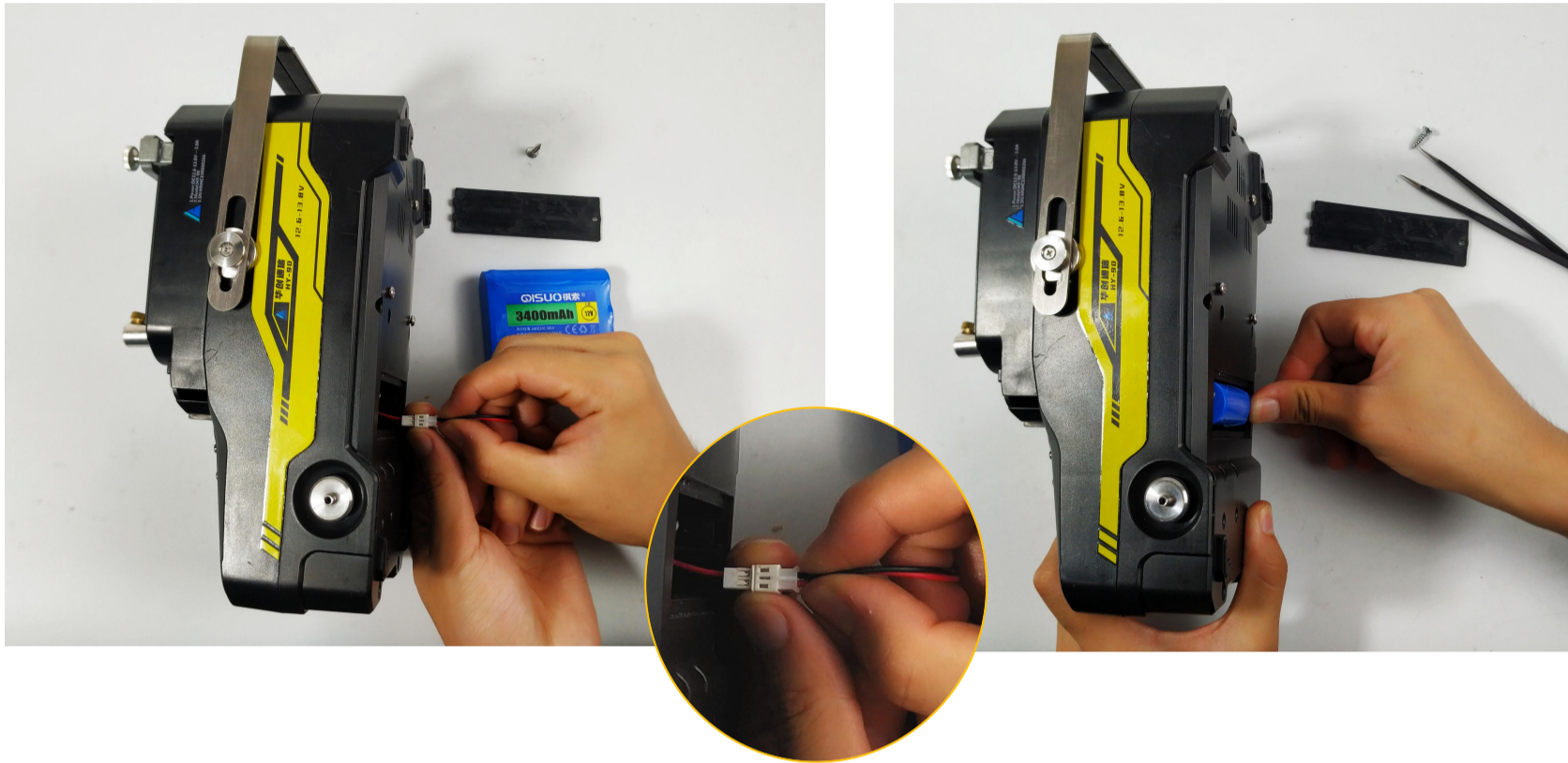
4、 Add water. Open the water plug of the net water tank and take out the water pipe to fill the water. Pay attention to the hose completely into the water filling nozzle and slowly fill the water until the water level reaches 3/4 of the net water tank and stop filling the water. As shown in the figure:



5、 Charge. Take out the power adapter and connect it to the charging port on the back of the fiber polishing machine. At this time, the red light of the power adapter is on, charging starts, and the green light is on, charging is complete. As shown in the figure:



6、 Replace the battery. Put the fiber polishing machine on its side. Remove the battery shell screws. Remove the old battery. Unplug the power cable. Take out the new battery. Reconnect the power supply. Put the battery in. Cover the battery case. Tighten the screws, Complete the battery replacement. As shown in the figure:



***Cautions:** The battery should be replaced when the net water tank is dry.

VI. Troubleshooting

1、 If the nozzle does not spray water, at first check whether there is water in the water tank or the water level is low. If the water still doesn't spray after adding water, you can use a spray bottle to spray water manually, and contact the after-sales service. As shown in the figure:



- 2、 If the power adapter flickers or can't be charged, the power adapter is damaged or the circuit is faulty. Contact us please.
- 3、 If there is no response when there is electricity, contact us please.
- 4、 In case of poor polishing effect, check whether the sandpaper needs to be replaced or whether the polishing sandpaper is not clean.

VII. Attentions

- 1、 If the working environment temperature is too low, add antifreeze please.
- 2、 Prevent falling.
- 3、 Be sure to keep the sandpaper clean and tidy.
- 4、 In case of nozzle displacement, the water can't reach the center of the sandpaper, and the nozzle direction can be fine-tuned manually.
- 5、 Energy saving mode. The fiber polishing machine will automatically shut down if there is no operation within 2 minutes after it is turned on.

* In case of abnormal situation, refer to the above instructions or contact us please; Do not disassemble and repair the instrument without authorization to avoid man-made damage.

VIII. Maintenance

- 1、 After daily use, clean the abrasive paper with alcohol in time. In the clean process, clean the abrasive paper anticlockwise from fine abrasive paper to coarse abrasive paper. Polishing as the start point and green abrasive paper as the end point.
- 2、 In daily use, pay attention to clean up the sewage in the sewage tank in time.
- 3、 In the process of daily use, please clean up the impurities in the polishing groove in time, so as not to affect the polishing effect.

IX. Technical Supports

1、 Consulting services

Users can obtain product consultation and support services through the following ways:

- a. You can directly call service hotline +86 371 63636999 to inquire about the technical information during working hours. Engineers will provide telephone support;
- b. Through visiting website <http://www.hnhctx.com/>, inuery the latest sales, service and product information;
- c. Or email to huachuang2003@163.com, try our best to solve the problems.

2、 Online service

Users can get the company's online information service for free, and can seek technical support from our professionals through the network.

Continue to improve the scope and content of service. More fast and convenient online services are our pleasure.

Contact us



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