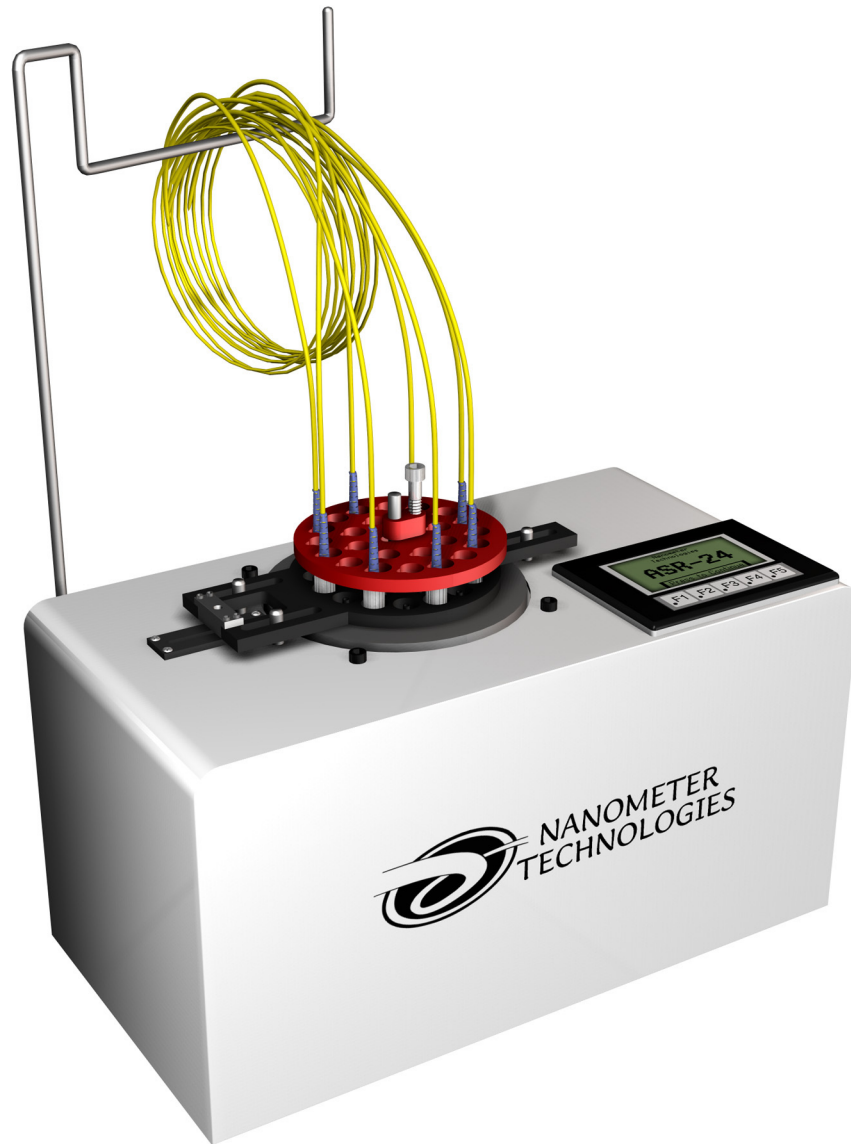


ASR-24

AUTOMATED FIBER STUB REMOVAL INSTRUCTION MANUAL



NANOMETER TECHNOLOGIES

ASR-24

AUTOMATED FIBER STUB REMOVAL INSTRUCTION MANUAL

Document Number RE:ASR24-01

Nanometer Technologies (NMT) has prepared this manual for use by NMT personnel, licensees, and customers. The information contained herein is the property of NMT and shall not be reproduced in whole or in part without the prior written approval of NMT.

NMT reserves the right to make changes without notice to the specification(s) and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical or listing errors.

Please address any questions, comments and suggestions to:

NANOMETER TECHNOLOGIES INC

2501 GOLDEN HILL RD
PASO ROBLES, CA 93446

Tel: (805) 226-7332
Fax: (805) 226-8753

www.nanometer.com

July 2nd, 2013

TABLE OF CONTENTS

Machine Setup Instructions

ASR-24 Machine Setup	1
----------------------	---

Fixture Plate Instructions

Fixture Setup and Loading	2
Placing Fixture on ASR-24	4

Touchscreen Instructions

ASR-24 Touchscreen	5
Loading a Polishing Recipe	6
Manual Mode	7
Creating a Custom recipe	8
Info Screen	10

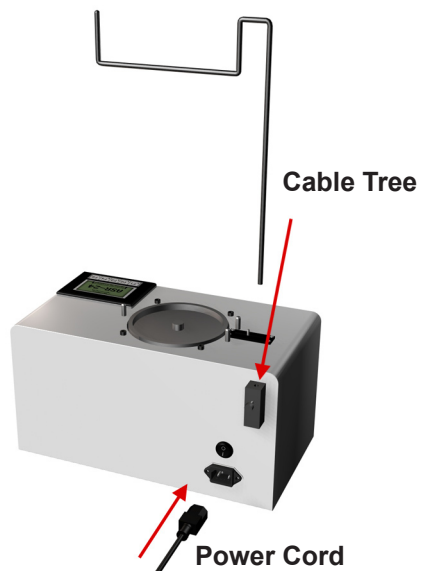
User Notes:

- Do not use water with the ASR-24
- Always use PSA backed film
- Make sure the fixture plate is clean and free of particles

Film Ordering:

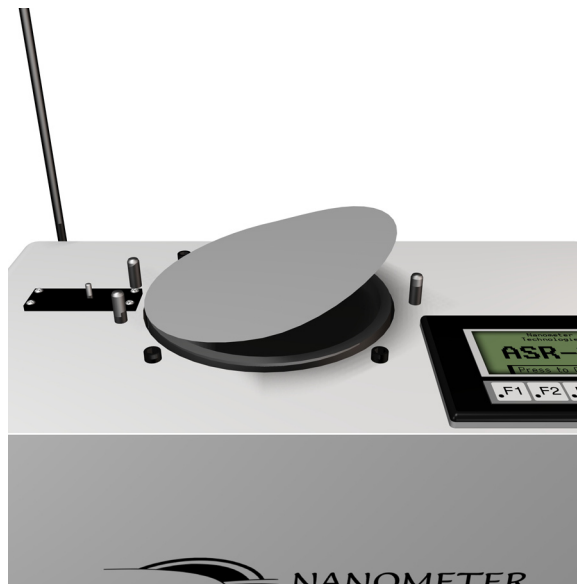
SCS 550 150-P-5

Step 1



- 1) Attach the Cable Tree and Power Cord to the ASR-24.

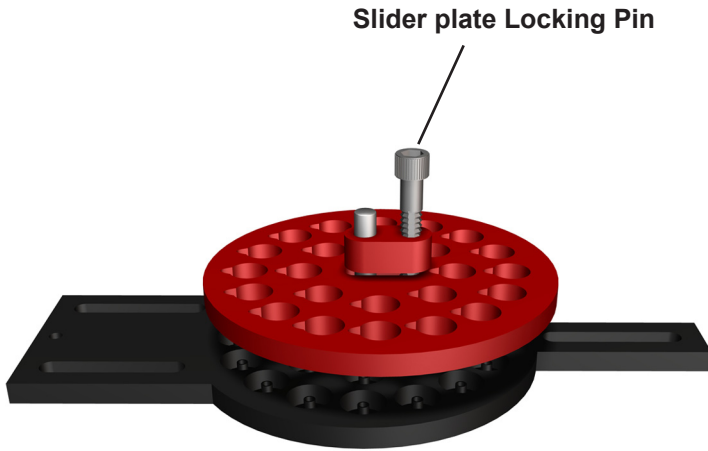
Step 2



- 2) Place the PSA Backed Polishing Film onto the Base Plate. Start by aligning the film edge to the Base plate edge. Gently roll across Base Plate making sure no air bubbles are created.

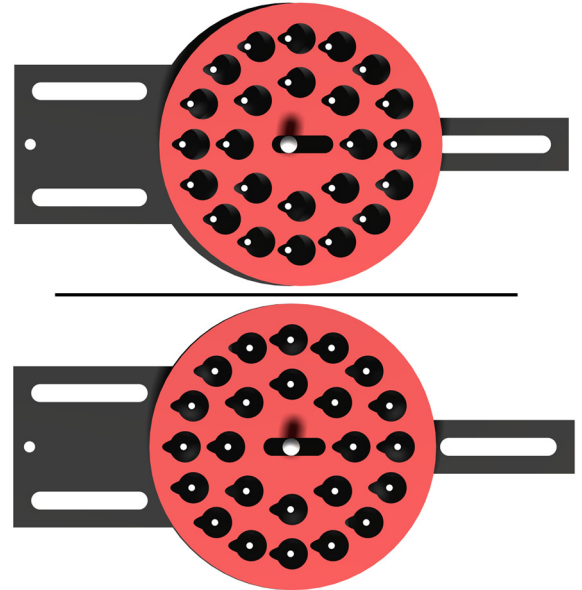
ASR-24 Loading Fixture Plate

Step 1



1) Remove the Slider Plate Locking Pin.

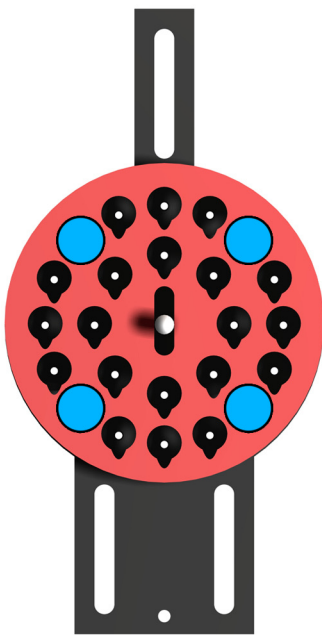
Step 2



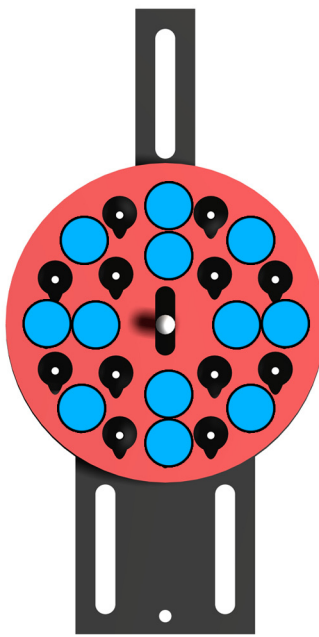
2) Position the **Slider Plate** with the connector slots centered with the ferrule holes on the **Fixture Plate**.

Step 3

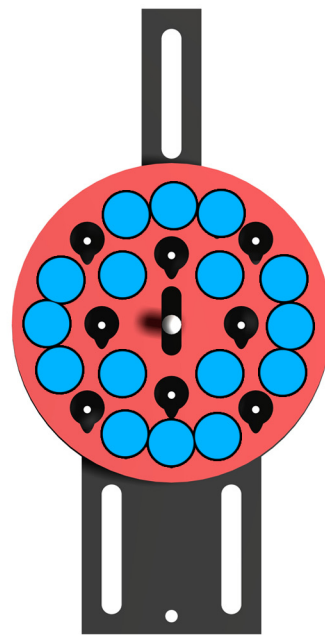
NOTE: If the Fixture Plate is being loaded with less than 24 connectors, it is important the connectors be placed in symmetrical pattern. This will keep the Polishing Fixture surface level over the film during the polishing procedure. Load outside holes first, spacing evenly.



4 Connectors



12 Connectors

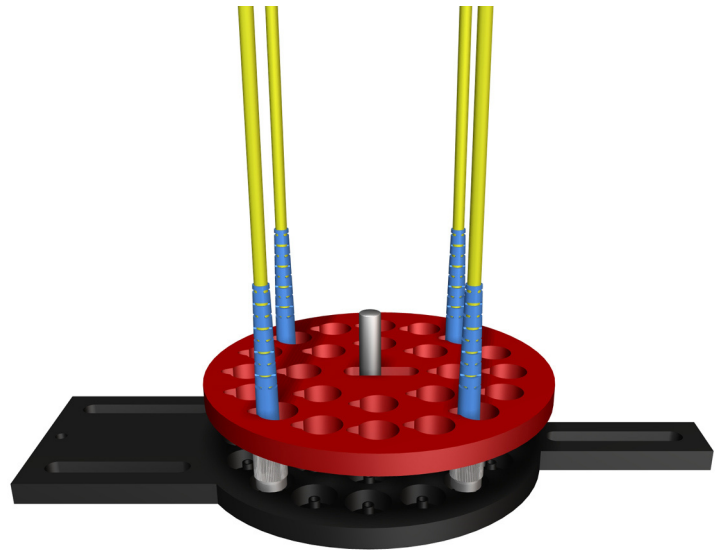


16 Connectors

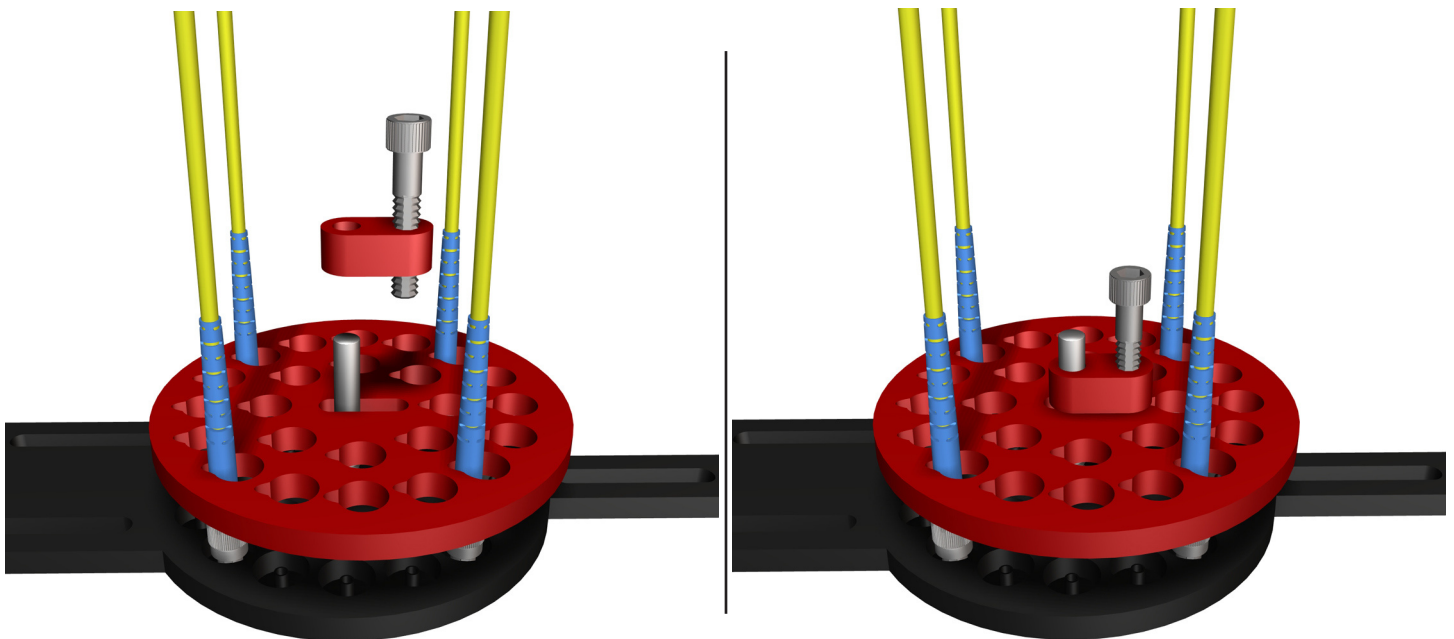
ASR-24 Loading Fixture Plate

Step 4

4) Position the **Slider Plate** over the connectors. Make sure the **Slider Plate** is resting on top of the connectors as shown.



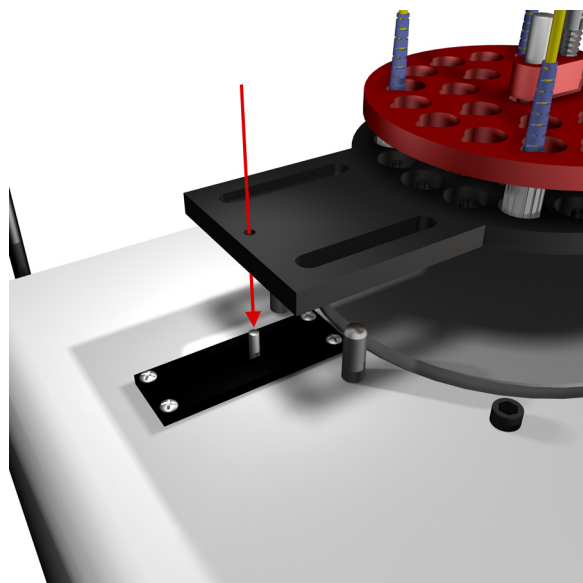
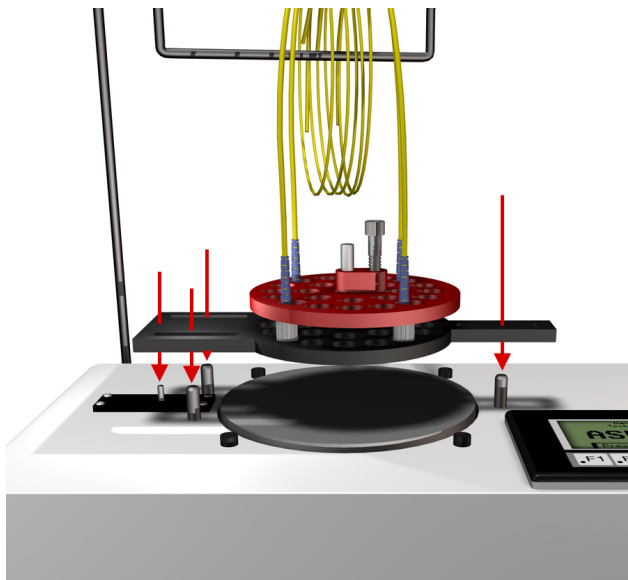
Step 5



5) Place the **Slider Plate Locking Pin** back onto the **Slider Plate**. Make sure the end of the adjustment screw is sitting inside the center slot as shown.

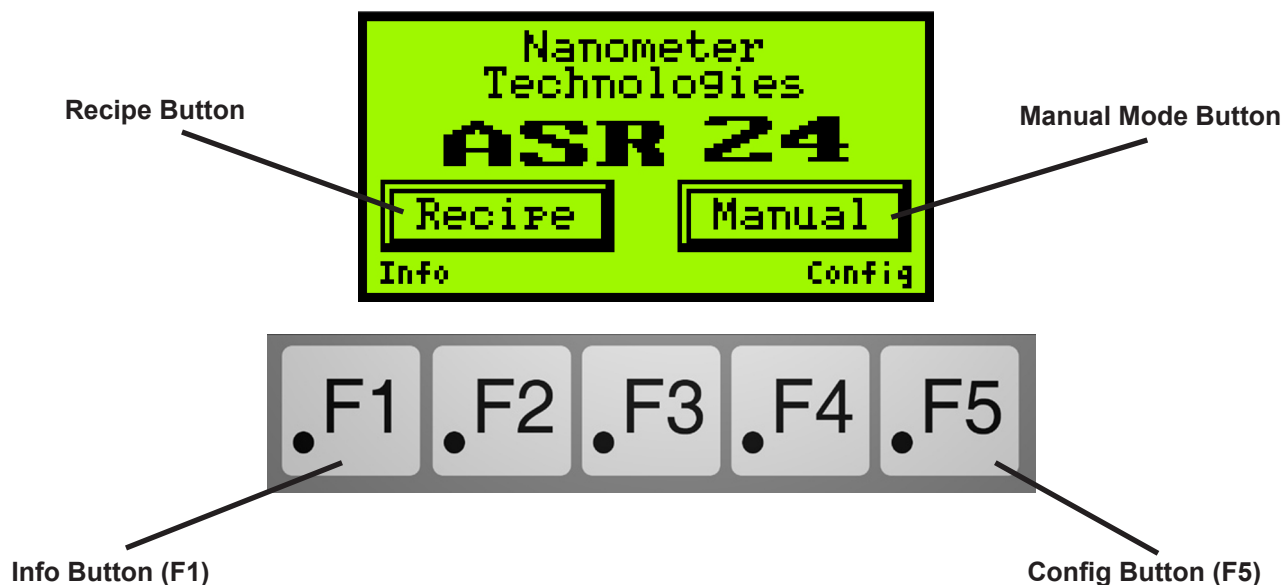
Placing Fixture Plate on ASR-24

Placing Fixture on ASR-24



Place the Fixture Plate onto the ASR-24. Make sure the Fixture Plate is sitting on all guide pins.

ASR-24 Touchscreen



Recipe Button:

This section is for choosing pre-existing polishing procedures built into the ASR-24

Manual Button:

This section is for manually entering custom values for a polishing procedure.

Info Button (F1):

This section will show information for number of cycles run on the ASR-24 and software version.

Config Button (F5):

This section is for creating custom polishing procedures that can be saved on the ASR-24.

ASR-24 Touchscreen Instructions

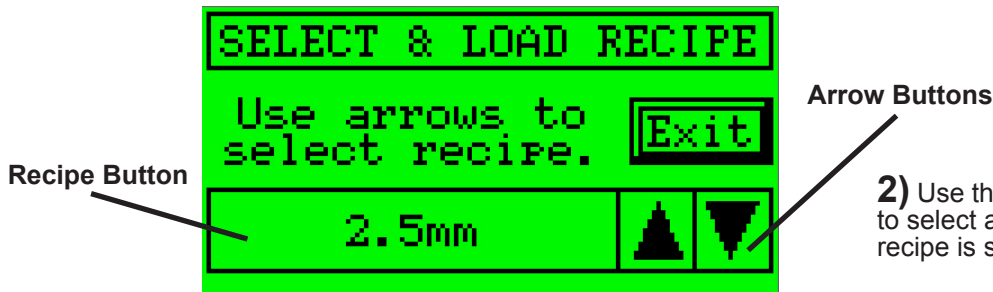
Choosing & Running a Recipe

Step 1



1) Press the **Recipe Button** on the touchscreen to open the **Select & Load Recipe** screen.

Step 2



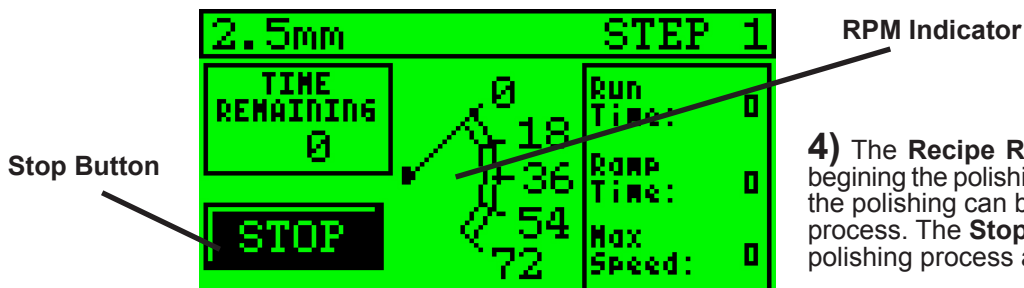
2) Use the arrow buttons on the touchscreen to select a polishing recipe. Once the desired recipe is selected, press the **Recipe Button**.

Step 3



3) Press the **Start Button** to begin the polishing process. Press the **Exit Button** to return to the **Select & Load Recipe** screen.

Step 4



4) The **Recipe Runtime** screen will appear after beginning the polishing process. Information related to the polishing can be monitored during the polishing process. The **Stop Button** can be used to stop the polishing process at any time.

Polishing in Manual Mode

Step 1



1) Press the **Manual Button** on the touchscreen to open the **Manual Mode Recipe** screen.

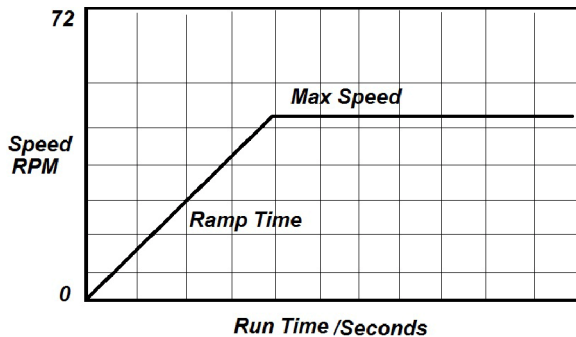
Step 2



2) To enter custom numerical values, press the **Numerical Box**.

Values represent seconds; ie 1 1/2 minutes would input as 90.

Once all numerical values have been entered, press the **Start Button** to begin the process.

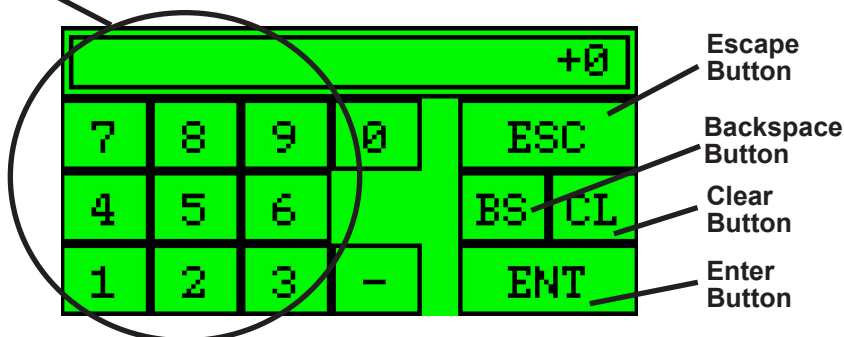


Run Time:
How long connectors will be processed.

Ramp Time:
How long the ASR-24 takes to progress from the starting RPM to the MAX Speed.

Max Speed:
Maximum overall speed of the cutting disk will spin.

Number Buttons



Use the **Numerical Buttons** to enter values.

ESC (Escape Button):
Use this to exit this screen

BS (Backspace Button):
Remove the last entered number.

CL (Clear Button):
Removes all numbers.

ENT (Enter Button):
Use to finalize numbers and return to previous screen.

Config Button (Custom Recipes)



Config Option

1) The **Config Screen** is for creating or modifying polishing recipes.

Press the **F5 Button** below the touchscreen to open the **Config** screen.

Step 1



The **Config Screen** is password protected. The Default password is: 1234

Use the **Numerical Buttons** to enter values.

ESC (Escape Button):
Use this to exit this screen

BS (Backspace Button):
Remove the last entered number.

CL (Clear Button):
Removes all numbers.

ENT (Enter Button):
Use to finalize numbers and return to previous screen.

Step 2



2) Use the **Arrow Buttons** to select a **Recipe**.

NOTE: All Recipes can be modified including the factory recipes.

Once the desired **Recipe** is selected, press the **Recipe Button**.

Use the **Exit Button** to return back to the **Start Screen**.

Config Button (Custom Recipes)

Step 3



3) Press the **Edit Step Button** to modify the recipe.

NOTE: Up to 4 steps can be added to a recipe.

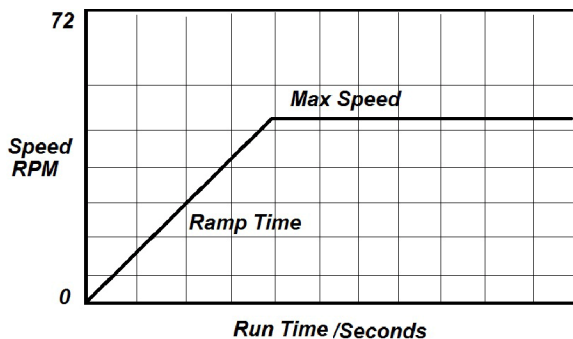
Step 4



4) Press the **Numerical Box** to modify the value.

Repeat this process until values are set for Time, Ramp, and Speed.

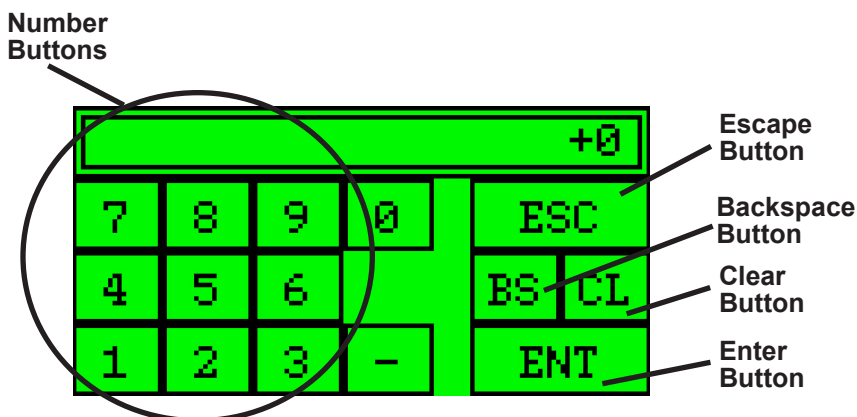
Once all values are entered, press the **Save Button** to save the modified recipe.



Time:
How long connectors will be processed.

Ramp:
How long the ASR-24 takes to progress from the starting RPM to the MAX Speed.

Speed:
Maximum overall speed of the cutting disk will spin.



Use the **Numerical Buttons** to enter values.

ESC (Escape Button):
Use this to exit this screen

BS (Backspace Button):
Remove the last entered number.

CL (Clear Button):
Removes all numbers.

ENT (Enter Button):
Use to finalize numbers and return to previous screen.

ASR-24 Touchscreen Instructions

Info Button



1) Press the **F1 Button** on the **Start Screen** to enter the **Info Screen**.

This screen will show:

Unit Cycle Count:

Displays how many cycles (or recpies) that the ASR-24 has completed.

Software Version:

Displays the software version the ASR-24 is currently using.

NOTES:

Limited Warranty

Nanometer Technologies products shall be free of defects in material and workmanship for a period of 1 year from the date of purchase.

Nanometer Technologies fixture plates shall be free of defects in material and workmanship for a period of 90 days from the date of purchase.

In the event of a defect in materials or workmanship, we will either replace or repair without charge (not including shipping costs) at our option any part which in our judgment shows evidence of such defect within 1 year (90 days for fixture plates) from the date of purchase. ***This warranty does not apply to misuse, abuse, tampered, altered items, overuse of water or UPS solution, dropping the fixture plate, or hitting the fixture plate while suspended from pneumatic arm.*** At the end of the warranty period Nanometer Technologies shall be under no further obligation expressed or implied. This warranty is in lieu of any other warranty, under no circumstances will Nanometer Technologies be liable for any loss, damage, expense or consequential damages of any kind arising in connection with the use or inability to use Nanometer Technologies products.

Warranty will be voided if tamper seals are broken on any product or unit is opened by any person not authorized by Nanometer Technologies without prior permission.

NANOMETER TECHNOLOGIES

2501 GOLDEN HILL RD
PASO ROBLES, CA 93446

Telephone: (805) 226-7332

Fax: (805) 226-8753

www.nanometer.com