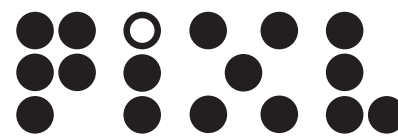


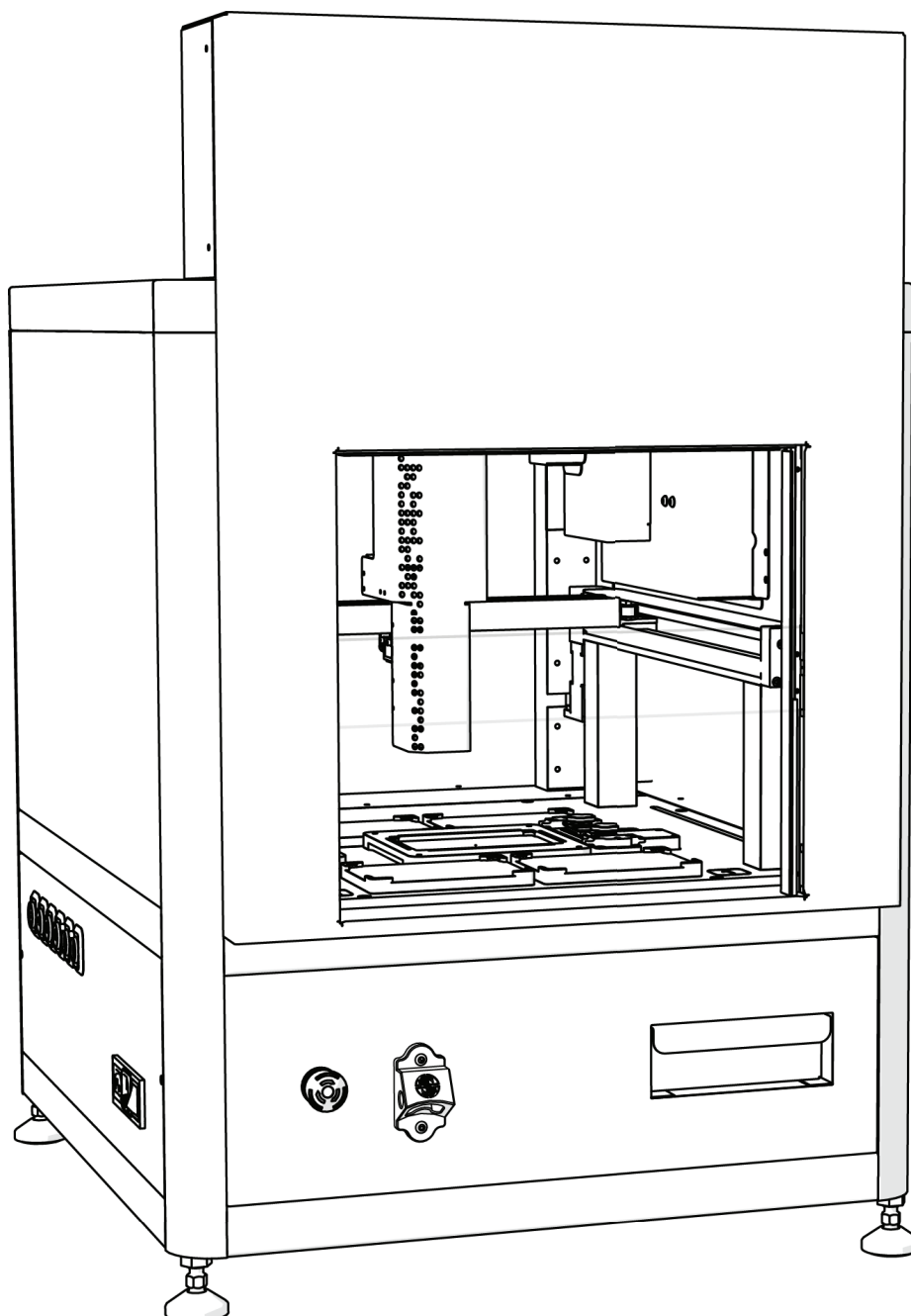


SINGER
INSTRUMENTS
A RESPONSIBILITY TO SCIENCE!



DARK

QUICK START GUIDE v1.1



For more support
resources visit
bit.ly/PIXLhelp



READ BEFORE YOU START!

- **The blade is sharp!** Be careful when handling the PIXL blade. Always follow the instructions on page 42 when changing blades.
- **Hand feed the PickupLine™ carefully.** When feeding a PickupLine™ into the machine, if you feel resistance, pull back slightly and re-feed. Forcing the PickupLine™ through will cause damage to the machine.
- **Remove lids when placing plates into the PIXL.** Lids need to be manually removed. Failure to do so will cause damage to the picking arm.
- **The nozzle is hot!** Be careful when removing the nozzle as it can get quite hot.
- **The feed button is disabled.** The feed button is disabled on all PIXL machines. The retract button is fully functional during the change PickupLine maintenance routine.
- **Door interlock.** For safety reasons PIXL is sold with an interlocking door guard, which acts as: a physical barrier to potentially dangerous moving components; UV protection when the product is running its sterilisation protocol; and contains a sensor ensuring that the motors and UV bulb are disabled when the door is open. Do not attempt to tamper with or override this sensor. If the door is removed then a Risk Assessment is recommended to mitigate the above factors within any third party integrations or enclosures. Singer Instruments will not be liable for any accidents or damage caused by the removal of the door, or other user negligence. Please report any faults with this sensor, or any of the safety mechanisms immediately to your technical support team.

JOIN OUR DISCOVERY COMMUNITY!

Join our Discovery community and help us to make the product features YOU want.

The Discovery Community is a group of scientists helping us to understand and solve anything causing frustration in their lab.

Help us to shape product development and have a say in future product updates. You'll also get early access to new features and be able to test things before release.

We'll even throw in some cheeky vouchers, Singer discounts and maybe even some cake!

Scan the QR Code or visit bit.ly/CustomerDisco to join.

A NOTE ON INSTALLATIONS

We are performing in-person installations again! But for those we can't make it to, never fear! To get you up and running as quickly as possible we have instead included detailed instruction on how to self-install the PIXL (see page <?>). We ask that you contact our Tech Support Team to let them know when you're planning to perform the self-installation so they can be on hand should you require any assistance:
technicalsupport@singerinstruments.com

Once the installation is complete, please fill-in the online Self-Installation Form:
<http://bit.ly/Selfinstallation>

You will be asked to create an account before you start. You can also use this form to report any issues encountered during installation.

NOTE: Completion of this form will activate the start of your warranty period. Failure to complete the form may affect the support we are able to offer during the warranty period.

Thanks for being awesome!

2	Read before you start!
4	Introduction
5	Anatomy & features
11	Unboxing & assembly
17	Troubleshooting

PIXL™

INTRODUCTION

A super-easy-to-use microbial colony picker. It automates imaging, colony recognition, colony selection, and picking; from Petri dishes to multiwell plates.

The information in this guide relates to software version:
3.24.0304.1

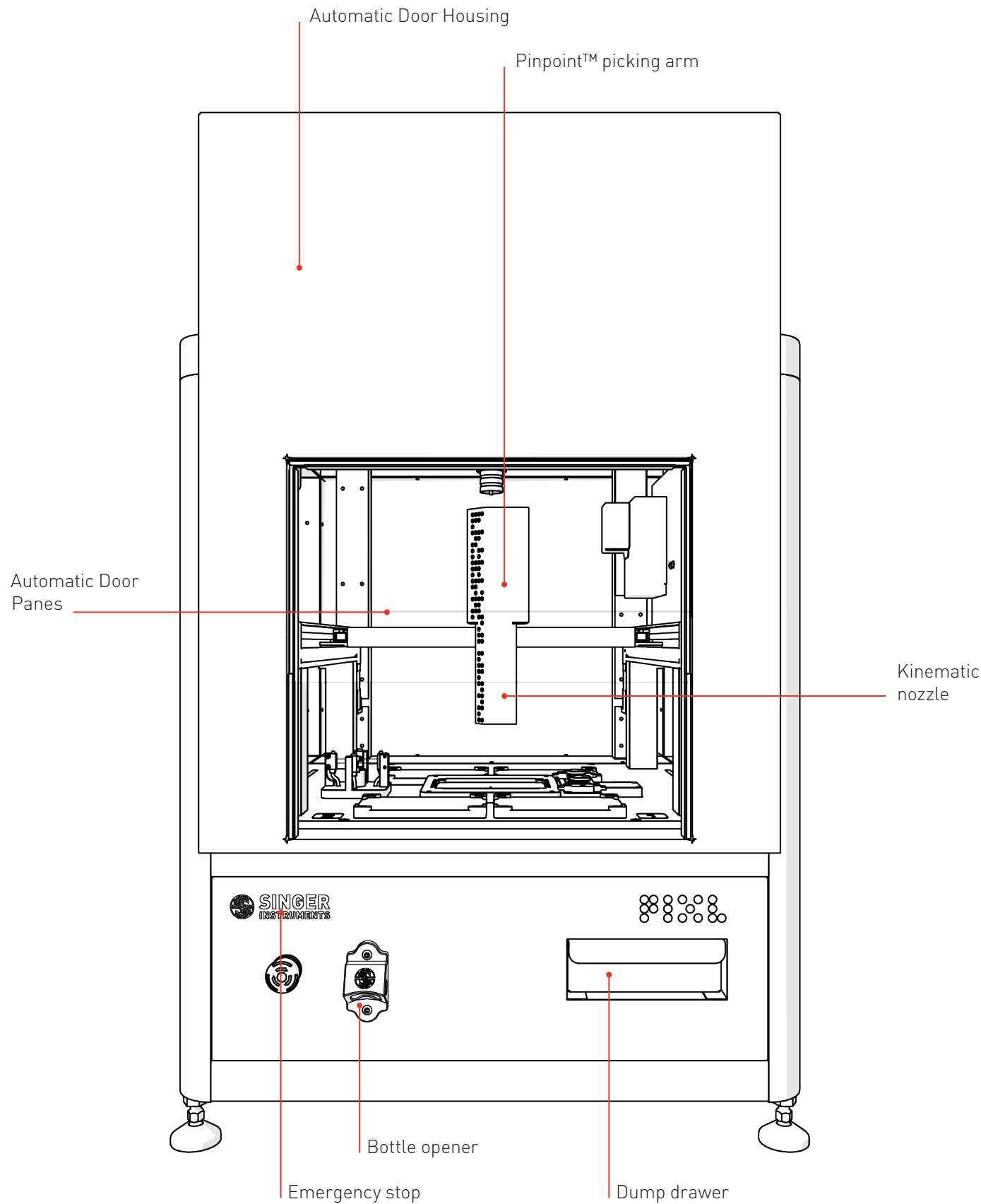
FULL USER GUIDE AVAILABLE HERE:



bit.ly/PIXLguide

ANATOMY & FEATURES

FRONT



ANATOMY & FEATURES

CAMERA & LIGHTING

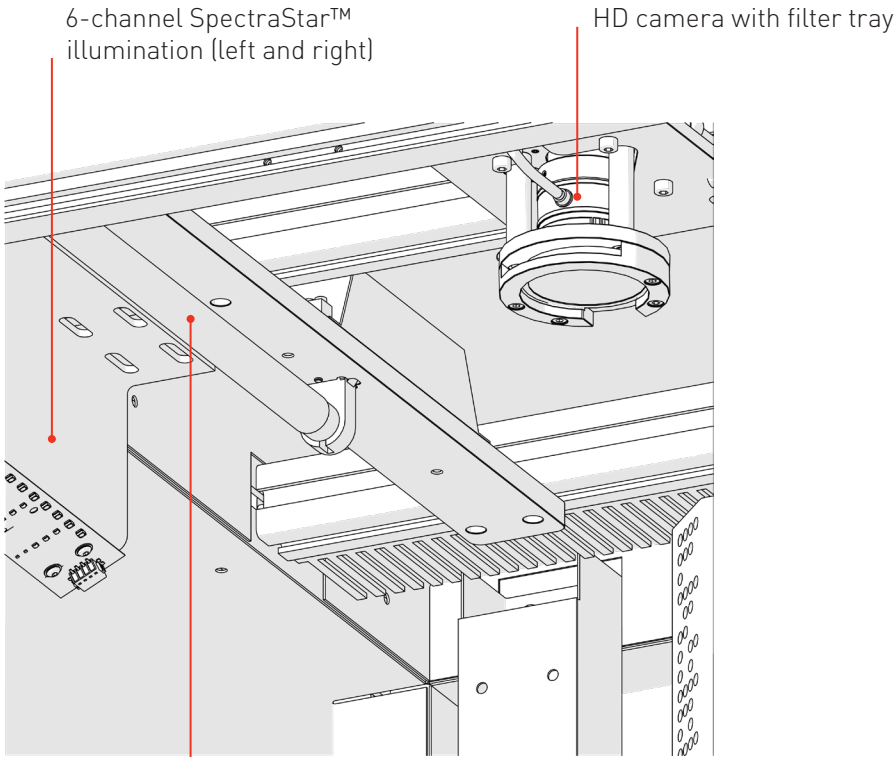
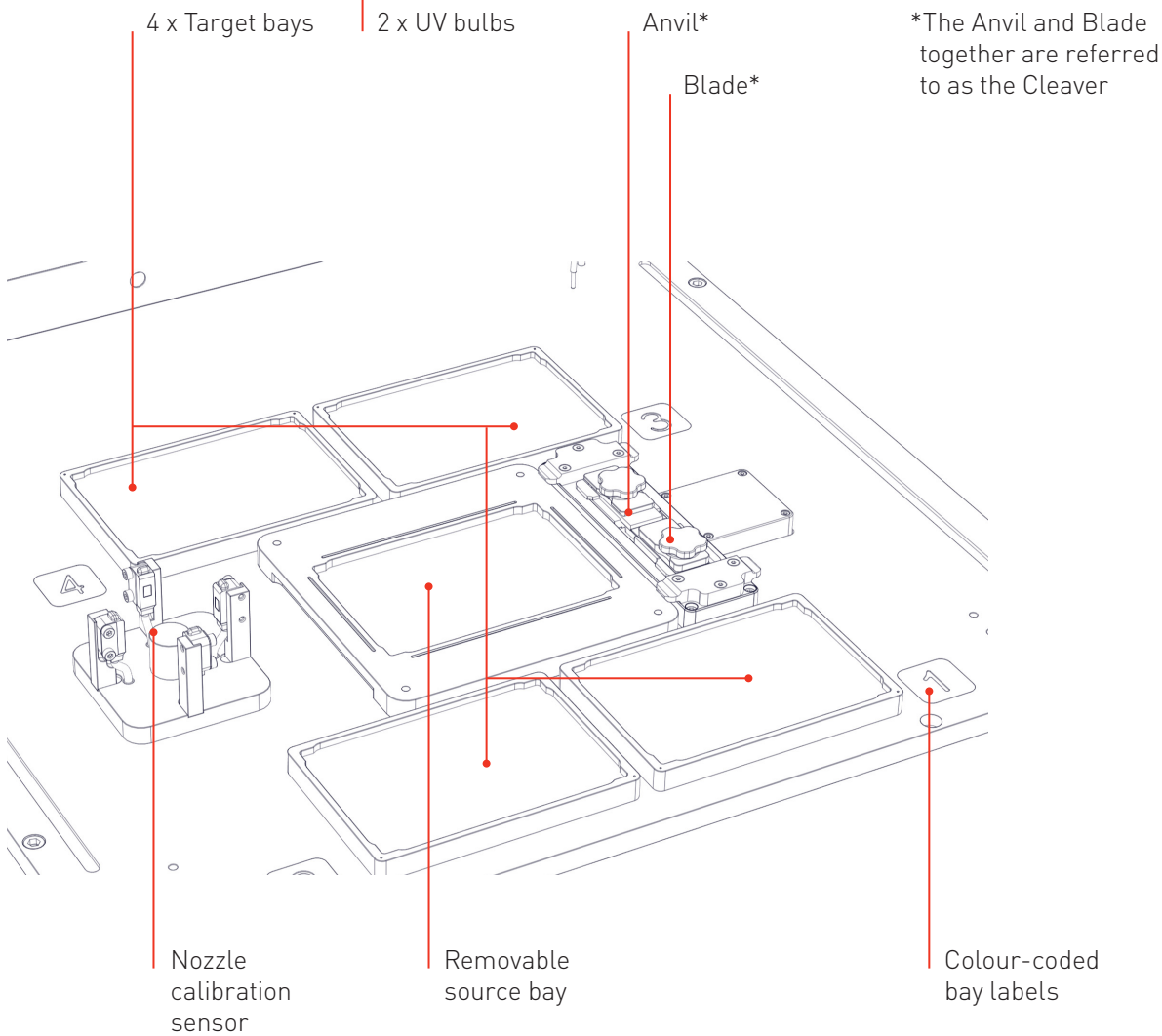


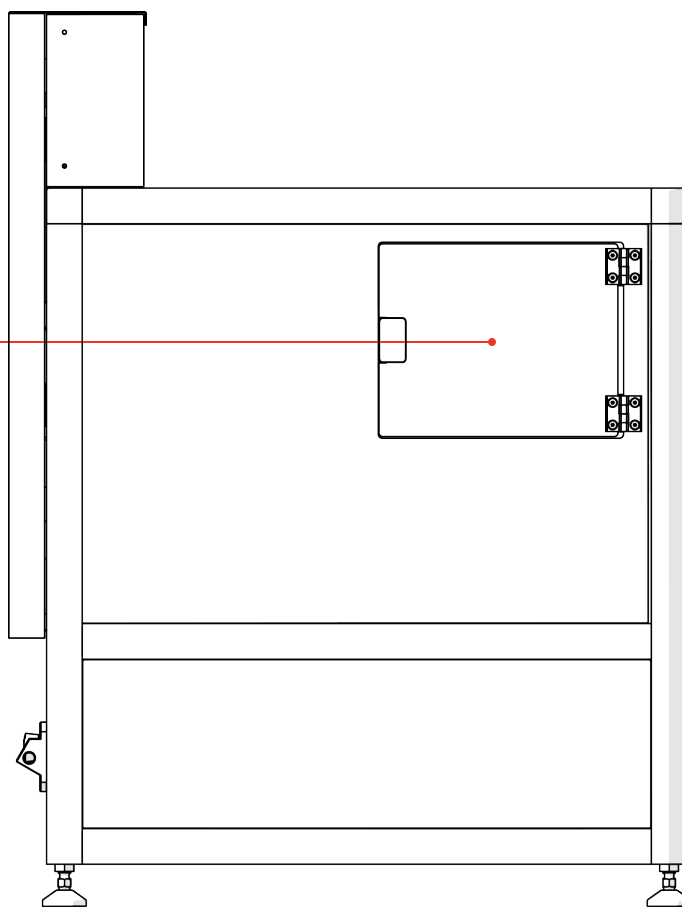
PLATE BAYS



ANATOMY & FEATURES

RIGHT

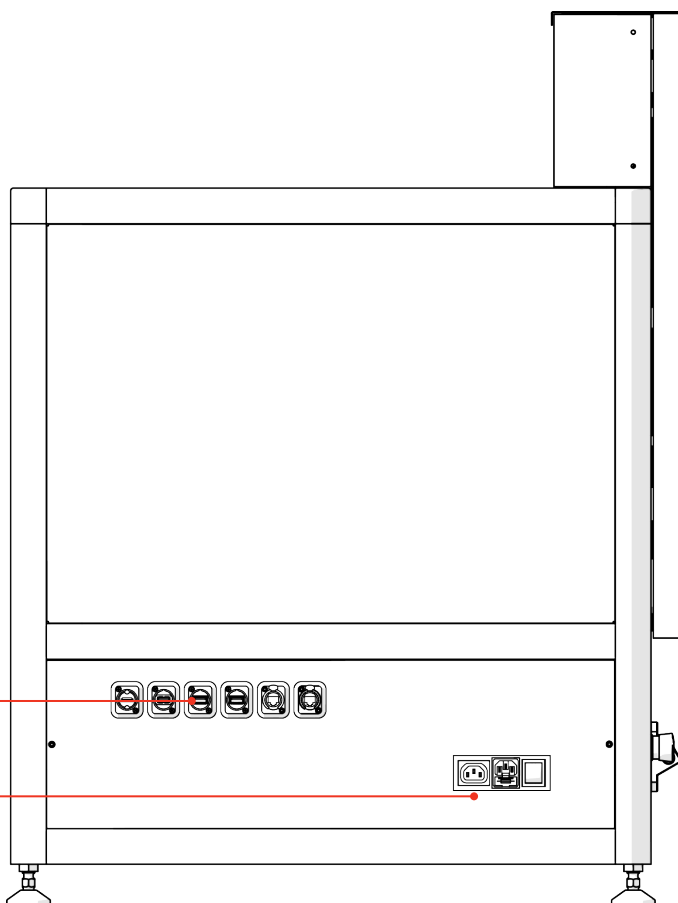
PickupLine™
compartment



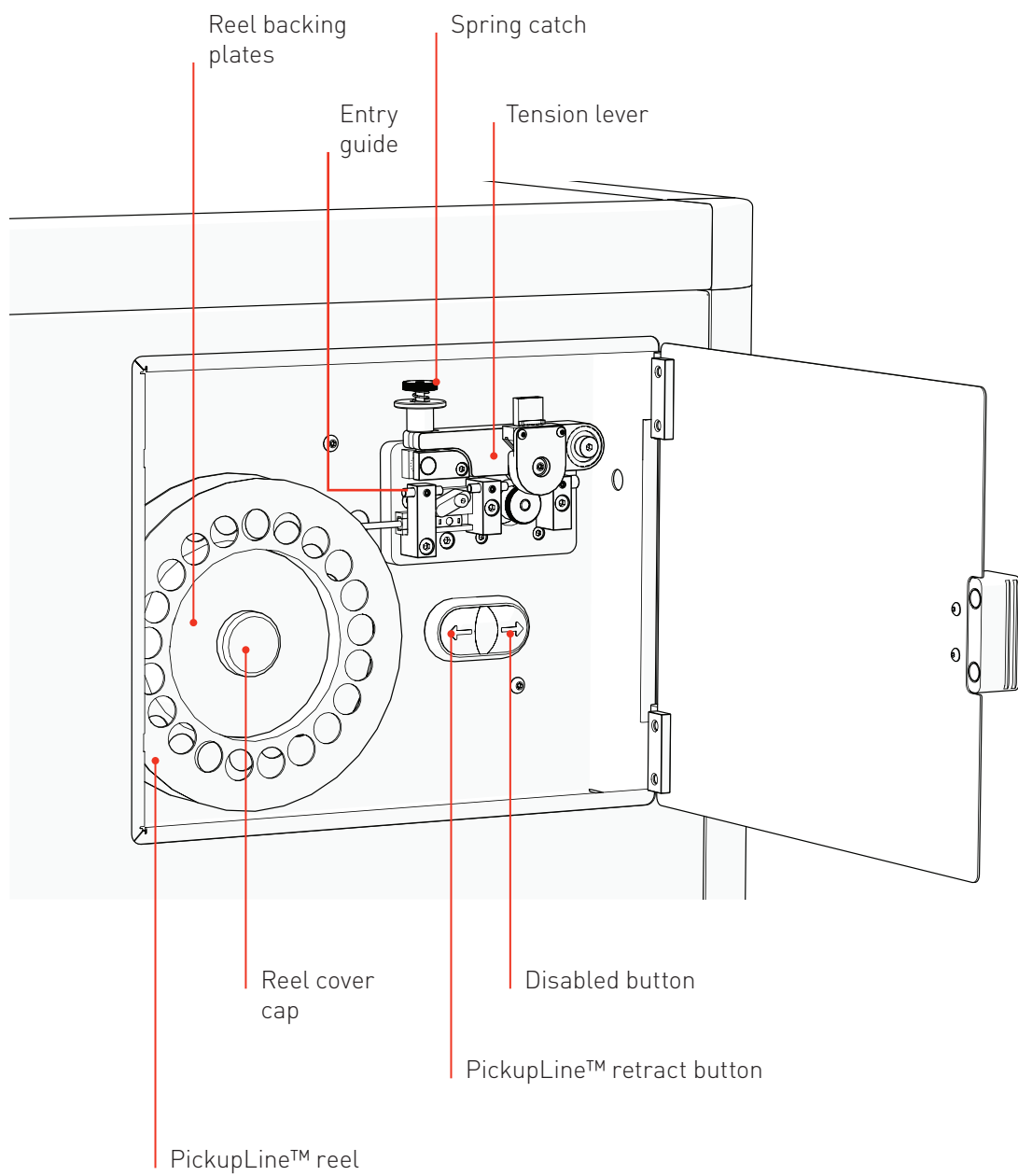
LEFT

Connections:
1 x HDMI
1 x USB 3.0
2 x USB 2.0
2 x RJ45

Power switch

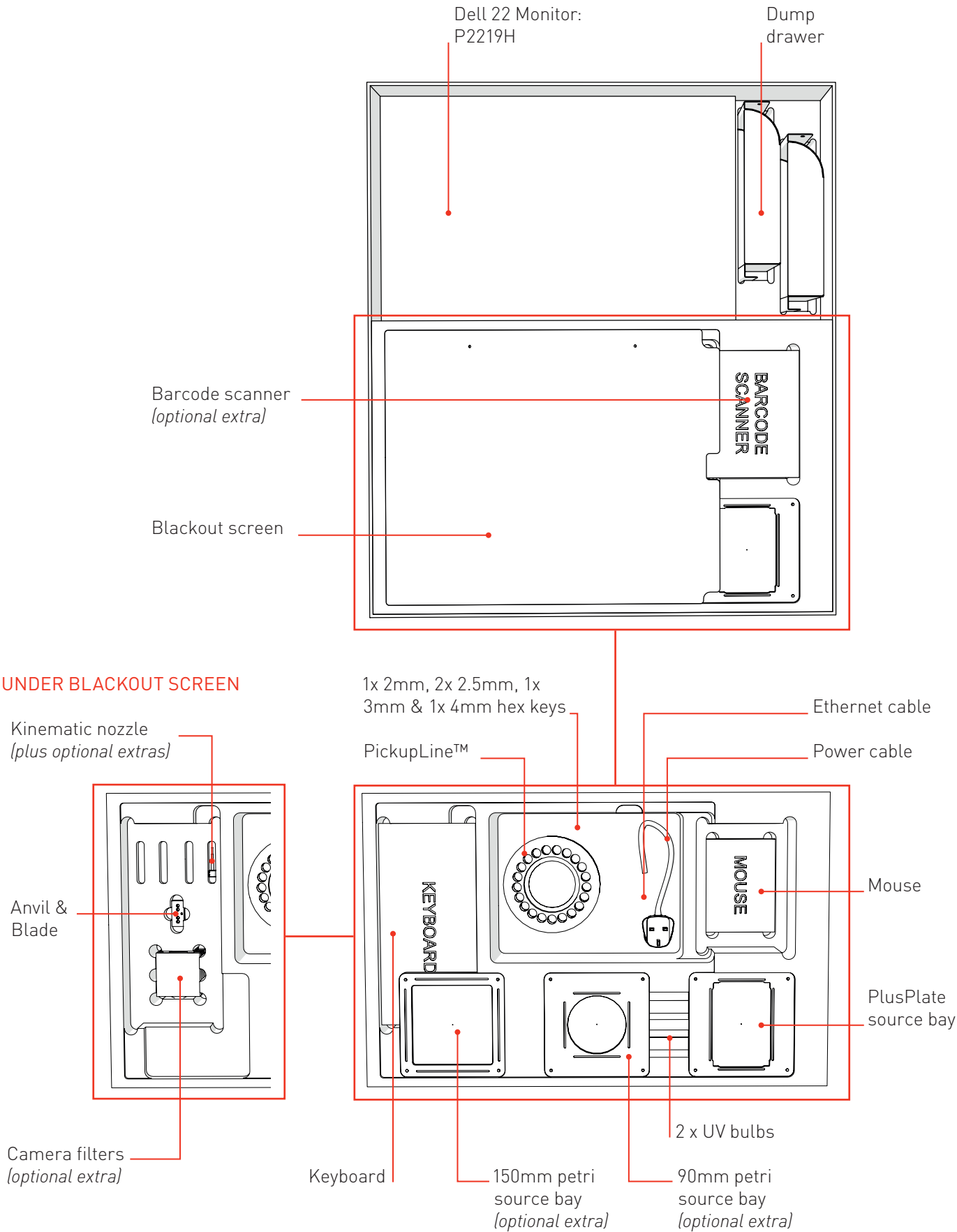


PICKUPLINE™ COMPARTMENT

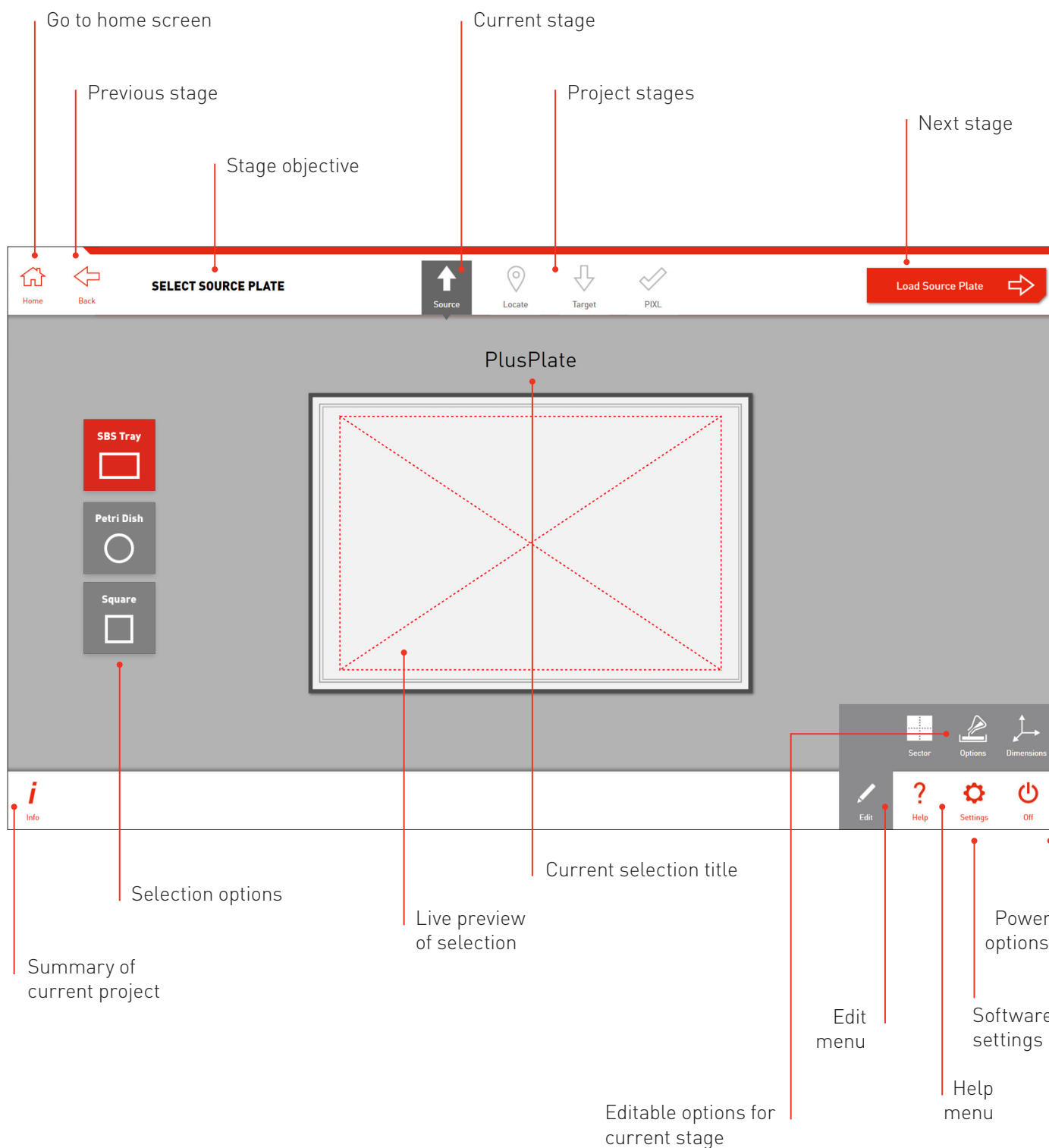


ANATOMY & FEATURES

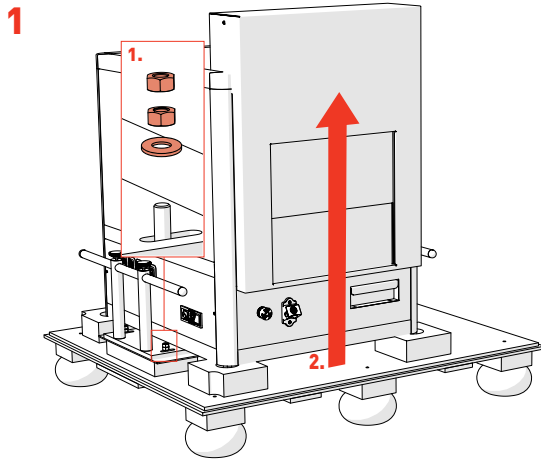
ACCESSORIES



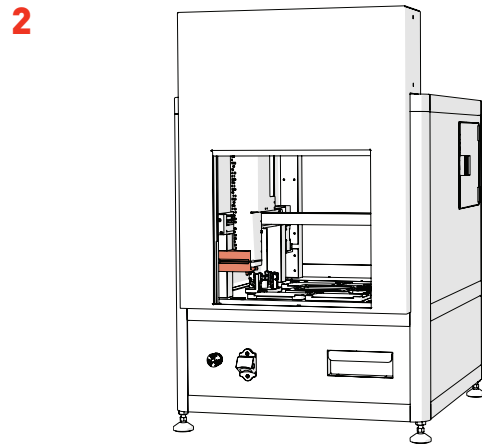
SOFTWARE



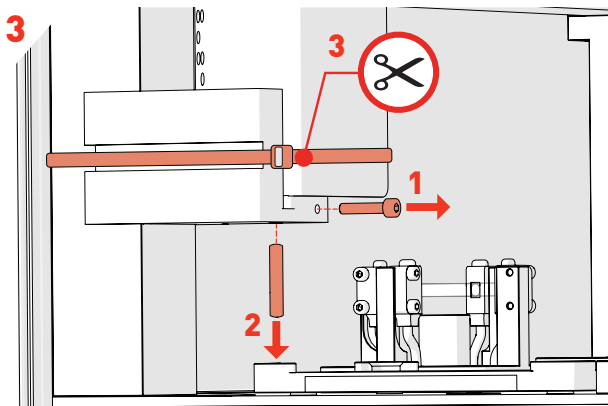
UNBOXING & ASSEMBLY



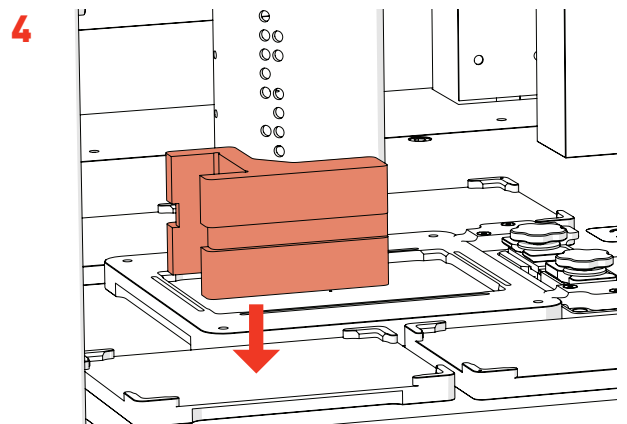
- Remove *Packing Crate Side Panels* and locking nuts (1).
- Carefully lift the PIXL and Place on a sturdy desk (2).
- **HEAVY: Minimum of 4 people recommended**



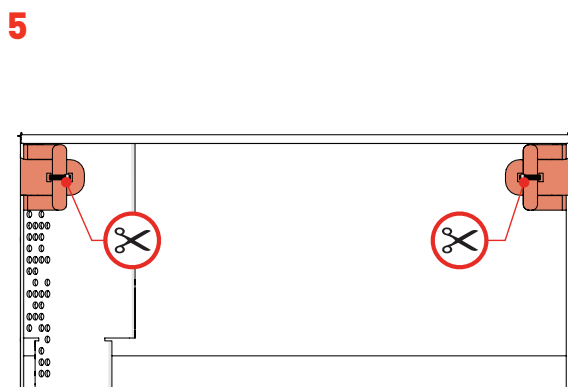
- To remove the *Red Transit Bracket* follow steps 3 and 4 below.



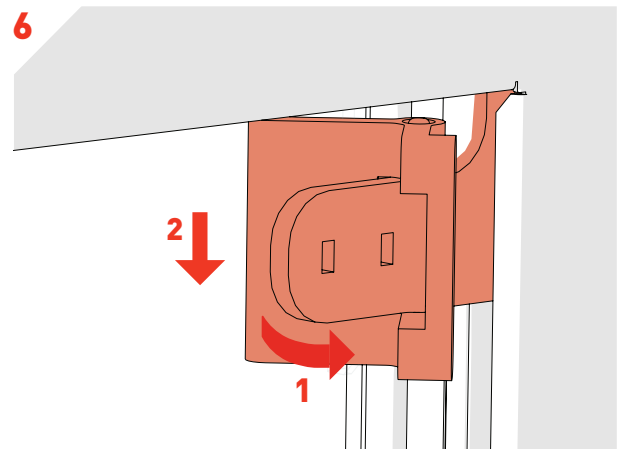
- Use *3mm Hex Key* to undo *Side Screw* (1), then remove *Securing Rod* (2). Cut the cable tie securing the floating head transit bracket with a pair of scissors (3).



- Position the floating head in the middle of the machine and remove the transit bracket.

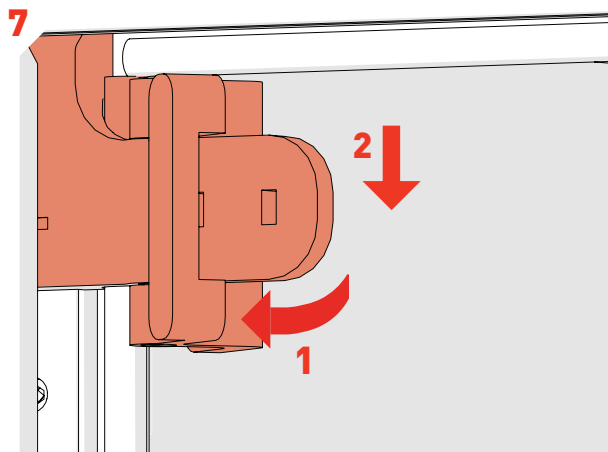


- Cut the two cable ties securing the door transit brackets with a pair of scissors.

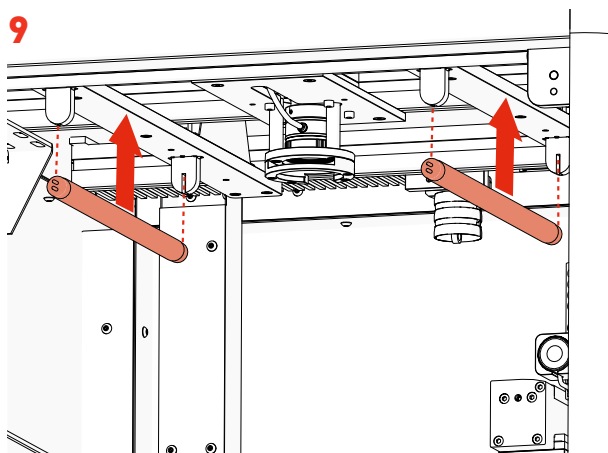


- Starting with the *Right Hand Transit Bracket*, open the clasp (1) and pull away from the door mechanism (2).

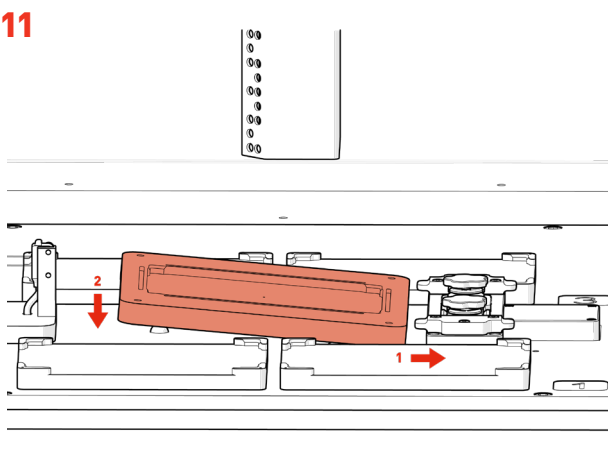
UNBOXING & ASSEMBLY



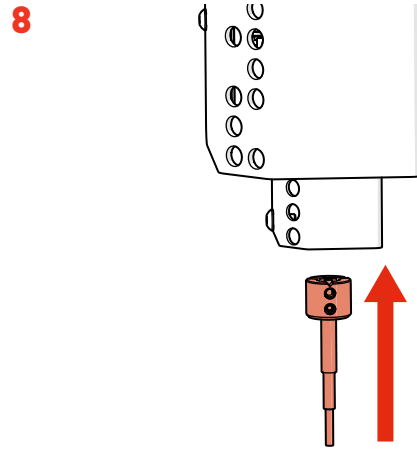
- Repeat Step 6 with the *Left Hand Transit Bracket*, open the clasp (1) and pull away from the door mechanism (2).



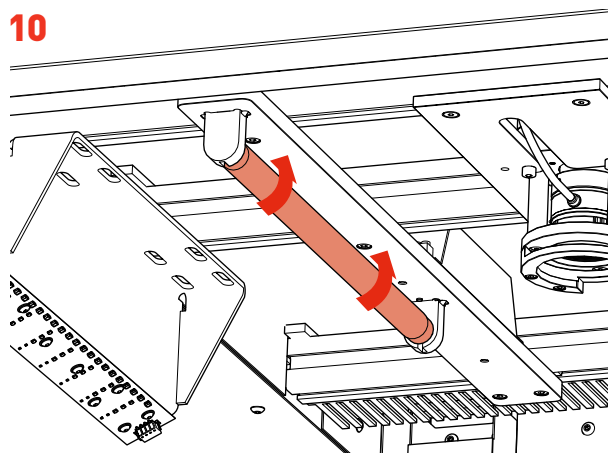
- Remove the 2 *UV Bulbs* from their protective box and slide between the *UV Sockets* attached to the roof of the main cabinet.
- NOTE: Wear gloves.



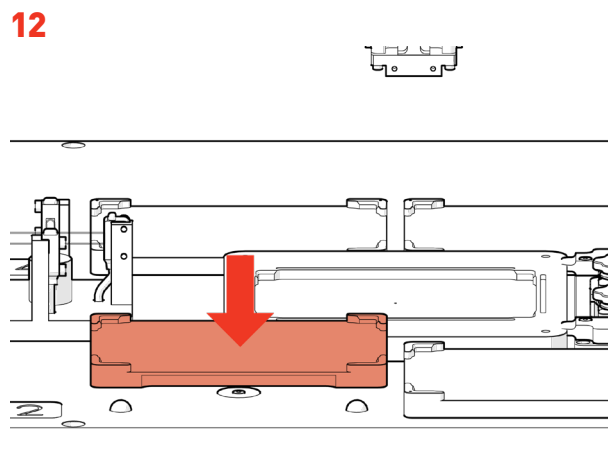
- Install the *Source Bay* by sliding the right side under the *Cleaver Tabs*, then lowering the left side onto the magnetic base.



- Attach the *Kinematic Nozzle* onto the securing magnetic ring.
- Ensure the screws are at the front of the nozzle.

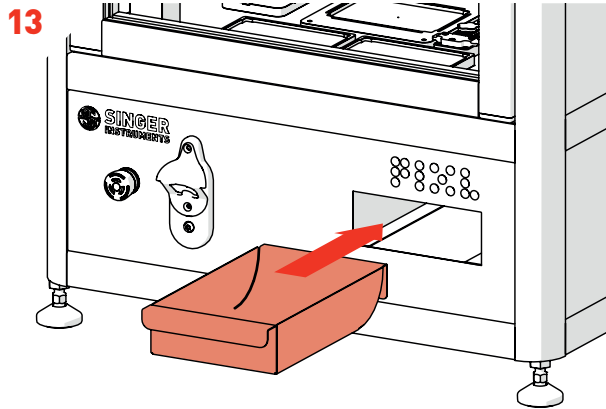


- To lock into place, turn each *UV Bulb* 90 degrees in any direction until you hear a click.

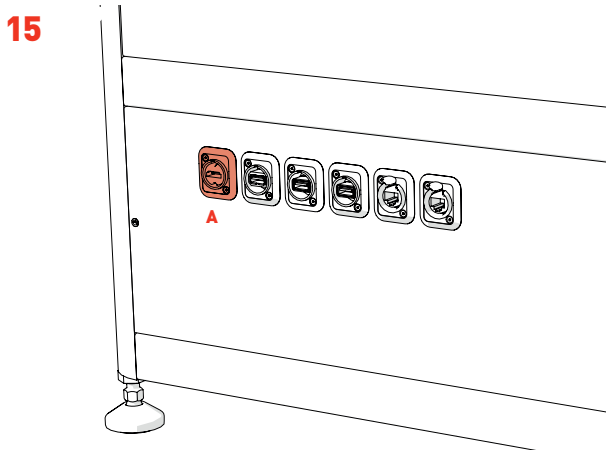


- If you have a Maldi compatible PIXL, install the removeable target bay in the Bay 2 position.

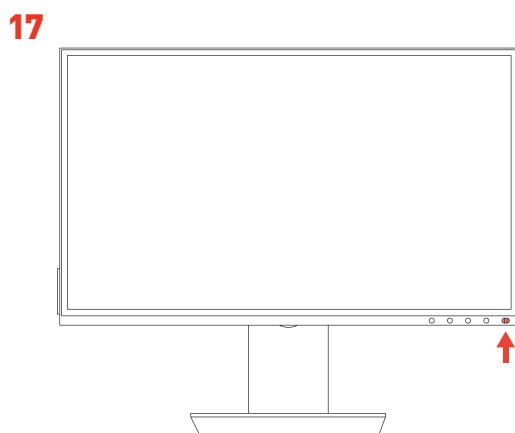
UNBOXING & ASSEMBLY



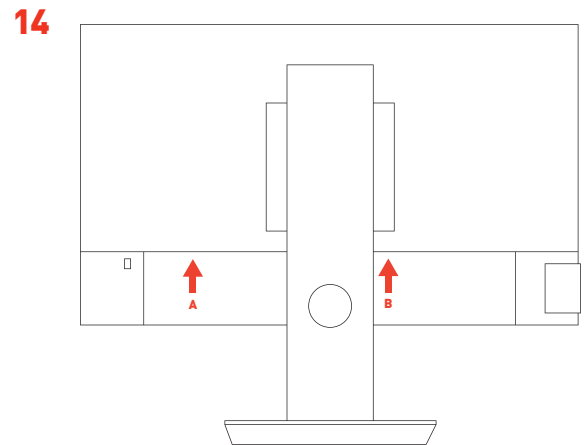
- Ensure the *Dump Drawer* is installed.



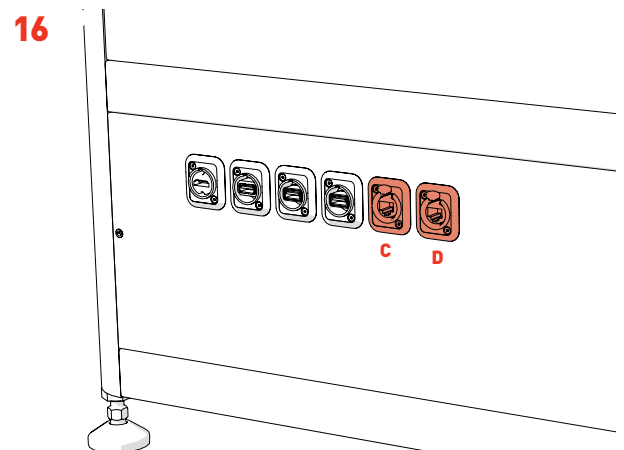
- Connect the Screen to the PIXL: *HDMI (A)*.
- If using the *Bluetooth* mouse/keyboard, place the *Bluetooth* dongle into an available *USB* slot.



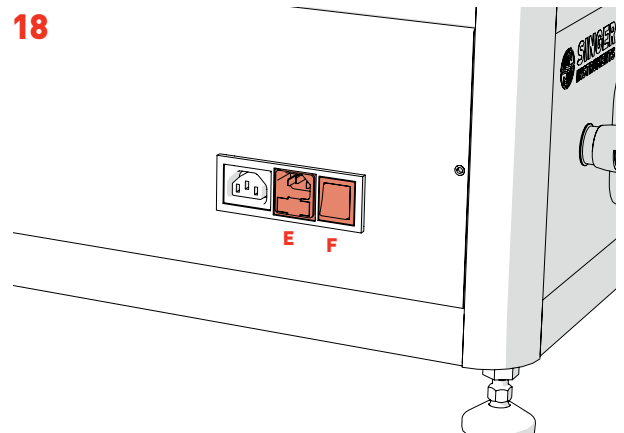
- Turn on the *Screen Power Switch*.



- Set up the *Screen Stand* according to the manufacturer's instructions.
- Plug in the provided *Screen* cables: *Power (A)* and *HDMI (B)*.

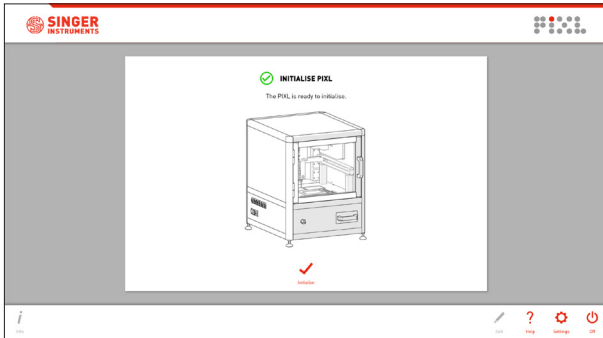


- For remote access and software upgrades, connect an *Ethernet Cable* to the right *RJ45 Socket (D)*.
- For internal network access, connect an *Ethernet Cable* to the left *RJ45 Socket (C)*.



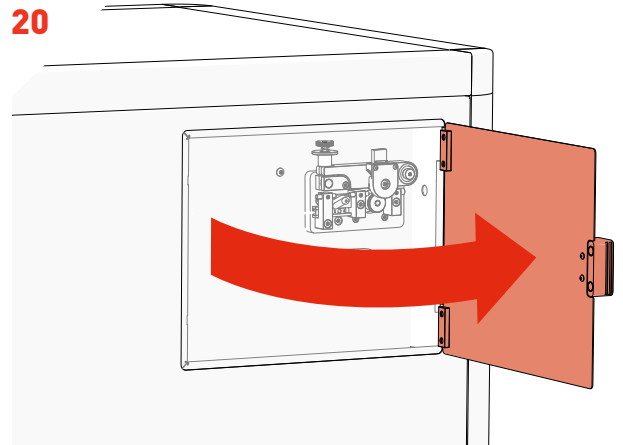
- Plug in the *PIXL Power Cable (E)* and press the *Power Switch (F)*.
- The *Screen* will also turn on.

19



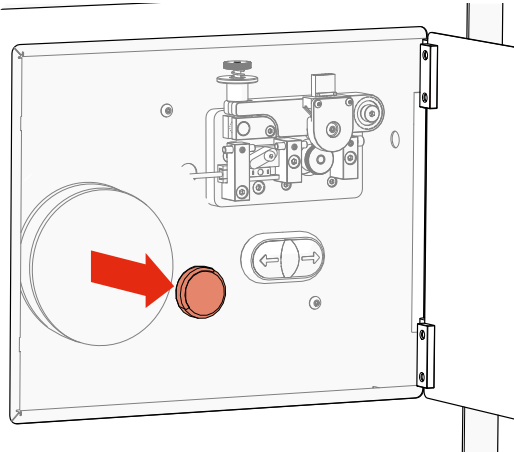
- After initialising follow on-screen instructions for PickupLine™ installation.

20



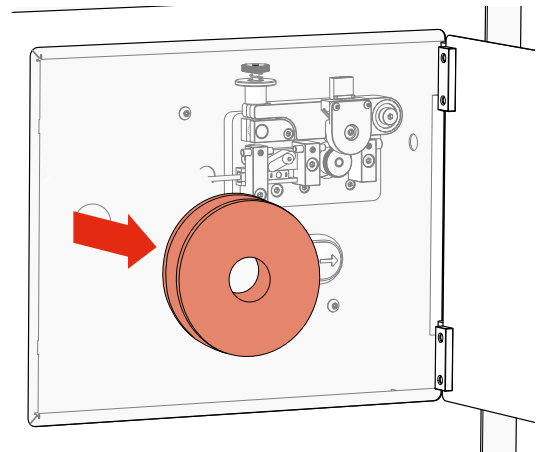
- Open the *PickupLine™* Compartment.

21



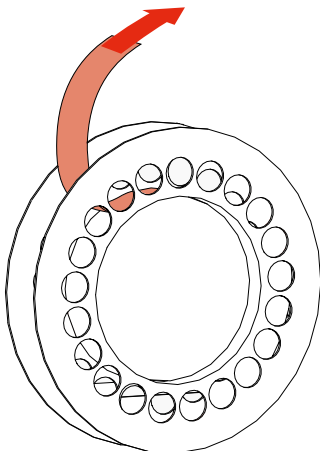
- Remove the *Reel Cap Cover*.

22



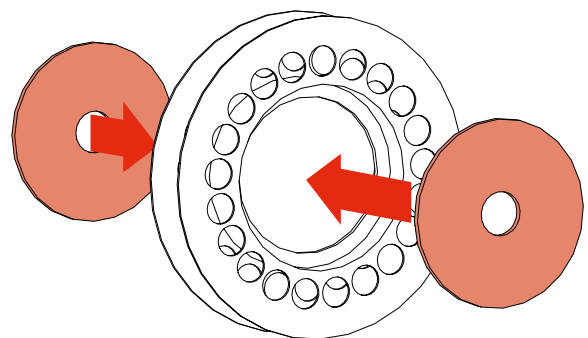
- Remove the *Reel Backing Plates*.

23



- Remove the new *PickupLine™* Reel from it's sterile packet and dispose of the *Securing Tape/Velcro*.

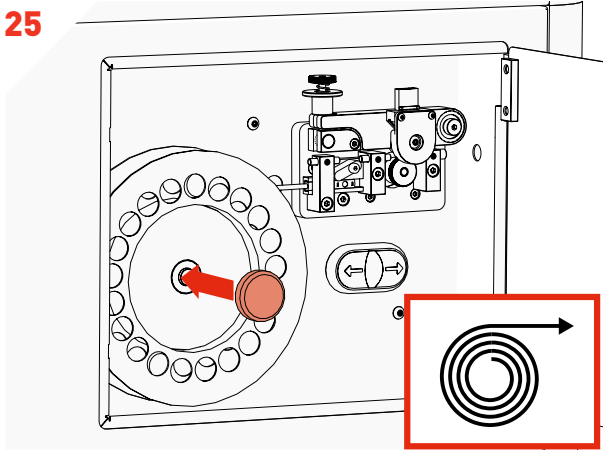
24



- Fit the *Reel Backing Plates* into new the *PickupLine™* Reel.

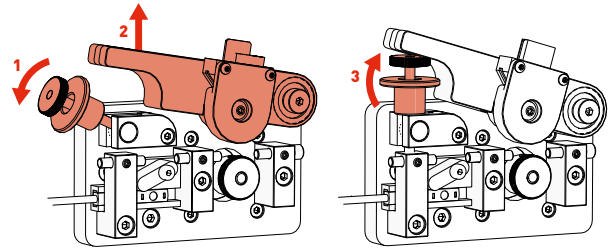
UNBOXING & ASSEMBLY

25



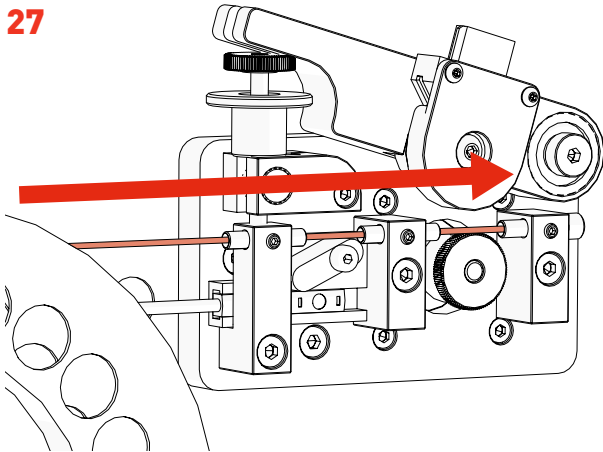
- Fit the new *PickupLine™* Reel ensuring it feeds in a clockwise direction.
- Replace the *Reel Cap Cover*.

26



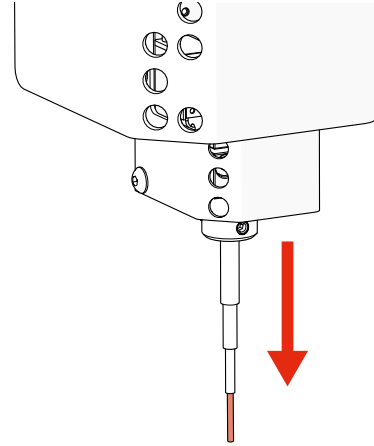
- Carefully lift the *Tension Lever* and rest it on the *Spring Catch* as shown.

27



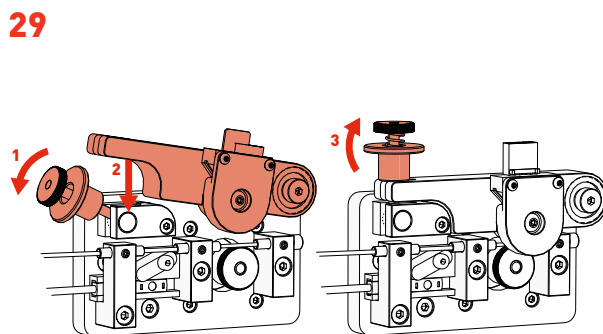
- Gently feed the *PickupLine™* by hand through the 3 *Entry Guides*. The *PickupLine™* is sterilised at the nozzle but for extra sterility gloves should be worn.
- If you meet resistance, pull back slightly and re-feed.

28



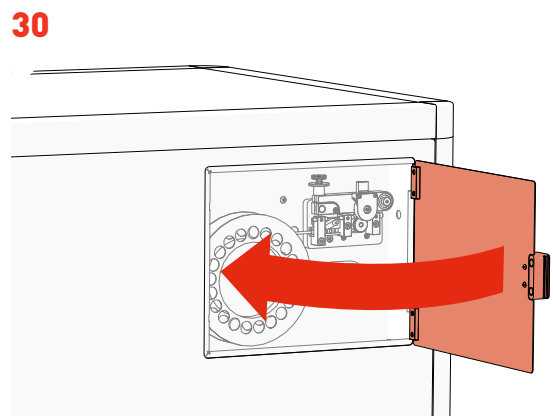
- Feed the *PickupLine™* until it protrudes 10mm from the *Kinematic Nozzle*.

29



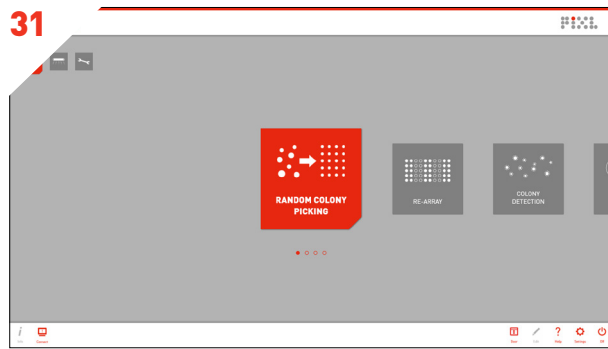
- Reset the *Tension Lever*.

30



- Close the *PickupLine™* Compartment.

UNBOXING & ASSEMBLY



- Boom! You're ready to PIXL!

TROUBLESHOOTING

PROBLEM

Plate guides could not be detected

The PickupLine™ hits the top plate as the picking arm moves between positions

The PIXL is missing colonies.

Blades wear down quickly.

SOLUTION

Ensure that a source plate holder is installed into the PIXL.

Ensure that the plate dimensions in the software match that of the plate being used. If the plate type is unsupported please contact technicalsupport@singerinstruments.com and we'll make a new dimensions file for the plate.

Ensure that the nozzle has been calibrated by running the 'Calibrate Nozzle' routine in the software. Ensure that the 'Detect automatically' option is selected for 'Agar Depth'.

Please correctly follow instructions for changing the blade in the PIXL software.



For more support resources visit
bit.ly/PIXLhelp

[illegible]



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**SCAN TO VISIT WEBSITE FOR MORE
HELPFUL TIPS AND TUTORIALS!**



DISCLAIMER

At Singer Instruments, we are constantly seeking to improve our products and adapt them to the requirements of modern research techniques and testing methods. This involves modification to the mechanical structure and optical design of our instruments. Therefore, all descriptions and illustrations in this user guide, including all specifications are subject to change without notice.