

# Small Cell Semi- Automatic Unload Station

Free-Standing  
Accessory Module  
for Bitrode's  
Model SCF  
Formation & Grading  
System



## Specifications

### Incoming Power

See the module's serial number tag for these specifications.

### Dimensions (W x D x H)

23" (58.5cm) x 22.5" (57cm) x 22" (56cm)

Weight 190 lb

Recommended Operating Pressure 70 psi

Pressurized Air Input Min/Max 0/150 psi

Air Cylinder Max Pressure 250 psi

Recommended Operating Temp. <100°F

Temperature Min/Max 32/140°F

Number of Battery Grades 36

Battery Size AAA - D

Number of Batteries Per Tray  
D size tray 64  
All other trays 128

### NOTE: NOVRAM Spec.:

Temp. Range -40°F TO 160°F

Battery Grades 0- 9 &/or A -Z

The Semi-Automatic Unload Station is an independent module of the Bitrode's Small Cell Formation (SCF) System. The unload station visibly sorts the batteries in a tray, one grade at a time. This is done by using solenoids to raise the batteries up ½". Once a grade of batteries is raised, then those batteries can be removed and separated accurately and quickly. This system is designed to eliminate the human error of looking at a tray grade printout to sort graded batteries in a tray. The unload station operates using a foot switch, allowing the operator to use both hands while unloading the battery tray.

During the formation/grading process, the grade of each individual battery is loaded onto the NOVRAM touch memory chip. This chip is mounted on the back of the Bitrode Battery Trays. When a battery tray is loaded into the unload station, the unload station's microprocessor creates a grading map from the data it reads off of the NOVRAM.

By pressing the foot switch, an entire grade of batteries is raised ½" and the raised batteries' grade will also be indicated on the display located on the top of unload station. This visible indication of raising the batteries allows the operator to separate a grade of batteries accurately and quickly by simply removing all the raised batteries.

By pressing the foot switch again, the next grade of batteries will be raised and also indicated on the display. Now this next grade of batteries can be unloaded. With each pressing of the foot switch a different grade of batteries will be raised until all battery grades have been raised then "DONE" will be displayed.

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