

# UNITY SCIENTIFIC NIR PARTS CATALOG

## SpectraStar / InfraStar



SpectraStar RTW



SpectraStar Drawer

NIR Made Easy





On this page, we provide a comprehensive list of our product offerings that are provided with the Unity Scientific instrumentation. All of these parts can be used on all the Unity instrumentation with the correct inserts unless specifically noted in the description.

### **US-ISIH-0307    Black Ring Cup**

This cup is black metal with quartz glass installed. When this cup is filled, one may analyze dry, ground food or agriculture products in rotating or static mode.

Associated parts:

- US-ISIH-0305:    Replacement Quartz glass.**
- US-ISIH-0309:    Disposable backs (Ring Cups).**
- US-ISIH-0320:    Loading tray for ring cups.**



*To Scan Samples on the Unity Scientific drawer system you need to use the following insert.*  
Adapter to run round rings in the Unity Scientific drawer systems



*To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.*

### **US-RTIR-0014    Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems

This adapter ring is used when you want to run dry ground samples



## **US-ISIH-0311 Sealable Black Ring Cup**

This cup is black metal with quartz glass installed. This cup comes threaded with a gasket and it includes a metal silver back. This cup was designed with idea of sealing food or agriculture standards to measure the repeatability of instrumentation on seal samples. When the sample cup is filled, one may analyze dry, ground food or agriculture products in rotating or static mode.

Associated parts:

**US-ISIH-0305: Quartz glass replacement.**

**US-ISIH-0320: Loading tray for ring cups.**

**Glue**



*To Scan Samples on the Unity Scientific drawer system you need to use the following insert.*  
Adapter to run round rings in the Unity Scientific drawer systems



*To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.*

## **US-RTIR-0014 Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems

This adapter ring is used when you want to run dry ground samples



### **US-ISIH-P311 Camlock Powder Complete**

This cup is black metal with quartz glass installed. The cup comes with a locking metal back and a permanent foam insert. When the sample cup is filled, one may analyze dry, ground food or agriculture products in rotating or static mode.

Associated parts:

**US-ISIH-0305: Quartz glass, replacement.**

**US-ISIH-0320: Loading tray.**



*To Scan Samples on the Unity Scientific drawer system you need to use the following insert.*  
Adapter to run round rings in the Unity Scientific drawer systems



*To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.*

### **US-RTIR-0014 Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems

This adapter ring is used when you want to run dry ground samples



### **US-ISIH-S311 Camlock Thick Slurry Powder Cup**

This cup is black metal with quartz glass installed. The cup comes with a locking metal back. When the sample cup is filled, one may analyze thick liquid products in rotating or static mode.

Associated parts:

**US-ISIH-0305: Quartz glass, replacement.**

**US-ISIH-0320: Loading tray.**



*To Scan Samples on the Unity Scientific drawer system you need to use the following insert.*  
Adapter to run round rings in the Unity Scientific drawer systems



*To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.*

### **US-RTIR-0014 Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems  
This adapter ring is used when you want to run dry ground samples



### **US-MPCP-0001 Powder Cup, Metal**

This cup is black metal with quartz glass installed. When this cup is filled, one may analyze dry, ground food or agriculture products in rotating or static mode.

Associated parts:

**US-MPRK-0001: repair kit (metal powder cup)**



*To Scan Samples on the Unity Scientific drawer system you need to use the following insert.  
No insert needed with a drawer system with a powder cup adapter.*

*To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.*

### **US-RTIR-0014 Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems  
This adapter ring is used when you want to run dry ground samples



### **US-RTCP-0003      Five Inch Large Round Cup with Plunger**

When the sample cup is filled, one can analyze un-dried and unground agriculture and food products. This part is only available for the Rotating top window systems.

Associated parts:  
Please contact Unity Scientific service for replacement parts

**No insert needed, this cup fits into Rotating top window without an insert.**



### **US-RTCP-0002      Medium Spout Cup with Plunger**

When the sample cup is filled, one can analyze grain, course ground material and pelleted products and easily pour the sample back into a container. This part is only available for the Rotating top window systems.

Please contact Unity service for replacement parts



### **US- RTIR –0012      Rotating top window medium insert for the spout cup adapter ring**

For use with the Unity Scientific rotating top window systems (RTW).



### **US-LGOP-0001      Medium Open Cup with Plunger**

When the sample cup is filled, one can analyze grain, course ground material and pelleted products.

Only available for the Rotating top window systems.

Associated parts:

Please contact Unity Scientific service for replacement parts



### **US- RTIR -0016      Adapter Ring, Rotating Top Window Medium Cup**

For use with the Unity Scientific rotating top window (RTW) systems. This adapter ring is used when you want to run medium pelleted particles.





### **US-OLCP-0001      Open Spinning Cup**

For use analyzing olives paste and other thick viscose material. This sample cup is only available on the drawer systems.

Associated parts:  
None

No insert needed, the cup fits into the rotating drawer system.



### **US-SLCP-0001      Spinning Cup Large, Plastic**

This cup was designed for small grains (e.g. unground wheat), pellets, and coarsely-ground materials. While it can be used on top window system it's intended design was for use on rotating drawer systems. This cup only is adapted to rotating drawer system.

Associated parts:  
Please contact Unity Scientific service for replacement parts

No insert needed, this cup fits into the rotating drawer system.



### **US-SLCP- M001      Large Spinning Cup, Metal**

This cup was designed for small grains (e.g. unground wheat), pellets, and coarsely-ground materials.

This cup is for the drawer system only.  
Large Spinning Cup, B+L, Metal

Associated parts:  
Please contact Unity Scientific service for replacement parts

No insert needed, this cup fits into the rotating drawer system.



## **US-SRCP-0025      Small Round Cup, 25mm height**

This cup is for liquid analysis. It is designed to be used in conjunction with transfectance inserts. It is shown here turned upside down compared to orientation when used. This part is only available for the rotating top window systems.

Associated parts:

<b>US-TSTD-0001</b>	<b>Gold Reflector Stand, 0.1mm</b>
<b>US-TSTD-0002</b>	<b>Gold Reflector Stand, 0.2MM</b>
<b>US-TSTD-0003</b>	<b>Gold Reflector Stand, 0.3MM</b>
<b>US-TSTD-0005</b>	<b>Gold Reflector Stand, 0.5MM</b>
<b>US-TSTD-0010</b>	<b>Gold Reflector Stand, 1.0MM</b>
<b>USU-TSTD-0020</b>	<b>Gold Reflector Stand, 2.0 MM</b>



To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.

## **US-RTIR-0014      Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems.

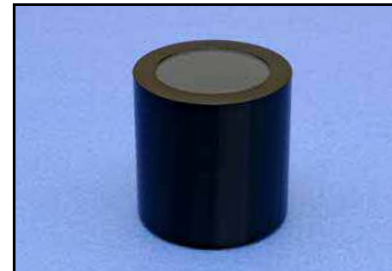


### **US-SRCP-0050      Small Round Cup with Cover, 50mm Height**

This cup is designed for liquid analysis with very opaque / highly scattering liquids. This part is only available for the rotating top window systems.

Associated parts:

Please contact Unity Scientific service for replacement parts



To Scan Samples on the Unity Scientific Rotating top window systems you need to use the following insert.

### **US-RTIR-0014      Adapter Ring**

Rotating top window small cup adapter ring for the Unity Scientific rotating top window systems.





## Unity Parts List ACCESSORIES

### **US-ISIH-0318 Removal Tool for Disposable Backs**

This tool is specifically designed to provide the user a tool that minimizes damage of the disposable back while removing it.

Associated parts:

**US-ISIH-0309 : Disposable backs.**

**US-ISIH-0307: Black ring cup.**



### **US-ISIH-0320 Tray for Aiding the Removal and Filling of Standard Black Ring Cup**

The cup is placed on the pedestal and then cups and be dumped and filled with the aid of a tray that keeps the product in one place. This tray also helps protect the glass.

Associated parts:

**US-ISIH-0309: Disposable backs.**

**US-ISIH-0307: Black ring cup.**



### **US-ISIH-0319 Round Sample Cup Rack**

This rack is used to store the round sample cup (US-ISIH-0307) in vertical towers. The rack will hold 36 round sample cups.

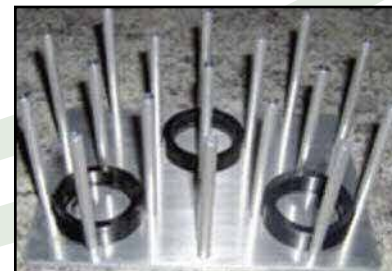
Associated parts:

**US-ISIH-0307: Black ring cup.**

**US-ISIH-S311: Camlock thick Slurry black ring cup**

**US-ISIH-P311: Camlock powder black ring cup**

**US-ISIH-0311: Sealable black ring cup.**

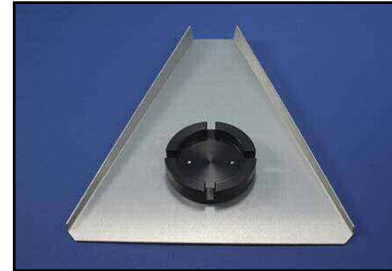


## **US-SCLT-0001      Tray for Aiding the Removal and Filling of the Unity Powder Cup**

The cup is placed upside down on the pedestal and then the back is manually twisted and the cup opens. With the aid of this tray it keeps the product contained on the tray and minimizes damage to the glass.

Associated parts:

**Unity powder cup: MPCP-0001**



## **US-SLCT-0001      Tray for Aiding the Removal and Filling of Large Unity Powder Cup**

The cup is placed upside down on the pedestal then the back is manually twisted and the cup opens. With the aid of this tray it keeps the product contained on the tray and minimizes damage to the glass.

Associated parts:

**US-SLCP-0001 : Unity Scientific large rotating cup, plastic**

**US-SLCP- M001 : Unity Scientific large rotating cup, metal**





## Unity Parts List ACCESSORIES - Ring Adapters

### **US-RTIR-0014 Rotating Top Window Small Cup Adapter Ring**

For use with the Unity Scientific rotating top window systems.  
This adapter is used with the following associated parts:

Associated parts:

- US-ISIH-0307**      **Black ring cup.**
- US-ISIH-S311:**      **Camlock thick Slurry black ring cup**
- US-ISIH-P311:**      **Camlock powder black ring cup**
- US-ISIH-0311:**      **Sealable black ring cup.**
- US-ISIH-0311:**      **Sealable black ring cup.**
- US-MPCP-0001**      **Unity powder cup**



### **US- RTIR -0016 Rotating Top Window Medium Cup Adapter Ring**

For use with the Unity Scientific rotating top window systems.

Associated parts:

- US-LGOP-0001:**      **Unity medium open cup with removable back and permanent handle. .**



**Adapter to run round rings in the Unity Scientific drawer systems with a power cup adapter. This adapter is used with the following associated parts,**

- US-ISIH-0307:**      **Black ring cup.**
- US-ISIH-S311:**      **Camlock thick Slurry black ring cup**
- US-ISIH-P311:**      **Camlock powder black ring cup**
- US-ISIH-0311:**      **Sealable black ring cup.**
- US-ISIH-0311:**      **Sealable black ring cup.**





## Unity Parts List ACCESSORIES - Ring Adapters

### **US-RTIR-0017 Rotating Top Window Standard Petri Dish Adapter and Lid**

For use with Petri dishes with an approximate  
OD of 86mm



### **US-RTIR-0018 Rotating Top Window 60mm Petri Dish Adapter**



### **US- RTIR -0012 Rotating Top Window Spout Cup Adapter Ring**

For use with the Unity Scientific rotating top window systems.





## Unity Parts List CONSUMABLE PRODUCTS

### **US-ISIH-0309 Disposable backs.**

This part is a pack of disposable, white, round core board disc. These core board discs are used to seal ground food or agriculture products in the Standard Dr. Shenk classic, black ring cup.

Associated parts:

**US-ISIH-0307: Black ring cup.**



### **US-1218-0002 SpectraStar/InfraStarLamp**

For Unity Scientific SpectraStar and InfraStar systems.



### **US-ISIH-0305 Quartz Glass**

The glass is installed in the black ring cup.

Associated parts:

**US-ISIH-0307: Black ring cup.**



### **US-MPRK-0001 Repair Kit**

This glass is installed in Unity, Powder cup. The metal wing is used to remove the metal ring that is holding the glass in place. The glass is then installed and the metal ring is replaced.

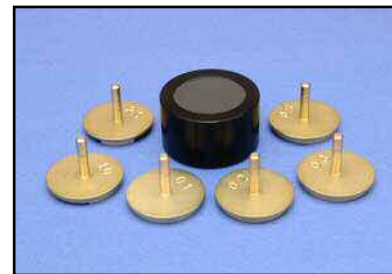




### Gold Reflectors

These inserts are used for transfectance measurement in the Unity Scientific small round cup, 25 MM Height (US-SRCP-0025). This part is only available for the rotating top window systems.

- US-TSTD-0001 Gold Reflector Stand, 0.1mm**
- US-TSTD-0002 Gold Reflector Stand, 0.2MM**
- US-TSTD-0003 Gold Reflector Stand, 0.3MM**
- US-TSTD-0005 Gold Reflector Stand, 0.5MM**
- US-TSTD-0010 Gold Reflector Stand, 1.0MM**
- US-TSTD-0020 Gold Reflector Stand, 2.0 MM**





## **NIR Made Easy**

**Unity Scientific**  
**117 Old State Road**  
**Brookfield, CT 06804**  
**USA**  
**Ph: 203-740-2999**  
**Fax: 203-740-2955**  
**[www.unityscientific.com](http://www.unityscientific.com)**  
**Email: [info@unityscientific.com](mailto:info@unityscientific.com)**

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