

## Multi Thief

### Multilevel Powder Sampler with variable Sample Volumes

The Multi Thief is ideal for taking multilevel samples from free flowing powders and granules.

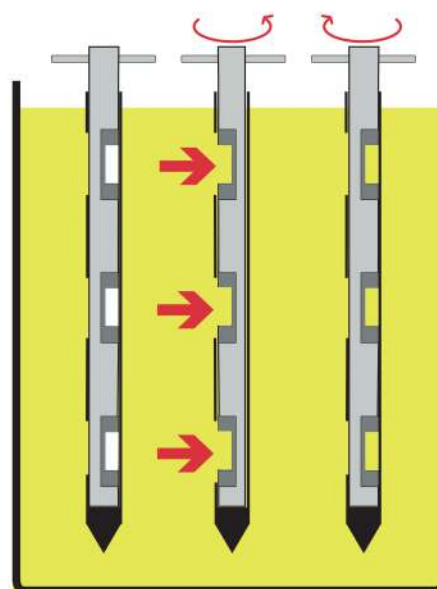
The sample volume can be quickly and easily changed by changing removable sample cells.

- 316L stainless steel construction
- Variable sample volumes 5ml to 60ml
- Range of sampler lengths
- Suitable for free flowing powders and granules



#### Operation:

1. Select the correct volume inserts and fit them into the inner rod.
2. Slide the assembled inner rod into the outer tube
3. Insert the sampler into the product, turn the handle to expose the sampling cells to the product.
4. Turn the handle so no sampling inserts are exposed then remove the sampler from the product.
5. Remove the inner rod from the outer sleeve, the individual Sampling Inserts can then be easily removed for analysis.



Part No.	Sampler Length	Diameter	No. of Inserts Required	Material of Construction
1290K-1000	1000mm	40mm	3	316L stainless steel
1290K-1500	1500mm	40mm	4	316L stainless steel
1290K-2000	2000mm	40mm	4	316L stainless steel

#### Sample Inserts

Inserts are available any volume from 5ml up to 60ml

1290W-XX Sample Insert where XX = sample volume in ml e.g. 1290W-25 = insert with 25ml sample volume

Additional Tips See page 56 (for rounded or very pointed tips)

Cleaning Brushes See page 184

Storage Cases See pages 186-187

XRF Certification See page 196

## Slot Sampler

Multilevel Sampler gives a Single Composite Sample



Slot Samplers are supplied with pointed tips. Rounded Tips are available as an option.

The Slot Sampler is ideal for taking a large volume, cross sectional sample from a container. The sampler has a robust all stainless steel construction and is suitable for sampling free flowing powders and granules.

- Cross section, composite sample
- Suitable for taking large volume samples

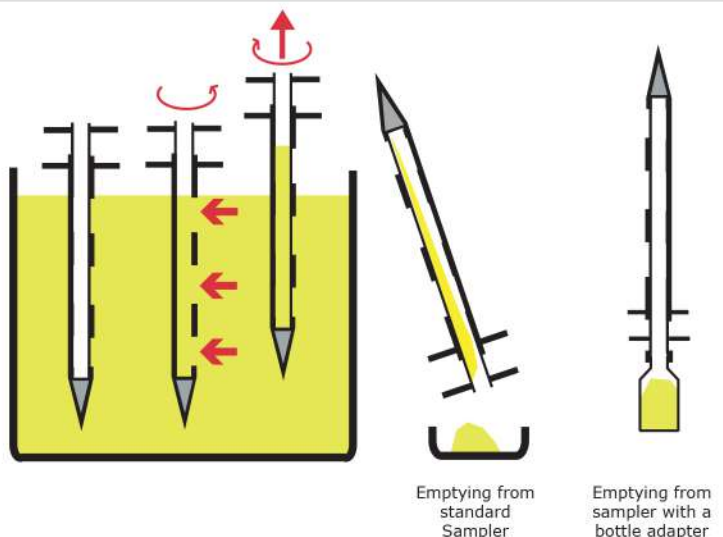


A Slot Sampler taking a sample from a drum



### Operation:

1. Insert the sampler into the product
2. Turn the handle to open the slot - the product can now be collected in the central tube
3. Turn the handle to close the slot
4. Remove the sampler
5. Invert the sampler to discharge the sample



## Multi Thief

### Multilevel Powder Sampler with variable Sample Volumes



The Slot Sampler is available with a bottle holder. This enables the sample to be emptied directly into a bottle.



Sample being discharged from a Standard Slot Sampler without a Bottle Holder

- Improved Containment
- Save time
- Can be used with either a 250ml or 500ml bottle



Part No.	Bottle Holder	Sampler Length	Outer Diameter	Material	Maximum Sample Volume	No of Slots
1210A-300	No	300mm	25mm	316L stainless steel	45ml	3
1210A-600	No	600mm	25mm	316L stainless steel	110ml	3
1210A-1000	No	1000mm	25mm	316L stainless steel	190ml	4
1210A-1500	No	1500mm	25mm	316L stainless steel	300ml	5
1210A-2000	No	2000mm	25mm	316L stainless steel	370ml	5
1210B-600	Yes*	600mm	25mm	316L stainless steel	110ml	3
1210B-1000	Yes*	1000mm	25mm	316L stainless steel	190ml	4
1210B-1500	Yes*	1500mm	25mm	316L stainless steel	300ml	5
1210K-1000	No	1000mm	40mm	316L stainless steel	750ml	3
1210K-1500	No	1500mm	40mm	316L stainless steel	1000ml	4
1210K-2000	No	2000mm	40mm	316L stainless steel	1300ml	4
1210J-900	No	900mm	50mm	Aluminium	880ml	3
1210J-1500	No	1500mm	50mm	Aluminium	1700ml	5
1210J-2500	No	2500mm	50mm	Aluminium	2900ml	7
8165A-250	Sample collecting bottle - 250ml. HDPE					
8165A-500	Sample collecting bottle - 500ml. HDPE					

Additional Tips	See page 56 (for rounded or very pointed tips)
Cleaning brushes	See page 184
Storage Cases	See pages 186-187
XRF	Material certification verified by XRF (See page 196)
* Don't forget to order a sample collecting bottle	



## Pocket Sampler

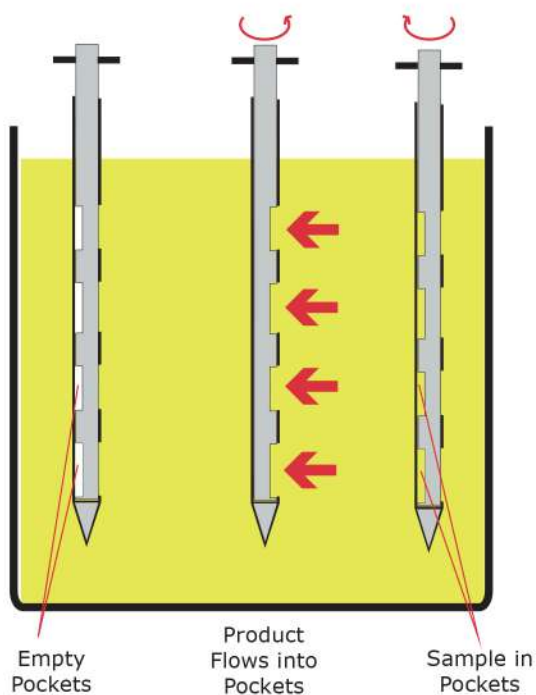
### Multilevel Sampler for taking discrete samples

The Pocket Sampler is used in thousands of pharmaceutical and industrial manufacturing facilities all over the world. The Pocket Sampler is ideal for taking discrete samples from free flowing powders and granules. The sampler is available in a range of sizes and designs.

Its robust stainless steel design means it will give years of service.

#### Operation:

1. Insert the sampler into the product
2. At the required depth rotate handle to expose the collecting pockets, the product will flow into the collecting pockets
3. Rotate handle to close pockets and remove sampler
4. See below for details on how to empty the sampler



#### Emptying Rack

- Enables the samples to be deposited directly into collecting bottles
- All stainless steel construction
- Supplied complete with stainless steel funnels



### Bayonet Handle

- Allows simple operation
- Quick disconnect system so sampler can be dismantled in seconds.
- Robust design

(Bayonet handle is available on the 1220A and 1220B models)

### Sealing Sleeves

- Enables one pocket to be emptied at a time
- Simply clip on to cover the pockets that you do not want to empty
- Easy to remove

### Tips

- Samplers are supplied with pointed tips as standard
- Rounded tips are available as an option



Part No.	Outer Tube	Inner Rod	Outer Diameter	Number of Pockets	Volume of each Pocket	Sampler Length
1220A-600	316L stainless	PTFE	25mm	3	15ml	600mm
1220A-900	316L stainless	PTFE	25mm	3	20ml	900mm
1220A-1500	316L stainless	PTFE	25mm	5	20ml	1500mm
1220B-300	316L stainless	316L stainless	25mm	3	10ml	300mm
1220B-600	316L stainless	316L stainless	25mm	3	15ml	600mm
1220B-900	316L stainless	316L stainless	25mm	3	20ml	900mm
1220B-1500	316L stainless	316L stainless	25mm	5	20ml	1500mm
1220J-900	316L stainless	316L stainless	40mm	3	90ml	900mm
1220J-1500	316L stainless	316L stainless	40mm	4	90ml	1500mm
1220J-2000	316L stainless	316L stainless	40mm	4	90ml	2000mm

Accessories	
8005A-01	Sealing Sleeve Set - Covers pockets - set of 3 sleeves (25mm diameter - suitable for 1220A and 1220B)
8005A-02	Sealing Sleeve Set - Covers pockets - set of 3 sleeves (40mm diameter - suitable for 1220J)
1220X-600	Emptying rack for 600mm sampler (25mm diameter - suitable for 1220A and 1220B)
1220X-900	Emptying rack for 900mm sampler (25mm diameter - suitable for 1220A and 1220B)
1220X-1500	Emptying rack for 1500mm sampler (25mm diameter - suitable for 1220A and 1220B)
1220Y-900	Emptying rack for 900mm sampler (40mm diameter - suitable for 1220J)
1220Y-1500	Emptying rack for 1500mm sampler (40mm diameter - suitable for 1220J)
1220Y-2000	Emptying rack for 2000mm sampler (40mm diameter - suitable for 1220J)
LUG-1	Earthing connection point. See page 166

Additional Tips	See page 56 (for rounded or very pointed tips)
Cleaning brushes	See page 184
Storage Cases	See pages 186-187
XRF	Material certification verified by XRF (See page 196)

## AccuPod® Minimise Sampling Error



The AccuPod® is the next generation in sampling technology. It combines a single use disposable Pod with a reusable stainless steel sample thief.

The AccuPod® is designed to minimise sampling error which can occur when a sample is transferred from one container to another. With the AccuPod® the sample remains in the pod until it is needed in the laboratory.

The AccuPod® is ideal for sampling free flowing powders and granules.

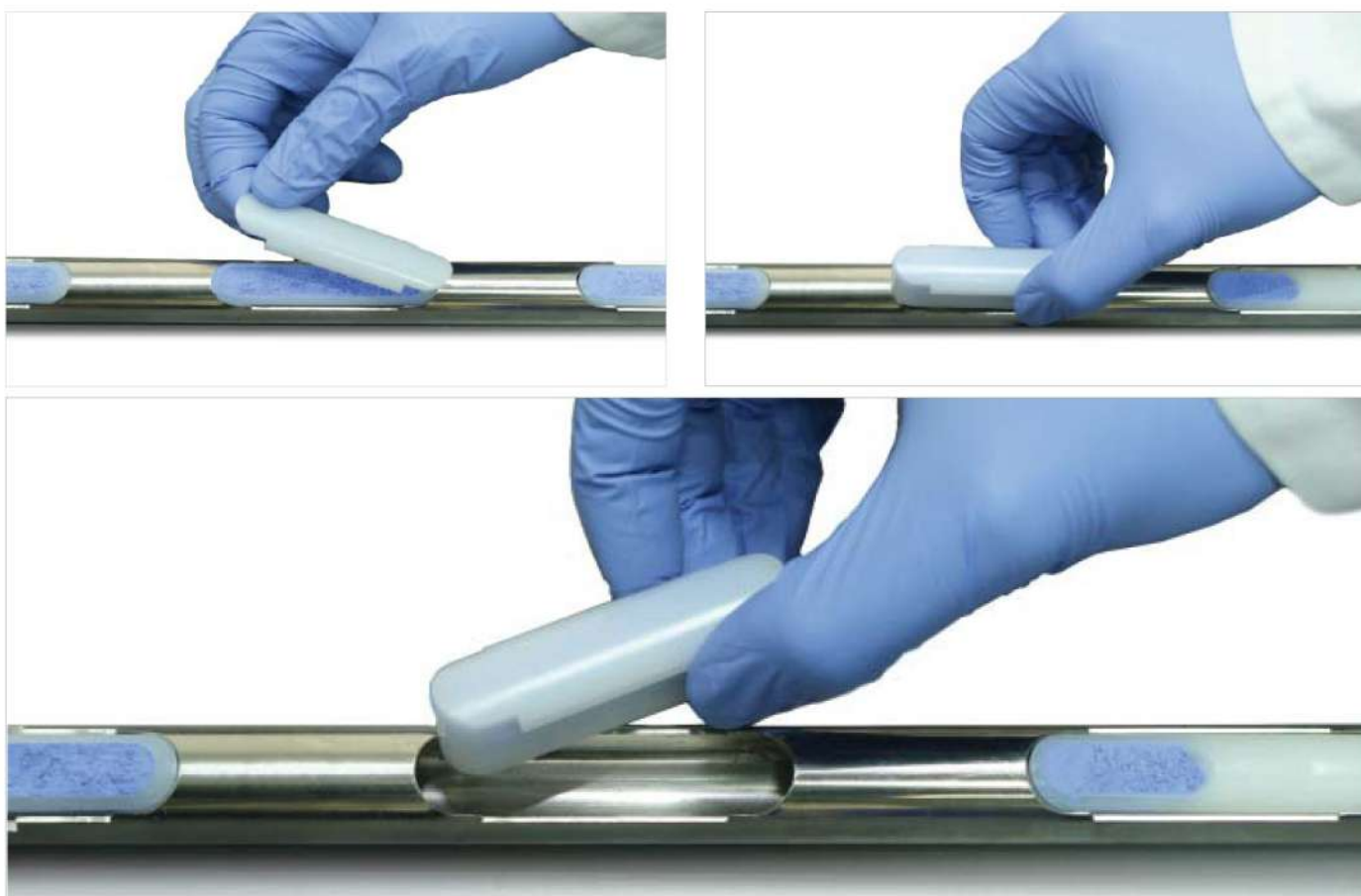


The AccuPod® is simple to use.

- Insert the Pods into the sample thief
- Take sample
- After sampling click the lids onto the Pods
- Take the Pods to the laboratory
- Slide off the lid to access the sample







## Pods

- Made from FDA, EU and EC compliant HDPE
- Initially available in 1ml and 5ml sizes. Other sizes to follow - please contact us for details
- Supplied with lid (lid supplied loose in the bag)
- Individually bagged
- Made in a Class 8 (class 100,000) cleanroom
- Available pre sterilised (gamma irradiation)



Part No.	Nominal Volume	Sterile	Material	Pack Size
8360T-10	1ml	No	HDPE	50
8360T-10S	1ml	Yes	HDPE	50
8360T-50	5ml	No	HDPE	50
8360T-50S	5ml	Yes	HDPE	50

## AccuPod® Sample Thief

- Made from 316L stainless steel
- Available in a range of different lengths
- Available from stock
- 25mm Diameter
- Samplers with a bespoke number of ports available on request

### Single Port

Part No.	Sampler Length	No. of Ports
1360A-601	600mm	1
1360A-1001	1000mm	1
1360A-1501	1500mm	1
1360A-2001	2000mm	1

### Multi Port

Part No.	Sampler Length	No. of Ports
1360A-603	600mm	3
1360A-1003	1000mm	3
1360A-1503	1500mm	3
1360A-2003	2000mm	3



## Unit Dose Sample Thief

Unit Dose Sampling made easy

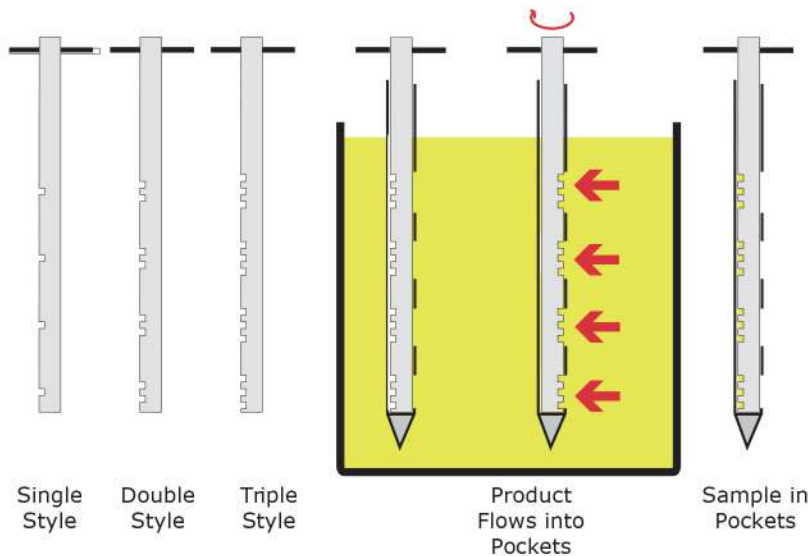
The Unit Dose Sample Thief is a highly versatile sampler for taking multiple samples at multiple heights within the product.

The operator can quickly change the sample volume and the number of samples taken by simply changing the inner rod.

- Multilevel Unit Dose Sampling
- Ideal for sampling free flowing powders and granules
- Take one, two or three samples at each sampling height
- 316L stainless steel



Above - Triple Style Sampler



### Operation:

1. Select the correct Inner Rod and fit it inside the Outer Tube
2. Insert the sampler into the product, turn the handle to expose the pockets to the product.
3. Turn the handle to the original closed position, then remove the sampler from the product.
4. Remove the Inner Rod from the Outer Tube to expose the samples.

### Note:

Maximum sample volume is 3ml per pocket

### Ordering -

This sampler is made to order.

To place an order let us know:

- Length of sampler
- Number of sampling positions
- Number of samples to be taken at each sampling position (Do you require a Single, Double or Triple style sampler?)
- Volume of each sample

Please contact us to discuss your requirements.

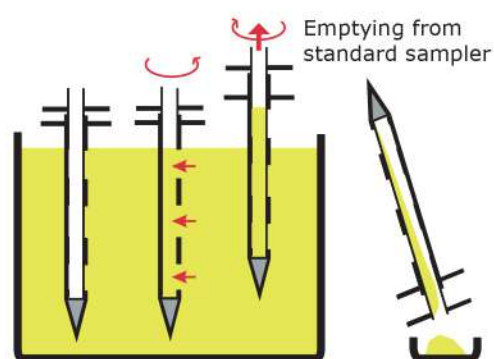


## Powder Trier

High Quality Trier – ideal for powders, granules & grains

The Sampling Systems Powder Trier is ideal for taking a large volume, cross sectional sample from a container. The sampler has a robust all stainless steel construction and is suitable for sampling cereals, grains, free flowing powders, granules and even slightly cohesive powders

- Cross section (composite sample)
- 316L stainless steel, bright finish
- Suitable for taking a large volume sample from compacted powders, grains etc.



### Operation

1. Insert the sampler into the product
2. Turn the handle to open the slot - the product can now be collected in the central tube
3. Turn the handle to close the slot
4. Remove the sampler
5. Invert the sampler to discharge the sample

Note: The cutting scroll is not shown in the sketches



Part No.	Sampler Length	Number of Slots	Sampler Diameter	Maximum Sample volume	Material
1216A-600	600mm	3	25mm (excluding scroll)	110ml	316L ss
1216A-1000	1000mm	4	25mm (excluding scroll)	190ml	316L ss
1216A-1500	1500mm	5	25mm (excluding scroll)	300ml	316L ss

Additional Tips	See page 56 (for rounded or very pointed tips)
Cleaning brushes	See page 184
Storage Cases	See pages 186-187
XRF Certification	See page 196

## U-D Master

Unit Dose Sampling to meet FDA Guidelines

The patented U-D Master is designed for multilevel low volume sampling in the pharmaceutical industry. It is ideal for use with free flowing powders. By simply changing the sample inserts (cells) different volumes can be sampled. The sampler is available in two convenient diameters 22mm (Standard U-D Master) and 13mm (Micro U-D Master - please contact us for info).

- Manufactured from 316L stainless steel
- Satin polish ( $Ra < 1$ microns)
- Take Multiple Samples from the same Point
- Range of sampler lengths
- Change the sample volume by changing the insert
- Special finishes and materials of construction available on request



Sample Inserts are available in a range of sizes from 0.1ml to 4.0ml, plus blank inserts



More than one sample can be taken from the same sampling point (see double or triple styles).



Single style sampler

Double style sampler

### **SINGLE Style Sampler**

Collects ONE set of samples at each sampling point.

### **DOUBLE Style Sampler**

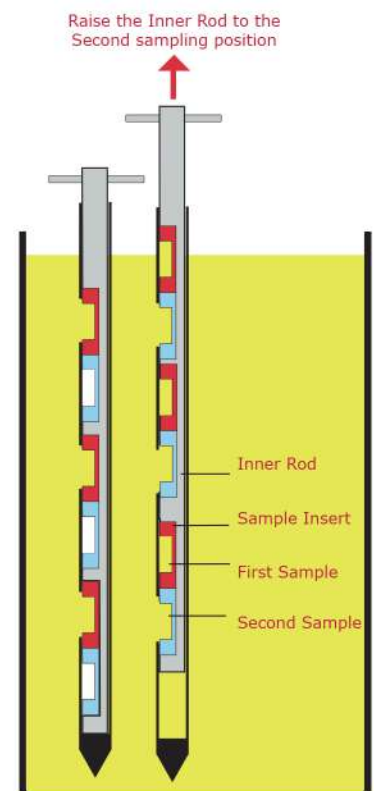
Collects TWO sets of samples at each sampling point.

### **TRIPLE Style Sampler**

Collects THREE sets of samples at each sampling point.

### **Operation:**

1. Select the correct volume Inserts and fit them into the Inner Rod.
2. Slide the assembled Inner Rod into the Outer Sleeve at the lowest sampling level
3. Insert the sampler into the product, turn the handle to expose the sampling cells to the product.
4. Double and Triple Style samplers - pull the handle to the next level to expose the next set of sampling cells.
5. Turn the handle so no Sampling Inserts are exposed then remove the sampler from the product.
6. Remove the Inner Rod from the Outer Sleeve, the individual Sampling Inserts can then be easily removed for analysis.



Drawing showing how the Double Style Sampler takes two samples from each sampling point.

## U-D Master Cont.....

Sample Inserts are stamped with their volume for easy identification

Choose the right inserts to get the required sample volume



	Part No.	Sampler Length	Sampler Diameter	Number of Sampling Points	No. of Sampling Cells needed
<b>SINGLE</b> Style Sampler	1230A-300	300mm	22mm	5	5
	1230A-600	600mm	22mm	10	10
	1230A-900	900mm	22mm	6	6
	1230A-1200	1200mm	22mm	8	8
	1230A-1500	1500mm	22mm	10	10
	1230A-1800	1800mm	22mm	12	12
<b>DOUBLE</b> Style Sampler	1230B-600	600mm	22mm	5	10
	1230B-900	900mm	22mm	7	14
	1230B-1200	1200mm	22mm	8	16
	1230B-1500	1500mm	22mm	10	20
	1230B-1800	1800mm	22mm	12	24
<b>TRIPLE</b> Style Sampler	1230C-900	900mm	22mm	5	15
	1230C-1200	1200mm	22mm	7	21
	1230C-1500	1500mm	22mm	8	24
	1230C-1800	1800mm	22mm	10	30

### Sample Inserts

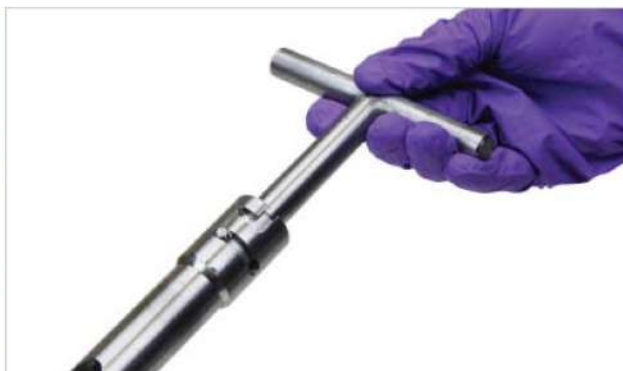
Sample Inserts are available in 0.1ml increments from 0ml to 4ml.

Part Number is 1230T-XX (where XX = Cell Volume)

For Example - The Part Numbers for 1.2ml and 0.5ml Inserts are : 1230T-12 and 1230T-05 respectively

1230T-00 = Blank Insert

<b>Accessories</b>	Cleaning Brushes	See page 184
	Storage Case	See pages 186-187
	XRF certification	See page 196





## Cohesive Pocket Sampler

### Zone sampling of Cohesive powders

The Cohesive Pocket Sampler has been specially adapted from the Pocket Sampler (on pages 72-73) to enable the taking of samples from damp and cohesive powders.

Scrapers have been added to push the sticky powder into the sample pockets. Scrapers are fully welded to give a hygienic, GMP correct sampler.

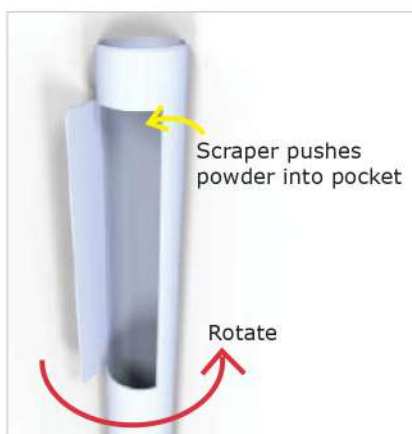
- Multilevel (discrete samples)
- 316L Stainless steel construction
- Suitable for sticky, cohesive powders



2220B-900

#### Operation

1. Insert the sampler into the product
2. At the required depth rotate handle to expose the collecting pockets.
3. Rotate the sampler through 360° so the product is pushed into the collecting pockets
4. Rotate handle to close pockets and remove sampler.



Part No.	Sampler Length	Number of Pockets	Nominal Volume of each Pocket	Diameter*	Material
2220B-600	600mm	3	15ml	25mm	316L ss
2220B-900	900mm	3	20ml	25mm	316L ss
2220B-1500	1500mm	5	20ml	25mm	316L ss

Additional Tips - see page 56 (for rounded or very pointed tips)

Cleaning Brushes - See page 184

Sampler Cases - See pages 186-187

XRF Certification - See page 196

\* Diameter does not include scrapers. Scrapers are approximately 10mm high

## Cohesive Slot Sampler

### Composite sampling of Cohesive powders

The Cohesive Slot Sampler has been specially adapted from the popular Slot Sampler (on pages 70-71). Scrapers have been added to push the non flowing powder into the sample slots.

Scrapers are fully welded to give a hygienic, GMP correct sampler.

- Multilevel (composite samples)
- 316L Stainless steel construction
- Suitable for sticky, cohesive powders



Part No.	Sampler Length	Number of Sampling Slots	Maximum Sample Volume	Diameter*	Material
2210A-600	600mm	3	110ml	25mm	316L ss
2210A-1000	1000mm	4	190ml	25mm	316L ss
2210A-1500	1500mm	5	300ml	25mm	316L ss

Additional Tips - see page 56 (for rounded or very pointed tips)

Cleaning Brushes - See page 184

Sampler Cases - See pages 186-187

XRF Certification - See page 196

\* Diameter does not include scrapers. Scrapers are approximately 10mm high