QAQC LAB
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POWDER SAMPLERS

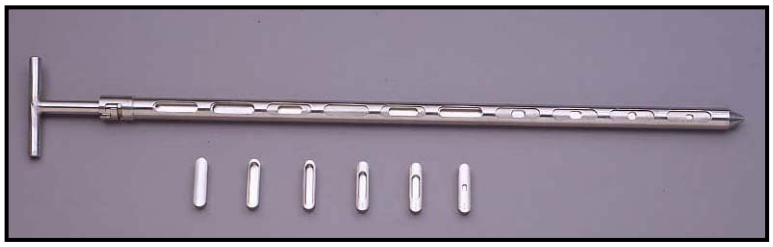
UNIT-DOSE POWDER SAMPLERS :

These samplers with interchangeable dies for unit-dose sampling are available in different diameters, lengths and models. Made of 316 stainless steel, these samplers may have one sample port or multiple sample ports for simultaneous sampling at several locations. Any number of sample ports may be blocked with blank dies. Single, duplicate or triplicate sampling at each sample port is possible. Duplicate and triplicate samples are obtained from exactly the same spot at each sample port with just one insertion of the sampler into the powder bed. Segmented design samplers facilitate sampling from large blenders with roof height limitation. Stainless steel inner shaft is hollow to make the sampler lighter. Inner shafts, custom-made of Delrin or Teflon - FDA approved white plastics), are available. The samplers are passivated and easily cleanable with a removable conical end piece. Some sizes of standard models are stock items. Others are custom-made and have longer lead times.

Another unit-dose powder sampling technique, involving compaction of the powder sample in the sampling die itself, is described separately under "New Unit-Dose Powder Sampling Technique."

675 1230A (Single Style)

QUICK QUOTE **ONLINE PRICING**



Standard single-sample design. 0.875" in diameter. One unit-dose sample is obtained at each sample port. The bottom most port starts at 1.5" from the tip. 40 different sizes of sample dies (0.1cc to 4.0cc in increments of 0.1cc) and 30 different sizes of split sample dies (0.1cc to 3.0cc in increments of 0.1cc) fit in this sampler. Stock sizes are 1ft with 5 ports, 2ft with 10 ports, 3ft with 6 ports, 4ft with 8 ports, 5ft with 10 ports and 6ft with 12 ports.

675 1230AS Segmented Sampler

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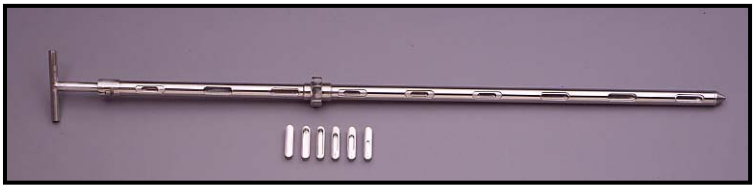
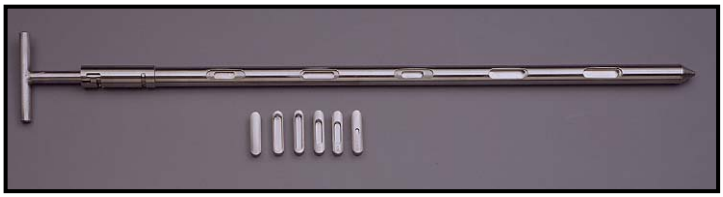


Custom-made segmented single-sample design. 0.875" in diameter. Facilitates sampling from large blenders, with roof height limitation. Both segments may be used independently. Has a 1.5" diameter nut to join the segments. The bottom most port starts at 1.5" from the tip. Same dies as described under Model 675 GI fit in this sampler.

675 1230B Duplicate Design



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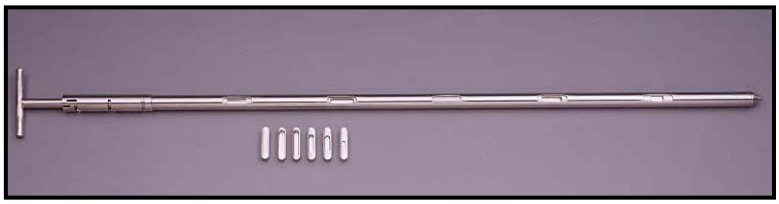
Standard duplicate-sample design. 22 mm in diameter. Two unit-dose samples are obtained from exactly the same spot at each sample port. The bottom most port starts at 3.5” from the tip. Each sample port requires either two sample dies or two blank dies. Same dies, which fit in Model 675 1230A sampler also fit in this sampler. Hollow blank dies and Delrin inner shaft are recommended with this design. Stock sizes are 2ft with 5 ports, 3ft with 7 ports, 4ft with 8 ports, 5ft with 10 ports and 6ft with 12 ports.

675 1230C Triplicate Design



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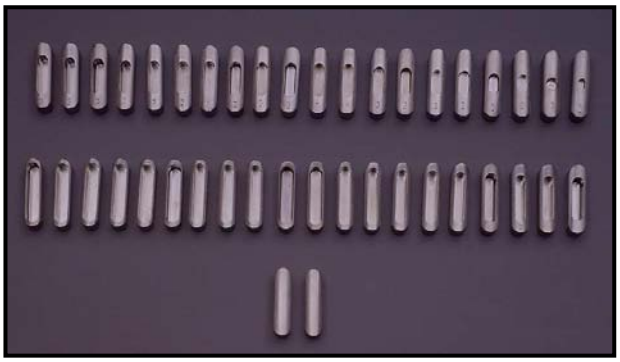
Standard triplicate-sample design. Three unit-dose samples are obtained from exactly the same spot at each sample port. The bottom most port starts at 5.5” from the tip. Each sample port requires either three sample dies or three blank dies. Hollow blank dies and Delrin inner shaft are recommended with this design. Stock sizes are 3ft with 5 ports, 4ft with 7 ports, 5ft with 8 ports and 6ft with 10 ports. Consideration should be given to the location of the bottom most port in this model before placing an order.

Standard Sample Dies:



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Standard sample dies and blank dies, made of 316 SS, are available in 40 different sizes from 0.1cc to 4.0cc in increments of 0.1cc to fit in Models 675 1230A, 675 GIA, 675 1230B, and 675 1230C. Custom-made dies are available for other models. Custom-made Delrin or Teflon dies are also available.

Split Sample Dies:

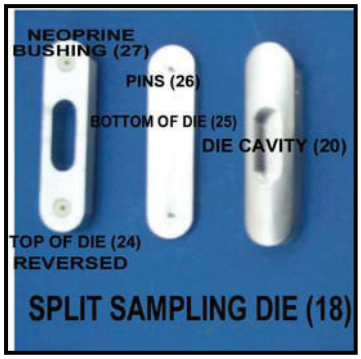
Split sample dies are used if the powder sample has to be compacted into a tablet in the die itself. Made of 316 SS, these dies are available in 30 different sizes from 0.1cc to 3.0cc in increments of 0.1cc. Please see under “New Unit-dose Sampling Technique” below for more details.

NEW UNIT-DOSE POWDER SAMPLING TECHNIQUE (PATENTED):

Samples are taken from powder blends to test for content uniformity before further processing, such as tableting or encapsulation. Integrity of the sampling technique is critical in order to ensure accuracy of the test results. Unit-dose sampling has been proven to improve the accuracy of the content uniformity results. However, there is still room for sampling error in unit-dose sampling if the samples are submitted to the laboratory in powder form. This New Unit-dose Powder Sampling Technique further reduces the sampling error by combining unit-dose sampling with compaction of the powder sample into a real tablet in the sample die itself. Compaction of the powder samples into tablets may reduce the sampling error because the samples are in compacted form and handling of the loose powder samples by the operator or the analyst is completely eliminated. Indeed, several major pharmaceutical companies have already successfully utilized this technique in situations where the blend samples were failing the content uniformity test while the tablets compressed from the same blends were passing the test. This technique is strongly recommended especially when you have a low dose directly compressible formulation. Why wait until you have a problem?

This technique requires QAQC Lab Unit-dose Samplers, Split Sample Dies and Manual Tablet Compaction Machine (675 GTABLET). Split sample dies and the manual tablet compaction machine are described below and the unit-dose samplers are discussed under “Unit-Dose Powder Samplers.”

Split Sample Dies:



Each Split Sample Die is made of two 316 SS sections snapped together by hand to form the die. The upper section has the sampling cavity and the lower section is blank. The split design allows ejection of the compacted tablet. These dies fit in Models 675 1230A (Single Style), 675 GIA, 675 1230B (Double Style) , 675 1230C (Triple Style), and cover a sample size range of 0.1 cc to 3.0 cc in increments of 0.1cc.

Manual Tablet Compaction Machine-II (675 TABLET):

Operating Instructions

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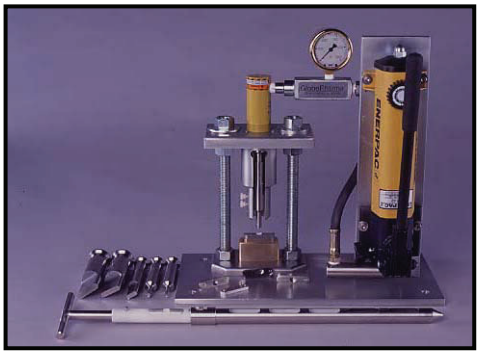

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This machine is used to compact the powder sample into a tablet in the sampling die itself by hydraulic pressure. A 3,000 lb capacity pressure gauge is provided. No electricity or compressed air is required. The machine is compact (8”D x 16”W x 16”H) and portable (30 lb) and works with standard tablet tooling. QAQC Lab offers, for the sake of customers’ convenience, six different types and sizes of standardized punches covering the entire sample size range of 0.1cc to 3.0cc. A table showing the sample size and corresponding punch type and size is given below:

Sample Size, cc	Punch Type	Punch Size
0.1	IPT, B, Lower	3/16” round
0.2	IPT, B, Lower	¼” round
0.3, 0.4, 0.5, and 0.6	IPT, B, Lower	3/8” round
0.7, 0.8, 0.9, 1.0 and 1.1	IPT, B, Lower	9/32” x ¾” caplet
1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9 and 2.0	IPT, DS3, Lower	5/16” x 1.250” caplet
2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 and 3.0	IPT, DS3, Lower	3/8” x 1.500” caplet

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