



Processall's Pilot Plant testing facility in Cincinnati, Ohio is a modern, well-equipped facility designed to provide you with the data you need to develop your process, evaluate our equipment, and scale up to the production size equipment you intend to purchase.

We can run batches in sizes from 1 to 25 gallons and perform accurate mixing, granulating, drying and reacting tests. The typical test takes from 1 to 3 days and may include runs on several different pieces of equipment.

Processall's pilot plant facility is unsurpassed in this industry. It is designed to acquaint you with different technologies as well as upgrading your process to new levels. We are looking forward to meeting you and showing you the "Processall Experience".

Some of the typical questions asked prior to testing at Processall are as follows:

What is the charge for running pilot plant tests at Processall?

- \$3,000 per day
 - 140 HL, 90 Prestovac
- \$1,500 per day
 - 4 HV (This mixer is for feasibility testing only)
- Storage of leftover raw materials and test products
 - Any raw materials or test product left for future testing will incur a storage fees after 30 days following testing date at a rate of \$500 per month.
- Special Charges
 - Toll manufacturing
 - Horsepower checks
 - Extensive cleanup or set up charges can be assessed based on customer information provided



What do I need to do to initiate a test?

First, contact your Processall representative to secure a test date. Typically, test dates are attained two to six weeks in advance so that arrangements can be made and materials acquired. In order to insure strict confidentiality, we only schedule one customer in at a time; therefore space is limited. Secondly, we encourage you to prepare a syllabus describing the tests you wish to perform, including batch sizes, recipes, sampling procedures, time involved, etc. We can better serve you when we are prepared in advance and this allows us to review the procedure prior to test day.

Do I need to attend?

Testing new processes requires a teamwork approach. We understand our equipment and you know your process; we can accomplish the most for our time spent when all involved parties are present. Furthermore, technical and commercial issues concerning the future project can be addressed during this testing period. Please feel free to bring anyone else you feel might benefit from the testing.



What do I need to provide?

First, and most importantly, all materials required for performing your process. Remember that several tests may be run, so be sure to provide enough supplies to avoid running short. Also, remember to bring any cleaning compounds (other than water) needed to clean the vessel and area after the test is finished. We will need sample containers adequate for preparing your samples and returning them to your facility. Please provide shipping instructions and labels for returning these samples. Finally, please provide us with all shipping labels, MSDS forms and warnings required to meet DOT requirements when returning your product. Your product will be sent back "freight collect" unless other arrangements are made in advance. All empty containers and cleaning solutions will be returned since local laws prevent us from disposing of them or storing them on our site.

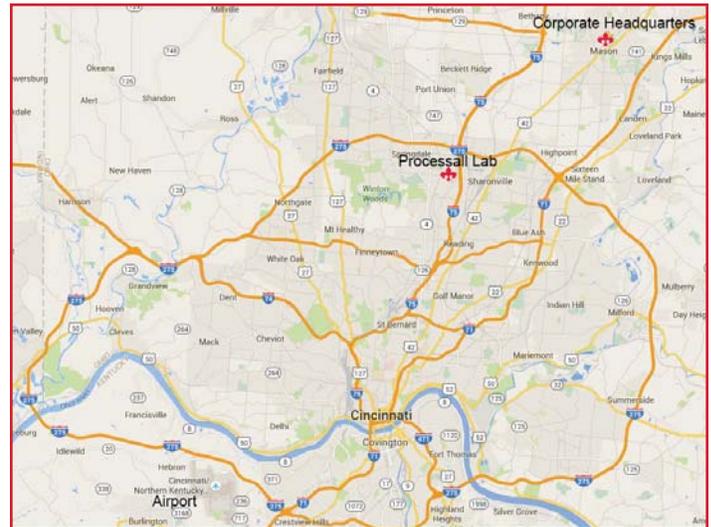
What does Processall provide?

Processall's facility is equipped with the following:

1. Model 4 H/V - (1 gallon) 4 liter capacity, 1 ½ HP main drive, 2 HP mill drive Mixer/Reactor/Dryer with heating/cooling jacket.
2. Model 20 H/V - 20 liter (5 gallons) capacity 5 HP main drive, 2 HP mill drive Mixer/Reactor/Dryer with heating/cooling jacket.
3. Model 140 H - 140 liter capacity (35 gallons) 10 HP main drive, 10 HP mill drive. Mixer/Dryer with heating/cooling jacket. Jacketed filter for vapor disengagement.
4. Model 140 G/D GRAN-U-DRY - 140 liter capacity (32 gallons) 25 HP main drive, 5 HP mill drive. Mixer/Reactor/Granulator/Dryer with heating/ cooling jacket.

Material Handling & Support Equipment:

1. Large Vacuum System - 5 HP vacuum pump with condenser and jacketed holding tank for drying and solvent recovery.



2. Small Vacuum System - 2 HP vacuum pump with condenser and holding tank.
3. Vacuum Drying Filter - Jacketed pulse back filter for use on 60 H/V and 140 mixers and dryers.
4. Liquid Dispersion System - Pressurized tanks and peristaltic pumps for spraying liquids into the process.
5. Oil Circulation System with Heating and Cooling capabilities.
6. Recirculating Hot Water System
7. Compressed Air
8. Steam Generator
9. Digital Scales ranging from .0001 lb to 250 Lb
10. Analytical scale available for more accurate minor ingredients
11. Other Instruments such as moisture measuring balance, microscope, pressure and vacuum transducers...etc.

What arrangements need I make for my visit?

We will be happy to make the required hotel reservations. There are several hotels in the immediate area which we can recommend, or you can schedule your own stay. Should you fly into Cincinnati, we recommend renting a car as taxis and other forms of transportation are not always available. Processall can also help you reschedule your airline flights should your visit be lengthened.

