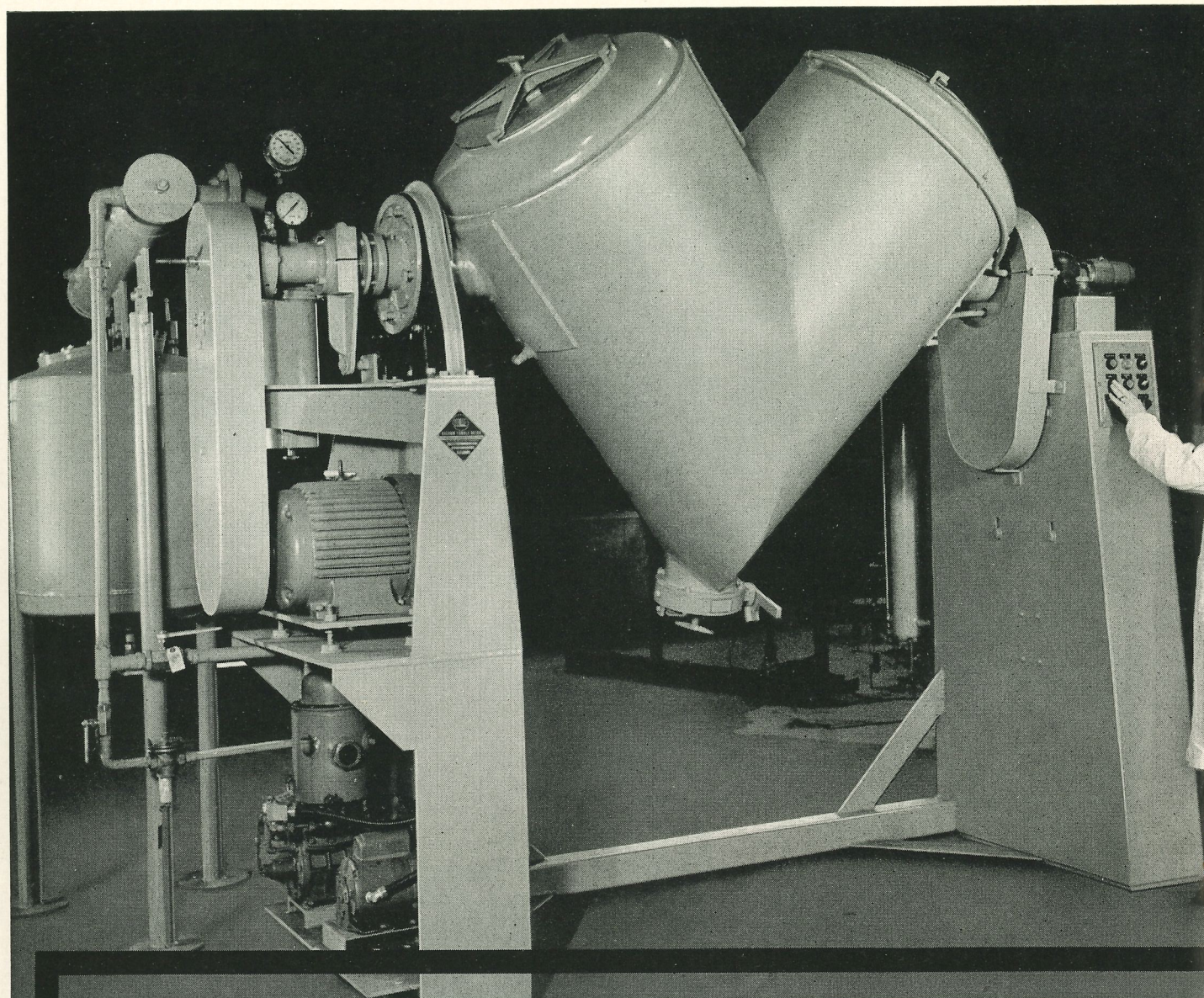




Now for the first time you can combine vacuum-drying and liquid-solids blending in a single packaged unit — the new P-K Solids-Processor. This latest P-K "Twin-Shell" development dry blends solids, disperses liquids, granulates and dries in simple sequence.

DRY BLENDING — Solids are tumbled to give gentle precision blending. This may be done under vacuum or atmospheric conditions, in inert or sterilizing gas, with heat in jacket up to 200° F., or with cooling water circulated through jacket. When needed, intensive blending breaks up agglomerates or gives uniform dispersion of pigments.

LIQUID DISPERSION, GRANULATING — Minute or large percentages of liquid are uniformly dispersed into solids. Dispersion can be sufficiently intimate to provide lump-free production. Or it can be regulated to produce granulations of controlled size. As in dry blending, these steps can be conducted under vacuum or atmospheric conditions, in inert or sterilizing gas, with heat in jacket up to 200° F., or with cooling water circulated through jacket.

DRYING — The new packaged system allows vacuum drying of heat sensitive materials with continuous turn-over and re-blending of solids. During drying, small balls with an insulating crust that inhibits complete drying tend to form. A separately actuated agitator breaks these up, permitting drying to a finished fine powder. In final stages of drying, direct hot air or gas can be introduced to reduce liquid content quickly to a fraction of a percent.

All P-K Solids-Processor systems are completely packaged. Available in standardized models with charge capacities from one to fifty cu. ft.

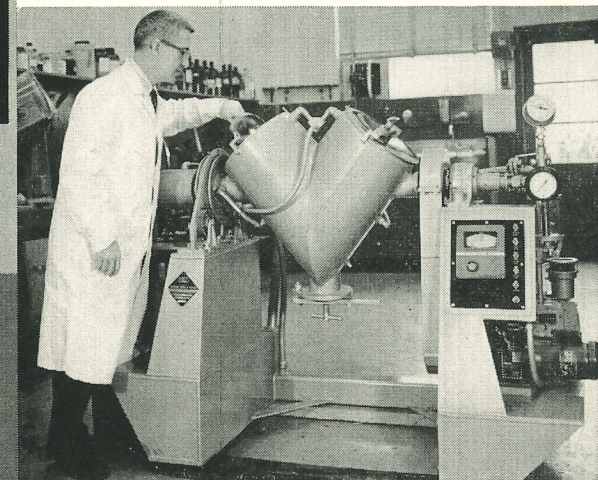
Revolutionary!
P-K Solids-Processor*
 adds vacuum drying to
 liquid-solids blending...

Performs these operations:

1. Precision gentle blending
2. Intensive blending
3. Liquid dispersion in solids
4. Liquid-solids blending under vacuum
5. Granulation of solids
6. Dry blending under vacuum
7. Vacuum drying or cooling of solids
8. Heat sterilization of solids
9. Coating of solids
10. Chemical reaction under heat and vacuum
11. Direct gas drying

Pre-test model available

We invite you to bring or send your materials to the P-K Pre-test Laboratory in East Stroudsburg. A one cu. ft. model of the new Solids-Processor is available for pre-testing . . . to demonstrate things impossible to see without pilot study . . . to work out subtle variables in blending, granulating and drying . . . to indicate accurately scale-up results and operational procedures . . . to predict savings in materials, labor and equipment investment.



It's best if you can come yourself for pre-testing. You'll work with well-qualified engineers who have made thousands of resultful pre-tests for processors. They often suggest and produce unexpected product variations. Your guidance as to what is best for your product or process will be helpful. All you need is enough material for three separate one cu. ft. trial runs.

If you are unable to attend, send your materials. If possible, include a sample that will indicate optimum results. We'll give you a complete pre-test analysis.

Write or phone George Sweitzer collect at Stroudsburg, Hamilton 1-7500.

Patterson  Kelley

Chemical and Process Equipment Division
 112 Burson Street, East Stroudsburg, Pa.

*patented and patents pending