# Semi-continuous hydrogenation

The Sullivan Semi-continuous Hydrogenation System gives you the production capacity of continuous processing while retaining the versatility of producing a variety of end-products.

Precise, automated control of the variables in the hydrogenation process is the key to the high production efficiency and endproduct reproducibility of this fully-engineered, packaged hydrogenation system. This control enables hardening each batch of oil to a specific selected point.

# Faster hardening speeds up the processing cycle.

The Sullivan hydrogenation system combines slow mechanical agitation with moderate recirculation of hydrogen gas to achieve a rapid hardening rate. A typical cycle – from charging the reactor, hardening, through continuous catalyst filtration, polish filtration, and pumping to storage – takes only about  $2\frac{1}{2}$  hours with heat recovery. Total hardening time can be less and depends on the iodine value drop required, size of converter and whether or not heat recovery is used.

## Easy product changeover.

The semi-continuous Sullivan system retains the versatility of old-style batch processing yet it permits easy changeover from one type of feed stock to another, without product contamination.

#### Low operating costs.

Gas recirculation optimizes activity and speeds up the hydro-

genation cycle. What's more, the system can easily be adapted to use liquid hydrogen. This eliminates the expense of a hydrogen production plant for smaller capacity plants. A highly automated packaged system, it's easily operated from a central control panel. Only one operator is needed.

### No drop tanks required.

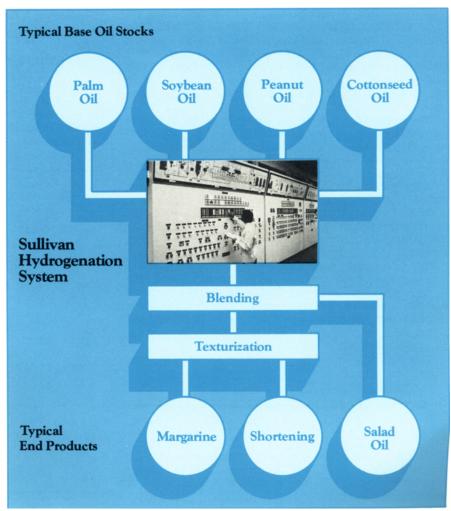
The semi-continuous Sullivan process eliminates the need for expensive drop tanks and related installation costs. It also requires significantly less plant area.

If you'd like a more profitable approach to hydrogenation,

call Sullivan Systems at (415) 435-3855 today.

Sullivan Systems, Inc. and Alfa-Laval provide fats and oil processes and systems throughout the world. In North America write: Sullivan Systems, Inc., a subsidiary of The De Laval Separator Company, P.O. Box 158, Tiburon, California 94920, U.S.A. In the rest of the world write: Alfa-Laval, Dept. SFR, S-14700, Tumba, Sweden.





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