

Most Innovative Plant

Small or Medium Manufacturer (sales under \$50 million)
Superior Engineered Products, Ontario, CA

MANUFACTURING



*Superior's facility
in Ontario, CA.*

Superior faced a challenge in developing a fully integrated manufacturing system that would allow it to reduce lead times and track the status of orders throughout each step of the production cycle. The company's wide variety of products, including vinyl and aluminum windows and doors, as well as wood and clad-wood doors, made it a complicated process. To achieve its goals, Superior chose the most automated

equipment for each process and set up a fiber optic communication network which allows integration of machinery from various suppliers. Innovative features of the plant include vinyl welding and cleaning operations which communicate with each other and allow Superior to process dozens of different frame and sash profiles on the same line without lost time for set-up. Other unique elements include an in-line, roll-form grid machine that feeds two automated glass lines and an in-line V-grooving machine that allows V-groove patterns to be supplied within normal delivery cycles. A conveyORIZED production line for aluminum windows keeps work in front of workers to increase productivity and reduce errors. The plant is also equipped with a conveyor station that transports windows to an automated wrapping station and a custom forklift system which allows navigation of narrow aisles and profiles to be stored up to 20 feet high.



Vinyl fabricating machines allow the manufacturer to process numerous different sash and profiles on the same line without lost time for set-up.



Final assembly operations in the Superior facility.