

## Project Summary Sheet



### Project Objective

Sub-Zero Freezer Company is the nation's premier maker of high-end refrigerators, freezers and wine coolers. Sub-Zero also manufactures the Wolf brand of professional-quality ranges and ovens. Sub-Zero operates a distribution center near its manufacturing plants in Madison, Wisconsin, and needed a storage system that was very high density. This system, which was required to conserve space and manpower, needed to be used in conjunction with a conveyor system that would facilitate order shipments. The conveyor system was Phase Two of this project. *(Please refer to Phase Two Project Summary Sheet.)*

### Project Scope

This project required DAK E & E to design, supply and install the system. The scope of this project required testing product for "flowability" prior to finishing the design work. The final system design consists of gravity-roller pallet flow beds, welded in place to a rack system that allows ovens and ranges to be stored 12 to 14 units deep in 58' deep flow lanes. Storage density is excellent, lift truck travel time was reduced, productivity was increased and product is picked on a first-in, first-out basis. All product is loaded from the "charge" side of the system and unloaded from the "discharge" side. Product flow speed is carefully controlled by brakes.



*View of centrifugal brake (from underneath) that controls speed of pallet flow.*

### Project Data

Manufacturer of refrigerators, freezers, ovens, ranges and cook tops.

Building Square Feet: 200,000

Pallet Positions: 1,872 average estimate

Pallet Flow Lanes: 144

Pallet Weights: 600# and 2000#

Interlake roll-formed and structural rack system. Alba structural gravity roller flow beds, welded in place on structural rack beams. Centrifugal pallet flow brakes, indirect mount against underside of gravity rollers.