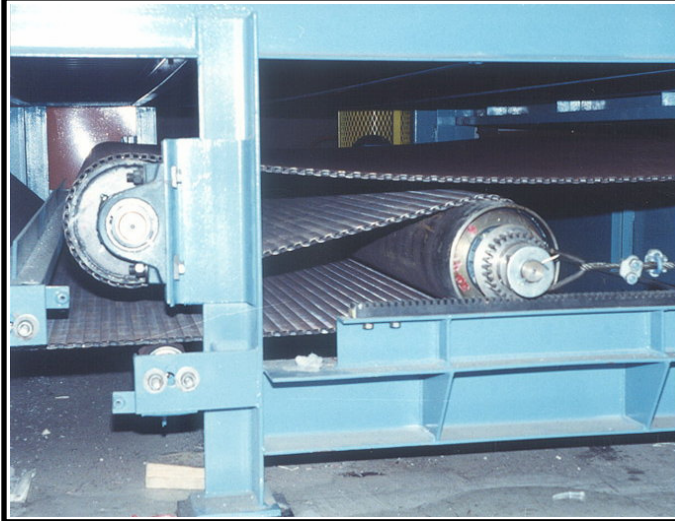


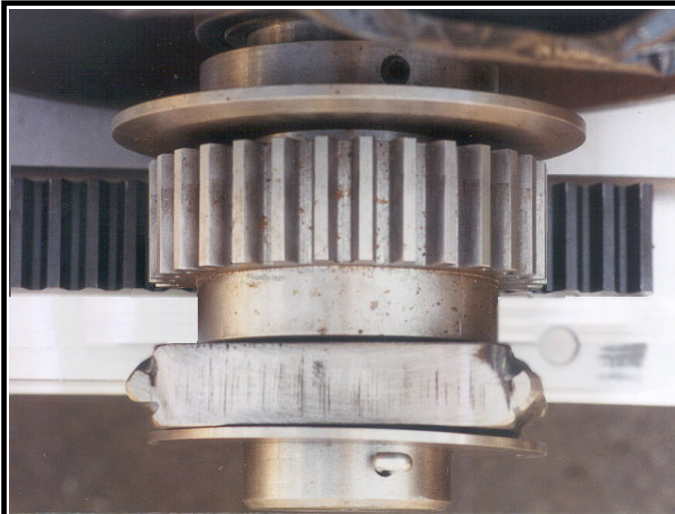
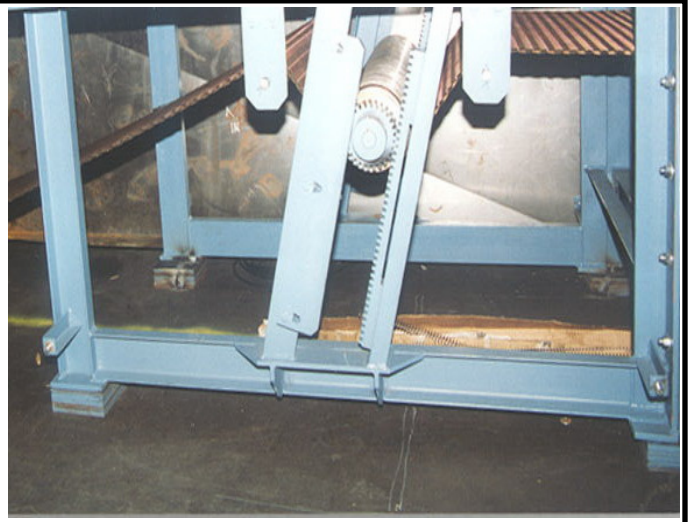
# THERMEQ

## RACK AND PINION TAKE-UP SYSTEM



Left - A rack and pinion take-up system. Tension is placed onto the belt by connecting counterweights to the floating take-up roll using cables and pulleys.

Right - A take-up system showing a vertical rack and pinion system.



Left - An overhead view of a rack and pinion take-up system.

# THERMEQ

## RACK AND PINION TAKE-UP SYSTEM

### *Feature / Benefits*

- **Gravity Induced Take-up Tension** - This simple design uses gravity to produce the required force on the take-up roll. By using a “gravity” system, our customers can eliminate the need for higher maintenance hydraulic and pneumatic systems.
- **Parallel Racks** - THERMEQ’s design incorporates the use of two independent racks. The racks are mounted parallel to one another and to the centerline. This forces the floating take-up roll to maintain alignment throughout its length of travel.
- **Guide Washers** - Both ends of the floating take-up roll are equipped with guide washers preventing disengagement of the rack and pinion system.
- **Floating Take-up Roll with Internal Bearings** - The take-up roll is designed using fatigue techniques and conservative design factors.
- **Standardized Rack and Gear Components** - The use of standardized components allows for lower costs and greater availability.



**THERMEQ GROUP** is an engineering and fabrication organization that serves industry by offering our customers technology, equipment, and service. **THERMEQ GROUP** has a capable staff of engineers and craftsmen that have both technical knowledge and practical field experience. **THERMEQ GROUP** provides our customers with high quality equipment, fast delivery, and trained technicians.



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