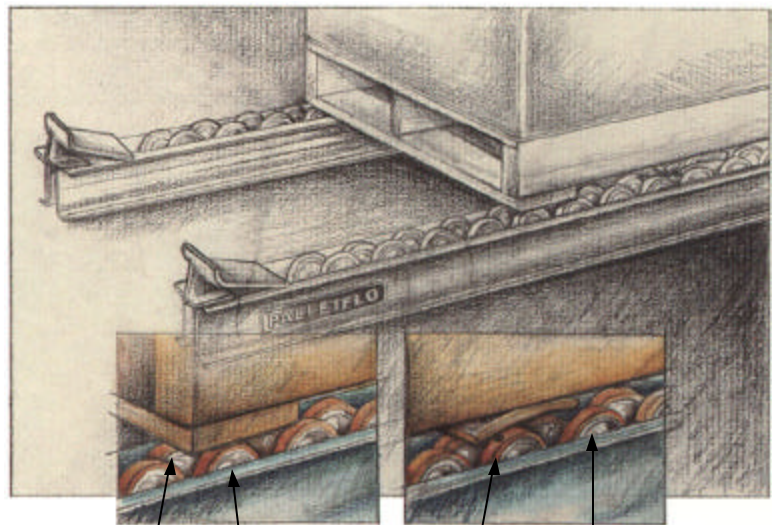


The “Magic” of **PALLETFLO** Wheels



Palletflo’s design, coupling gravity with hysteresis control, results in immediate and long term cost-savings. Because gravity is the power source, there are no belts, chains or mechanical devices to maintain; and because the “Magic” of elastomer hysteresis controls the flow, there are no brakes, electronics, pneumatics or controls to require attention or maintenance. Palletflo installation is fast and easy and, with advanced planning, can be done while other operations continue. Once installed, Palletflo requires no maintenance. The “Magic” Palletflo wheel is an elastomeric hysteresis tire bonded to a heavy duty, corrosion-resistant steel ball bearing wheel. Perfected after years of polymer development, the tire is composed of a high grade urethane polymer which is resilient, energy absorbent and durable with high hysteresis properties. The high hysteresis properties of the Palletflo tire transform each wheel into a speed-controlling device. As the Palletflo tire is deformed by the weight of the pallet, kinetic energy is given up as heat. The transfer of kinetic energy into thermal energy, the “hysteresis effect,” causes each



Board Penetrating Wheel

Accommodation of Warped Board And Projecting Nail

Palletflo Wheel Fully Deformed

Hysteretic Recovery Of Wheel

wheel to act as an retarder and stabilizes the forward speed of the load. The pallet moves through the system at a safe, controlled speed, as if by “magic.”

The Palletflo tire is also weight responsive. Heavier loads cause greater tire deformation, and greater retarding action, resulting in heavier loads moving more slowly than lighter loads. This property of the Palletflo wheels allows pallet loads of varying weights to travel smoothly and safely in the same lane. The resilient Palletflo wheel “adjusts” and permits irregularities to “roll through,” so the pallet continues to roll smoothly. Another example of the “Magic” of Palletflo wheels.