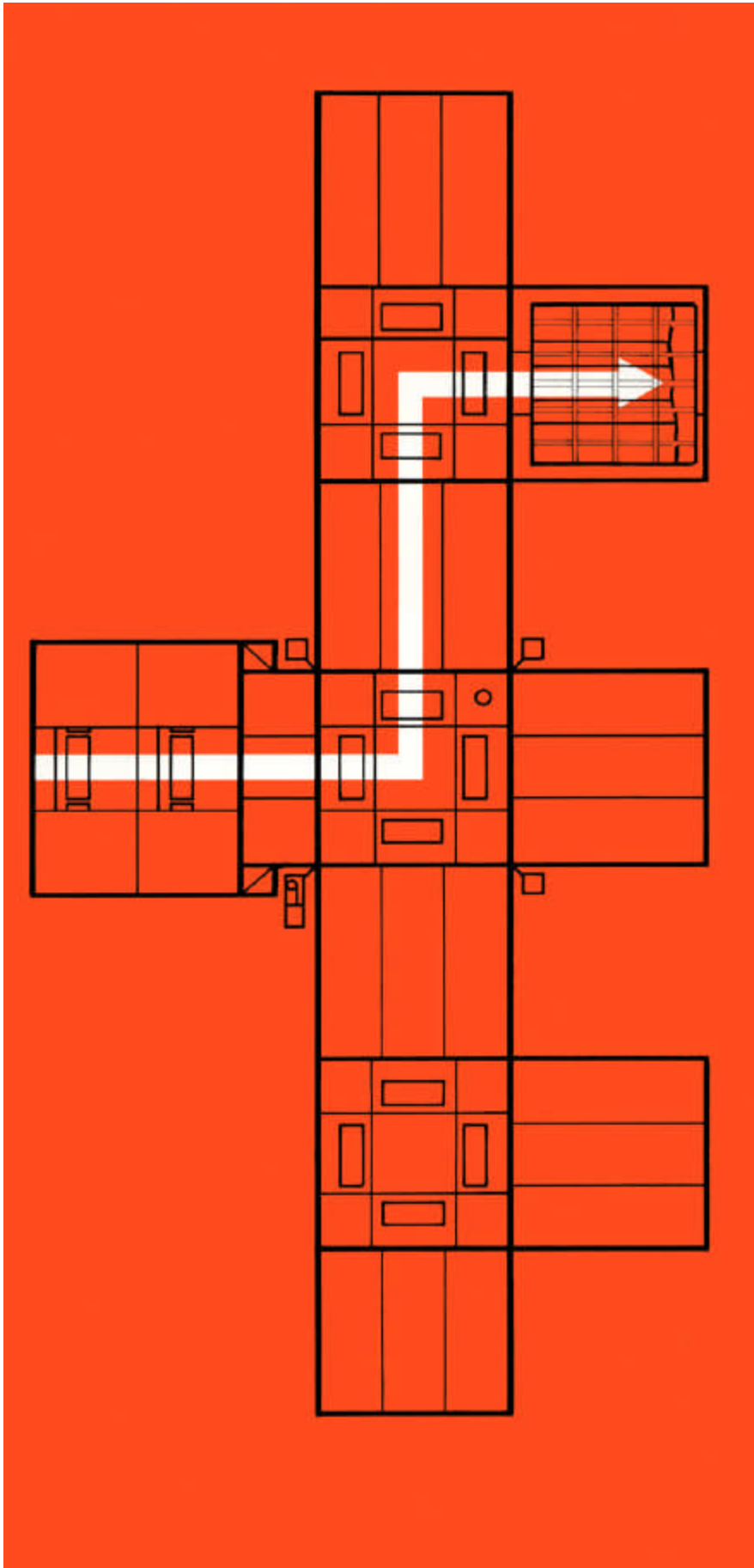


# **KORNYLAK LOW PROFILE PALLET SYSTEM**

modular  
system  
components  
for cargo  
handling



The Kornylak Low-Profile Pallet System accelerates the build-up and breakdown of palletized, or containerized shipments, hastens the delivery of merchandise to customers, and helps minimize aircraft ground time.

Systems such as those developed for Air Canada and others, consist of modules combining such features as:

- 1) A transfer mat at the cargo terminal door, which matches the height of a standard cargo transporter or a Kornylak Karry -All truck;
- 2) An elevator station, which travels between this transfer level to near-floor level or to floor level above;
- 3) An electric hydraulic conveyor system which quickly transfers incoming pallets to their break stations from which cargo can be moved by hand or vehicle to customer pick-up;
- 4) Installation directly on the floor; no pits required.

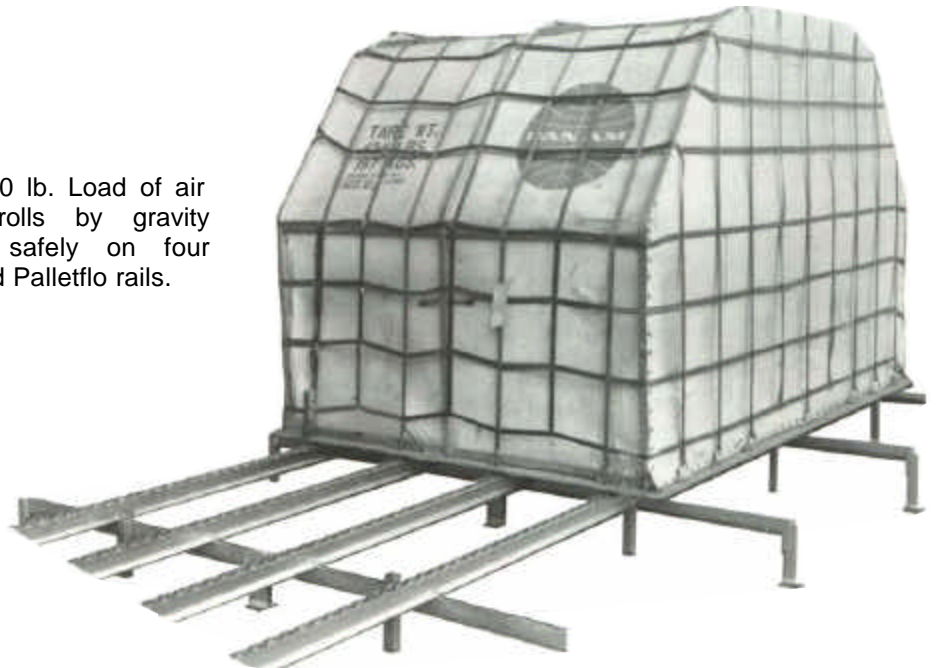
A standard cargo-aircraft load can be delivered to the break stations and be made available to consignees in little more than an hour from dock delivery. This can be accomplished with a system of 6 or more make/break stations. Naturally, as modules of the system are added by the user, time requirements are reduced proportionally.

No floor tear-up is required, either to install the system or to make additions to it. All modules are available in sizes to easily accommodate the pallets of any size aircraft.

Through the use of the system, exposure of both cargo and ground personnel to inclement weather is minimized. System design conveniently locates the break station at the same commonly used working height as terminal pallets used to accept arriving shipments.

Movements of all cargo pallets are controlled by one operator at a centrally located panel. Using the semi-automated control system, the operator has constant control over pallet movement. The operator selects and engages the control unit a pallet arrives at a particular break station. As an option, a fully automatic system is available in which the operator merely selects the station and the pallet is automatically conveyed to that station regardless of its position and location. A comparable computerized system is also available.

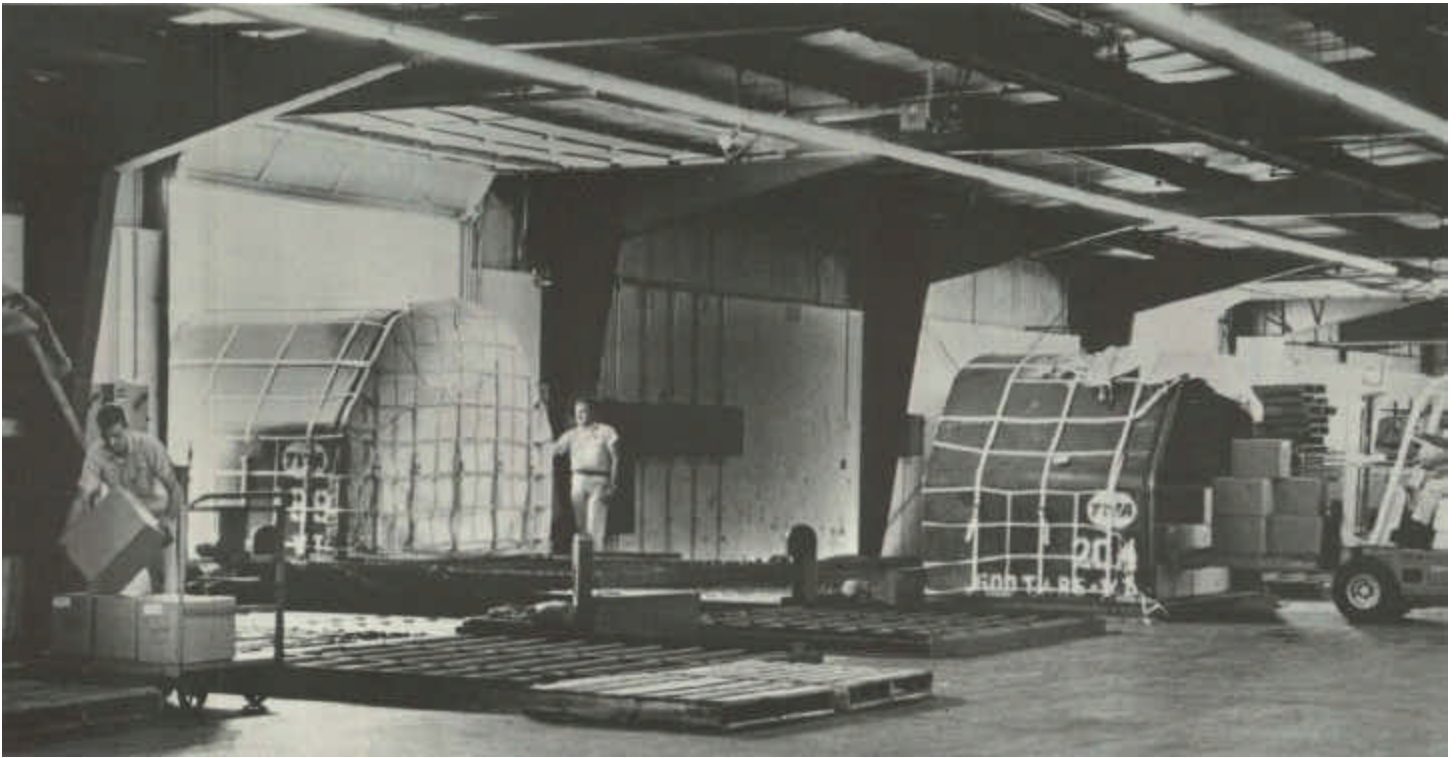
A 13,700 lb. Load of air cargo rolls by gravity slowly, safely on four standard Palletflo rails.



# LOW PROFILE PALLET SYSTEM

the  
automated  
terminal  
cargo  
system

**KORNYLAK** - Palletflo® Gravity Conveyors



## One Man Control Organizes and Speeds Cargo From Aircraft To Customer With The Low Profile Pallet System

### KORNYLAK PALLETFLO® OPTIONS

**PALLETFLO POWERAIL — A HIGH SPEED  
POWERED CONVEYOR FOR HANDLING HEAVY  
PALLETS**

Powerail has a compact sectional construction that permits easy extension, shortening, modification or reuse in other applications. Powerail moves pallets smoothly and quietly at speeds up to 300 fpm on inclines up to 20°

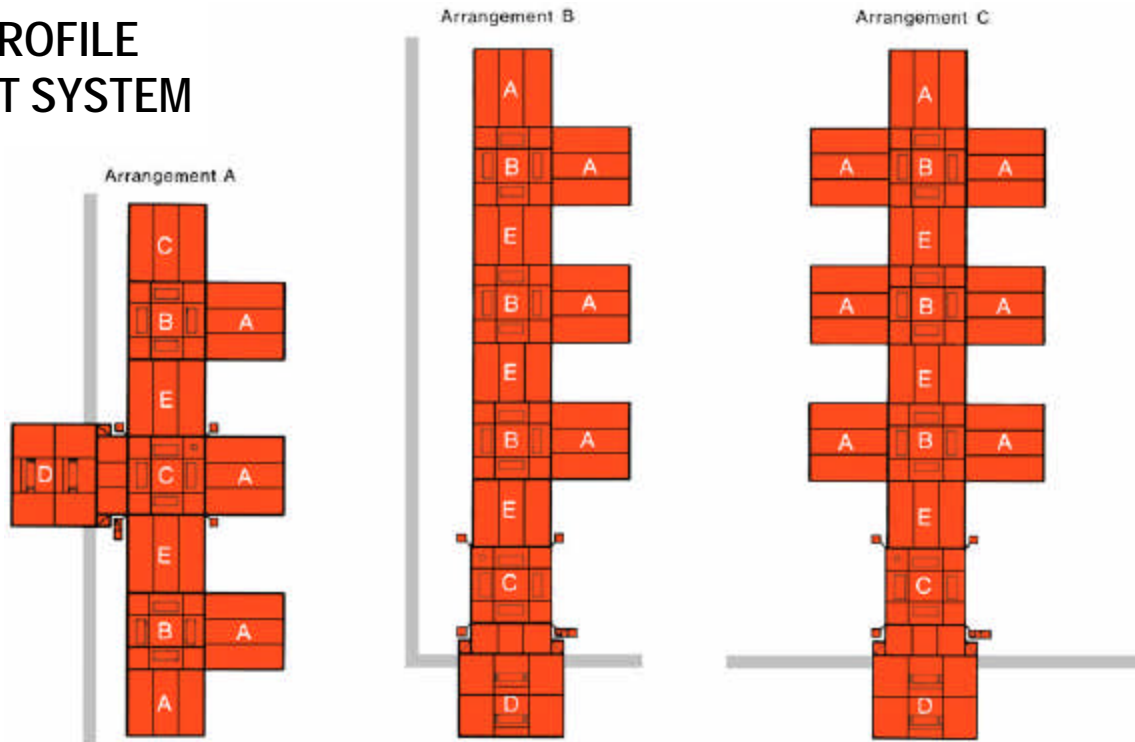
Hold/Flo version of Palletflo combines Powerails with non-powered Palletflo rails for high speed conveying and accumulation and controlled speed gravity flow.

**GRAVITY PALLETFLO — PROVIDES SAFE,  
CONTROLLED SPEED AND GENTLE STOP  
WITHOUT BREAKS OR POWERED DEVICES**

The secret of Kornylak Palletflo's success in handling heavy loads of palletized air cargo is hysteresis - an inherent property of the special, free-turning wheels.

The elastomer tire on each Palletflo wheel absorbs kinetic energy from the moving pallet. This continuous absorption of energy ("hysteresis") assures safe, controlled pallet speed and a gentle stop at the end of the line - without brakes or powered devices. And there is no scuffing, abrasion or denting of the pallet bottom in normal service.

# LOW PROFILE PALLET SYSTEM



## DIMENSIONS

- A - Make/Break Station .....std. 9' x 11' x 4 3/4" - opt. 11' x 11' x 4 3/4"
- B - Transfer Mat.....std. 9' x 11' x 4 3/4" - opt. 11' x 11' x 4 3/4"
- C - Elevator with Transfer Mat .....std. 6' x 11' x 4 3/4" - opt. 11' x 11' x 4 3/4"
- D - Loading & Pallet Orientation Bridge ..... std. 20" height
- E - Spacer, Roller Conveyor ..... std. 11" width 4 3/4" height - variable length

Modular components of the Low Profile Pallet System allow virtually unlimited floor arrangements to suite the space, cargo flow, and work load expected. The system can grow, too, as terminal cargo volume increases.

Arrangement A above can be extended as far as terminal space permits; it is designed to run along a terminal wall.

Arrangement B above can extend from a corner of the warehouse along one wall as far as space and work load requirements permit.

Arrangement C above is designed to project straight into the warehouse; it provides pallet make/break stations on both sides of the "main line" for greatest cargo capacity in limited space.

## SPECIFICATIONS

- Payload, maximum per module..... 12,000 pounds
- Lift mechanism ..... steel cable, take up reel
- Control panel..... fully, or semi-automated
- Lifting/lowering speed, maximum ..... 25 ft./min. variable
- Power..... electro-hydraulic
- Conveyor travel, maximum ..... 100 feet/min.

The Low Profile Cargo System is one component of the total Kornylak cargo handling system. The total system includes powered and non-powered conveyor track sections, belt loaders, cargo lifts, and other components to provide a fully-automated cargo handling facility which can be tailored to specific site requirements.

*In accordance with our established policy of constant improvement, we reserve the right to amend these specifications at any time without notice.*

*The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied, and particularly make no warranty of suitability for any particular purpose.*

**CARGO SYSTEMS**  
**KORNYLAK** CORPORATION

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