

Model 47

STANDARD SPECIFICATIONS:



Model 47 - Roll-to-Roll Chain Driven Zero Pressure Accumulating Conveyor

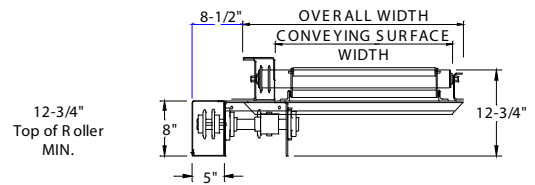
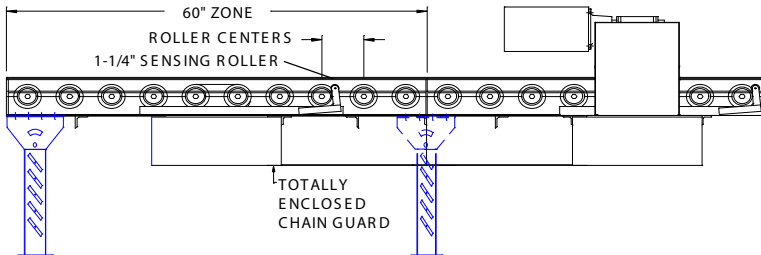
OPTIONAL EQUIPMENT:

- Motors: 1 horsepower.
- Additional Zone Adjustable Time Delay: Necessary when zones other than tail sections are to be used for unloading.
- Variable Time Delay: Can be easily installed in tail section.
- Guard Rails: See accessories section of this brochure for more details.
- Paint: Special colors, powder coat.
- Electrical Controls: 115 V., double solenoid pneumatic valve.

Roll-To-Roll Chain Driven Zero Pressure Accumulating Conveyors

Length:	10' increments.
Zone Length:	5'
Overall Widths:	40-1/2", 42-1/2", 48-1/2", 54-1/2", 60-1/2"
Between Frame Widths:	37", 39", 45", 51", 57"
Conveying Surface Widths:	34", 36", 42", 48", 54"
Rollers:	2-1/2" in. dia. x 11 ga. unplated rollers. Set high.
Roller Centers:	4", 5", 6"
Frame:	4" @ 5.4# and 6" @ 8.2# painted structural steel channel frame. Top of roller is 3/8" above top of 4" channel.
Drive:	Side mounted at discharge end.
Drive Chain:	#40 roll-to-roll and #60 zone-to-zone.
Chain Guard:	Totally enclosed for increased safety.
Air Requirements:	60 PSI.
Bearings:	Heavy duty grease-packed labyrinth sealed ball bearings.
Accumulating:	"Zone Control Zero Pressure." The 1-1/4" sensing rollers actuate a 3-way pneumatic valve cylinder and mechanical clutch.
Motor:	3/4 HP, 230/460 V., 3 phase, totally enclosed C-faced.
Speed:	Constant 30 FPM.
Speed Reduction:	Sealed worm gear C-faced speed reducer.
Paint:	Uniflo Dark Blue.
Supports:	15" - 18" measuring from floor to top of roller.
Capacity:	1000 lb./ft. live load, 4000 lbs. maximum unit load.

STANDARD SPECIFICATION DRAWINGS:



OPERATION: The conveyor consists of standard accumulating zones 5 ft. long. Each zone is powered from a main drive chain through a mechanical clutch. When the pallet reaches the discharge end of the conveyor, it depresses a sensing roller signaling the clutch to disengage, thus sending a signal to the trailing zone. When the next pallet moves into this zone, the drive is disengaged and the pallet stops. This sequence will continue until the conveyor is loaded. When any pallet is removed, all others behind this zone will move forward in sequence.

CONVEYOR WEIGHTS:

(10' Section with Drive)
Weights calculated on 5" Roller Centers, #40 chain.

Conveying Surface Widths	34"	36"	42"	48"	54"
10' Section (Weight)	866#	891#	965#	1040#	1114#
Per Foot Less Drive (Weight)	81#	83#	91#	98#	106#

HORSEPOWER CAPACITY:

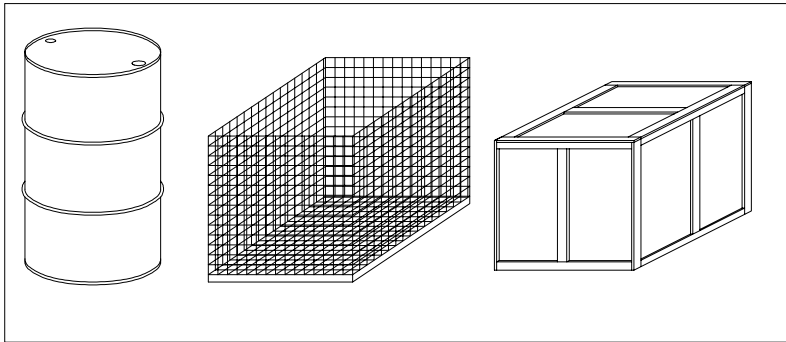
Conveying Surface Widths		34"		36"		42"		48"		54"	
HP		3/4	1	3/4	1	3/4	1	3/4	1	3/4	1
Nominal Length	10'	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	20'	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	30'	880	1000	878	1000	871	1000	864	1000	856	1000
	40'	626	919	624	916	616	909	609	902	602	895
	50'	386	705	384	703	376	696	369	688	362	681
	60'	307	566	305	564	297	556	290	549	283	542

*Chart based on 5" roller centers, 5' zone length, 30 FPM, and conveyor with center drive.

Several types and configurations of loads can be successfully conveyed on conventional Uniflo Technologies heavy duty conveyor equipment. General descriptions of some of these types of loads are listed below. Following each description is the suggested Uniflo Technologies equipment that is, under general conditions, appropriate to handle these types of loads.

1. Unit Loads

Individual unit loads such as cartons, boxes, tote boxes, drums, and containerized loads. (See Figure 1)



Suggested Equipment

All Uniflo models, except the Model 46 Chain Conveyor, can be applied. The most efficient application for transportation would be Models 48/49. The use of Models 58/59 (straight roller curves) should be restricted to applications where load orientation is not important, such as drum handling. Both in-the-frame and through-the-frame transfers and turntables can be applied. (See Transfers and Turntables Brochure for more details.)

2. Unitized Loads

Groups, stacks and/or patterned layers of unit loads. (See Figure 2)

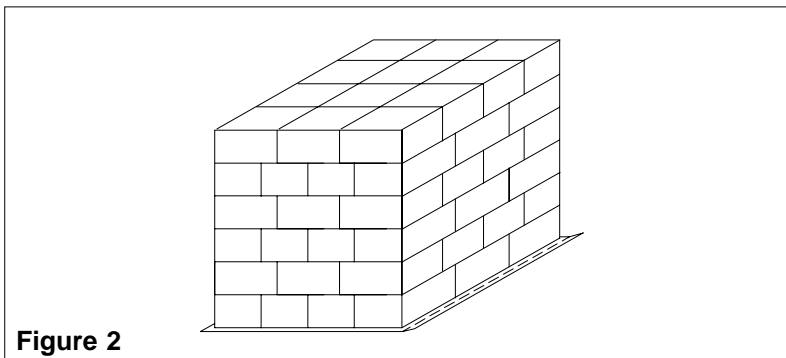


Figure 2

Suggested Equipment

Unless the unit size is very large, the unitized loads should be on a pull sheet. Models 47, 48/49, and 68/69 can be applied when close roll centers are specified. If less than 4" roll centers are required for Models 48/49 and 68/69, it will be necessary to have roll-to-roll chain drives on both sides of the conveyor. This will require a chain box on each side of the conveyor, thus limiting access for loading/unloading and narrowing the effective width of the conveyor.

3. Pallet Loads

Unitized loads or single large unit loads on pallets or plywood sheets. (See Figure 3)

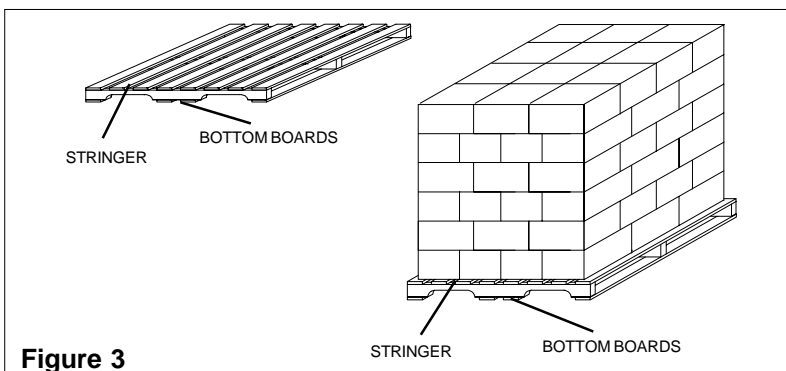


Figure 3

Suggested Equipment

All Uniflo Technologies models can be applied when pallets are in good condition and have bottom boards that are parallel to the direction of travel. In the absence of bottom boards, the pallet stringers must be in the direction of travel. When the bottom boards are at right angles to the direction of flow, Uniflo Technologies Model 46 is preferred. When conveying loads on plywood sheets (sometimes referred to as slave pallets), all Uniflo Technologies models can be applied.