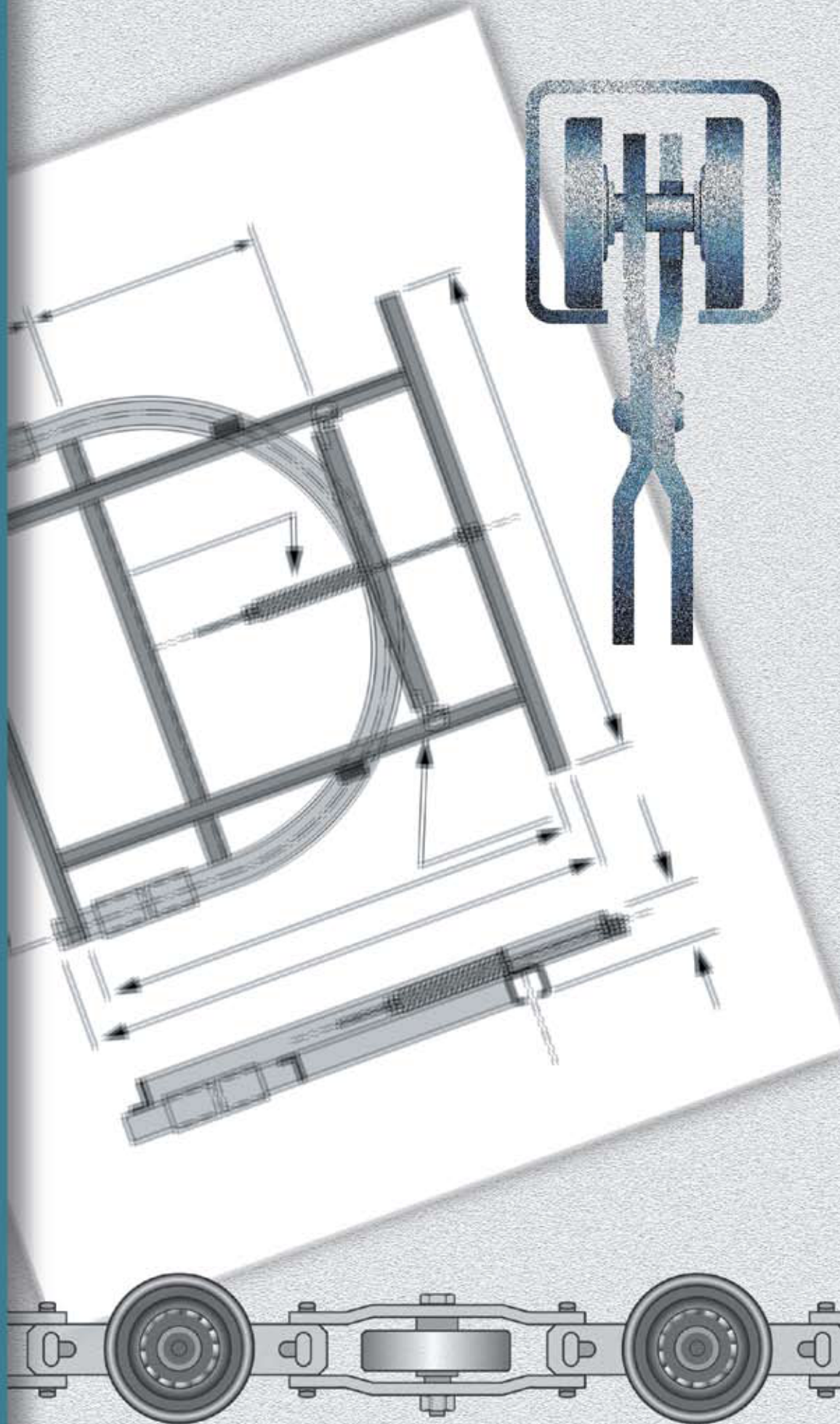




**8500 SERIES  
POWER & FREE  
CONVEYORS**



January, 2009

Founded in 1958 in Pickering, Ontario, Allied Conveyors Limited established a reputation as an industry leader in the design, manufacture and installation of premium quality materials handling systems. Recently acquired by interests in the United States, the company now operates under the name Allied Conveyor Systems, Inc. and proudly continues the 50 year old company traditions from Statham, Georgia.

We offer a wide variety of overhead conveyors that are suitable for various applications, from paint finish and processing, to in-line and flexible assembly operations in the automotive, electronic, agriculture, and many other industries. Our conveyors have also established a strong presence for distribution and warehousing applications.



This catalog illustrates the various Allied 8500 Series Components available for use in making up a conveyor system. Allied Conveyor Systems, Inc. disclaims all responsibility for any equipment or system, malfunction, violation of law, property damage, personal injury or any damages resulting from the equipment selection, design, installation or operation carried out by a contractor.

# AC 8500 SERIES POWER & FREE

## ENCLOSED TRACK POWER AND FREE:

Developed from the Overhead Enclosed Track, the continuous Powered Conveyor provides single load carrying capabilities.

This system in the 750-pound load category offers a predictable and positively powered system, with "on-line" accumulation capability.

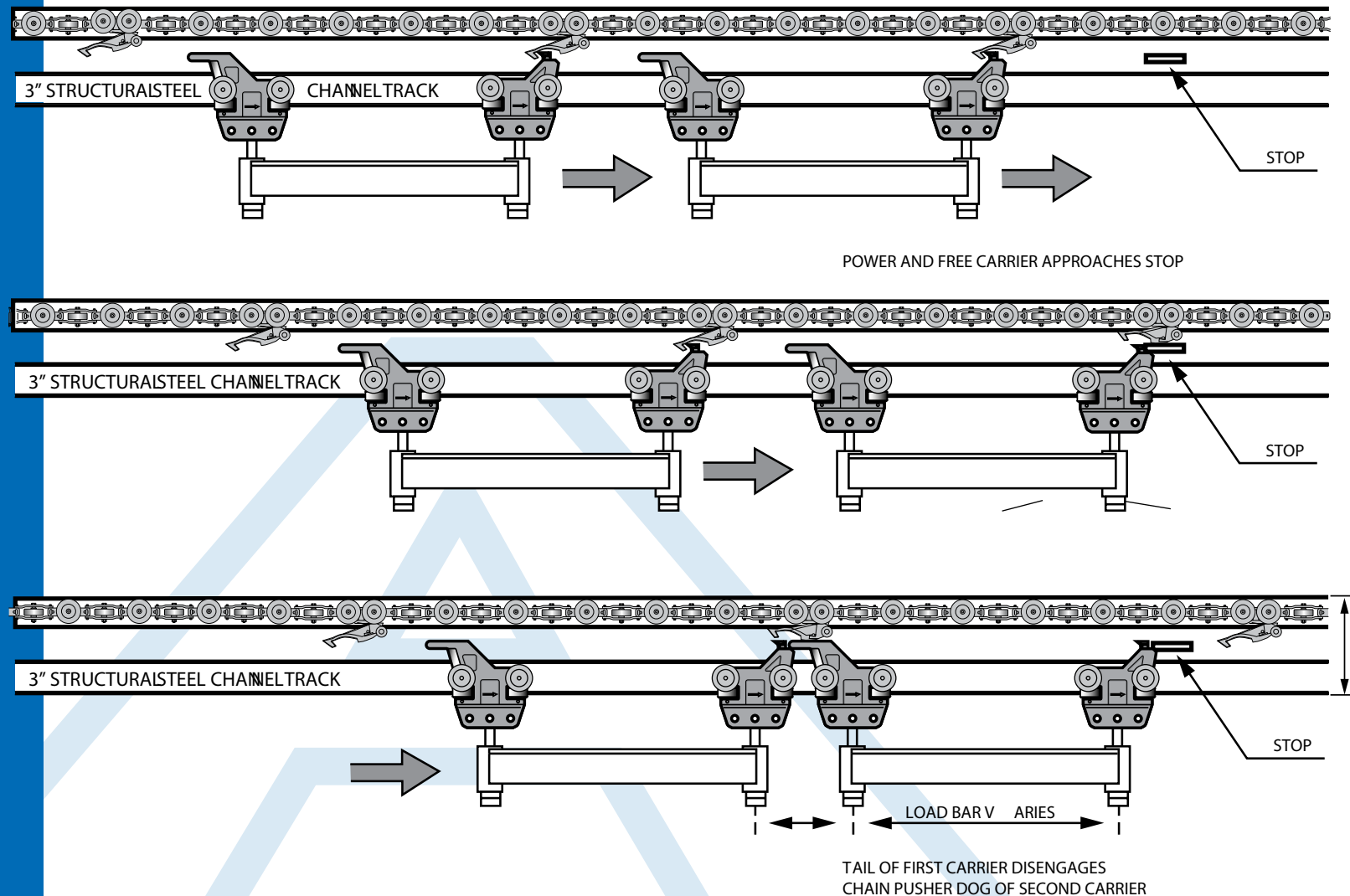
The AC 8500 Series is a system that will solve both simple and complex handing problems. With this system, it is possible to interconnect many operations within a plant, yet accommodate specific local process variations. The AC 8500 Series is readily adaptable to computerized operation, which allows precise control throughout the entire system.

## ACCUMULATED:

Carriers are stopped at desired work stations when a worker activates one of several types of stops. The mechanism, which can be manually or pneumatically powered, slides into place between the power and free tracks. When one carrier is stopped, all following carriers automatically accumulate behind. As pusher dogs come into contact with the tail on the rear stationary trolley, the tail elevates the pusher dog, which then pivots on the power chain, disconnecting it from the free trolley. All accumulated trolleys are then bypassed by the pusher dogs.

## TRACK:

This system incorporates standard track for the power chain and two 3" C-1045 high carbon structural steel channels for the free track.



## ENCLOSED TRACK POWER & FREE

### SWITCHING:

The ability to route carriers smoothly and efficiently to predetermined destinations through a network of spurs and loops provides valuable flexibility in production schedule, inspection, repair, painting and shipping functions. Switching can be accomplished through the use of either automatic or manually-operated switches.

### PUSHER DOG:

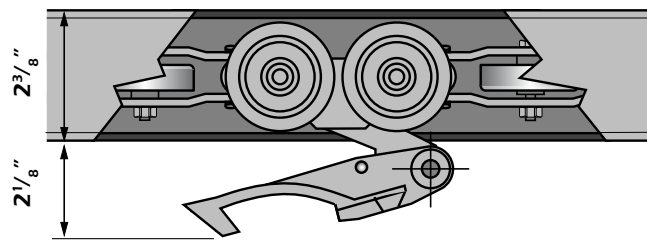
Drive power is transmitted to the free trolley by pusher dogs linked to the power chain that runs in the upper track. The pivoted connector on the dog remains engaged to a trolley until it strikes the tail on a stopped trailing trolley. The connector then pivots up, disengaging the dog from the leading trolley and permitting the trolleys to come to a stop at an accumulation point.

### LEADING TROLLEY & TRAILING TROLLEY:

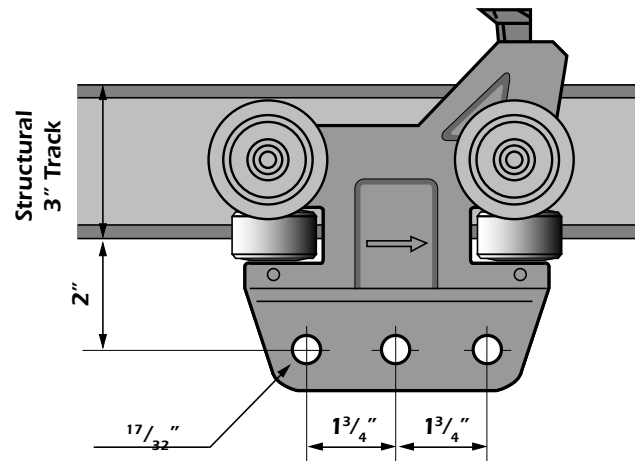
In the Allied AC 8500 system, carriers are suspended from trolleys running in the free track made up of two 3" structural channels. The trolleys run on ball bearing wheels with hardened races for long life and trouble-free operation. Normally, two trolleys – a leading trolley and a trailing trolley, connected by a load bar – will support each carrier. Pusher dogs connected to the power chain engage with the leading trolley to move the load. During accumulation, the tail on the trailing trolley lifts the pusher dogs, disengaging them from the trolleys and permitting the remainder of the conveyor system to continue operating without interference.

### COMBINATION TROLLEY:

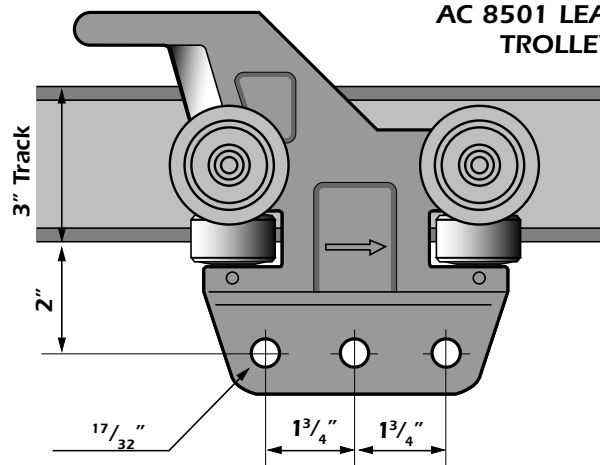
The Combination Trolley is available for smaller parts that require less than 8" of accumulation. This special trolley eliminates the need for a two-trolley arrangement with a load bar and associated hardware.



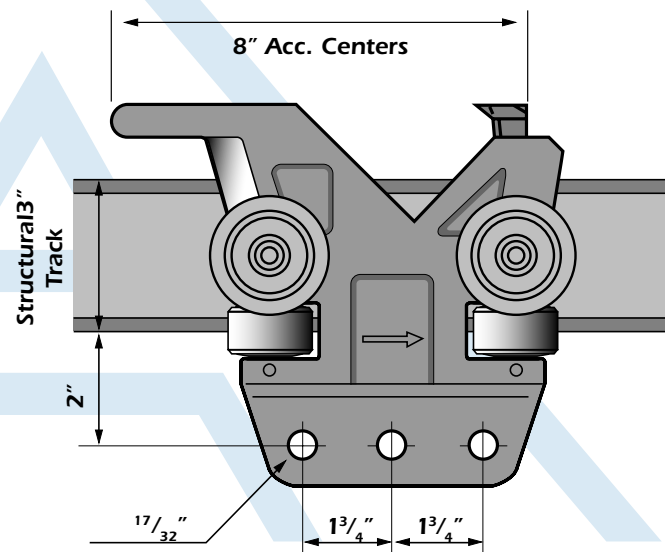
AC 8500 PUSHER DOG



AC 8501 LEADING TROLLEY



AC 8502 TRAILING TROLLEY



AC 8503 COMBINATION TROLLEY



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