



Technical & Applications Manual

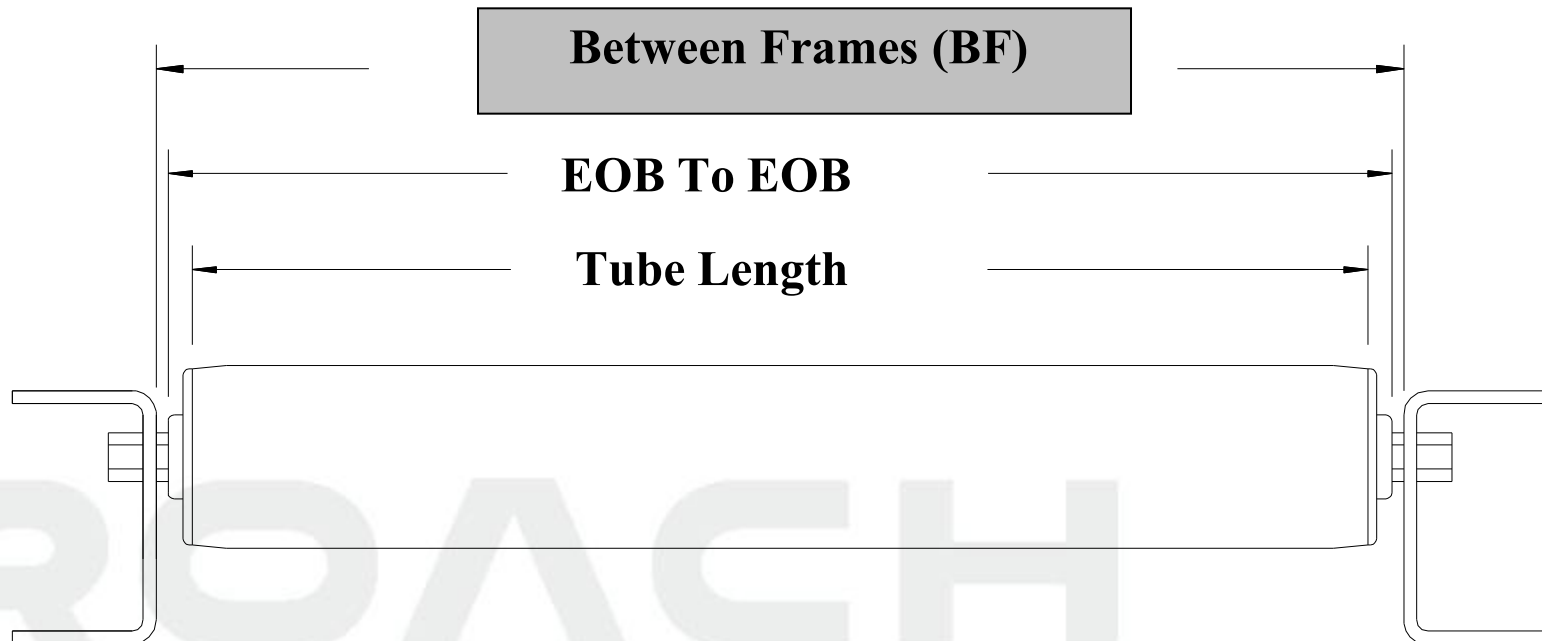
Common Terms

& Glossary

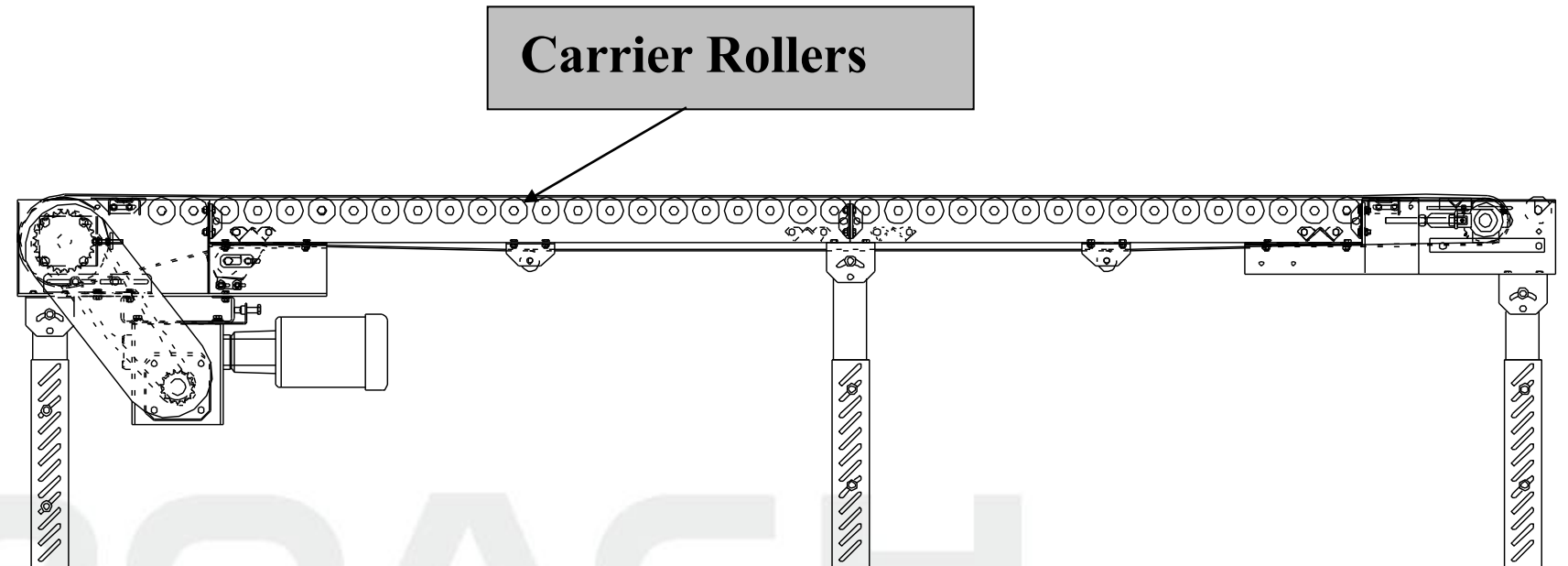
ROACH

COMMON TERMS

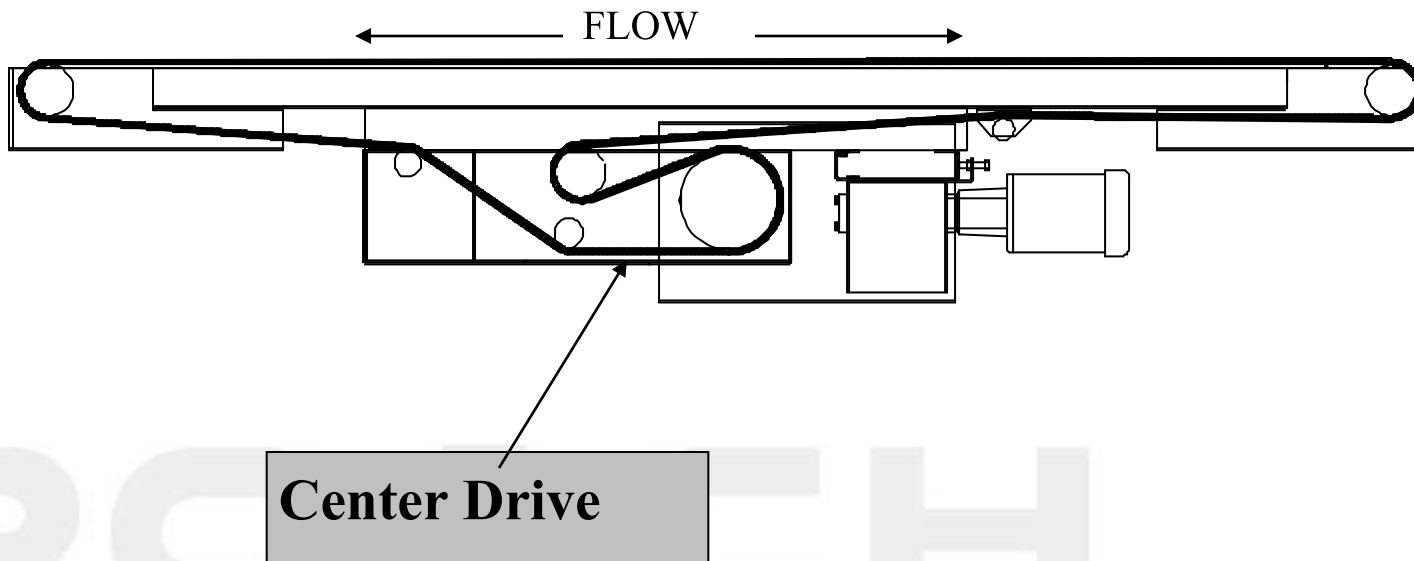
- BF: Between Frames**; also known as B/B (back-to-back) and B/R (between rails). Simply stated, the measurement inside the conveyor frame.



CARRIER ROLLERS: Conveyor rollers upon which the conveyor belt is supported (i.e. applies to roller bed belt conveyors).



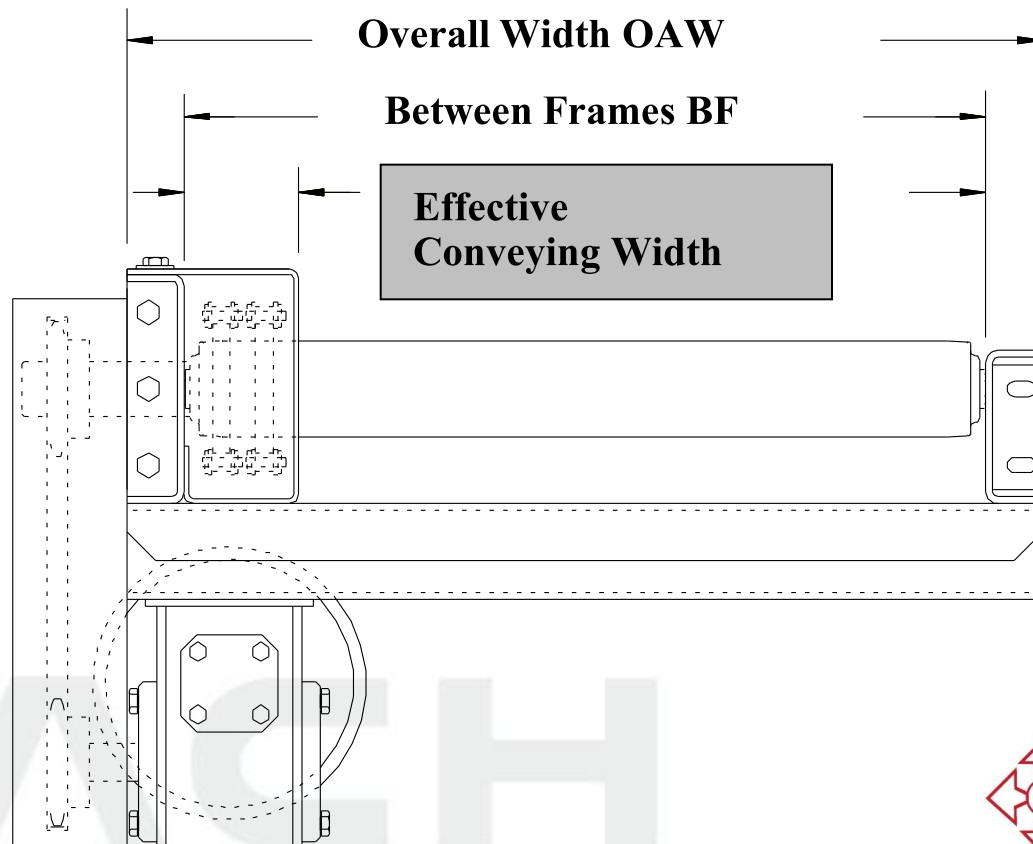
CENTER DRIVE: Located near center of conveyor. Center drives are used when an application requires reversible unit operation or on very long conveyors for additional belt take-up.



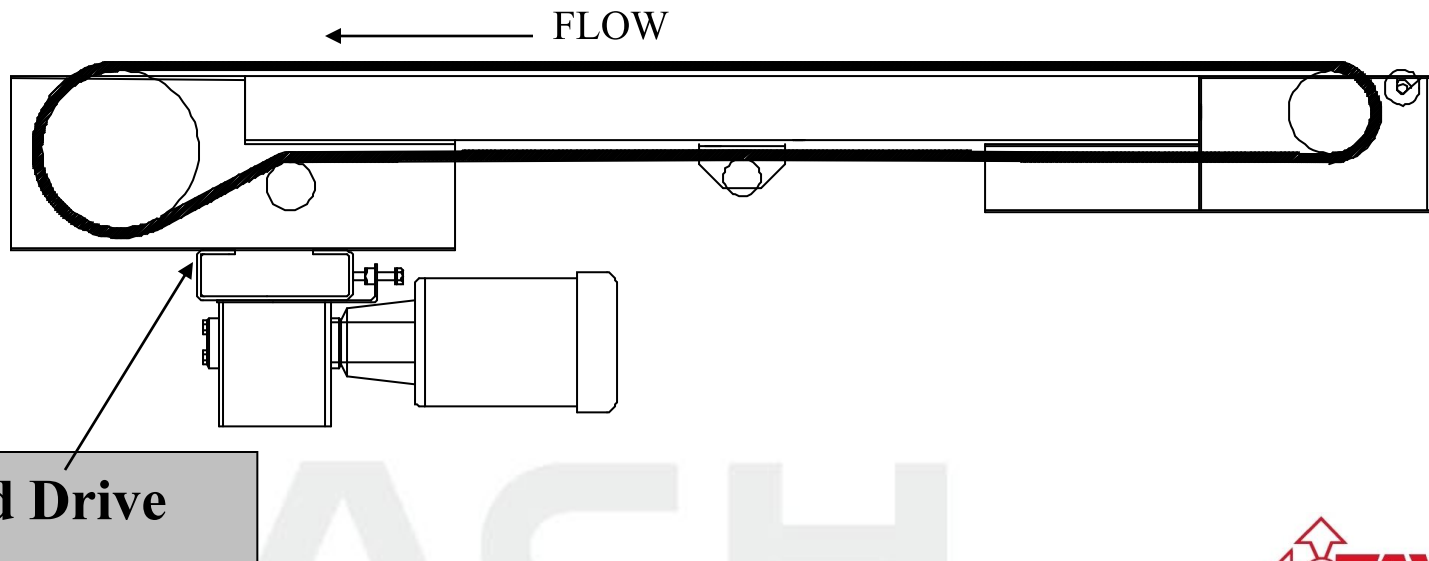
EFFECTIVE CONVEYING WIDTH: Dimension between side rail and inside roller guard/cover, which is also referred to as "clear" or "conveying surface"

(i.e. applies to
chain driven

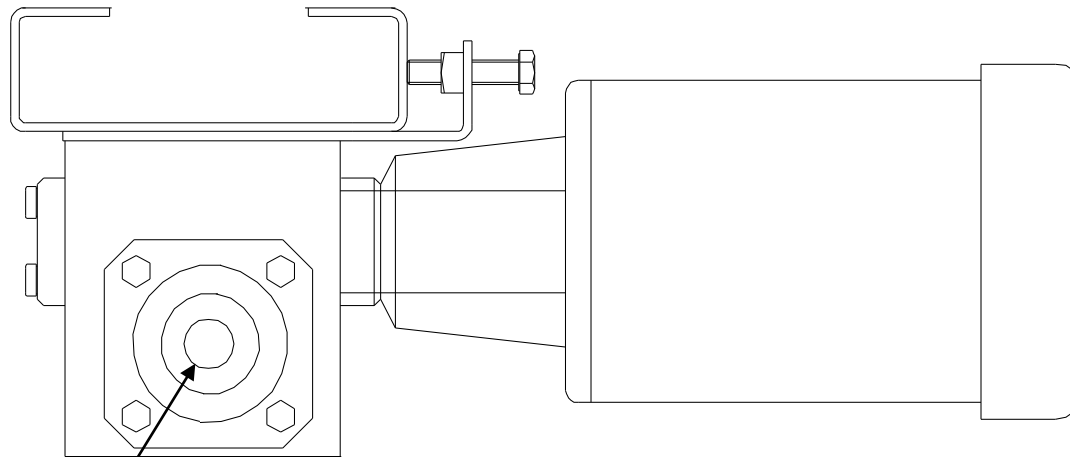
live rollers.)



END DRIVE: Motor and drive components are located at end of conveyor. Drive should be located so that drive or carrier belts are pulled--not pushed. End drives are used when one-direction-only operation is required.

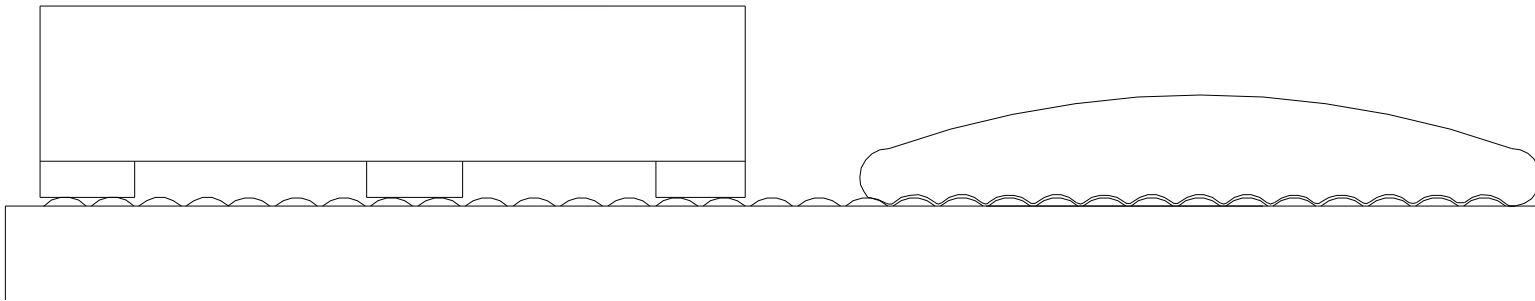


GEAR MOTOR: A motor and speed reducer combination where each is flanged for connection to one another and have one output shaft.

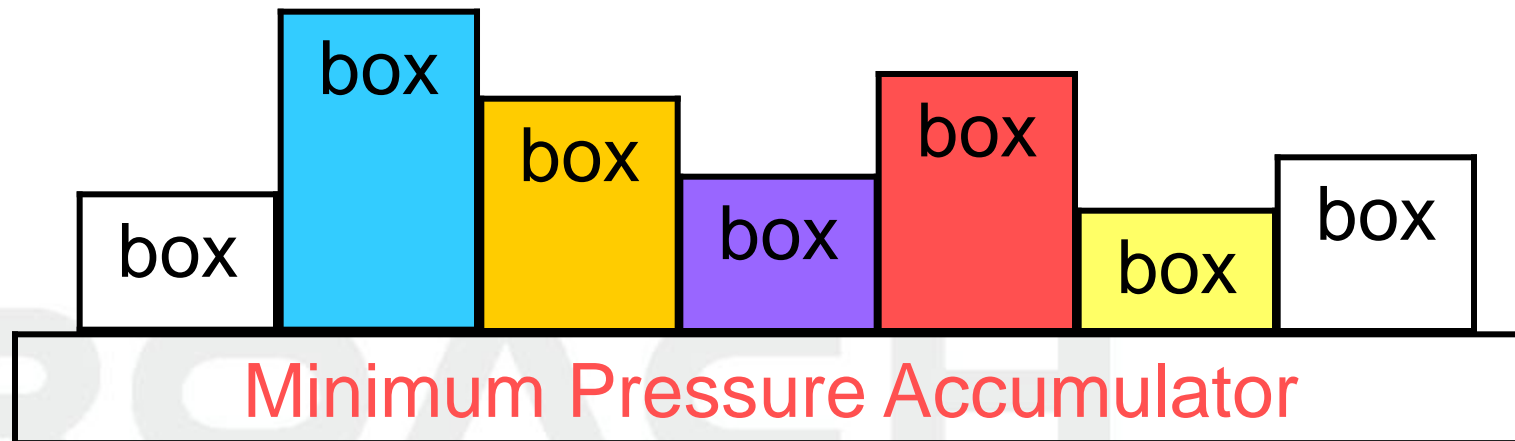


Output Shaft

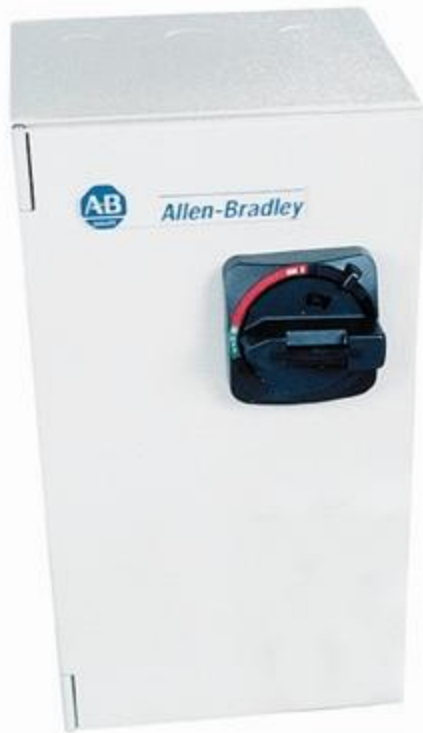
LIVE LOAD: The weight of material being moved.



MINIMUM PRESSURE ACCUMULATION CONVEYOR: A type of conveyor designed to minimize build-up of pressure between adjacent packages or cartons. Designed to prevent damaging line pressure which can damage or “crush” packages during accumulation.



MOTOR STARTER: An electrical controller for accelerating a motor from rest to normal speed.



Combination Starter



Manual Starter



MOTORS:

ODP (open drip proof) = Roach std

TEFC (totally enclosed fan cooled)

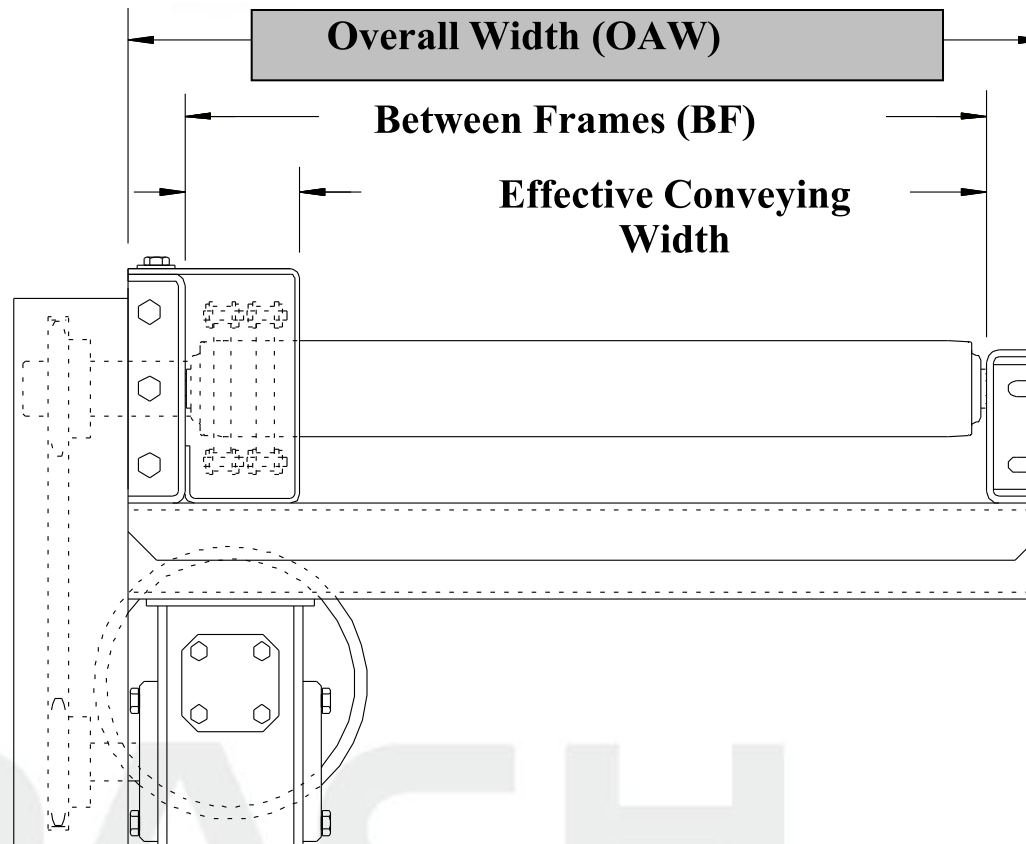
comprises over 40% of Roach motors sold

TENV (totally enclosed non ventilated)

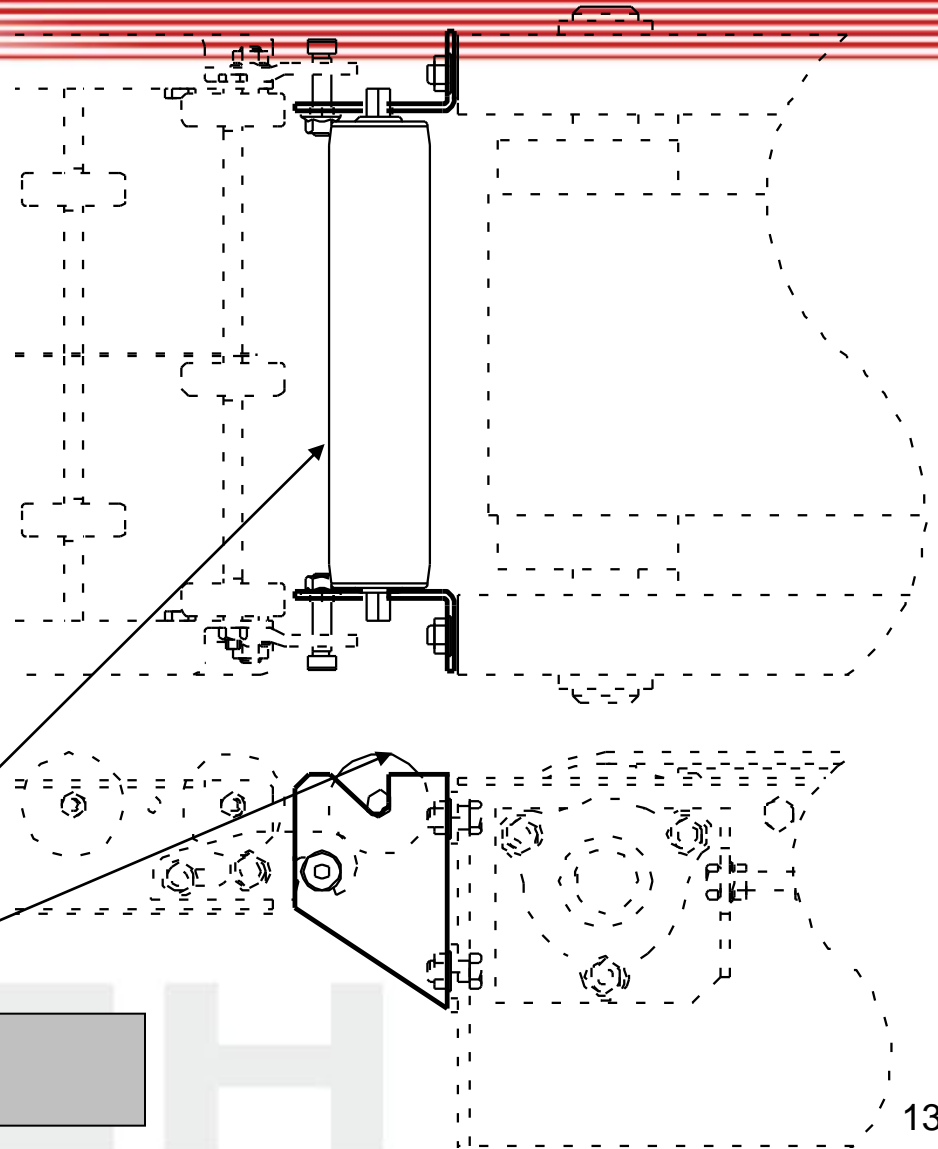
DC (shunt wound)

Explosion proof (specialty applications)

OAW: Overall width; Frame dimension measured to the outside of conveyor frame.

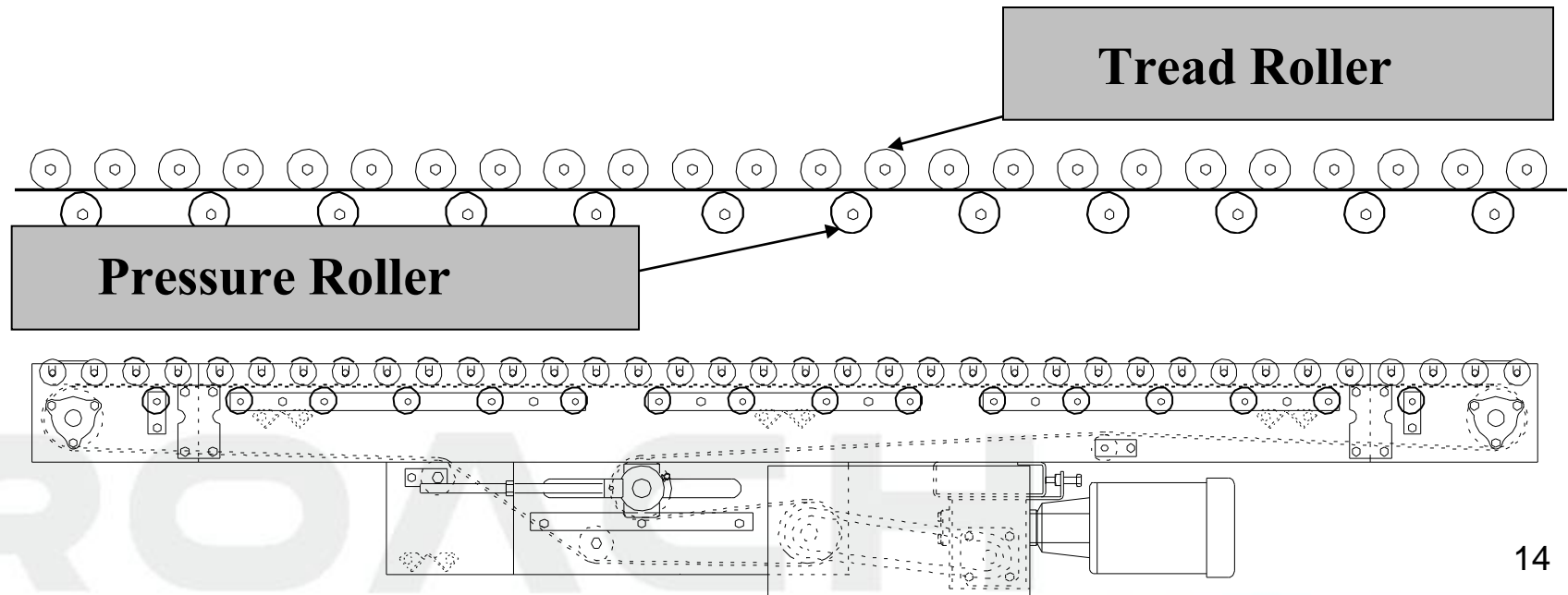


POP-OUT ROLLER: A special load carrying roller mounted in such a manner as to pop out when foreign objects are introduced between the belt and roller.

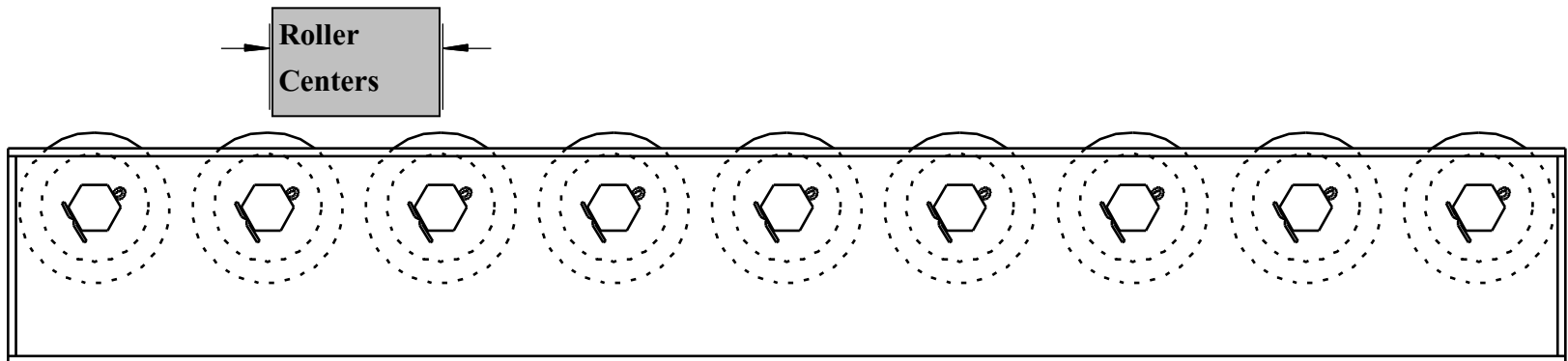


Pop-Out Roller

PRESSURE ROLLER: Roller used for holding the driving belt in contact with the load carrying rollers in a belt driven live roller. There are one-half as many pressure rollers as tread rollers. Note: In many units, pressure rollers are lighter duty than the tread rollers.



RC: Roller Centers; Distance between center lines of adjacent rollers. Common measurements are 1-1/2", 3", 4-1/2", 6", 8", 9" and 12".



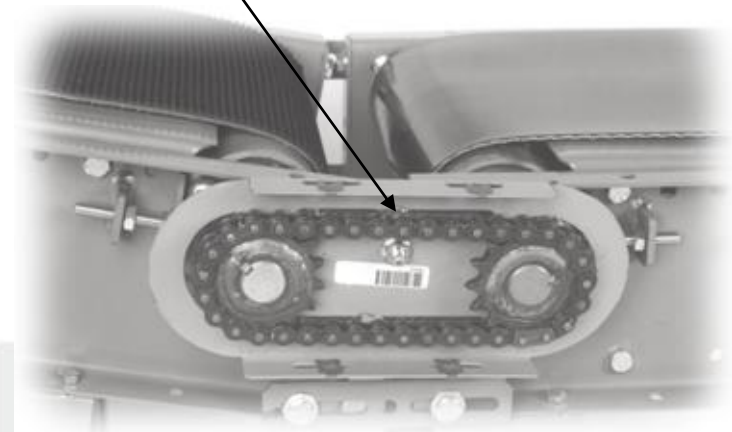
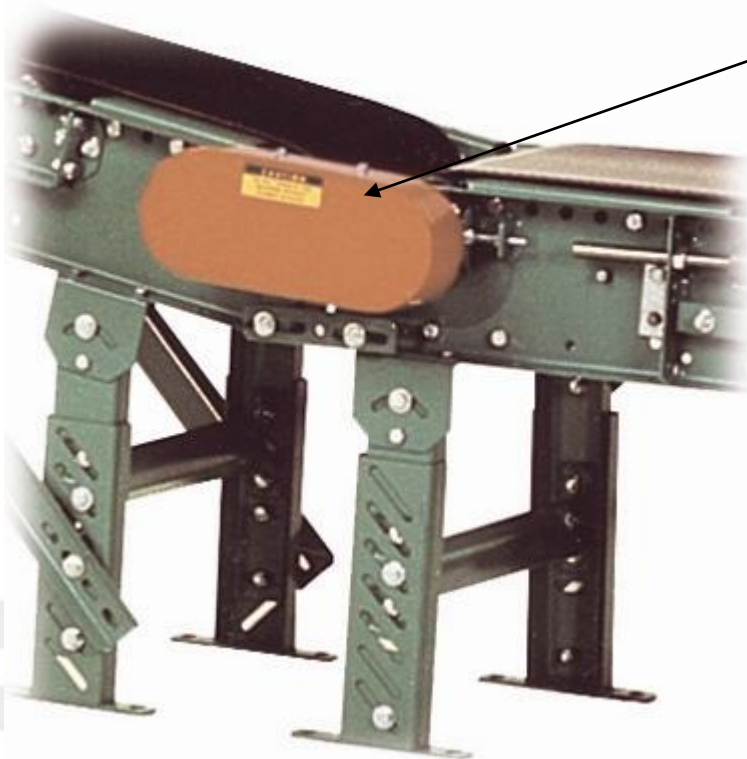
Note: For curves, roller centers are measured at inside radius of curve, except for chain driven live roller curves, which are measured at outside radius.

Return Rollers: Mounted underneath conveyor to support the return run of belt. Proper alignment or “squaring” of return rollers is a crucial element in maintaining proper belt tracking. May also be referred to as idler rollers.

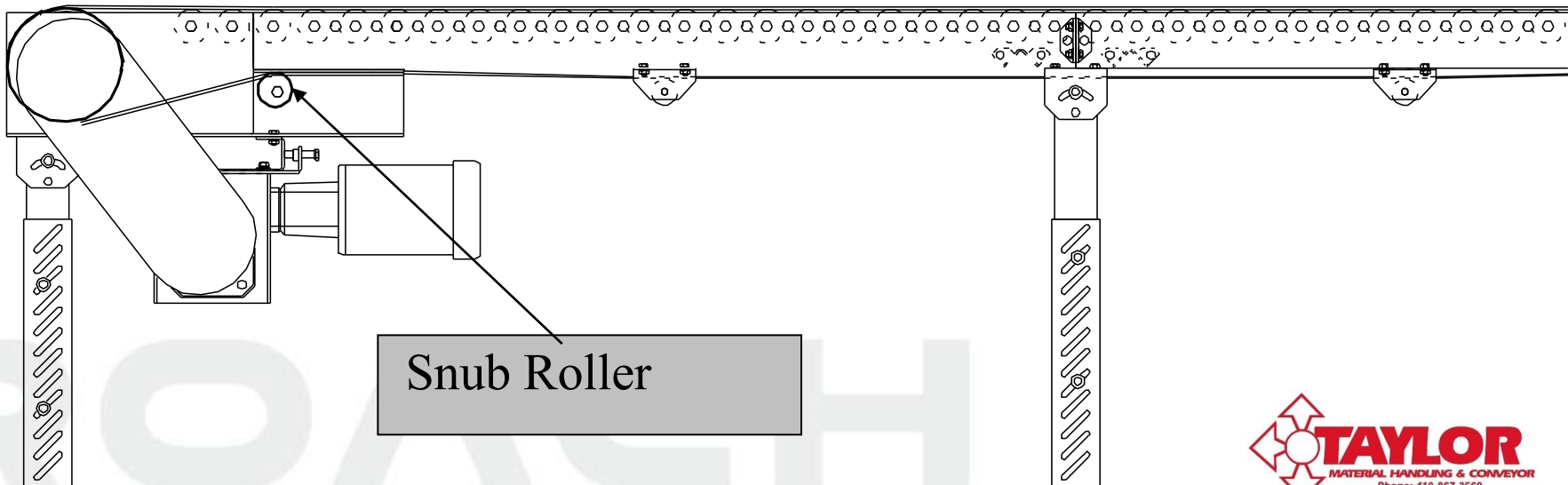


Slave Drive: A conveyor drive method where one conveyor is powered by another conveyor instead of having its own prime power source.

Slave Drive Assembly



Snub Roller/Snub Pulley: Any roller or pulley used to increase the arc of contact between a belt and drive or tail pulley. Note: A drive or tail pulley should not be confused with a sheave. Sheaves are designed for V-belts and pulleys are designed for use with flat belts.





Common Terms & Glossary

TRACKING: The process of adjusting return (or idler) rollers, pulleys and loading conditions in a manner which will correct any tendency of the belt to run other than centrally.

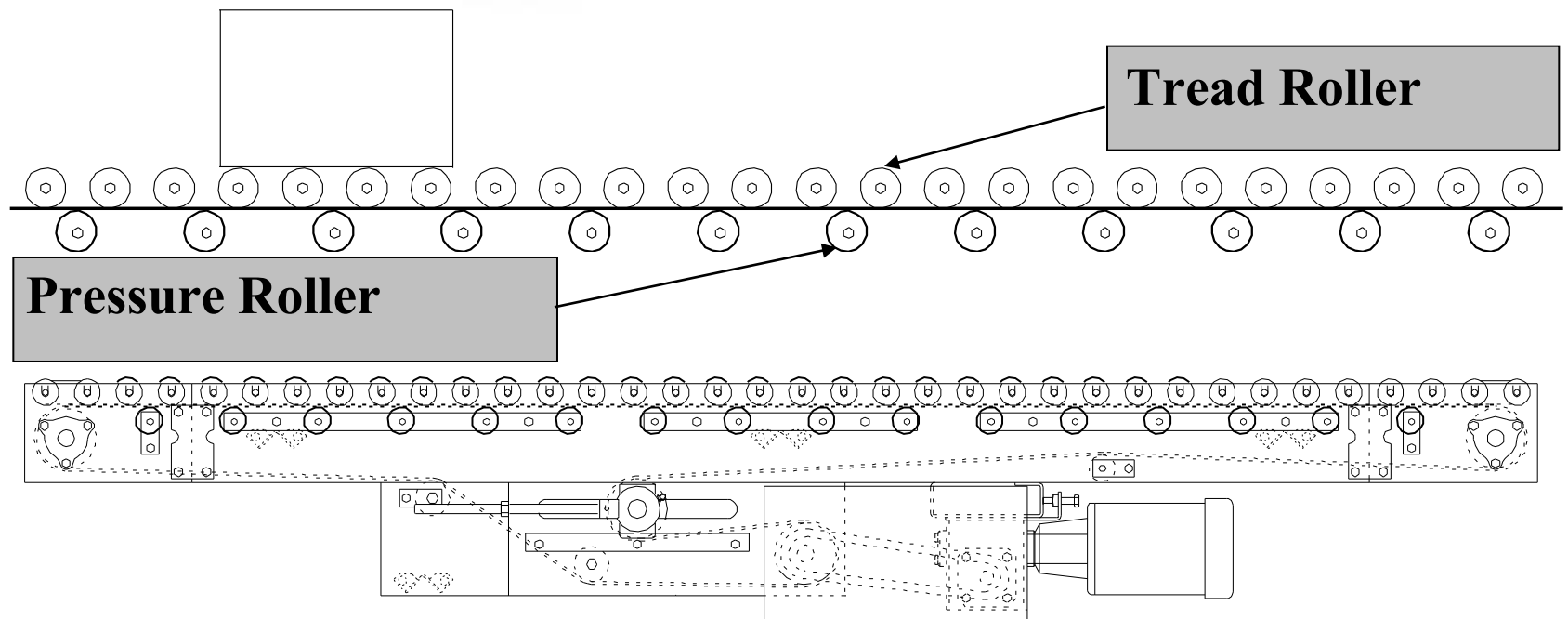
ROACH

TRANSFER: Any device that transfers objects onto or off of a conveyor line or from one conveyor line to another.



Transfer

TREAD ROLLER: The uppermost roller which comes in contact with the product conveyed.



ZERO PRESSURE ACCUMULATION

CONVEYOR: A type of conveyor designed to eliminate build-up of pressure between adjacent packages or cartons.

