

APPLICATION

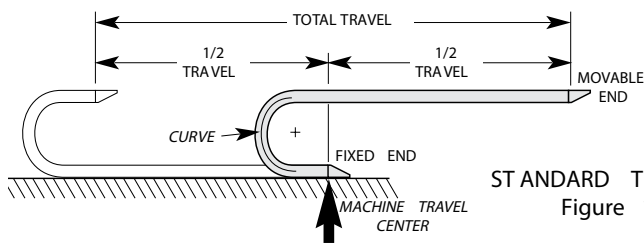
<p>MOVABLE END FIXED END SUPPORT STANDARD</p>	<p>Most common arrangement. Fixed end is below and located at midpoint of machine travel and PowerT ube carrier is supported on bottom.</p> <p>APPLICATION 1</p>	<p>MOVABLE END FIXED END</p>	<p>Combination of both vertical and horizontal motions. Supports are required to protect against sharp bends to PowerT ube.</p> <p>APPLICATION 4</p>
<p>MOVABLE END FIXED END SUPPORT OPPOSED</p>	<p>Two PowerT ube carriers operating opposed in respect to each other. NOTE: Both carriers must be same length.</p> <p>APPLICATION 2</p>	<p>COMBINATION TRAVEL</p> <p>SUPPORT MOVABLE END FIXED END VERTICAL-LOOP UP</p>	<p>Vertical travel with loop up.</p> <p>APPLICATION 5</p>
<p>FIXED END MOVABLE END SUPPORT STANDARD</p>	<p>Opposite of arrangement (1) in that movable end is below fixed end. Support must be 1/2 length machine travel.</p> <p>APPLICATION 3</p>	<p>MOVABLE END FIXED END SUPPORT VERTICAL-LOOP DOWN</p>	<p>Vertical travel with loop down.</p> <p>APPLICATION 6</p>

ORDERING POWERTUBE

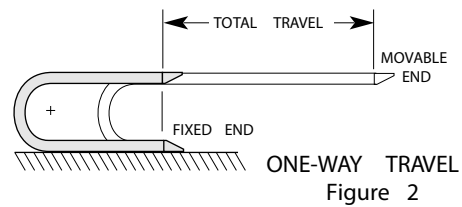
- Determine the PowerTube model best suited to your application based on window size and bending radius.
 - Lay the cables and hoses to be carried side-by-side in a single layer (multiple layers are not recommended). Select a PowerTube size (see dimensional drawings inside) which has a inside opening (window) at least 20% wider than your cable hose bundle or 20% higher than the diameter of the largest cable or hose.
 - Choose a PowerTube with radius equal to or greater than the *largest* minimum bending radius of all cables or hoses in your "package" (usually the bend radius of the cable or hose with the largest diameter).
- Compute length to order.

Length to order (feet, rounded up to next 1/2 foot) = distance moving end must travel relative fixed end. + amount of PowerT ube required to form curve ("L" on charts inside). "L" dimension varies with size and radius. Location of FIXED END is important. If fixed end is located in the center of machine travel (Standard T ravel as shown on dimensional drawings inside and Figure 1, below), length of PowerT ube required would equal 1/2 machine total travel + "L". If fixed end is located at end of machine (Figure 2) travel, required length would equal total machine travel + "L".
- Indicate mounting brackets and configuration.

Mounting brackets are NOT included with PowerTube and must be ordered separately. Refer to Bracket Kits (inside) and configuration illustrations below.



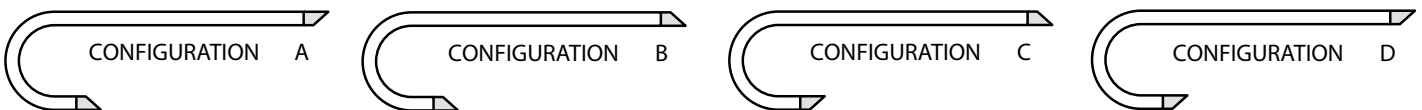
STANDARD TRAVEL
Figure 1



ONE-WAY TRAVEL
Figure 2

MOUNTING CONFIGURATIONS

Mounting configuration must be included as when ordering PowerTube with scoop mounting brackets. Optional top/bottom(TB) style brackets, available on either end of PowerTube, are symmetrical.



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