

Bushing style rollers are ideal for sanitary, rust and corrosion resistance applications in push and gravity conveyors. These bearings are identified by a 5 in the prefix of the part number. Example - 5A8

Load Capacities: Load capacities listed are based upon length of the roller (IF), actual load ratings for the bearing, tube deflection and shaft deflection for the materials listed. Calculations for load capacities of precision bearings allow for $\frac{3}{4}$ of 1 degree of shaft deflection while commercial bearings allow for 1 degree of shaft deflection. ***Shaft deflection will increase as a roller becomes longer and roller loads will decrease substantially as the length of the roller increases. Please note that load capacities listed are for steel shafts. Load ratings for rollers with aluminum shafts must be reduced to 33% of the value listed.***

Roller Length: I.F. = Inside Frame distance. This measurement allows 1/16" of freeplay per side for a total of 1/8" per roller. O.A. = Overall roller length. This is the measurement from bearing hub to bearing hub of the roller. For calculation purposes I.F. - 1/8" = O.A.

Ordering Information:

Our roller numbering system lists the bearing part number first, the tube part number second and the shaft part number last followed by the roller length.

Example 1: Standard Roller

Bearing: ABEC -1 precision bearing in a plastic housing – Double labyrinth seals
Tube: 1.90" outside diameter x .112" wall thickness Hi-Impact PVC tube
Shaft: 7/16" hexagonal carbon steel spring-loaded shaft with 9/16" shaft extensions
Length: Must fit a frame measuring 18" inside frame distance (I.F.)
Max. Load: Roller must be capable of handling a load of 50 lbs. per roller

Solution:

Find the plastic roller page designating 1.90" x .112" – 7/16" Hex - See page 37

Bearing part #: 3A4
Tube part #: H41
Shaft part #: C68
Load per roller: Load capacity chart indicates roller is good up to 83 lbs per roller

Roller Part # - 3A4.H41.C68 x 18" I.F.

Example 2: Rollers with Options – (Grooves, Special Shaft Lengths or Extensions, etc.)

Solution:

Check Engineering Data section for specific data, information, or drawings. Inquire with Customer Service.