

OWNER'S MANUAL



“ChuteMaster[®]”
Fiberglass Spiral Chute
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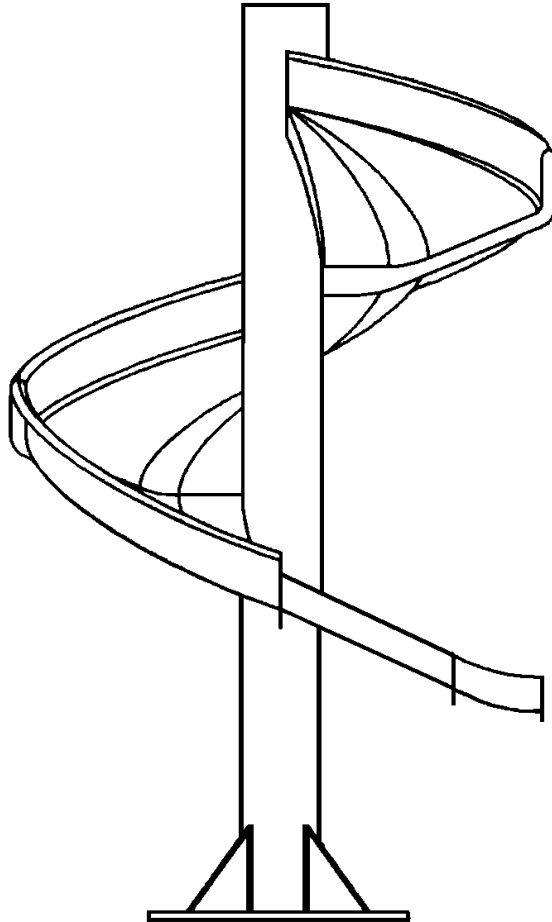
Chute Location: _____
Model Number: _____
Serial Number: _____

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General Description of the Chutemaster Spiral Chute

The Chutemaster is a fiberglass molded component spiral slide, designed to quickly and economically convey products to a lower level. The components are molded from high quality hand-laid fibers and resins coated with a scuff resistant gel-coat. The gel-coat and resins are designed to give years of service with proper use and application. Proper installation, maintenance,, and cleaning will assure that the Chutemaster will continue to provide satisfactory service.



ChuteMaster with straight exit slide and scoop

Installation

- A. Pre-assembled units

Units pre-assembled with a one-piece center pole must be mounted to a solid floor or surface. The steel base/pole assembly contains four leveling jack bolts and anchor bolt holes. The pole must be plumbed and the base anchored with 3/4 inch grade 5 or better bolts (not provided). Units with a multi-piece center pole must have the bottom piece (No. 1) mounted per one-piece center pole units. The upper units, in sequence, must be properly aligned with the lower flange of the upper profile matching the upper flange of the lower profile. The center pole of the upper unit fits over the sleeve of the lower center pole and fastens with 1/2 X 1 inch grade 5 bolts (provided). The profile flanges fasten together with 5/16 X 1-1/4 inch bolts, flat washers, lock washers and nuts (provided). The running surface edges must be aligned with the upper surface slightly higher (water fall effect) than the lower surface. The tolerance for this is 1/16 in. to 1/4 in. (1.6-6.3 mm).

B. Unassembled units

Model CM 51 chutes are the only units that are normally shipped unassembled. Models CM 18, 25 and 35 are shipped unassembled only at customer request. The assembly process is similar for models CM 51, CM 18, CM 25 & CM 35 in that all fiberglass components are mounted directly to a center pole.

B1. Model CM 51 assembly.

For ease of assembly, it is recommended that assembly of the fiberglass components to the center pole be done with the center pole in a horizontal position. Support the ends of the pole solidly on supports high enough for the fiberglass pieces to clear the floor. All fiberglass components have been pre-mounted at the factory and numbered accordingly. Fasten the fiberglass profile components to the center pole, starting with No. 1 at the bottom, using the 3/8-in. predrilled holes and 3/8in. X 1 in. bolts, lock and flat washers (provided). The profile flanges fasten together with 5/16in. X 1-1/4 inch bolts, flat washers, lock washers and nuts (provided), The running surface edges must be aligned with the upper surface slightly higher (waterfall effect) than the lower surface. The tolerance for this is 1/16in. to 1/4 in (1.6-6.3 mm).

It is recommended that the custom fabricated entry slide be mounted after the pole is in the upright position. If this is not possible, attach the entry slide in the proper location to the pole using the hardware provided (same as the profile hardware).

Carefully raise the assembly into an upright position using the eye-hook at the top of the pole. **Do not attach any lifting devices to the fiberglass when lifting the assembly into place.**

Position the assembly in the correct orientation, plumb the pole (using the four leveling jack bolts in the base), and mount the assembly to the floor with 1/4in. grade 5 or better bolts (not provided).

Attach any custom exit components (exit transition, scoop, etc) to either the No. 1 profile or the center pole as required. Be sure that the upper end of the exit pieces are lower (1/16 to ¼ in.) (1.6-6.3 mm) than the bottom edge of the upper component.

Service and Maintenance

The fiberglass chutes are relatively maintenance free. However residue build-up from packaging dust, excess glues etc. will require periodic cleaning to assure that residue build-up does not interfere with product flow. Mineral-based cleaners (solvents, paint thinners, acetone etc.) are acceptable for cleaning. Household detergents are also acceptable, however harsh bleaches and abrasive cleaners will scratch the surface and increase the friction, thus impeding the product flow. Cleaning solutions must be applied with a soft cloth or disposable towel. **Scouring or scratch pads should not be used.** Applying Armor-All brand (or equivalent), silicone or Auto wax will increase product speed and is an acceptable option.

Vibrations from normal use may loosen the attachment bolts. After one month of operation, it is recommended that all fasteners be checked and re-tightened. Annually check the running surface alignment and retighten any loose fasteners

Applications and Use

Portec chutes are manufactured with a scuff resistant Gel-Coat to increase the life expectancy of the fiberglass. However extreme care should be taken to protect the surface from objects with sharp edges or abrasive surfaces. When conveying such objects it is recommended that they be placed in a plastic or other type protective container prior to entry onto the chute. The total weight conveyed should be limited to 50 pounds per foot (75 kg/m) on all models. If possible, it is recommended that the entry speed be controlled to lessen the force of initial impact against the side of the chute.

Safety Precautions

Prior to servicing or cleaning the chute be sure that the feeding conveyors have been shut off and locked or tagged out. The running surfaces are very slippery; fall restraint gear should be worn while working inside the chute. While the fiberglass components are relatively light, they may be awkward for one person to handle- ask for help when replacing components.

If flammable or mineral base cleaners are used to clean the surface, assure that there is good ventilation. Wait a sufficient period of time for all flammable fumes to dissipate prior to conveying any metallic materials to prevent flash from static sparks.