

**SHANK'S® B.P. 360° ROTARY LIVESTOCK CONTAINMENT CHUTE  
MANUAL/ELECTRIC MODEL  
TECHNICAL INFORMATION**

**General Information**

The Shank's® B.P. 360° Rotary Livestock Containment Chute was first built in 1985 and was designed by a practicing veterinarian. The concept combines the features of a squeeze chute housed within channel iron rings that can rotate the Chute to any position within those rings. This rolling concept provides versatility to lay the animal on either side, while providing protection for the Chute operator. The Manual/Electric Chute is made in two different sizes. The Chute is covered by U.S. Patent No.4,567,854.

**Regular and XL Size**

The overall size of the **Regular Chute** is 101" long x 100" wide x 99" high. The Chute main frame inside dimensions are 82" long x 30" wide x 72" high. The Chute alley when fully squeezed is 14" wide. The operating height inside the Chute with the backrest fully raised is approximately 68".

The overall size of the **XL Chute** is 102" long x 104" wide x 102" high. The Chute main frame inside dimensions are 84" long x 48" wide x 79" high. The Chute alley when fully squeezed is 14" wide. The operating height inside the Chute with the backrest fully raised is approximately 72".

**Electric/Manual Model**

The Electric/Manual B.P. Chute motor system consists of a 157 amp 1/3 HP AC gearmotor that controls the electric rollover. The gearmotor operates on 115 volts/60 cycles and needs to be wired directly to the power source on site. The squeeze is a manual hand pump double action hydraulic squeeze.

The Chute is rated for 3,000 lbs.

**Headgate/Tailgate**

The headgate on the Electric/Manual model is available with either a left hand or a right-hand pull handle. Headgate dimensions are 25" wide x 64" high when fully open, and 4" wide when closed.

The tailgate on the Chute is a manual operated chain/ladder system that can be raised or lowered and covers the entire back entrance to the Chute.

**Main Frame**

The Chute main frame consists of 3" x 3/16" wall square tube and 1/8" sheet steel. The top portion of the removable sides are square tube bars that can be lowered in pairs, and unlatch on top with pins and springs, and fold down to rest against the bottom portion of the sides. The bottom portion of the side is a solid sheet steel panel. The middle section of each of these panels is also removable via handle and pin/latch mechanism. The removable panel, when removed, provide a 22" x 38" access area to the animal. The removable floor is 3" x 3/16" square tubing outside frame with .3754" x 1.5" opening galvanized wire floor mesh.

The rotation rings are 4" channel iron with .320" web thickness - flange wall thickness of 1.885". A smaller drive ring is the moving force behind the Chute. A roller chain is fastened to the drive ring and to the

electrical or hydraulic power source. The rotation wheels that roll in the channel iron rings are 3" x 6" phenolic wheels complete with roller bearings.

The Chute backrest is completely padded (with -1-1/2" ensolite foam and 3/16" vinyl) for support of the animal when the Chute is rolled. The backrest is 16" wide and 87½" long and is raised and lowered by mechanical hand crank and cable. The backrest is attached to the top of the Chute main frame.

### **Operation**

The Chute is designed to be incorporated into some type of on site alley system and is designed to be used for surgery or hoof trimming. Controls can be mounted on either side of the Chute to accommodate the facility layout.

### **Standard equipment**

The Chute comes equipped with four manual hand-crank operated winches which are attached to the bottom of the Chute main frame for securing legs/feet during procedures. Two hand cranks are also furnished for use with these four winches.

Leg hobbles are made of 1 3/4" nylon webbing with 4 1/2' of 4/0 machine twist link chain. A complete set of four is furnished.

A set of four rubber leg blocks is also supplied to act as a cushion between the animal's feet and the steel frame of the Chute when the legs are winched tight. Blocks are made of molded 60 durometer rubber and are 5" wide x 7" long x 3" thick with a center hole for attachment of the leg hobble and chain.

A vinyl covered flat head extension is also supplied to act as head support when the restrained animal is rolled on its side. The head extension fastens to the Chute headgate with pins and chains and is adjustable.

### **Optional Accessories**

Below are the name and accompanying description of all optional accessories:

**De-horning table** - Steel de-horning table (manufactured by Hagie Mfg.) is available to be attached to headgate.

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