Acrobat®

Utility Line Set

SUBMITTAL

TECHNICAL INFO

Please check all appropriate selections and attach room schedule with verified dimensions.

Select the Product to be Lifted

- ☐ Paragon E
- ☐ Paragon V
- ☐ Premier *(Large Case Construction Only)*
- ☐ Targa *(Large Case Construction Only)*
- ☐ StageScreen
- ☐ Custom

Indicate Overall Case Length

_____

Select Winch Voltage

- ☐ 115V
- ☐ 230V

Select Controls

- ☐ ____Total number of switches *(operate independently)*
  - ☐ Standard Key Switch
  - ☐ Low Voltage Control *(115V only)*
  - ☐ Optional Power Supply Key Operated Switch *(On-off)*
  - ☐ IR Remote

Low Voltage Control for Screens: (Premier, Targa, & Pargon Only)

- ☐ External LVC-IV *(Low Voltage Control Module)*

Optional Additional Accessories for Custom Configurations

- ☐ Drive Pipe Carrier *(Required for units longer than 188" [478cm])**
- ☐ Mid-Idler Spool Assembly *(for additional cable drops)**
  ____Total number of Mid-Idler Assemblies
- ☐ Additional Power Cable Reel *(1 included standard)**
  ____Total number of Power Cable Reels
- ☐ Additional Aut-O-Loc Safety Device *(2 included standard)**
  ____Total number of Aut-O-Loc Safety Devices

* Will require extra mounting points.

Specifications

OVERVIEW

Featuring a 1,000-pound lifting capacity with a 34' (10.36M) drop, the Acrobat can raise and lower a variety of products including projection screens. The Acrobat can be universally mounted to various sizes of I-beams or 4" (10cm) steel pipe.

MOTORIZED WINCH OPERATOR:

WINCH: Motorized Winch. Drive pipe power mechanism shall operate using of an instant reversing, 110-120V or 220-240V, 50 Hz, 60-cycle, single-phase capacitor style motor with built-in thermal overload protection. Winch to have an oil-filled, precision cast, high-strength metal alloy case that is fully sealed with precision ball bearings and premium gaskets to prevent leaks. Load holding, hardened steel gears and motor combine to produce over 2500 inch pounds of torque at 8.125 RPM. Lifting capacity: 1000lbs (454Kg).

Control operation to include integral limit switches to control upper and lower travel. Provided with three-position, momentary-contact wall switch mounted in a polished switch box cover plate, but can be used with optional wireless remote. Key switch or other control is to be located in full view of Acrobat during operation.

DRIVE PIPE: 2 3/8" (60mm) OD X .095" (2.4mm) Wall Galv Steel Tube cut to length & drilled.

LOW VOLTAGE CONTROL (OPTIONAL): is a commercial type 110-120V AC control operation. Low Voltage Control shall be capable of operating one electric motor with up to a 1 HP rating. Control shall be factory wired and installed in an 6" x 4" x 2½" (152mm x 102mm x 64mm) enclosure with a 6' 0" (1.83m) long power cord with a four-prong NEMA style twist lock grounded plug. Control to include a three-position terminal block mounted on the enclosure for an optional low voltage key switch for motor control, or controlled by control system with momentary contact closure. All wiring and electrical components are to be in accordance with local codes and as per manufacturers installation instructions. All conduits, wiring and electrical components not specified herein, shall be supplied by the electrical contractor.

HAND HELD RF REMOTE CONTROL TRANSMITTER (OPTIONAL): Power supply for hand held shall be a standard 9-volt battery. Operating range for hand held transmitter approximately 100' (30.5m).

HARDWARE:

POWER CABLE REEL: 16 / 4 Retracting Power Cord with 35' (10.67m) of travel distance for screen power.

AUT-O-LOC-2 SAFETY DEVICE: is designed to engage instantly whenever a cable or supporting structure fails. Aut-O-Loc 2™ is actuated by speed or inertia in order to stop a load from falling due to a sudden failure such as a cable breakage, cable clamp failure or any increase in speed due to failure or back drive of a winch or supporting structure. Aut-O-Loc 2™ is rated for a 1000 lb load. Aut-O-Loc 2™ incorporates a 34' (10.36m) long, 2" (51mm) wide polyester belt with a breaking strength rating of 6000 lbs (2,721 Kg) and will withstand a 1750 lb (794 Kg) free falling load without any failure of components or the belt. The housing and drum shall be manufactured from high tensile heat treated aluminum alloy that naturally resists corrosion without paint. The drum which houses the mechanism is a singular machined piece to retain its structural integrity in the case of a load capture. The locking mechanism always remains in the ready position regardless of whether belt is retracting or extending. Locking mechanism does not cycle constantly. Unit is self aligning with the use of two integral guide wheels so the force of a fall positions the unit in the ideal plane to prevent damage to unit and the supporting structure. The locking mechanism will fully engage within 3" (76mm) of belt travel in the event of failure. The locking mechanism utilizes multiple high strength steel pawls that deploy and evenly load the drum and housing when engaged and do not rely on a singular locking mechanism.

MOUNTING PANS: 3/16" (4.8mm) thick steel, powder coated black. Winch Mounting Plate shall be 19 3/8" x 28 3/8" (49cm x 72cm). Idler Spool Mounting Plate shall be 17 1/8" x 27 5/8" (43.5cm x 70cm). **BEAM CLAMPS:** ¼" (6mm) thick Zinc plated Steel. Up to 5/8" (16mm) thick beam flange. Adjustment range: 4½" (114mm) Min. to 20 7/16" (519mm) Max. **PIPE CLAMPS:** "U" Bolt ½-13 X 4" IW X 5 ½" IL Grade 5 Zinc. Accepts 4" (102mm) Steel Pipe.

CABLES: Ø 3/16" (4.7mm) 7 x 19 Aircraft Cable

TURNBUCKLE: 5/16"-18 Thread x ¼" Ø Pin 800 lbs. (363kg) Working Load Limit or ½"-13 Thread x 3/8" Ø Pin 2200# Working Load Limit

PATENT INFORMATION: available at www.draperinc.com/legal/patents

DOWNLOADABLE 3-PART SPECIFICATIONS: available at www.draperinc.com.

Please note: Dimensions of rollers, operators and hardware at manufacturer's discretion.

PROJECT: _____

_____

ARCHITECT: _____

CONTRACTOR: _____

SUPPLIER: _____

DATE: _____ **REVISED:** _____

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