



## **WINDING DRUM ELEVATORS:**

### **DRUM MACHINE:**

Single reduction bronze ring and worm gear machine mounted on a structural steel base. Motor shall be face mounted, totally enclosed fan cooled. Motor shall have close coupled disc brake, 6 ft/lbs capacity, spring set, electric release. Machine shall be located as per job requirements. Drum shall be fabricated of DOM tubing, with accurately machined grooves to guide and support the hoist cables. The drum shall be fitted with tapered bushings in each hub to facilitate installation and removal. The drum shall have provisions to retain the free end of the hoist cables. The drum shaft shall be supported by an outboard pillow block roller bearing. Machine shall have an adjustable limit switch to remove power from motor and brake in the event of overtravel in either direction.

### **DRUM DEFLECTOR SHEAVES:**

Deflector sheave shall be 6" steel, grooved to support cable without deformation. Sheaves to be fitted with precision needle bearings. Traveling deflector sheave shafts shall be rigidly supported and sized to allow minimal deflection.

## **OPTIONAL EQUIPMENT:**

### **TANK HEATER:**

Heater shall be of the surface mount type, thermostatically controlled to automatically maintain oil temperature.

### **AUTO LOWERING:**

Provide circuitry and auxiliary power supply to allow car to descend to lowest landing in the event of failure of the main power supply. All safety circuits shall be fully operational. Provide circuitry to allow for either automatic or passenger initiated descent of car.

Optional gate operator shall be a precision screw drive type, Porta Inc. Model KIS100 or equivalent.

### **RETIRING CAM:**

Heavy duty parallel arm gravity-drop cam with sufficient weight to open interlock, with torque motor to raise cam to lock door.

### **SCISSOR GATE:**

Collapsing gate shall be heavy duty Bostwick type, with a minimum of 11 stiles and a minimum of 2 sets of relating scissors. Gate shall conform to all applicable requirements of ANSI 17.1. Stiles shall be fabricated from rolled steel channel. Relating scissors shall be fabricated from 1/8" steel flat stock. Gate shall be suspended on every other stile by a 3 wheel truck assembly, with provisions for height adjustment. Wheels shall be ball bearing type with polyurethane tires. The bottom of each stile shall be fitted with a nylon guide. The entire gate assembly shall be coated with enamel.

### **GATE OPERATOR:**

Optional gate operator shall be a precision screw drive type, Porta Inc. Model KIS100 or equivalent. Open and close speeds shall be fully adjustable. Magnetic clutch shall release gate in the event of an obstruction. Signal from main control shall actuate open or close operation. Optional reopening device shall stop gate from closing and return it to the open position.

### **SWING DOOR OPERATOR:**

Mark IV by Door Motion Technologies. Electromechanical type utilizing parallel arm pull type actuation. Operator shall be mounted on hoistway door, or optionally on top of elevator car. Integral spring closer, adjustable opening speed and back check.



### **AUTOMATIC HORIZONTAL SLIDING DOORS**

Car and hoistway doors shall open and close simultaneously at all levels. Door movement shall be fully adjustable, cushioned at both limits of travel. Operating mechanism shall be arranged to allow manual opening during loss of electricity when car is in the unlocking zone. Hoistway doors shall be self-locking and self-closing at all times.

Provide new door hangers and tracks. Hangers to be sheave type, no less than 2 per door, tired with a suitable sound reducing material and shall rotate on sealed ball bearings. Provide adjustable means to eliminate upthrust. Make modifications to existing doors and headers as required to accommodate hangers and tracks. Provide manufacturer's standard door closing device. Provide new sills, sill supports, struts, headers, frames, and door panels as required for a complete installation. Finish as specified above.

A solid state infrared door reversal device shall be installed on all car doors. The device shall be capable of detecting an opaque ball 1" in diameter anywhere in the within its path. Upon detection, the doors shall stop and reopen, after which the door shall again start to close. If the door is prevented from closing for approximately 30 seconds, the doors shall close at a reduced speed ("nudging"), regardless of the condition of the reversal device.

Provide 16 gauge hollow metal doors and 14 gauge frames finished as specified. Provide aluminum sill with guide groove for non-metallic bottom gibb. Provide mechanical spring type closing device for each entrance. Provide struts, headers, fascia, toe guards, hanger covers and hardware as required.



## STANDARD PRODUCT SPECIFICATION: XD - WINDING DRUM

Elevator contractor to furnish and install where indicated on plans one (1) TIGER LIFT Model XD Winding Drum elevator as manufactured by Elevator Concepts LTD, Riverview, Michigan.

### SYSTEM DESCRIPTION:

MODEL & TYPE	XWD - WINDING DRUM
CAPACITY	950
SPEED	35 FPM
RAILS	8# Steel "T"
GUIDES	Roller
TRAVEL	___ (35' max)
PLATFORM	___ (15 square feet max)
LANDINGS	___ (6 max)
CAR OPENINGS	___ (1 or 2)
DOOR SIZE	36" x 80"
DOOR TYPE	SWING (by others)
DOOR OPERATION	___ (MANUAL STD)
POWER SUPPLY	208 1ph 60 hz 30A

### CAB:

WALL FINISH	___ (MELAMINE STD)
GATE TYPE	___ (ACCORDION STD)
GATE OPERATION	___ (MANUAL STD)
CEILING FINISH	___ (LAMINATE STD)
HEIGHT	___ (80" STD)
HANDRAIL	1-1/2" ROUND
FLOOR COVERING	BY OTHERS

### FIXTURES:

COP	1 BUTTON PER FLOOR, ALARM, STOP
HALL STATION	SINGLE BUTTON
TELEPHONE	___ (OPTIONAL)
EMERGENCY LIGHT	___ (OPTIONAL)
POSITION INDICATOR	___ (OPTIONAL)
FINISH	___ (#4 STAINLESS STD)

### CONTROL

CONTROLLER LOGIC	PROGRAMABLE MICROPROCESSOR
CONTROL VOLTAGE	24 VOLT
LANDING SYSTEM	MAGNETIC HALL EFFECT SENSOR
DRIVE	VVVF
EMERGENCY LOWERING	___ (MANUAL STD)
INTERLOCKS	ELECTRIC