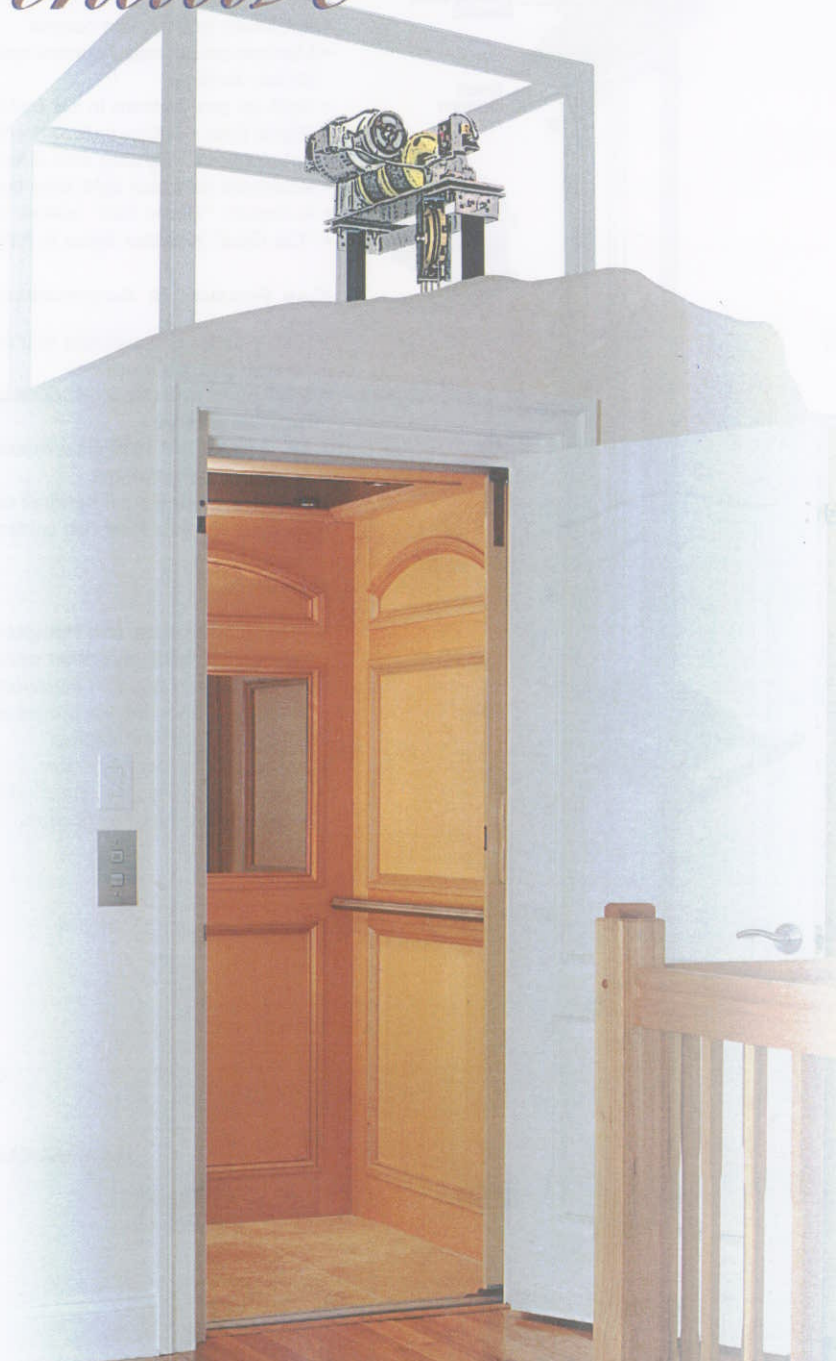


# Alternative CABLE DRIVE SYSTEM

## QUALITY, SAFETY & RELIABILITY

For those applications where space is an issue, Custom Elevator Manufacturing Company has designed a system that eliminates the need for a separate machine room. We utilize the space at the top of the elevator hoistway for the driving machine. Locating the elevator equipment at the top of the hoistway makes this design perfect for coastal flood plain applications. The compact elevator control cabinet can be located near the elevator hoistway for easy access.

With decades of experience in commercial and industrial elevator manufacturing, our engineers have designed this new system with elevator safety in mind. By combining a simple winding drum design with state-of-the-art motor speed control, high efficiency and maintenance-free gearing, Custom Elevator Manufacturing Company offers the highest quality, safest and most reliable residence elevator in the industry. This system actually exceeds the ASME A17.1 safety code standards for private residential elevators.



## UNIQUE FEATURES

- **Space saving overhead driving machine** located at the top of the elevator hoistway thus eliminating the need for a separate machine room for most applications.
- **A speed governor** continually monitors the speed of the elevator and applies the car safeties (designed to stop and hold the elevator car) in the event of an over-speed in the down direction. This design eliminates an over-speed in the up direction, a risk in elevators that utilize counterweights.
- **The high efficiency gear reducer** is sealed for life and maintenance-free with no risk of leakage or contamination.
- **Quiet operating**, fail-safe brake assembly is designed to stop and hold the elevator car with 125% of rated load.
- **Variable voltage variable frequency (VVVF)** drive technology offers smooth acceleration, deceleration, and final stops. Automatic re-leveling feature holds the elevator car at floor level, regardless of a change in load.
- **Machine operated limit switches** along with normal & final car operated limit switches remove power to the driving machine should the elevator car over-travel the top or bottom landing.
- **Automatic battery lowering** will safely lower the elevator car to the next floor level and provide emergency lighting in the event of a power failure.
- **Heavy duty car frame**, fitted with roller guide shoes that ride on a machined steel guide rail system, offers increased car loading capacities and ride quality that is unmatched in the industry.
- **In-car digital floor position indicator** with direction arrows, emergency stop switch, alarm bell, and emergency telephone.
- **In-car lights** automatically illuminate when the hoistway door is opened and extinguished when elevator not in use.
- **Manufacturer's warranty**, two year limited.

*Custom*  
**ELEVATOR**  
manufacturing  
company, inc.

## OVERVIEW OF STANDARD FEATURES

### CHARACTERISTICS

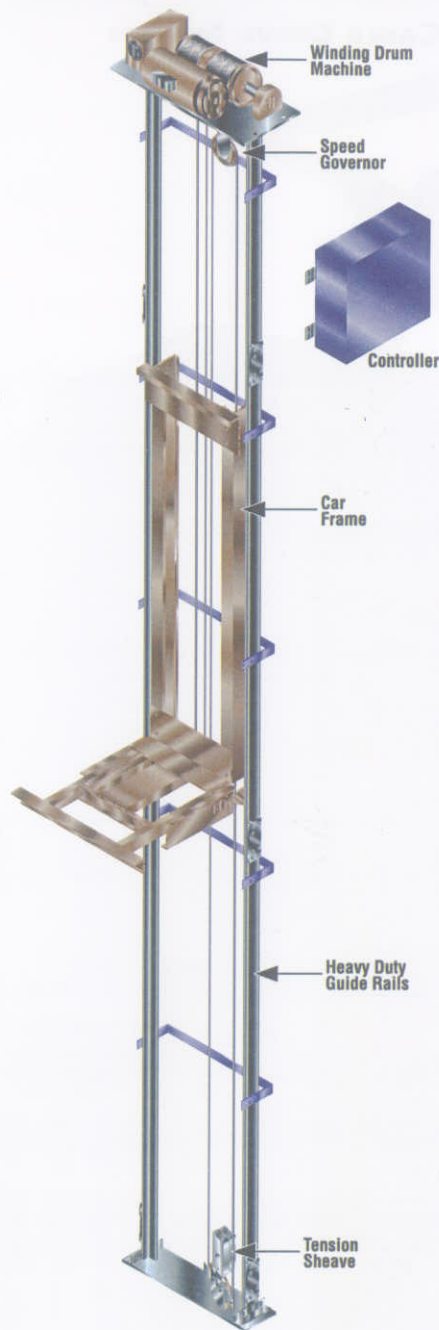
- Up to 950 lb. capacity (750 lb. standard)
- 40 f.p.m. nominal car speed
- Up to 5 stops with 50' of floor to floor travel
- Minimum pit depth of 8" required (10" recommended)
- Minimum overhead clearance of 9'0" required
- Up to 15 square feet interior cab sizes available (12 sq. ft. standard)

### EQUIPMENT

- Overhead winding drum drive
- (2) 3/8" diameter hoist cables
- Environmentally-friendly, low maintenance, space saving machine roomless technology
- Heavy duty cantilevered design car sling with roller guide shoes
- 8 lb. per foot steel tee guide rail system
- 220 volt single phase power supply
- Three horsepower, 3 phase motor with variable voltage, variable frequency (VVVF) drive technology for soft start, soft stop, and smooth operation
- Quiet operating, armature actuated fail safe brake assembly

### SAFETY DEVICES

- Type "A" instantaneous broken rope car safety with overspeed governor
- Upper and lower terminal limit switches
- Top final limit switch
- Slack cable switch
- Machine operated final limit switches
- Emergency car lighting in cab
- Emergency push/pull stop switch in cab
- Emergency push button alarm in cab
- Automatic car releveling device
- Automatic battery lowering device
- Emergency manual lowering
- Emergency telephone in cab
- Solid panel cab doors with approved safety switch
- Approved electro mechanical hoistway door interlocks
- Rubber impact bumper below elevator car
- UL and/or CSA certified electrical devices
- Exceeds ASME A17.1 Safety Code Standards for private residence elevators



WINDING DRUM

### CONTROLS/PUSHBUTTON FIXTURES

- Automatic pushbutton control
- Microprocessor based control system with uninterrupted battery back-up
- Light-up pushbuttons in car and hall
- Digital floor position indicator with car direction arrows in car
- Automatic cab lighting with override switch
- Automatic indicator light time-out feature
- Automatic "Home Park" feature to designated floor
- "Car Here" indicator lights in hall

### CAB FINISHES & ACCESSORIES

- Classic Series cab available in a wide variety of plastic laminate choices and other options
- Solid panel accordion cab door available in a wide variety of vinyl laminate choices
- 36" x 48" x 80" high clear interior cab size with a variety of cab opening configurations
- Brushed stainless steel handrail on one sidewall
- Brushed stainless steel cab control panel

### OPTIONS

- Premier, Signature, and Hampton Series cabs available in a wide variety of finishes and other options
- Accordion cab doors in hardwood, custom stain and lacquer finish, aluminum, and clear or bronze acrylic panels
- Recessed telephone cabinet
- Automatic car door operator
- Polished stainless steel, brushed brass, or polished brass pushbutton faceplate and handrail finishes

FOR MORE INFORMATION  
CALL OUR TOLL FREE NUMBER:  
888-443-2800,

OR VISIT OUR WEBSITE:  
[WWW.CUSTOMELEVATORINC.COM](http://WWW.CUSTOMELEVATORINC.COM)