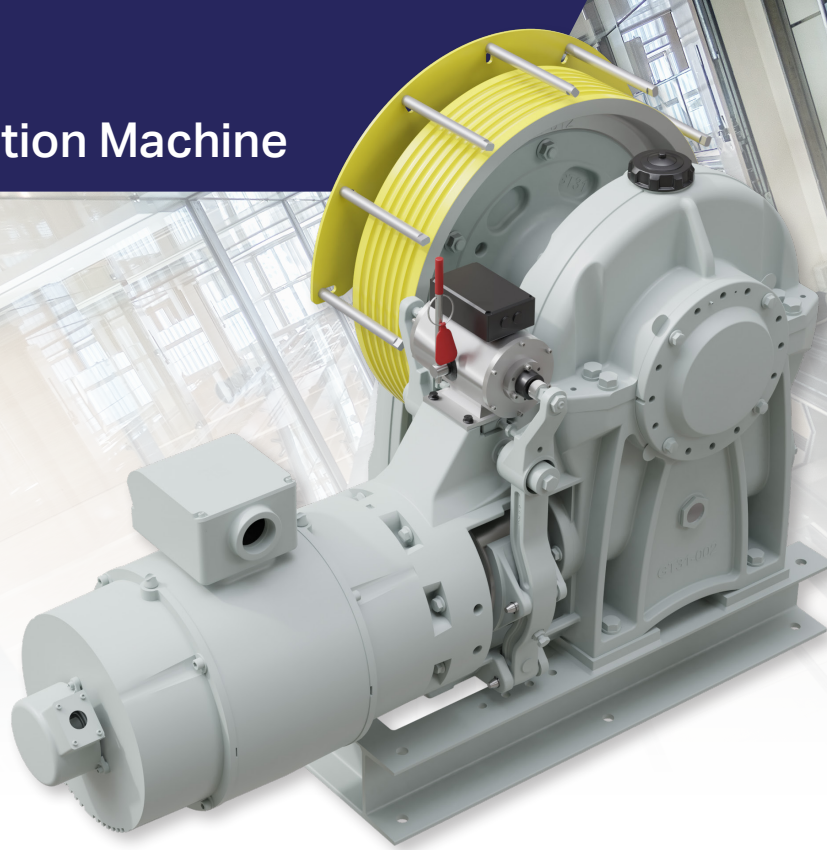


# GT31

## Geared Traction Machine



## POWERFUL, COMPACT & EASY TO INSTALL

**Ideal for low to mid-rise  
traction elevator applications  
for new construction and  
modernization projects**

### BENEFITS

- Easy disassembly and reassembly
- Eliminates machine room access limitations
- Simple motor coupling and brake adjustments
- Compact footprint; fits through 29.5" doors
- Easy installation, adjustments and preventative maintenance
- Flange mount motors dismount easily and simplify costly motor alignment

### STANDARD FEATURES

- Available with either a 26-in. or 30-in. sheave
- Standard NEMA C-face motor interface
- Designed for machine room applications with VVVF A/C controls
- Operates at speeds of 100 to 500 ft/min (0.51 to 2.54 m/sec) and capacities of 3,000 to 6,000 lbs (1,361 to 2,722 kg) with 1:1 roping and 3,000 to 12,000 lbs (1,361 to 5,554 kg) with 2:1 roping
- Smaller universal-fabricated steel base with integrated Rope Gripper® mounting
- LH and RH configurations
- Quiet braking solenoid
- Sealed bearings for reduced maintenance
- Enhanced bronze gear material
- Width: 28.85"/733mm
- Height 43.3"/105mm
- Length 65.5"/166.4mm
- Flange mounted motor for easy removal/replacement

## OPTIONAL FEATURES

- Traction wheel rope retainer
- Machine guarding with rope guard
- Basement set applications
- Overhead deflector applications
- Standard or seismic frame isolation
- Machine block-up assemblies
- Maximum sheave shaft load 25,000 lbs

## WHEN ORDERING, PLEASE SPECIFY

- Operating capacity and speed
- Sheave diameter
- Power supply
- 1:1 or 2:1 roping
- Left or right hand
- Number, size and pitch of hoist rope
- Isolation dimensions (sheave centerline to beam centerlines on either side)

### HORSEPOWER SELECTION CHART / 1:1 ROPING, COUNTERWEIGHT 40% CAPACITY

| CAR CAPACITY     | SUGGESTED HORSEPOWER AT SPEEDS OF: |                       |                       |                       |                       |                       |                       |                       |                       |
|------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                  | 100 F/M<br>(0.51 M/S)              | 150 F/M<br>(0.76 M/S) | 200 F/M<br>(1.02 M/S) | 250 F/M<br>(1.27 M/S) | 300 F/M<br>(1.52 M/S) | 350 F/M<br>(1.78 M/S) | 400 F/M<br>(2.03 M/S) | 450 F/M<br>(1.13 M/S) | 500 F/M<br>(2.54 M/S) |
| 2,500 (1,136 kg) | CF                                 | CF                    | CF                    | CF                    | CF                    | CF                    | 40 HP                 | 40 HP                 | 40 HP                 |
| 3,000 (1,361 kg) | CF                                 | CF                    | CF                    | 25 HP                 | 30 HP                 | 40 HP                 | 40 HP                 | 40 HP                 | 50 HP                 |
| 3,500 (1,588 kg) | 15 HP                              | 20 HP                 | 25 HP                 | 30 HP                 | 40 HP                 | 40 HP                 | 50 HP                 | 50 HP                 | 50 HP                 |
| 4,000 (1,814 kg) | 15 HP                              | 20 HP                 | 25 HP                 | 30 HP                 | 40 HP                 | 50 HP                 | 50 HP                 | 50 HP                 | N/A                   |
| 4,500 (2,041 kg) | 15 HP                              | 25 HP                 | 30 HP                 | 40 HP                 | 40 HP                 | 50 HP                 | 50 HP                 | N/A                   | N/A                   |
| 5,000 (2,269 kg) | 15 HP                              | 25 HP                 | 30 HP                 | 40 HP                 | 50 HP                 | 50 HP                 | N/A                   | N/A                   | N/A                   |
| 5,500 (2,500 kg) | 20 HP                              | 25 HP                 | 40 HP                 | 40 HP                 | 50 HP                 | N/A                   | N/A                   | N/A                   | N/A                   |
| 6,000 (2,722 kg) | 20 HP                              | 30 HP                 | 40 HP*                | 50 HP                 | N/A                   | N/A                   | N/A                   | N/A                   | N/A                   |

CF: Contact Factory

### HORSEPOWER SELECTION CHART / 2:1 ROPING, COUNTERWEIGHT 40% CAPACITY

| CAR CAPACITY      | SUGGESTED HORSEPOWER AT SPEEDS OF: |                       |                       |                       |                       |
|-------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                   | 100 F/M<br>(0.51 M/S)              | 125 F/M<br>(0.64 M/S) | 150 F/M<br>(0.76 M/S) | 200 F/M<br>(1.02 M/S) | 250 F/M<br>(1.27 M/S) |
| 2,500 (1,136 kg)  | CF                                 | CF                    | CF                    | CF                    | 20 HP                 |
| 3,000 (1,361 kg)  | CF                                 | CF                    | CF                    | CF                    | 25 HP                 |
| 3,500 (1,588 kg)  | 15 HP                              | 15 HP                 | 20 HP                 | 25 HP                 | 30 HP                 |
| 4,000 (1,814 kg)  | 15 HP                              | 15 HP                 | 20 HP                 | 25 HP                 | 30 HP                 |
| 4,500 (2,041 kg)  | 15 HP                              | 20 HP                 | 20 HP                 | 30 HP                 | 40 HP                 |
| 5,000 (2,269 kg)  | 15 HP                              | 20 HP                 | 25 HP                 | 30 HP                 | 40 HP                 |
| 5,500 (2,500 kg)  | 20 HP                              | 20 HP                 | 25 HP                 | 40 HP                 | 40 HP                 |
| 6,000 (2,722 kg)  | 20 HP                              | 25 HP                 | 25 HP                 | 40 HP                 | 50 HP                 |
| 7,000 (3,176 kg)  | 20 HP                              | 25 HP                 | 30 HP                 | 40 HP                 | 50 HP                 |
| 8,000 (3,629 kg)  | 25 HP                              | 30 HP                 | 40 HP                 | 50 HP                 | N/A                   |
| 10,000 (4,537 kg) | 30 HP                              | 40 HP                 | 40 HP                 | N/A                   | N/A                   |
| 12,000 (5,444 kg) | 40 HP                              | 40 HP                 | 50 HP                 | N/A                   | N/A                   |



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