



Power Climber Wind helps major wind turbine OEMs, owners, and service providers manage their operation and maintenance costs by providing the most reliable access equipment and expertise to improve employee safety, productivity, and retention.



IBEX® 1000 SERIES CLIMB ASSIST

IBEX® 1000 Features

Full Control at the Climber's Fingertips

Adjustable to User Weight

Constant Assist Adapts to Climbing Speed Instantly

Climber Always Controls Climb Speed

Instant Stop Button

True Down Assist

Lightweight EasyClimb Controller

Closed Loop Adaptive Motor Control

IBEX® 1000 Description

The IBEX® Climb Assist puts complete control over the climbing effort and experience in the hands of the climber. Using a patented feedback loop and field-proven robust wireless signaling of climber activity, IBEX® delivers personalized performance and increased climber safety, comfort and confidence in any tower.

“The IBEX® is amazing. I think it should be mandatory on every site. Doing walk-downs, my guys start slowing down after 4-5 towers but with IBEX®, we can go all day. 10-15 towers without slowing down. That’s three times the efficiency.”

-Chris Rouge, Senior Lead Technician - Trico TC Wind





IBEX's patented continuous closed feedback loop employs a lightweight EasyClimb Controller. This simple wireless control connects the climber's body harness to the assist rope. The EasyClimb Controller transmits signals to the motor to maintain the desired level of assistance and to respond instantaneously to changes in climbing speed or direction. The field-tested controller's wireless signal seamlessly communicates climber behavior to adapt motor output for a consistent, reliable assist.

Getting Started

Climber dons standard climbing front D-ring harness.

Climber turns on motor and connects EasyClimb Controller rope grab to static assist rope.

Climber selects the desired level of assistance – from 50, 75, 100 or 125 lbs (25, 35, 45 or 55 kgs) – at the EasyClimb Controller with an easy touch of the Stop, Up and Down buttons. LED display signals assist weight selected.

Climber presses the Up button and starts up the ladder.

Continuous signals from the EasyClimb Controller control motor power and provide the selected level of assistance regardless of the user's speed and climbing style.

Climb Assistance is provided in both up and down directions.

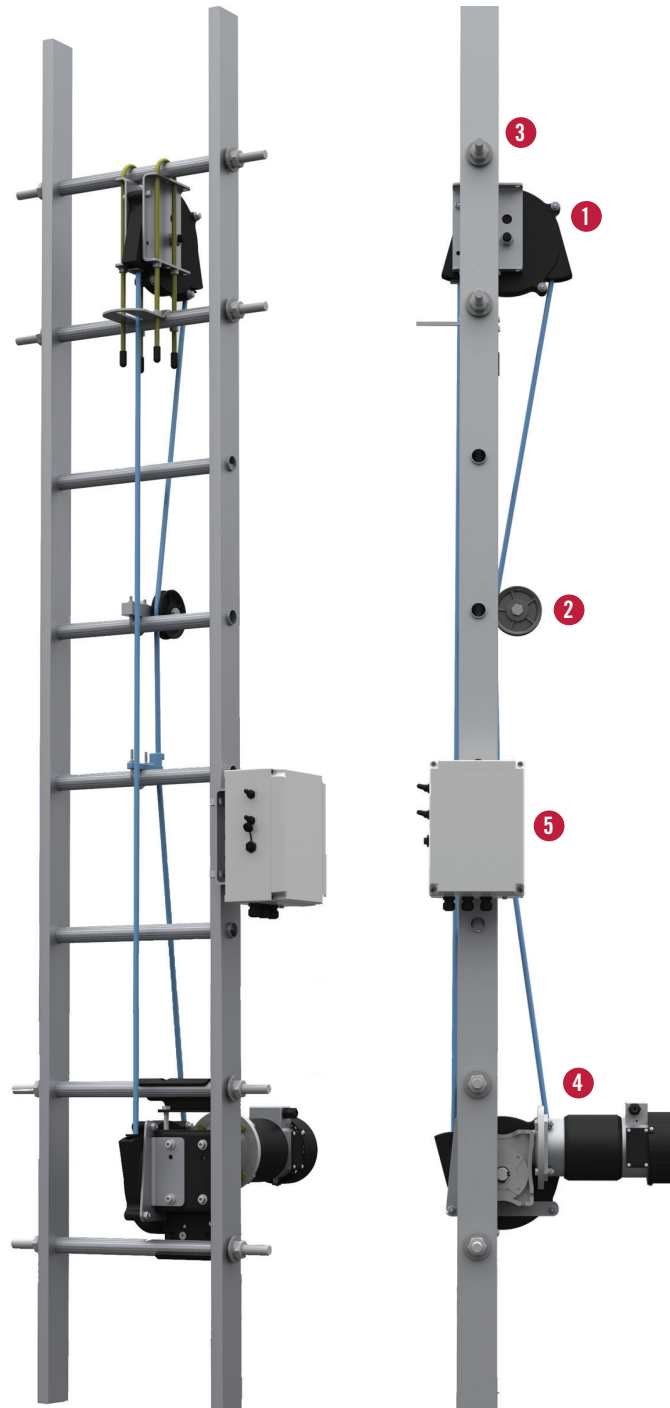
To Stop, climber presses the Stop button.

Climber presses the Stop and Down button to descend.

Closed loop control allows for instantaneous adaptive motor response making the IBEX® more responsive to changes in climbing speed and direction.

Climber can connect to or disconnect from assist rope at any location.

EasyClimb Controller prohibits second climber on rope – increasing safety.



1. Top sheave and mounting brackets

2. Assist rope guide at intermediate platforms

3. Rungs reinforced to protect ladder

4. Fixed gearmotor, drive controls, drive sheave, and mounting brackets do not obstruct lower rungs

5. Fixed control box

Easy mounting with several configurations to adapt to space available

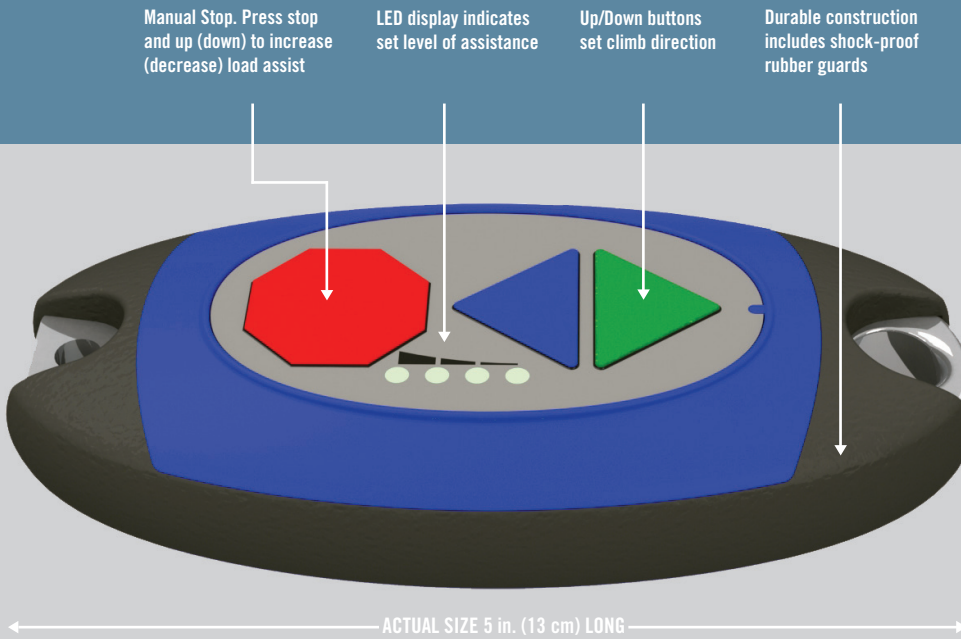
Simple mounting system easily adaptable to all metric and imperial ladder sizes and types

Initial installation: 2 to 3 hours – then hook-up and climb. No need to bring a motor or control box to the tower.

No pinch points or moving weights

Sealed bearings in drive unit—no lubrication necessary

The EasyClimb Controller travels with the climber from tower to tower. Use it to customize the ride and to control movement.



IBEX® Climb Assist Key Features

EasyClimb Controller

Climber controls assistance at anytime, at any location.

Customized Assistance

Select for up and down separately. Choose from 50, 75, 100 or 125 lbs (25, 35, 45 or 55 kgs).

Manual Stop

Climber instantly stops system – no lag effect.

True Down Assist

Comfortable assist on descent relieves knee and spine fatigue.

Motorized with Load Sensing Technology

Smooth, stable assistance to the climber. Never an unsure start/stop or hard tugging.

Robust Wireless Signal

Works in towers of any height.

Feedback Control

Load assist support is independent of climbing speed assist – climber controls both at any location.

Universal Motor

Adapts to 110 or 220V, 50 or 60 Hz single phase - fewer models to track.

Simple Installation

Universal Mounting System

Adjusts to any spacing and ladder design.

Fits In Any Tower

No cutting or modification of platforms required.

Fast Installation: 2-3 Hours

Minimizes turbine down time.

IBEX® delivers more climber control. Safe, confident, comfortable.

Key Features	Benefits	IBEX®	OTHER SYSTEMS	
			POWERED	COUNTERWEIGHT
Continuous loop	Allows use by multiple climbers without "reset" time	Yes	Few	No
Adjustable level of assist	Optimizes comfort and performance for climbers of different weight	Yes, on EasyClimb Controller	Few, at motor only	No
Adjustable speed	Maintains desired level of assist at different climbing speeds	Yes	No	Yes
Assist on descent	Provides load relief on the descent as on the ascent of the ladder	Yes	Few	Yes
Soft start / stop	Improves climber comfort by eliminating jerky starts and stops	Yes	Few	No
Manual stop	Added safety feature to stop motor at anytime	Yes, on EasyClimb Controller	No	No
UL approval	Ensures safety and reliability	All electrical components UL listed	No	No
Maintenance mode	Allows for easy inspection of assist rope	Yes	No	No
Ease of Installation	Engineered universal mounting system. Simple to install	Yes	No	No



IBEX® 1000

Power Climber Wind customers value how our 60 years of performing productively at elevation translates into more efficient product designs that are simple to get right and hands-on training solutions to drive to lower total cost of ownership and better user satisfaction.

Specifications

- Power Supply:** 110Vac 60 Hz; 230Vac 50 Hz 1ø, 0.5HP Motor
- Amperage Draw:** 5.2 maximum
- Assist Rope Diameter:** 10.5mm
- Environmental Rating:** IP55
- Corrosion Protection:** Class 3
- Temperature Range:** -35C to +40C
- Operating -40C to +60C Storage

COMPLIES WITH:

- US:** All electrical components UL® / CUL® listed. Moving parts guarded to comply with OSHA 1917.151
- EU:** Machine Directive 2006/42/EC R&TTE Directive 1999/5/EC

Wireless

- US:** FCC part 15
- EU:** EN 300 220-1
EN 300 220-3
EN 301 489-1
EN 301 489-3

IBEX® is available in 4 standard models:

- 1050 for 50-meter towers
- 1065 for 65-meter towers
- 1080 for 80-meter towers
- 1100 for 100-meter towers

Warranty and Support: All Power Climber Wind products carry our standard 2-year warranty, backed by worldwide service support.

Training Services: Installation, Operation and Maintenance and competent person offerings.

Images are illustrative only. See Operators Manual for additional safety information.

IBEX® is not a fall arrest product. Always wear appropriate fall arrest and other personal protective equipment when climbing. Comply with local, state and federal codes.

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