



POWERED CLIMB ASSIST SYSTEM

Now part of



# EFFORTLESS POWER-ASSISTED CLIMBING SYSTEM

DELIVERING COMFORT  
AND PERFORMANCE  
AT HEIGHTS

THE ULTIMATE IN FALL PROTECTION



## POWERED CLIMB ASSIST SYSTEM ACCESSORIES:

### 6160026

#### WIRE CABLE GRIP WITH CARABINER (Optional)

- For user with ExoFit NEX™ Wind Energy Harnesses
- Carabiner: 17.7 mm (11/16") gate opening, 16kN (3,600 lb) gate strength, with captive eye installed
- Wire Cable Grip: 4.8 mm (3/16") cable sleeve



### 6160024

#### TWIN-LEG LANYARD ASSEMBLY WIRE CABLE GRIP (Optional)

- 2 Carabiners: 17.7 mm (11/16") gate opening, 16kN (3,600 lb.) gate strength, with captive eye installed
- Wire Cable Grip: 4.8 mm (3/16") cable sleeve
- Webbing: Blue elastic web nylon, 19.1 mm (3/4") width x 686 mm (27") length
- For use with standard harnesses.



### 9600068

#### WIRE CABLE CUTTER (Optional)

- Length: 711 mm (28") shear-type manual wire rope and cable cutter
- Weight: 2.15 kg (4.75 lbs)



### 7241119

#### HAND OPERATED SWAGER (Optional)

- Model EP-410
- Output: 12 ton
- Weight: 5.9 kg (13 lbs)
- Length: 584.2 mm (23")
- Jaw opening: 25.4 mm (1")



### 9600003 (Required)

U-Style Shaped Die Set—specifically designed for Cable Swage Connection (6100031)



## EXOFIT NEX™ WIND ENERGY HARNESSES:

Specifically designed for use with Wire Cable Grip with Carabiner (6160026)



### 1113452

#### EXOFIT NEX™ CLIMB ASSIST 5-POINT HARNESS

Wind energy harness with 406 mm (16") climb assist straps located off hips (XLarge). For use with 6160026 wire cable grip with carabiner—order separately.

- 1113449 | Small
- 1113450 | Medium
- 1113451 | Large
- 1113453 | XXL Large



### 1113457

#### EXOFIT NEX™ CLIMB ASSIST CONSTRUCTION STYLE HARNESS

Wind energy harness with 406 mm (16") climb assist straps located off hips (XLarge). For use with 6160026 wire cable grip with carabiner—order separately.

- 1113454 | Small
- 1113455 | Medium
- 1113456 | Large
- 1113458 | XXL Large

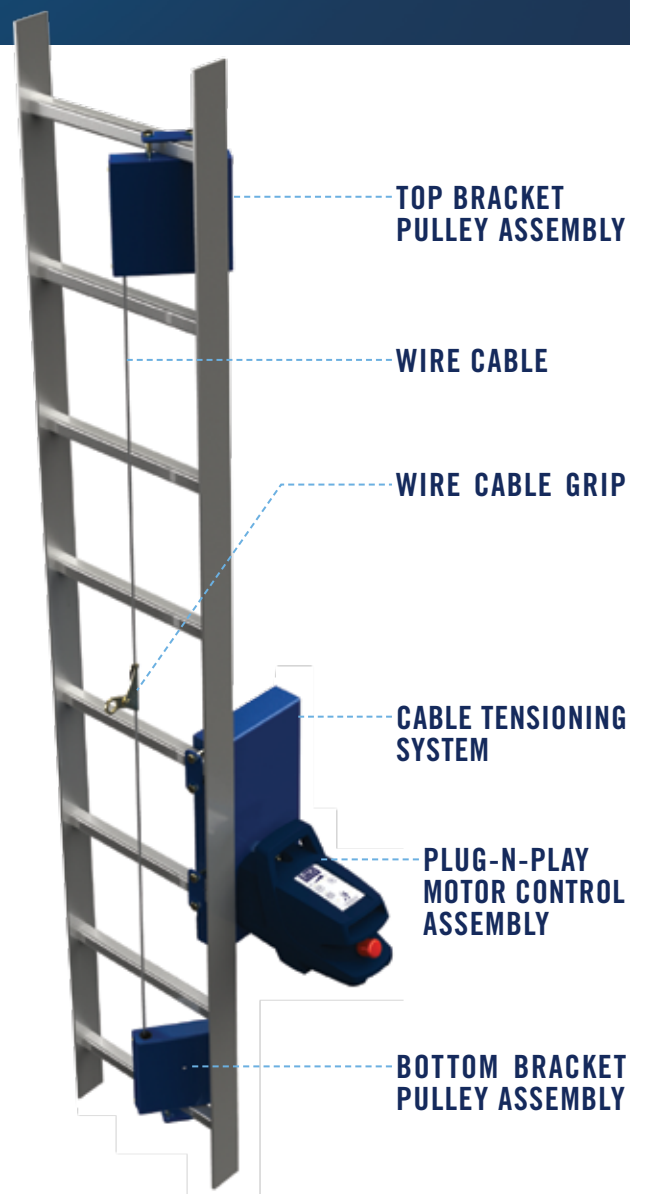


# WE'VE MADE GETTING TO THE TOP EASY.

## FEATURES OF THE NEW POWERED CLIMB ASSIST SYSTEM FROM DBI-SALA®

Extremely tall or lengthy structures are often conducive to an assisted system which provides weight relief to reduce worker fatigue and improve climbing longevity. The Powered Climb Assist System from DBI-SALA® was specifically designed to provide assistance for those who climb the internal ladders of wind energy towers.

- Designed to be used in conjunction with a ladder safety system, such as the LadSaf™ vertical system with sleeve
- Motor control unit provides five discrete speed level settings
- System provides a unique “adaptive” motor control system that adjusts to environmental conditions and climbing speed
- Personalized system adjustment of 25-55 kg (55-120 lbs) for a wide range of climbing styles and user weights for effortless ascent and descent
- Plug-n-play motor control unit design enables simple installation to cable tensioning unit—just plug the unit into the power outlet and you're ready to climb!
- System accommodates a power supply range of 110 Vac - 240 Vac, 50-60 Hz—optional power cords available to match receptacles, ensuring global compatibility
- 9kg (20-lb). motor control unit is easily transported to support multiple systems and towers
- System includes top and bottom pulley assemblies, wire cable, wire cable grip (with optional double lanyard and carabiner) and motor control and cable tensioning units





# TOWER KIT FOR THE POWERED CLIMB ASSIST SYSTEM



**6160039 TOWER KIT**

**(A) 6160019 TENSIONING ASSEMBLY**  
(PATENT PENDING—See below)

**(B) 6160016 TOP & BOTTOM BRACKET PULLEY ASSEMBLIES**

- High-quality, commercial grade steel covers
- High-strength, abrasive-resistant pulley designed for long-term use

**(C) 6160027 WEAR PAD KIT**

- Nylon pads
- Stainless steel screws
- Drill bit and tap

**(D) 6160028 WIRE CABLE**

- 4.8 mm (3/16") x 200 m (656")
- 7 x 19 strand core
- Galvanized steel wire

**(E) 6100031 WIRE CABLE SWAGE CONNECTION**  
(PATENT PENDING)

- 304 stainless steel cable swage connection
- Connection used to crimp onto 3/16" wire ends to form a continuous loop



## A CLOSER LOOK AT THE TENSIONING SYSTEM OF THE TOWER KIT

### ATTACHMENT POINTS

For the motor drive shaft and for the alignment/locking pin (on back side of unit)



### TENSION INDICATOR AND KNOB

Located on the side of the unit to show when the system is properly tensioned



### WIRE CABLE GROMMET

The wire cable moves through this hole during operation

### 6160019 TENSIONING ASSEMBLY

- High-quality, commercial grade steel cover
- Patent pending

# MOTOR CONTROL ASSEMBLY

6160051

## MOTOR CONTROL ASSEMBLY

- Lightweight and portable—approximately 9 kg (20 lbs)
- Globally compliant—120-240 Vac, 50-60 Hz
- Operating temperature range: -30° C to 55° C (-30° F to 131° F)



VIEW OF  
BACK SIDE

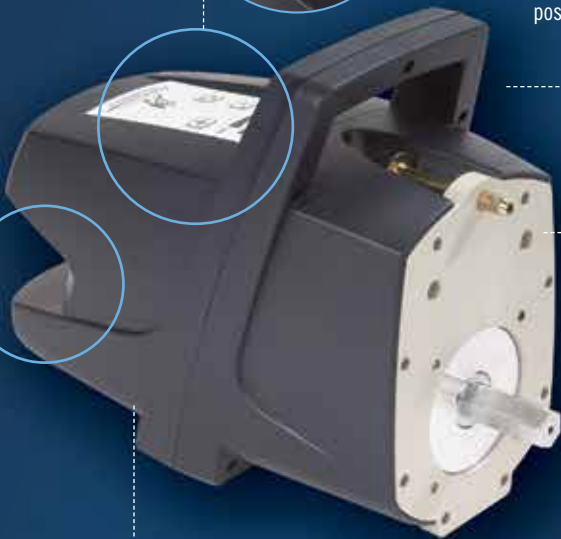


EMERGENCY  
STOP BUTTON



### HUMAN MACHINE INTERFACE (HMI)

- Functionality features:
- LED lights for user feedback
  - ON/OFF button
  - Personalized choice of 5 force level settings
  - Control the direction of motor, based on position of unit on ladder



### ERGONOMIC CARRYING HANDLE

### ALIGNMENT / LOCKING PIN

Allows for quick and easy attachment and removal from Tensioning Assembly





### DRIVE SHAFT

Attachment point to tensioning unit

### DURABLE MOTOR CASING

Protects against weather conditions and work environment

## POWER CORD CONFIGURATIONS—REQUIRED

REGION	UNITED STATES CANADA MEXICO	SOUTH AFRICA INDIA	EUROPE KOREA	CHINA AUSTRALIA NEW ZEALAND
RECEPTACLE CONFIGURATION				
CS PART NUMBER	9506929	9506038	9507098	9506930
SPECIFICATION	NEMA 5-15P	BS 546 TYPE M	CEE 7/7	AS/NZS 3112
RATING	15 A / 125 Vac	16 A / 250 Vac	10 A / 250 Vac	10 A / 250 Vac



### POWER CORD ATTACHMENT POINT

On back of motor control assembly unit



### OPPOSITE END VIEW OF EACH POWER CORD SET

This end connects directly to the motor control assembly (see image at left)

# DBI-SALA® POWERED CLIMB ASSIST SYSTEM SUMMARY OF PARTS:

PART NUMBER	DESCRIPTION	USA, CANADA, MEXICO	SOUTH AFRICA, INDIA	EUROPE, KOREA	CHINA, AUSTRALIA, NEW ZEALAND
6160039	Ladder Kit*	R	R	R	R
6160051	Motor Control Assembly*	R	R	R	R
9506038	Power Cord (BS 546 Type M)		R		
9506929	Power Cord (NEMA 5-15P)	R			
9506930	Power Cord (AS 3112)				R
9507098	Power Cord (CEE 7/7)			R	
9600003	Swage Die Kit	R	R	R	R
6160019	Cable Tensioning System	S	S	S	S
6160016	Top & Bottom Bracket Pulley Assembly	S	S	S	S
6160028	Wire Cable (3/16" x 656', 7x9, galvanized)	S	S	S	S
6100031	Wire Cable Swage Connection	S	S	S	S
6160027	Wear Pad Installation Kit	S	S	S	S
6160026	Wire Cable Grip with Carabiner	A	A	A	A
6160024	Twin-Leg Lanyard Assembly with Wire Cable Grip	A	A	A	A
9600068	Wire Cable Cutter	A	A	A	A
7241119	Hydraulic Swager	A	A	A	A
1113449-1113453	ExoFit NEX™ Climb Assist 5-Point Harness (SM to XXL)	A	A	A	A
1113454-1113458	ExoFit NEX™ Climb Assist Construction Style Harness (SM to XXL)	A	A	A	A

\* Main System Components      R= Required    A= Accessory    S=Serviceable Part (included in 6160039 Kit)

## CERTIFICATION:

CE marked under the Machinery Directive 2006/42/EC

Electrical Safety Test Standard:  
■ BS EN 60335-1/2002

### EMC Test Standards:

- EN 61000-6-1/2007
- EN 61000-6-3/2007
- EN 61000-3-3/2008
- EN 61000-3-2/2006



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