STANDARD MACHINERY

PRODUCT DATASHEET

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2 HP Electric Wire Rope Winch with Grooved Drum – 1.47 kW, 440 V 60 Hz, Ratio 1:41, Imported, Refurbished & Tested

BRAND NOT MENTION

SKU
SM-EW-147-4460

CATEGORY
Winch, Hoist & Chain Block

● In Stock

Chat on WhatsApp

Request pricing and availability on WhatsApp with the product details pre-filled.

- ✓ 1.47 kW (approx. 2 HP) three phase winch motor
- ✓ Rated 440 V, 60 Hz, 4.0 A
- ✓ Right-angle reduction gearbox with 1:41 gear ratio
- ✓ ED 25% intermittent duty rating suited to winch work
- ✓ Spiral-grooved flanged drum for even rope spooling
- ✓ Outboard bearing pedestal supporting the drum
- ✓ Heavy steel base plate for bolt-down mounting
- ✓ Imported industrial unit, refurbished and tested before dispatch

Technical Specifications

Manufacturer	Brand Not Mention
SKU	SM-EW-147-4460
Product Type	Electric Wire Rope Winch
Condition	Imported, Refurbished & Tested
Motor Power	1.47 kW
Motor Power	2 HP
Phase	3 Phase
Voltage	440 V

Frequency	50 / 60 Hz
Rated Current	4.0 A
Duty Cycle	ED 25 %
Motor Speed (60 Hz)	1200 RPV
Drum Speed (60 Hz, approx.)	29 RPM
Drum Speed (50 Hz, approx.)	24 RPM
Gear Ratio	1:41
Gearbox Type	Right-Angle Reduction
Drum Type	Spiral Grooved, Flanged
Base	Steel Base Plate

Product Description

2 HP Electric Wire Rope Winch – 1.47 kW, 440 V 60 Hz, Gear Ratio 1:41

This **imported electric wire rope winch** is a compact, ready-mounted unit. A **1.47 kW (2 HP) three phase motor** drives a **right-angle reduction gearbox (ratio 1:41)**, which turns a **grooved, flanged rope drum**. The drum is supported by an outboard bearing pedestal, and everything is bolted to a heavy steel base plate. It is supplied by Standard Machinery in **Imported, Refurbished & Tested** condition.

The motor is rated for **ED 25% (intermittent duty)**, the typical duty rating for winch and hoist drives where the motor runs in short cycles with rest periods in between.

Key Specifications

- **Type:** Electric wire rope winch, single grooved drum
- **Motor power:** 1.47 kW (approx. 2 HP)
- **Rated voltage:** 440 V, three phase (Y/Δ)
- **Rated frequency:** 60 Hz
- **Rated current:** 4.0 A
- **Motor speed:** 1200 RPM at 60 Hz
- **Gear ratio:** 1:41
- **Drum speed:** approx. 29 RPM at 60 Hz / approx. 24 RPM at 50 Hz (calculated from motor speed and gear ratio)
- **Duty cycle:** ED 25% (intermittent)
- **Drum:** Spiral-grooved, flanged rope drum with outboard bearing pedestal
- **Base:** Heavy steel base plate with bolt-down mounting
- **Condition:** Imported, Refurbished & Tested

Applications

- Material hauling and pulling in workshops and yards
- Deck and utility winch duties in marine and port use
- Gate, shutter and hatch operation
- Trolley, skid and cart pulling on tracks
- Cable and rope pulling for installation work
- Machine builds needing a compact rope drive

Industries Served

- Marine, ports and ship repair
- Construction and infrastructure
- Steel, fabrication and heavy engineering
- Irrigation and water management
- Material handling and machine builders
- Export buyers in 60 Hz regions

Why Buy from Standard Machinery

- **Imported industrial equipment:** Sourced from the Alang Ship Breaking Yard and refurbished in Bhavnagar, Gujarat
- **Tested before dispatch:** Each winch is run and checked before it leaves our facility
- **Compact, ready-mounted unit:** Motor, gearbox, drum and pedestal on one base plate
- **Honest technical details:** We share the real nameplate ratings so you can match the winch to your supply
- **Experience since 2008:** Supplying winches, hoists, gear motors and electrical panels to industrial buyers
- **Pan-India and export supply:** Dispatch across India and to buyers in Africa, the Middle East and Southeast Asia

Voltage & Power Note

This winch motor is rated 440 V, 60 Hz. It is a direct match for 440 V 60 Hz supplies, including many ship and marine power systems and some export markets.

On a **50 Hz supply**, such as standard Indian 415 V 50 Hz power:

- Motor speed and drum speed will be about **17% lower** (approx. 1000 RPM motor speed).
- Available output power reduces roughly in proportion to speed, to about 1.2 kW.
- The voltage that matches this motor's rating at 50 Hz is about 367 V. On 415 V 50 Hz the motor runs with higher magnetising current and may run warmer.

For Indian 50 Hz use, we recommend running the winch through a **VFD set to 60 Hz output**, or checking running current on test and keeping within the ED 25% duty cycle. Use a forward/reverse starter with an overload relay set to the 4.0 A rated current, and an emergency stop.

Safety Note

Before any lifting or pulling use, the winch's line pull / safe working load (SWL), brake and wire rope must be inspected, load-tested and certified by a competent person as per local regulations.

- Fit new wire rope of the correct size and grade for the drum grooves and the working load
- Keep the minimum dead turns of rope on the drum at all times
- Confirm the holding/braking arrangement holds the full load before putting the winch into service
- Respect the ED 25% duty rating; continuous running can overheat the motor
- Bolt the base plate to a rigid foundation or deck
- Not for man-riding or lifting persons, and not certified for explosive or flammable atmospheres

Maintenance Tips

- Check gearbox oil level and change oil at regular intervals
- Grease the drum bearing in the outboard pedestal
- Inspect the wire rope for broken wires, kinks, corrosion and crushing
- Check motor running current against the 4.0 A nameplate rating
- Keep the terminal box and cable glands sealed against water and dust
- In marine use, wash off salt deposits and touch up paint to prevent corrosion

Frequently Asked Questions

What are the motor ratings of this winch?

The nameplate shows 1.47 kW (about 2 HP), 440 V three phase, 60 Hz, 4.0 A, 1200 RPM and ED 25% duty, with a gear ratio of 1:41.

Can I run this 60 Hz winch on Indian 50 Hz supply?

Yes, but it will run about 17% slower and the motor may run warmer on 415 V 50 Hz. For best results, use a VFD set to 60 Hz output, or monitor running current and keep within the ED 25% duty cycle.

What does ED 25% mean?

ED 25% is an intermittent duty rating. Over a typical 10-minute cycle, the motor can run under load for about 2.5 minutes and needs the rest of the time to cool. It is the usual rating for winch and hoist motors.

What is the drum speed?

Based on the 1200 RPM motor speed and 1:41 gear ratio, the drum turns at about 29 RPM on 60 Hz and about 24 RPM on 50 Hz. Rope speed depends on drum diameter and the number of rope layers.

Can this winch be used for lifting?

Only after its SWL, brake and wire rope are inspected, load-tested and certified by a competent person. It must never be used for lifting persons.

Do you export?

Yes. Standard Machinery supplies across India and exports to Africa, the Middle East and Southeast Asia. Contact us for export packing and shipping details.

Need a compact 2 HP electric wire rope winch? Contact Standard Machinery, Bhavnagar, Gujarat, at +91 9898 398 786 / +91 73837 39400 or info@standardmachinery.store for price, photos and availability.

Compatibility

- Power supply: 3 phase, 440 V, 60 Hz (direct match)
- Indian 415 V 50 Hz supply: runs about 17% slower; VFD set to 60 Hz output recommended
- Starter: Forward/reverse (DOL reversing) starter with overload relay set to 4.0 A
- Protection: Suitable MCB/MPCB and emergency stop on the incoming supply
- Duty: ED 25% intermittent; not for continuous running
- Mounting: Steel base plate bolted to a rigid foundation or deck
- Wire rope: Steel wire rope matched to drum groove size and working load
- Not suitable for: Man-riding, or explosive or flammable atmospheres

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