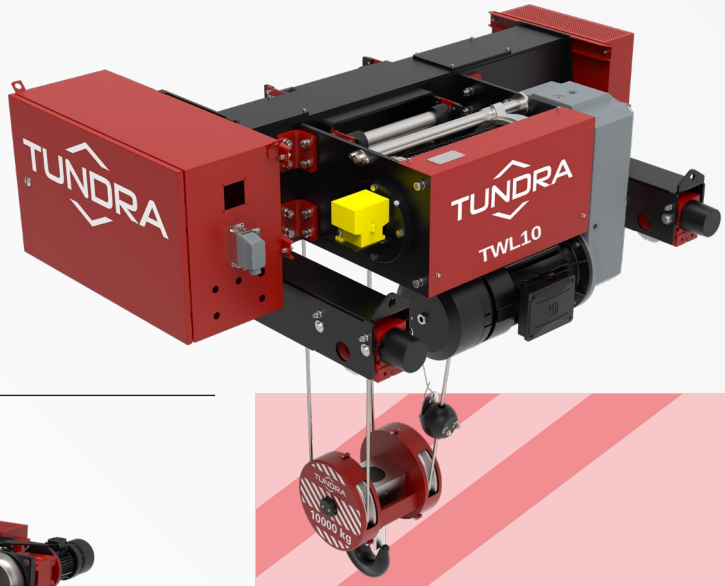
Powerful & Reliable Lifting

ELECTRIC WIRE ROPE HOIST

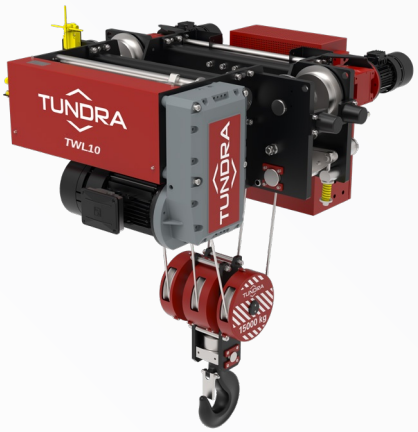
CAPACITY RANGE UP TO 50,000 KG



Designed for heavy-duty lifting with precision, the Electric Wire Rope Hoist delivers exceptional performance and durability. Its high load capacity, smooth operation and advanced safety features ensure efficient material handling across industries. Engineered for reliability, it offers effortless control, minimal maintenance and maximum productivity in demanding environments.

MODELS

SINGLE GIRDER MONORAIL

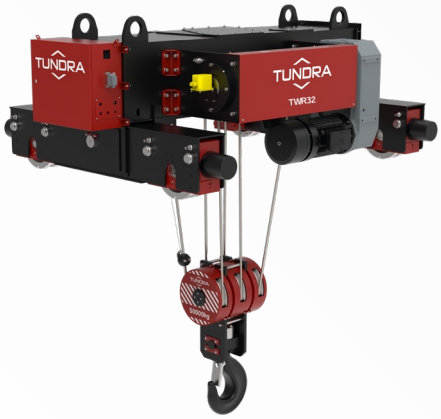


TYPE
LOW HEADROOM HOIST

CAPACITY
UP TO 15000 KG

MODEL
TWL10-15

DOUBLE GIRDER CRAB



TYPE
TOP RUNNING HOIST

CAPACITY
UP TO 50,000 KG

MODEL
TWR32

FEATURES

- Low headroom hoists
- High tensile DIEPA wire rope
- Hoisting speeds through drives only

SAFETY FEATURES

- Rope safety 5:1 min (8:1 available)
- Double limit switch for lifting operational + power
- Overload limit (by VFD)

CERTIFICATION

C SA® US

ELECTRIC WIRE ROPE HOIST TECHNOLOGY

Design: Compact and effective hook approach | **No counter weights:** Optimized weight balance
Working Group: Standard with M5 Duty | **Lifting speed:** Only through drives | **Flange Width:** Smoothly adjustable

COMPONENTS

HOOK BLOCK

- Ergonomic design (DIN15400)
- Handles for easy handling
- Safety latch on hook (standard)

THRUST ROCKER

- Eliminates weight balance plates
- Reduces hoist weight
- Pressed against bottom flange for weight balance

VARIABLE FREQUENCY DRIVE

- Precise load positioning
- Minimized load sway for safety
- Variable speeds and acceleration for application flexibility

ROPE

- High-strength DIEPA wire rope for fatigue and wear resistance
- Flexible steel core for prolonged life
- ISO 4308-1 compliant
- Tensile strength: 2160 N/mm^2

ROPE DRUM AND GUIDE

- Seamless rope drum with precise grooves
- Rope guide rollers for smooth operation
- Heavy-duty rope guide for consistent scrolling
- Spring inside guide ensures correct rope tightness

WHEEL BLOCK & WHEEL

- Single flanged wheels for monorail hoist, double flanged for crab hoist
- Spheroidal cast ST-700/2 wheels
- Ball/roller bearings for extended life

ROTARY LIMIT SWITCH EQUIPMENT

- Hoist switch off at limit positions
- Emergency cut-off at upper and lower positions
- Adjustable cut-off to suit application
- Upper/lower motion limit switch (standard)
- Bottom block operated power limit switch (standard)

GEARBOX & MOTOR

- Precision-machined aluminium body for reduced weight
- Gears immersed in oil for smooth, cool operation
- Heavy-duty motor with brake and cooling fan
- IE3 motors with IP55 enclosure and F-class insulation
- All motors S1 continuous duty, premium efficiency IE3

CROSS TRAVEL-MONORAIL

- CT-Wheel made up of C45 or SG 700/2
- Travel machinery designed for hoisting applications
- Direct drive for travel wheels
- Heavy-duty motor with brake and cooling fan

21ST CENTURY VFD TECHNOLOGY

RAPID RESPONSE

Two to three times faster than conventional control.

Between the operator's command and the load's movement, a conventional hoist package loses close to half a second. Our drive package responds two to three times faster, with the motor pre-magnetized and a command chain engineered to eliminate wasted delay.

This puts to rest the old objection that variable frequency control feels less responsive than legacy two-speed contactor systems. It is faster, and it is smoother: no contactor slam, no step-change jolt into the load, no guesswork on where the hook will settle.

Precise. Predictable. Gentler on the crane and on the load.

ZERO-SPEED HOLD

Full holding torque, up to 5 seconds.

Between inching commands, the drive maintains full holding torque at zero speed, keeping the load position-locked and eliminating repeated start-up sequences during spotting and placement work.

The result: faster response on successive commands, smoother and more continuous positioning, and significantly fewer brake cycles over the life of the crane.

The brake sets automatically at the end of the hold period, and immediately upon any fault condition, stop command or loss of power.

EXTENDED SPEED RANGE (ESR)

Standard on every hoist.

Hoisting speed to 150% of nominal under light load, with automatic return to nominal speed when torque demand exceeds 40% of rated. Fully automatic, no operator selection required.

Faster empty-hook returns, faster hook approach and faster light-load handling, with no compromise to lifting capacity at rated load. It shortens the movements that occur most often in a working day, and in many applications removes the need for a separate high-speed auxiliary hoist.

Synchronized Extended Speed Range available for tandem lift configurations.

TUNDRA MH INC.

3000 rue des Bâtisseurs
Terrebonne, QC J6Y 0A2
Canada