



# ICOS

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# HEAVY LIFTING TECHNOLOGY

**ENERPAC** 

 **IRISSFAST**

We design and manufacture heavy lifting equipment. For more than 60 years, we've combined high pressure hydraulics and controls to deliver intelligent and innovative solutions that maintain the highest level of quality, reliability and safety. We are passionate about solving your challenges, together. We will be your supplier and partner; we will support you throughout the entire life of your project, your success is ours.

## HEAVY LIFTING TECHNOLOGY



### HYDRAULIC GANTRIES

Hydraulic gantries are a safe, efficient way to lift and position heavy loads in applications where traditional cranes will not fit and permanent overhead structures for job cranes are not an option. When used with rail systems, hydraulic gantries also provide a means for moving and placing heavy loads. Hydraulic gantries are a cost effective solution for many lifting and rigging applications.



#### MINI LIFT GANTRIES

Compact and cost-effective gantry with best-in-class controls

- Capacity: **45 tons**
- Lift Height: **18 feet**
- Retracted Height: **6.23 feet**



#### SUPER LIFT GANTRIES

Cost-effective gantries with best-in-class controls and up to 450 ton capacity

- Capacity: **110 - 450 tons**
- Lift Height: **15.59 - 29.99 feet**
- Retracted Height: **6.73 - 10.39 feet**



#### SUPER BOOM LIFT GANTRIES

Heavy duty, boom style gantries with best-in-class controls and up to 1178 ton capacity

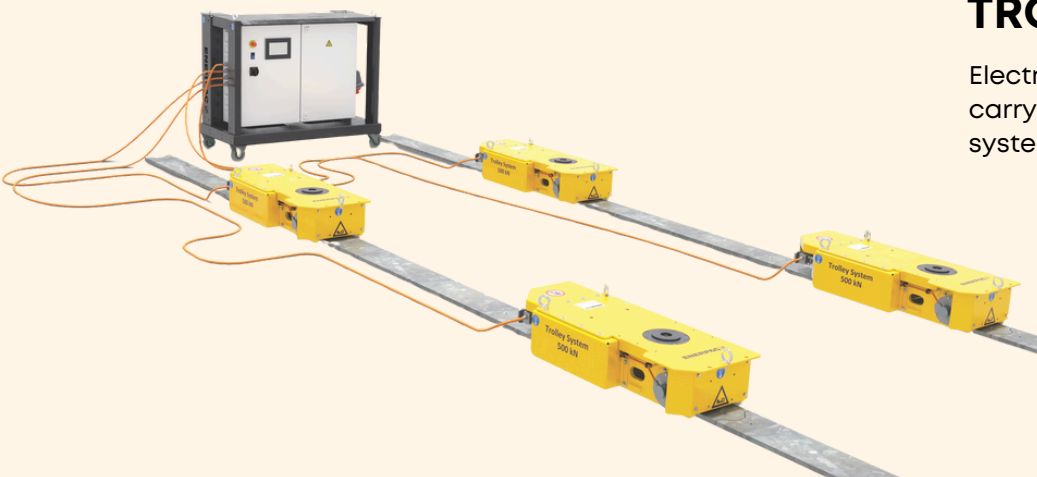
- Capacity: **585 - 1178 tons**
- Lift Height: **28.27 - 39.38 feet**
- Retracted Height: **9.97 - 16.42 feet**

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Rua do Mercado Municipal De Viana, Km30, Luanda, Angola.



# HEAVY LIFTING TECHNOLOGY



## TROLLEY SYSTEMS

Electrically-driven trolleys which can carry heavy loads along a fixed track system



### ETR50, ELECTRIC TROLLEY, 50 TON

Capacity per Trolley Unit (tons) **55**  
Maximum Sideload (tons) **0.83**  
Maximum Load Pressure (psi) **N/A**  
Travel Speed, Low (ft/hr) **82**  
Travel Speed, High (ft/hr) **164**



### ETR100, ELECTRIC TROLLEY, 100 TON

Capacity per Trolley Unit (tons) **110**  
Maximum Sideload (tons) **1.66**  
Travel Speed, Low (ft/hr) **82**  
Travel Speed, High (ft/hr) **164**  
Motor Power (hp) **1.0**  
Motor Voltage (VAC) **380-480**  
Current Draw (Amps) **32**  
Sound Level (dBA) **<80**  
Weight (kg) **850**



### ETR50H, ELECTRIC TROLLEY WITH HCG502 HYDRAULIC CYLINDER, 50 TON

Capacity per Trolley Unit (tons) **55**  
Maximum Sideload (tons) **0.83**  
Travel Speed, Low (ft/hr) **82**  
Travel Speed, High (ft/hr) **164**  
Motor Power (hp) **0.5**  
Motor Voltage (VAC) **380-480**



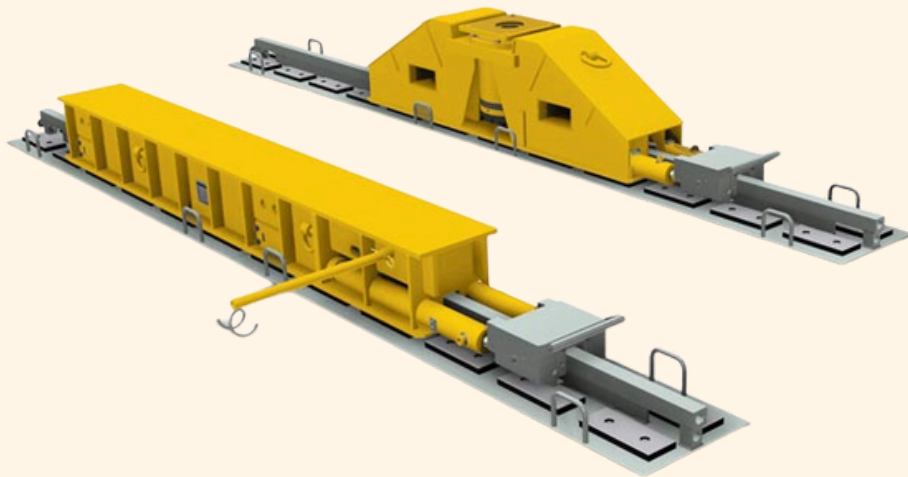
### ETR100H, ELECTRIC TROLLEY WITH HCG1004 HYDRAULIC CYLINDER, 100 TON

Capacity per Trolley Unit (tons) **110**  
Maximum Sideload (tons) **1.66**  
Travel Speed, Low (ft/hr) **82**  
Travel Speed, High (ft/hr) **164**  
Motor Power (hp) **1.0**  
Motor Voltage (VAC) **380-480**  
Current Draw (Amps) **32**  
Sound Level (dBA) **<80**  
Weight (kg) **860**

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## HEAVY LIFTING TECHNOLOGY



## HYDRAULIC SKIDDING SYSTEMS

Enerpac has applied high-pressure hydraulics to maximize the efficiency of our skidding systems. A skidding system is comprised of a series of skid beams moved by hydraulic push-pull cylinders, traveling over a pre-constructed track. A series of special PTFE-coated pads are placed on the skid tracks to reduce friction. The push pull cylinders are then connected by hoses to a pump.



Our Low Height Skidding System is a modular system that can jack and slide heavy loads over a pre-constructed track. The Low-Height Skidding System is comprised of a series of skid beams moved by hydraulic push-pull units, travelling over a pre-constructed track. A series of special PTFE-coated pads are placed on the skid tracks to reduce friction. The push-pull units are powered by a standard Enerpac Split Flow Pump (ordered separately) to ensure each skid beam travels synchronously.

The LH400SK Low Height Skidding Set comes with two skidding units that will support up to 400 tons in total. After the job is complete, components can be stowed on the included storage and transport frame. SFP Series pumps (ordered separately) are the best choice to safely and efficiently operate the LH series skidding system.

### Features

This set includes:

- 2 push-pull units
- 4 skid beams
- 10 skid tracks
- 1 storage and transport frame

Features & Benefits include:

- 2-in-1 track design for added support
- Intuitive pump control via SFP pump (ordered separately)
- Easily reversible to change skidding direction
- Portable design for quick setup

### LH400SK, LOW HEIGHT SKIDDING SYSTEM SET, 25 TON PUSH CAPACITY

Maximum Lifting Capacity per Shoe (imperial tons) 100  
 Maximum Skidding Push Capacity (imperial ton) 25  
 Maximum Skidding Pull Capacity (imperial ton) 11  
 Push / Pull Stroke C (in) 23.5  
 Skid Shoe Weight (lbs) 139  
 Skid Track Weight (lbs) 148

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## HEAVY LIFTING TECHNOLOGY



### HYDRAULIC STRAND JACK GANTRIES

Strand jack gantries are a custom developed product for lifting and skidding heavy loads. Strand jacks enable a load to be lifted vertically over long distances while a skidding system or hydraulic gantry enable a load to be moved horizontally over long distances. The system is designed to allow you to operate in confined spaces. The capacity, height, width and capabilities are built to meet the needs of the customer's application.

### STRAND JACK GANTRY

Strand jack gantries are a custom developed product for lifting and skidding heavy loads. Strand jacks enable a load to be lifted vertically over long distances while a skidding system or hydraulic gantry enable a load to be moved horizontally over long distances. The system is designed to allow you to operate in confined spaces. The capacity, height, width and capabilities are built to meet the needs of the customer's application.

#### Features

Strand jack gantries are built in 2 configurations:

- Steel support structure
- Strand jacks for vertical lifting (HSL-series)
- Hydraulic gantry or skidding system (HSK1250) for horizontal skidding
- A hydraulic power unit situated on the ground level

Maximum Lifting Capacity per Shoe (imperial tons) **100**

Maximum Skidding Push Capacity (imperial ton) **25**

Maximum Skidding Pull Capacity (imperial ton) **11**

Push / Pull Stroke C (in) **23.5**

Skid Shoe Weight (lbs) **139**

Skid Track Weight (lbs) **148**



# HEAVY LIFTING TECHNOLOGY

## JACK-UP SYSTEMS

The Jack-Up System is a multipoint lifting system. A typical system setup includes four jack-up units positioned under each corner of a load. A four unit setup has a lifting capacity of 2,000 metric tons (500 tons per unit). The lifting frame of a jack-up contains four hydraulic cylinders in each corner which lift and stack steel boxes. A load is lifted in increments as boxes are slid into the system, lifted, and stacked; forming 'lifting towers'. A Jack-Up System is operated and controlled by a computer control unit. Each unit's lifting and lowering operations occur simultaneously; the computer control unit's synchronous technology maintains the balance of the load. The hydraulics power units are embedded within each unit's lifting frame. Safe lifting heights are dependent on the expected side load.



### JS250, 275 TON, JACK-UP SYSTEM

Capacity per Tower (imperial tons) ---- 275  
Maximum Sideload (ft) --- 3% @ 32.8 ft  
Maximum Lifting Speed (ft per hr)---- 13  
Electric Power Pack (hp) --- 20  
Weight per jack-up tower, excluding adjustable top barrel (lbs) --- 16500  
Weight Adjustable Top Barrel (3D Swivel) (lbs)---- 6450



### JS500, 550 TON, JACK-UP SYSTEM

Capacity per Tower (imperial tons) ----550  
Maximum Sideload (ft) ----4% @ 49.2 ft  
Maximum Lifting Speed (ft per hr) ----13  
Electric Power Pack (hp) ----40  
Weight per jack-up tower, excluding adjustable top barrel (lbs) ----30250  
Weight Adjustable Top Barrel (3D Swivel) (lbs) 8470

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