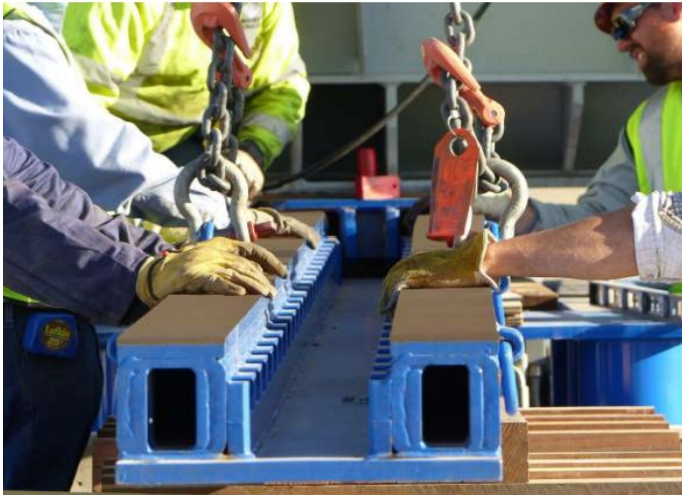
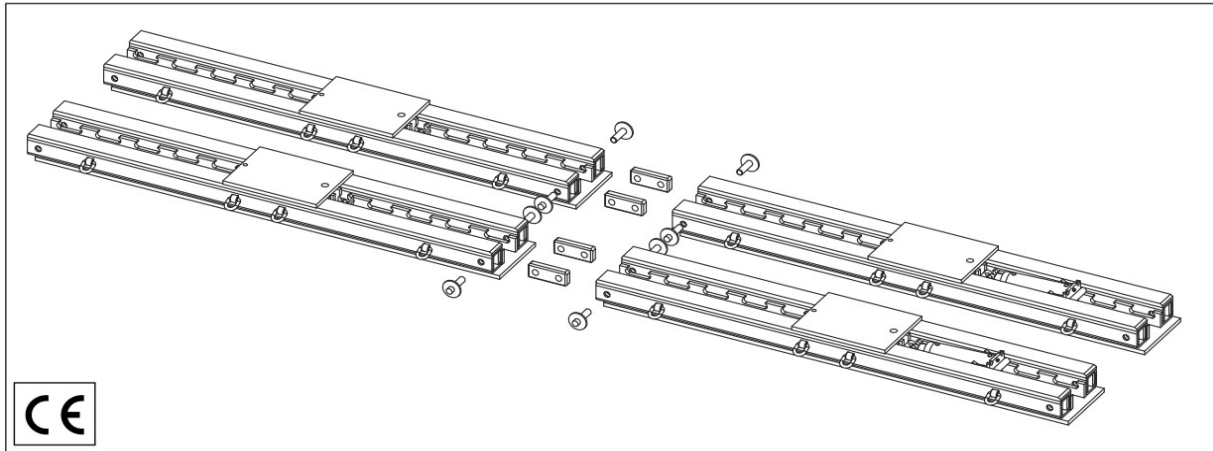


# HT500

## HEAVY TRACK SKIDDING SYSTEM

22



The HT500 features rigid steel tracks designed to carry loads over unsupported spans, is engineered to push loads up to 500 tons (454 tonnes), and has a working height of only 8" (205 mm).

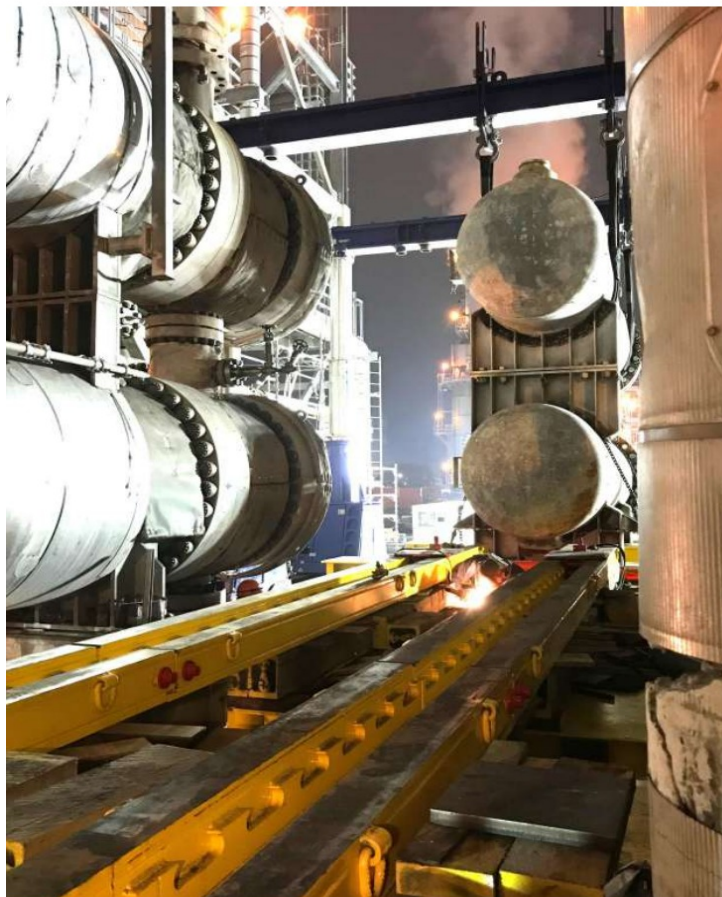
- Quick & simple track connections
- Designed to both push and pull
- Durable graphite slide surface
- Cylinders automatically reset
- Stamped, engineered assembly drawings and capacity charts provided



# HT500

## HEAVY TRACK SKIDDING SYSTEM

23



### HT500 Specifications

Skidding Push Capacity*	<b>500 ton</b> 454 tonne
Skidding Pull Capacity*	<b>250 ton</b> 227 tonne
Working Height	<b>8"</b> 205 mm
Cylinder Capacity - Push	<b>55 ton</b> 50 tonne
Cylinder Capacity - Pull	<b>28 ton</b> 25 tonne
Cylinder Push/Pull Stroke	<b>13"</b> 330 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
Skid Shoe Capacity	<b>125 ton</b> 113.5 tonne
System Coefficient of Friction	<b>15-20%</b>
Slide Surface Material	Graphite
Maximum Slope	<b>+/- 2%</b>
Track Alignment Tolerance	<b>+/- 0.25"</b> +/- 6 mm
Maximum Operating Pressure	<b>10,000 psi</b> 700 bar

\*Based on standard system with (2) cylinders  
& (4) skid shoes

HT500 Dimensions	Length	Width*	Height	Weight
20' Track Section	<b>20'</b> 6.10 m	<b>17.5"</b> 445 mm	<b>7"</b> 180 mm	<b>3460 lb</b> 1569 kg
19'-2" Track Section	<b>19'-2"</b> 5.84 m	<b>17.5"</b> 445 mm	<b>7"</b> 180 mm	<b>3270 lb</b> 1483 kg
15' Track Section	<b>15'</b> 4.57 m	<b>17.5"</b> 445 mm	<b>7"</b> 180 mm	<b>2590 lb</b> 1175 kg
12'-6" Track Section	<b>12'-6"</b> 3.81 m	<b>17.5"</b> 445 mm	<b>7"</b> 180 mm	<b>2075 lb</b> 941 kg
10' Track Section	<b>10'</b> 3.05 m	<b>17.5"</b> 445 mm	<b>7"</b> 180 mm	<b>1730 lb</b> 785 kg
HT500 Skid Shoe	<b>24"</b> 610 mm	<b>18"</b> 460 mm	<b>6"</b> 150 mm	<b>200 lb</b> 91 kg
Storage Rack with shoes and blocks	<b>41"</b> 1040 mm	<b>39"</b> 990 mm	<b>33"</b> 840 mm	<b>1030 lb</b> 467 kg
Storage Box with components	<b>42"</b> 1070 mm	<b>34"</b> 860 mm	<b>22"</b> 560 mm	<b>1020 lb</b> 463 kg

\*Listed track widths are effective width;  
full width including lifting lugs is 20" (508mm)



All system components are stored in a steel box for convenience & easy transportation

# HT500 HEAVY TRACK SKIDDING SYSTEM

## PROJECT

Emergency replacement of a failed transformer

*The Hydra-Slide HT500 is often used for the relocation of power transformers, fluid/gas vessels, and transfer of large loads between rail and transport equipment.*

The Hydra-Slide skidding systems are an integral part of many of these projects. They can be utilized to efficiently and safely move large loads in confined spaces and allow for precise placement and alignment of heavy loads."

Steve Hentrich, HWP Rigging

Photo Credit: HWP Rigging, Missouri, 2016

# HYDRAULIC SKIDDING SPEED

25

## HT500 Skidding System

Hydraulic Cylinder Type	Powerteam RD5513
Effective Stroke Length	10" / 255mm
Cylinder Extend Volume	144.9 in <sup>3</sup> / 2.37 L
Cylinder Retract Volume	73.9 in <sup>3</sup> / 1.21 L

### Conventional Power Units

	CPU-1-2E	CPU-3-2E	CPU-4E	CPU-2G	CPU-4G
Hydraulic Pump	ZE3	ZE5	ZE6	ZG5	ZG6
Rated power	1.0 hp 0.75 kW	3.0 hp 2.2 kW	7.5 hp 5.6 kW	4.0 hp 3.0 kW	10.0 hp 7.5 kW
Total Output	40* in <sup>3</sup> /min 0.7* L/min	120* in <sup>3</sup> /min 2.0* L/min	200* in <sup>3</sup> /min 3.3* L/min	100* in <sup>3</sup> /min 1.6* L/min	200* in <sup>3</sup> /min 3.3* L/min
Output per Port†	20* in <sup>3</sup> /min 0.33* L/min	60* in <sup>3</sup> /min 1.0* L/min	100* in <sup>3</sup> /min 1.6* L/min	50* in <sup>3</sup> /min 0.82* L/min	100* in <sup>3</sup> /min 1.6* L/min
Cycle Time*	459 sec	160 sec	102 sec	192 sec	102 sec
Skidding Speed	7.0 ft/hour 2.0 m/hour	19 ft/hour 5.6 m/hour	29 ft/hour 8.9 m/hour	16 ft/hour 4.7 m/hour	29 ft/hour 8.9 m/hour

\* These are two-stage pumps; at pressures less than ~1000 psi (70 bar) the flow rate is significantly higher (typically only seen when cylinders are extended/retracted without load.)

† Values shown assume (2) hydraulic cylinders in operation

\* Cycle time accounts for full extension, full retraction, and a reaction time of 5 seconds per cycle

### Synchronous Power Units

	SPU-4D	SPU-6D/ SPU-8D	SPU-4E	SPU-6E	SPU-8E
Hydraulic Pump	PF1002	PF1002 x 2	PF1002	PF4011	PF4011
Rated power	23.0 hp 17.2 kW	50.0 hp 37.3 kW	15.0 hp 11.2 kW	30.0 hp 22.4 kW	40.0 hp 29.8 kW
Output per Port	115 in <sup>3</sup> /min 1.9 L/min	115 in <sup>3</sup> /min 1.9 L/min	115 in <sup>3</sup> /min 1.9 L/min	203 in <sup>3</sup> /min 3.3 L/min	203 in <sup>3</sup> /min 3.3 L/min
Cycle Time*	119 sec	119 sec	119 sec	70 sec	70 sec
Skidding Speed	25 ft/hour 7.6 m/hour	25 ft/hour 7.6 m/hour	25 ft/hour 7.6 m/hour	43 ft/hour 13.0 m/hour	43 ft/hour 13.0 m/hour
With Paired Ports†	50 ft/hour 15.2 m/hour	50 ft/hour 15.2 m/hour	50 ft/hour 15.2 m/hour	86 ft/hour 26.1 m/hour	86 ft/hour 26.1 m/hour

\* Cycle time accounts for full extension, full retraction, and a reaction time of 5 seconds per cycle

† Synchronous power units feature valves that allow each pair of ports to be combined into a single output, effectively doubling the oil flow rate