



HYDRA-SLIDE

Product Information
2023

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EXTREME LOW PROFILE SKIDDING SYSTEM



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Low Profile Skidding Systems

XLP30

EXTREME LOW PROFILE SKIDDING SYSTEM

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Innovation

Hydra-Slide has identified a gap in the traditional load-moving equipment available in the industrial market. There is a need for a reliable, safe method of moving loads in the range of 30 tons and under.

Pump carts, dollies, and forklifts are typically insufficient for the task, whereas gantries, cranes, and traditional skidding systems are expensive to mobilize, and oversized for this type of work. The result is often makeshift, untested methods using rollers, ropes and pulleys, or overloaded dollies – solutions that can be unpredictable and dangerous for both commodity and crew.

The XLP30 Skidding System bridges the gap so contractors can safely and efficiently move lighter loads with control and accuracy. The XLP30 is simple, user-friendly, and versatile - and like every Hydra-Slide system, it is **designed with the rigger in mind.**

The XLP30 features a 1.125" (29mm) profile, is completely hand-portable, requires limited jacking, and can push or pull up to 30 tons (27 tonnes).

- Simple switch from push to pull mode
- Ideal for limited clearance/access
- Low-maintenance steel-UHMW slide surface
- Cylinders automatically reset, keeping crew members at a safe distance



XLP30

EXTREME LOW PROFILE SKIDDING SYSTEM

XLP30 Specifications

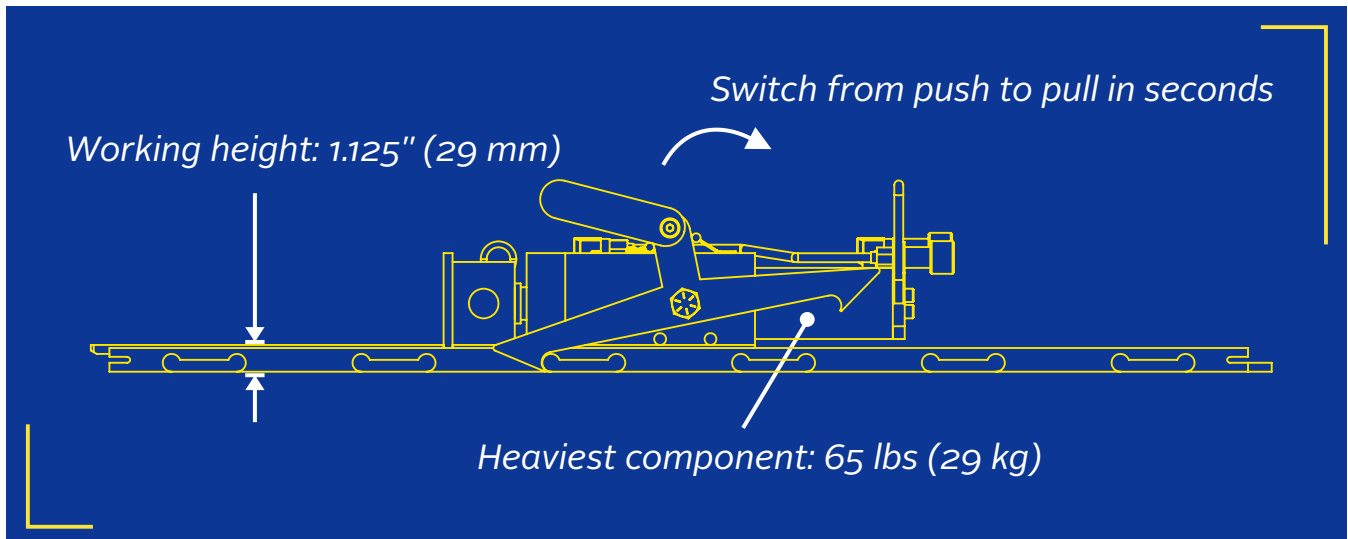
Skidding Push Capacity*	30 ton 27 tonne
Skidding Pull Capacity*	30 ton 27 tonne
Skidding System Height	1.125" 29 mm
Cylinder Capacity - Push	10 ton 9 tonne
Cylinder Capacity - Pull	5 ton 4.5 tonne
Cylinder Push/Pull Stroke	10" 254 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
System Coefficient of Friction	10-15%
Surface Material	UHMW Polyethylene
Maximum Slope	+/- 2%
Alignment Tolerance	+/- 0.25" +/- 6 mm
Max. Operating Pressure	10,000 psi 700 bar

*Based on standard system with (2) cylinders



Full system is stored in a compact steel box for convenience & easy transportation

XLP30 Dimensions	Length	Width	Height	Weight
Track Section	56" 1.42 m	6.0" 150 mm	1.0" 25 mm	42 lb 19 kg
Slider Plate - 2'	24" 610 mm	3.75" 95 mm	0.375" 10 mm	8.9 lb 4.0 kg
Slider Plate - 4'	48" 1.22 m	3.75" 95 mm	0.375" 10 mm	18.6 lb 8.4 kg
Push/Pull Head	18" 460 mm	3.75" 95 mm	4" 100 mm	11 lb 5.0 kg
Cylinder Assembly	18" 460 mm	6" 150 mm	7" 180 mm	65 lb 29 kg
Full System in Storage Box	59" 1.50 m	39" 990 mm	29" 740 mm	1150 lb 518 kg



XLP30 Extreme Low Profile Skidding System

Hydraulic Cylinder Type	Powerteam RD1010
Effective Stroke Length	8" / 205mm
Cylinder Extend Volume	22.3 in ³ / 0.365 L
Cylinder Retract Volume	8.8 in ³ / 0.144 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 2.2	7.5 5.6	4.0 3.0	10.0 7.5
Total Output	40* in ³ /min 0.7* L/min	120* 2.0*	200* 3.3*	100* 1.6*	200* 3.3*
Output per Port†	20* in ³ /min 0.33* L/min	60* 1.0*	100* 1.6*	50* 0.82*	100* 1.6*
Cycle Time*	74 sec	29	20	33	20
Skidding Speed	33 ft/hour 10.1 m/hour	86 26.2	127 38.7	74 22.6	127 38.7

* 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 37.3	15.0 11.2	30.0 22.4	40.0 29.8
Output per Port	115 in ³ /min 1.9 L/min	115 1.9	115 1.9	203 3.3	203 3.3
Cycle Time*	21 sec	21	21	14	14
Skidding Speed	113 ft/hour 34.4 m/hour	113 34.4	113 34.4	169 51.5	169 51.5
With Paired Ports†	226 ft/hour 68.9 m/hour	226 68.9	226 68.9	338 103	338 103

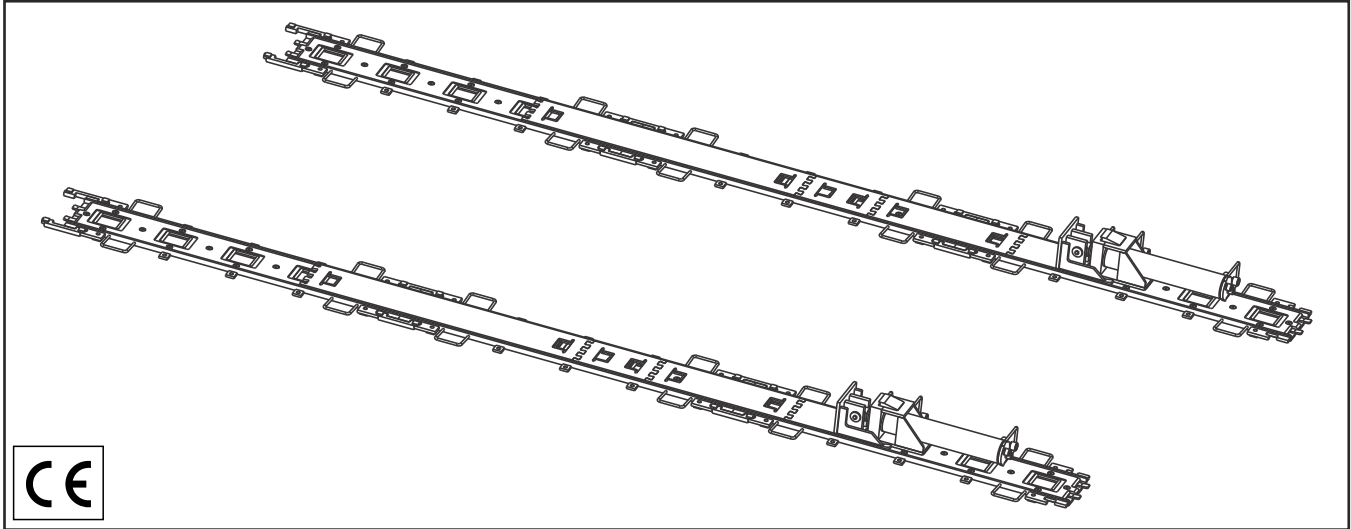
* Cycle time accounts for full extension, full retraction, and a reaction time of 5 seconds per cycle

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

XLP150

EXTREME LOW PROFILE SKIDDING SYSTEM

9



The XLP150 one of the most versatile skidding systems ever designed. It is completely hand-portable and is ideal for confined work spaces, indoor applications such as hospitals and laboratories - anywhere a clean, self-contained and compact system is essential. It performs just as well in harsh environments or underground.

- Simple switch from push to pull mode
- Ideal for limited clearance/access
- Low-maintenance steel-UHMW slide surface
- Cylinders automatically reset
- Stamped, engineered assembly drawings provided



XLP150

EXTREME LOW PROFILE SKIDDING SYSTEM



XLP150 Specifications	
Skidding Push Capacity*	250 ton 227 tonne
Skidding Pull Capacity*	150 ton 136 tonne
Skidding System Height	1.25" 32 mm
Cylinder Capacity - Push	30 ton 27 tonne
Cylinder Capacity - Pull	12.5 ton 11.5 tonne
Cylinder Push/Pull Stroke	14.25" 362 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
System Coefficient of Friction	10-15%
Slide Surface Material	UHMW Polyethylene
Maximum Slope	+/- 2%
Track Alignment Tolerance	+/- 0.25" +/- 6 mm
Maximum Operating Pressure	10,000 psi 700 bar

*Based on standard system with (2) cylinders

XLP150 Dimensions	Length	Width	Height	Weight
Track Section	60" 1.52 m	15.25" 390 mm	1.125" 29 mm	65 lb 29 kg
Slider Plate - 1'	12" 300 mm	7.75" 200 mm	0.375" 10 mm	7.5 lb 3.4 kg
Slider Plate - 2'	24" 610 mm	7.75" 200 mm	0.375" 10 mm	17.5 lb 7.9 kg
Slider Plate - 4'	48" 1.22 m	7.75" 200 mm	0.375" 10 mm	40 lb 18 kg
Push/Pull Head	19" 483 mm	7.75" 200 mm	6.5" 165 mm	31 lb 14 kg
Cylinder Assembly	26" 660 mm	7.75" 200 mm	8" 203 mm	80 lb 36 kg
Full System in Storage Box	76" 1.93 m	48" 1.22 m	31" 790 mm	2090 lb 948 kg



Full system is stored in a compact steel box for convenience & easy transportation



XLP150 EXTREME LOW PROFILE SKIDDING SYSTEM

“

The XLP150 presented a myriad of safety and productivity advantages.”

-Bill Watts, Edwards Moving & Rigging

PROJECT

Edwards Moving & Rigging used their XLP150 skidding system to remove and replace small transformers inside a high-security power plant in the southeastern US.

The work site presented numerous challenges - low headroom, a confined workspace, and no forklift access - making the hand-portable and compact XLP150 an ideal solution.

XLP150 Skidding System

Hydraulic Cylinder Type	HS3014
Effective Stroke Length	12" / 305mm
Cylinder Extend Volume	92.7 in ³ / 1.52 L
Cylinder Retract Volume	43.0 in ³ / 0.70 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 ³ /min 0.7* L/min	120* in ³ /min 2.0* L/min	200* in ³ /min 3.3* L/min	100* in ³ /min 1.6* L/min	200* in ³ /min 3.3* L/min
Output per Port†	20* in ³ /min 0.33* L/min	60* in ³ /min 1.0* L/min	100* in ³ /min 1.6* L/min	50* in ³ /min 0.82* L/min	100* in ³ /min 1.6* L/min
Cycle Time‡	295 sec	104 sec	66 sec	124 sec	66 sec
Skidding Speed	12 ft/hour 3.7 m/hour	35 ft/hour 10.4 m/hour	54 ft/hour 16.3 m/hour	29 ft/hour 8.8 m/hour	54 ft/hour 16.3 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

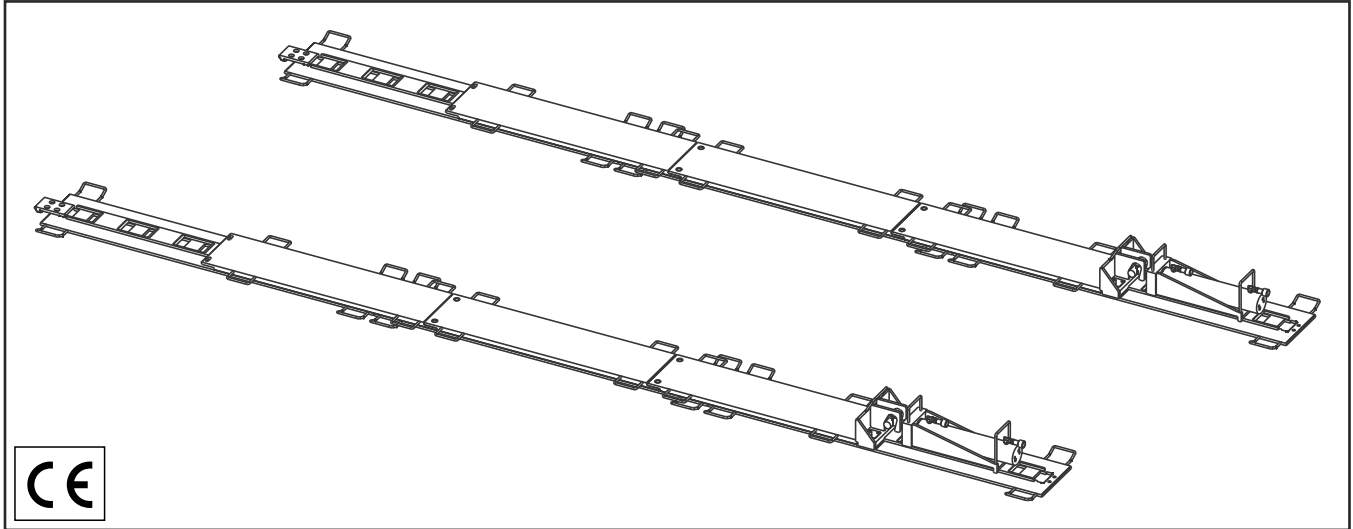
	SPU-4D	SPU-6D/ SPU-8D	SPU-4E	SPU-6E	SPU-8E
Hydraulic Pump	PF1002	PF1002 x 2	PF1002	PF4011	PF4011
Rated power	23.0 hp 17.2 kW	50.0 hp 37.3 kW	15.0 hp 11.2 kW	30.0 hp 22.4 kW	40.0 hp 29.8 kW
Output per Port	115 in ³ /min 1.9 L/min	115 in ³ /min 1.9 L/min	115 in ³ /min 1.9 L/min	203 in ³ /min 3.3 L/min	203 in ³ /min 3.3 L/min
Cycle Time*	76 sec	76 sec	76 sec	45 sec	45 sec
Skidding Speed	47 ft/hour 14.3 m/hour	47 ft/hour 14.3 m/hour	47 ft/hour 14.3 m/hour	80 ft/hour 24.0 m/hour	80 ft/hour 24.0 m/hour
With Paired Ports†	95 ft/hour 28.6 m/hour	95 ft/hour 28.5 m/hour	95 ft/hour 28.5 m/hour	160 ft/hour 48.1 m/hour	160 ft/hour 48.1 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

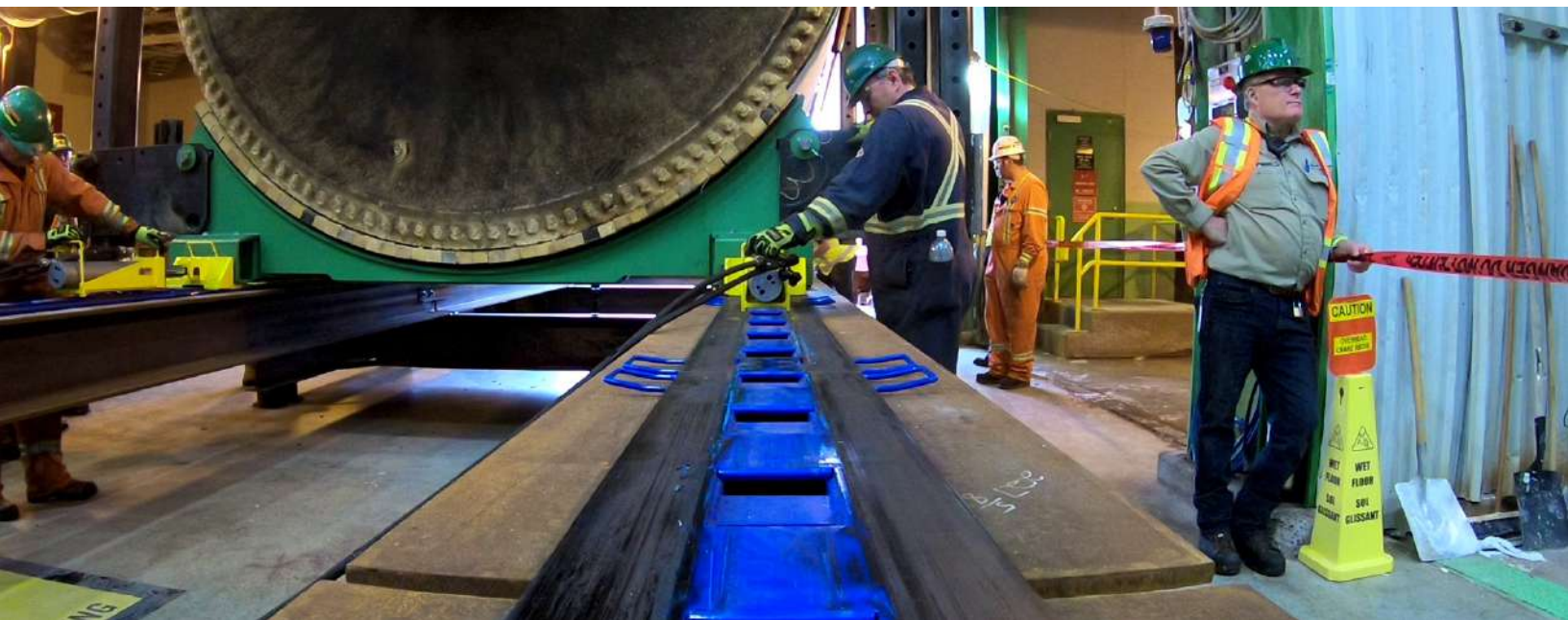
LP350

LOW PROFILE SKIDDING SYSTEM



The LP350 is our workhorse low-profile skidding system. Engineered for function and convenience, the LP350 has a durable graphite slide surface and a working height of 1.5" (38mm).

- Capable of pushing loads up to 350 tons (318 tonnes)
- Quick & simple track connections
- Durable graphite slide surface
- Cylinders automatically reset
- Stamped, engineered assembly drawings provided



LP350

LOW PROFILE SKIDDING SYSTEM

LP350 Specifications

Skidding Push Capacity*	350 ton 318 tonne
Working Height	1.5" 38 mm
Cylinder Capacity	30 ton 27 tonne
Cylinder Push/Pull Stroke	14.25" 362 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
System Coefficient of Friction	15-20%
Slide Surface Material	Graphite
Maximum Slope	+/- 2%
Track Alignment Tolerance	+/- 0.25" +/- 6 mm
Maximum Operating Pressure	10,000 psi 700 bar

*Based on standard system with (2) push cylinders



Full system is stored in a compact steel box for convenience & easy transportation



LP350 Dimensions	Length	Width (working)	Width (incl. handles)	Height	Weight
Track Section	72" 1.83 m	12" 305 mm	20" 508 mm	1" 25 mm	120 lb 54 kg
Slider Plate	48" 1.22 m	12" 305 mm	20" 508 mm	1" 25 mm	125 lb 56 kg
Cylinder Assembly	27" 690 mm	6.5" 170 mm	6.5" 170 mm	9" 230 mm	100 lb 45 kg
Full System in Storage Box	76" 1.93 m	48" 1.22 m	48" 1.22 m	31" 790 mm	3750 lb 1700 kg

LP350 LOW PROFILE SKIDDING SYSTEM

A GOOD FIT

The LP350 represents the continued evolution of the low-profile range that also includes the XLP150 extreme low profile system.

In contrast to their heavy track counterparts, these products are completely hand-portable, compact and ideal for use in areas with limited access or clearance.

“

We were very pleased with the [Hydra-Slide] system. We have a history stretching back 50 years—principally in Sweden but around the world too—and a hallmark of the company has always been innovation and development of our equipment fleet. The LP350 fits with that overarching theme.”

-Joakim Andersson, Jinert

Credit: Sven Jinert AB, Hässleholm, Sweden 2020

LP350 Skidding System

Hydraulic Cylinder Type	HS3014
Effective Stroke Length	12" / 305mm
Cylinder Extend Volume	92.7 in ³ / 1.52 L
Cylinder Retract Volume	43.0 in ³ / 0.70 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 0.75	3.0 2.2	7.5 5.6	4.0 3.0	10.0 7.5
Total Output	40* 0.7*	120* 2.0*	200* 3.3*	100* 1.6*	200* 3.3*
Output per Port†	20* 0.33*	60* 1.0*	100* 1.6*	50* 0.82*	100* 1.6*
Cycle Time‡	295	104	66	124	66
Skidding Speed	12 3.7	35 10.4	54 16.3	29 8.8	54 16.3

* 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 17.2	50.0 37.3	15.0 11.2	30.0 22.4	40.0 29.8
Output per Port	115 1.9	115 1.9	115 1.9	203 3.3	203 3.3
Cycle Time*	76	76	76	45	45
Skidding Speed	47 14.3	47 14.3	47 14.3	80 24.0	80 24.0
With Paired Ports†	95 28.6	95 28.5	95 28.5	160 48.1	160 48.1

* 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

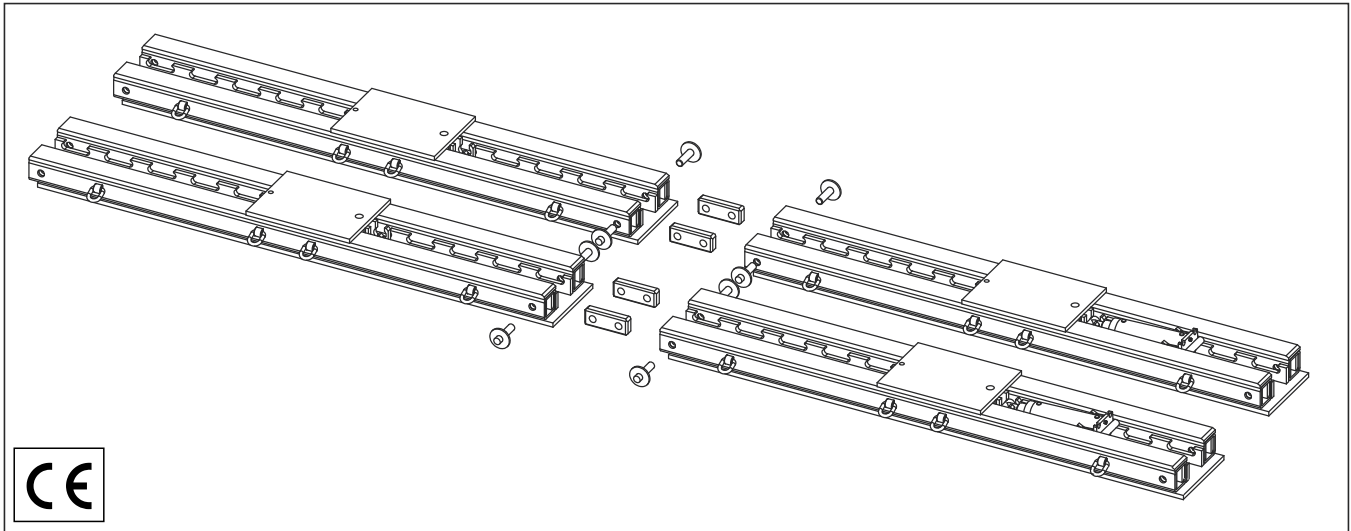


Heavy Track Skidding Systems

HT300

HEAVY TRACK SKIDDING SYSTEM

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The HT300 features rigid steel tracks designed to carry loads over unsupported spans, is engineered to push loads up to 300 tons (270 tonnes), and has a working height of only 7" (180 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



HT300

HEAVY TRACK SKIDDING SYSTEM



HT300 Specifications	
Skidding Push Capacity*	300 ton 270 tonne
Skidding Pull Capacity*	150 ton 135 tonne
Working Height	7" 180 mm
Cylinder Capacity - Push	30 ton 27 tonne
Cylinder Capacity - Pull	15 ton 13.5 tonne
Cylinder Push/Pull Stroke	14.25" 362 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
Skid Shoe Capacity	75 ton 67.5 tonne
System Coefficient of Friction	15-20%
Slide Surface Material	Graphite
Maximum Slope	+/- 2%
Track Alignment Tolerance	+/- 0.25" +/- 6 mm
Maximum Operating Pressure	10,000 psi 700 bar

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

HT300 Dimensions	Length	Width*	Height	Weight
20' Track Section	20' 6.10 m	16" 406 mm	6.25" 160 mm	2500 lb 1134 kg
19' Track Section	19' 5.80 m	16" 406 mm	6.25" 160 mm	2375 lb 1077 kg
15' Track Section	15' 4.57 m	16" 406 mm	6.25" 160 mm	1875 lb 850 kg
12' Track Section	12' 3.66 m	16" 406 mm	6.25" 160 mm	1500 lb 680 kg
10' Track Section	10' 3.05 m	16" 406 mm	6.25" 160 mm	1250 lb 567 kg
HT300 Skid Shoe	26" 660 mm	17" 430 mm	6" 150 mm	165 lb 75 kg
Storage Rack with shoes and blocks	41" 1040 mm	39" 990 mm	33" 840 mm	940 lb 426 kg
Storage Box with components	42" 1.07 m	34" 860 mm	22" 560 mm	1000 lb 454 kg

*Listed track widths are effective width; full width including lifting lugs is 18.5" (470mm)



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

HT300

HEAVY TRACK SKIDDING SYSTEM

PROJECT

Skidding two boilers inside an operational paper mill

SCOPE

- Boilers arrived on site by rail
- Transferred from rail to Hydra-Slide HT300 using 550-ton crane
- Transversed 60 m under existing pipe gallery and through an alleyway into the new boiler area

“We looked at beams and dollies, plate and dollies, multi-line transporters, etc.

None of these options could deliver a complete solution to the dimensional constraints, safety & engineering concerns, speed and control discussions nor the ease of use and functionality.

In short, we needed a solution that was pre-engineered, simple in design and effective regardless of weather conditions.”

Jason Walker, AME Inc.

With just inches to spare on all sides,
the Hydra-Slide equipment was chosen
for its low profile & simple mobilization

Photo Credit: AME Inc.
North Carolina, 2016

HT300 Skidding System

Hydraulic Cylinder Type	HS3014
Effective Stroke Length	12" / 305mm
Cylinder Extend Volume	92.7 in ³ / 1.52 L
Cylinder Retract Volume	43.0 in ³ / 0.70 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 ³ /min 0.7* L/min	120* in ³ /min 2.0* L/min	200* in ³ /min 3.3* L/min	100* in ³ /min 1.6* L/min	200* in ³ /min 3.3* L/min
Output per Port†	20* in ³ /min 0.33* L/min	60* in ³ /min 1.0* L/min	100* in ³ /min 1.6* L/min	50* in ³ /min 0.82* L/min	100* in ³ /min 1.6* L/min
Cycle Time‡	295 sec	104 sec	66 sec	124 sec	66 sec
Skidding Speed	12 ft/hour 3.7 m/hour	35 ft/hour 10.4 m/hour	54 ft/hour 16.3 m/hour	29 ft/hour 8.8 m/hour	54 ft/hour 16.3 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

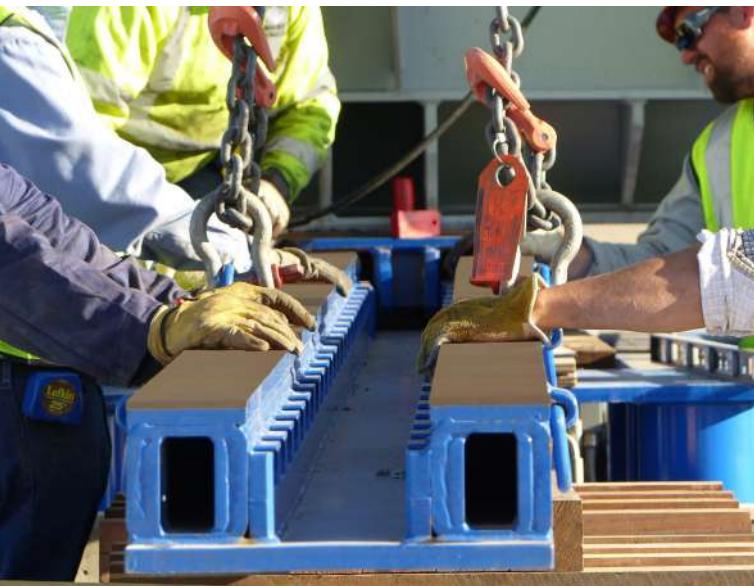
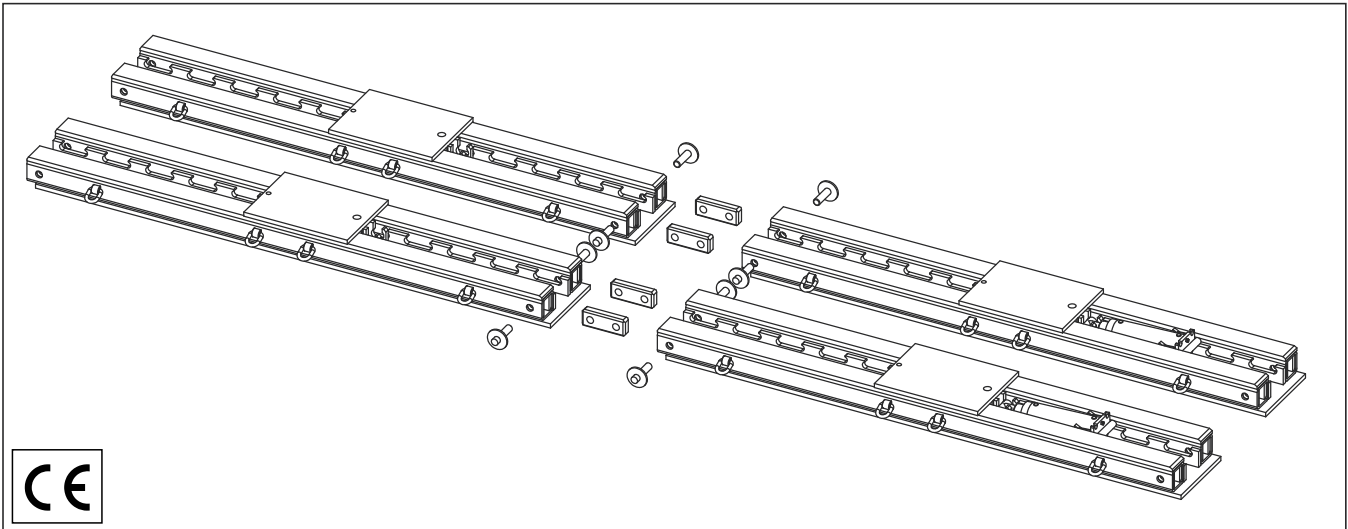
	SPU-4D	SPU-6D/ SPU-8D	SPU-4E	SPU-6E	SPU-8E
Hydraulic Pump	PF1002	PF1002 x 2	PF1002	PF4011	PF4011
Rated power	23.0 hp 17.2 kW	50.0 hp 37.3 kW	15.0 hp 11.2 kW	30.0 hp 22.4 kW	40.0 hp 29.8 kW
Output per Port	115 in ³ /min 1.9 L/min	115 in ³ /min 1.9 L/min	115 in ³ /min 1.9 L/min	203 in ³ /min 3.3 L/min	203 in ³ /min 3.3 L/min
Cycle Time*	76 sec	76 sec	76 sec	45 sec	45 sec
Skidding Speed	47 ft/hour 14.3 m/hour	47 ft/hour 14.3 m/hour	47 ft/hour 14.3 m/hour	80 ft/hour 24.0 m/hour	80 ft/hour 24.0 m/hour
With Paired Ports†	95 ft/hour 28.6 m/hour	95 ft/hour 28.5 m/hour	95 ft/hour 28.5 m/hour	160 ft/hour 48.1 m/hour	160 ft/hour 48.1 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

HT500

HEAVY TRACK SKIDDING SYSTEM



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



HT500 Specifications	
Skidding Push Capacity*	500 ton 454 tonne
Skidding Pull Capacity*	250 ton 227 tonne
Working Height	8" 205 mm
Cylinder Capacity - Push	55 ton 50 tonne
Cylinder Capacity - Pull	28 ton 25 tonne
Cylinder Push/Pull Stroke	13" 330 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
Skid Shoe Capacity	125 ton 113.5 tonne
System Coefficient of Friction	15-20%
Slide Surface Material	Graphite
Maximum Slope	+/- 2%
Track Alignment Tolerance	+/- 0.25" +/- 6 mm
Maximum Operating Pressure	10,000 psi 700 bar

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

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

HT500 Skidding System

Hydraulic Cylinder Type	Powerteam RD5513
Effective Stroke Length	10" / 255mm
Cylinder Extend Volume	144.9 in ³ / 2.37 L
Cylinder Retract Volume	73.9 in ³ / 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 2.2	7.5 5.6	4.0 3.0	10.0 7.5
Total Output	40* in ³ /min 0.7* L/min	120* 2.0*	200* 3.3*	100* 1.6*	200* 3.3*
Output per Port†	20* in ³ /min 0.33* L/min	60* 1.0*	100* 1.6*	50* 0.82*	100* 1.6*
Cycle Time*	459 sec	160	102	192	102
Skidding Speed	7.0 ft/hour 2.0 m/hour	19 5.6	29 8.9	16 4.7	29 8.9

* 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

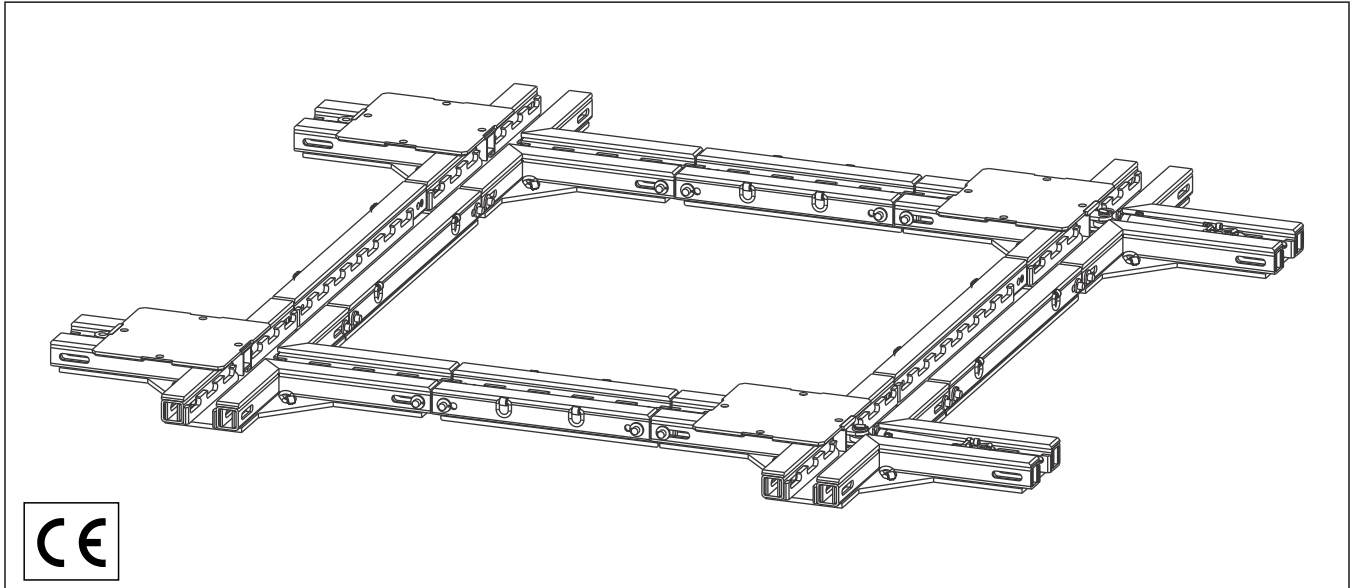
Synchronous Power Units

	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 37.3	15.0 11.2	30.0 22.4	40.0 29.8
Output per Port	115 in ³ /min 1.9 L/min	115 1.9	115 1.9	203 3.3	203 3.3
Cycle Time*	119 sec	119	119	70	70
Skidding Speed	25 ft/hour 7.6 m/hour	25 7.6	25 7.6	43 13.0	43 13.0
With Paired Ports†	50 ft/hour 15.2 m/hour	50 15.2	50 15.2	86 26.1	86 26.1

* 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

HEAVY TRACK CROSSOVER SYSTEM



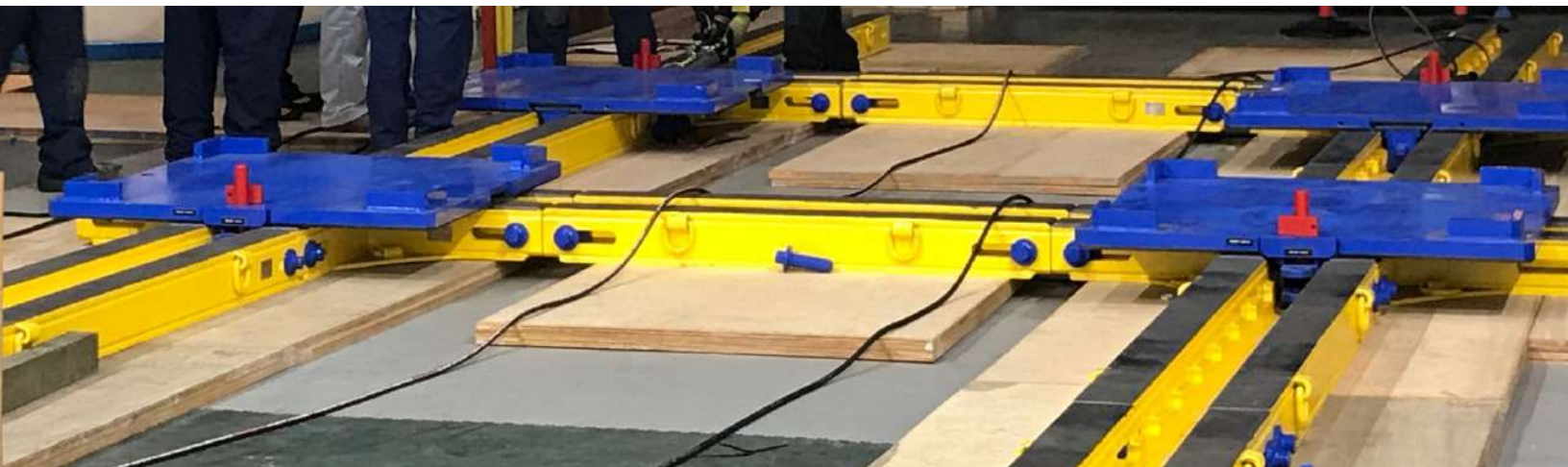
The Crossover system allows a 90° change of direction while skidding, without jacking the load or repositioning tracks and skid shoes.

Movement along either the x- or y-axis is accomplished by simply removing the guide rail within the shoe and positioning in the perpendicular direction. No heavy equipment is required, and there is no down-time during the direction change. Because the track lattice is built to a specific load footprint, it is primarily intended for applications where the item(s) being moved have consistent dimensions.

Crossover systems are available for both the HT300 and HT500 Heavy Track skidding systems, and work with our standard pin and lug connectors.

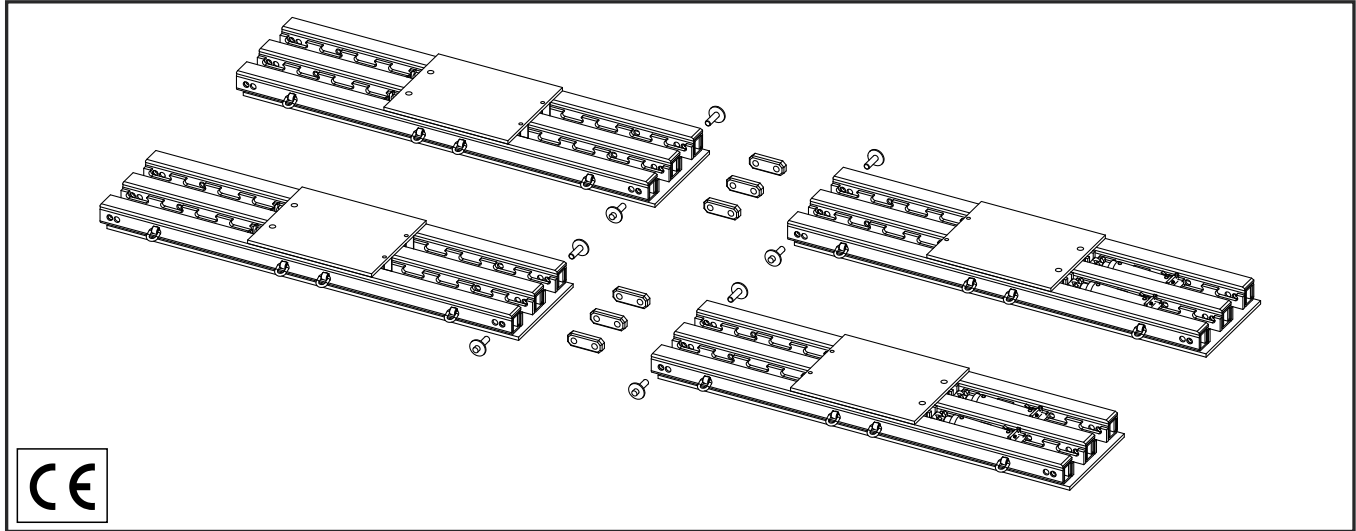
Cross Over Specifications		
Base Skidding System	HT300	HT500
Crossover Track Length*	58.375" 1.48 m	52" 1.32 m
Crossover Track Width	58.375" 1.48 m	52" 1.32 m
Crossover Track Height	6.25" 160 mm	7" 180 mm
Crossover Track Weight	1130 lb 513 kg	1350 lb 612 kg

*Track lengths and crossover skid shoes are customizable to suit any spacing requirements



HT1000

TRI-RAIL SYSTEM



The HT1000 Tri-Rail is our highest-capacity stand-alone skidding system. Each track incorporates two cylinders for maximum push capacity, and the system's working height is just 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





HT1000 Specifications	
Skidding Push Capacity*	1000 ton 907 tonne
Skidding System Height	8" 205 mm
Cylinder Capacity - Push	55 ton 50 tonne
Cylinder Capacity - Pull	28 ton 25 tonne
Cylinder Push/Pull Stroke	13" 330 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
Skid Shoe Capacity	250 ton 227 tonne
System Coefficient of Friction	15-20%
Slide Surface Material	Graphite
Maximum Slope	+/- 2%
Track Alignment Tolerance	+/- 0.25" +/- 6 mm
Maximum Operating Pressure	10,000 psi 700 bar

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

HT1000 Dimensions	Length	Width	Height	Weight
20' Track Section	20' 6.10 m	34" 860 mm	7" 180 mm	5600 lb 2560 kg
19'-2" Track Section	19'-2" 5.84 m	34" 860 mm	7" 180 mm	5367 lb 2434 kg
15' Track Section	15' 4.57 m	34" 860 mm	7" 180 mm	4200 lb 1905 kg
12'-6" Track Section	12'-6" 3.81 m	34" 860 mm	7" 180 mm	3360 lb 1524 kg
10' Track Section	10' 3.05 m	34" 860 mm	7" 180 mm	2800 lb 1270 kg
HT1000 Skid Shoe	40" 1.02 m	30.5" 775 mm	6" 150 mm	490 lb 222 kg
Storage Box (two per system)	42" 1.07 m	34" 860 mm	22" 560 mm	1000 lb 454 kg



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

HT1000 TRI-RAIL SYSTEM

PROJECT

Emergency replacement of a failed transformer

SCOPE

A 670-ton fully dressed transformer is skidded during a live site test in Oregon, USA. In the event of a failure, the rigging crew can quickly change out the transformer using their on-site HT1000 system.

The HT1000 is our highest-capacity skidding system, providing exceptional load-moving capability while maintaining a low profile.

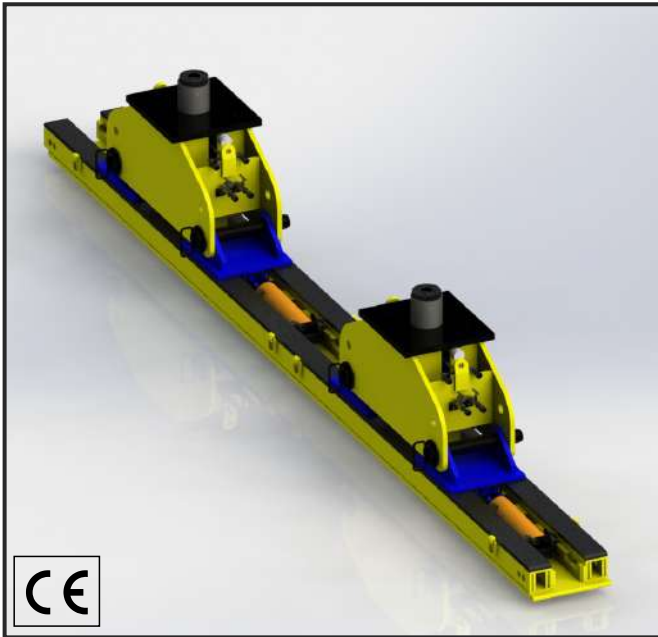
This system can be mobilized in areas with restricted access, tight clearance, and ground conditions unsuitable for crane operation.



**Specialized
Hydraulic Equipment**

JLS250

JACKING LOAD SHOES



Our JLS250 jacking load shoes are load-compensating skid shoes designed to work with both our HT300 & HT500 skidding systems.

- Each shoe includes a 250-ton (227-tonne) double-acting lift cylinder
- Two pressure and two return ports allow parallel connection
- Universal shoe is compatible with both HT300 and HT500 systems
- Can be configured in 3- or 4-point suspension groupings for stability and load distribution



JLS250 shoes can be hydraulically connected with any number of other shoes to increase the total system capacity while maintaining equal load support and weight distribution.



JLS250 Specifications

Base Skidding System	HT300	HT500
System Capacity (4 Shoes)	600 ton 544 tonne	1000 ton 907 tonne
System Capacity (6 Shoes)	900 ton 816 tonne	1500 ton 1361 tonne
System Capacity (8 Shoes)	1200 ton 1089 tonne	2000 ton 1814 tonne
System Height (Retracted)	31.75" 805 mm	32.5" 825 mm
Lift Cylinder Capacity	250 ton 227 tonne	250 ton 227 tonne
Lift Cylinder Stroke	10" 255 mm	10" 255 mm
Tilting Load Cap	+/- 5%	+/- 5%
Push Cylinder Capacity	30 ton 27 tonne	55 ton 50 tonne
Push Cylinder Stroke	14.25" 362 mm	13" 330 mm
Skidding Speed*	90 ft/hr 27 m/hr	55 ft/hr 17 m/hr
System Coefficient of Friction	15-20%	
Slide Surface Material	Graphite	
Maximum Slope	+/- 2%	
Track Alignment Tolerance	+/- 0.25" +/- 6 mm	
Maximum Operating Pressure	10,000 psi 700 bar	
Hydraulic Groupings	3-Point or 4-Point	

*Speed determined using Hydra-Pac SPU-4D

JLS250 Dimensions

Weight (per shoe)	2100 lbs 953 kg
Length	66" 1680 mm
Width	24" 610 mm
Working Height - Retracted (HT300)	31.75" 805 mm
Working Height - Extended (HT300)	41.75" 1060 mm
Working Height - Retracted (HT500)	32.5" 825 mm
Working Height - Extended (HT500)	42.5" 1080 mm

Did you know?



When multiple hydraulic cylinders are used to support a load, it may be advantageous to connect the cylinders into 3 separate hydraulic groups, referred to as a *3-point suspension*.

The cylinders within each group are connected in parallel, but each of the 3 groups is independent from each other.

To understand the concept, consider that a 3-legged stool will not wobble; each leg remains in contact with the floor. The legs form a *stability triangle*.



Our engineered Turntables are extremely simple and low-maintenance, and they solve a big problem: rotating any heavy or oversized load accurately and efficiently, even in areas of restricted access or clearance.

- Capacity up to 900 tons (816 tonnes)
- Fully bidirectional rotating mechanism
- Cylinders automatically reset during rotation
- Low-maintenance graphite-grease contact surface
- Stamped, engineered assembly drawings provided

Like all Hydra-Slide skidding systems, Hydra-Slide's TT-series Turntables are designed with cylinders that self-reset into ratchets along the rotating plate.

This eliminates the need for pulleys, hold backs, winch lines, or other external forces acting on the load.

Our Turntables can also accommodate multiple push cylinders to increase system capacity.





Turntable Specifications	TT-6	TT-7.5	TT-8	TT-10
System Capacity	150 ton <i>136 tonne</i>	225 ton/cyl. <i>204 tonne/cyl.</i>	250 ton/cyl. <i>227 tonne/cyl.</i>	250 ton/cyl. <i>227 tonne/cyl.</i>
Maximum Load Capacity	150 ton <i>136 tonne</i>	450 ton <i>408 tonne</i>	500 ton <i>454 tonne</i>	900 ton <i>816 tonne</i>
Turntable Height	4.5" <i>115 mm</i>	6" <i>152 mm</i>	6" <i>152 mm</i>	6" <i>152 mm</i>
Cylinder Capacity	10 ton <i>9.1 tonne</i>	25 ton <i>22.7 tonne</i>	25 ton <i>22.7 tonne</i>	25 ton <i>22.7 tonne</i>
No. of Push Cylinders	2	1 or 2	1 or 2	1, 2, or 4
Cylinder Stroke	10" <i>254 mm</i>	14.25" <i>362 mm</i>	14.25" <i>362 mm</i>	14.25" <i>362 mm</i>
Cylinder Hydraulic Couplers	Enerpac CR400 (female)	Enerpac CR400 (female)	Enerpac CR400 (female)	Enerpac CR400 (female)
Rotation Speed	90° / 3 min	90° / 7 min	90° / 7 min	90° / 9 min
Loading Surface Material	Rubber	Rubber	Rubber	Rubber
Max. Operating Pressure	10,000 psi <i>700 bar</i>	10,000 psi <i>700 bar</i>	10,000 psi <i>700 bar</i>	10,000 psi <i>700 bar</i>
Base Dimensions	6' x 6' <i>1.83 m x 1.83 m</i>	7.5' x 7.5' <i>2.29 m x 2.29 m</i>	8' x 8' <i>2.44 m x 2.44 m</i>	10' x 10' <i>3.05 m x 3.05 m</i>
Rotating Plate Diameter	6' <i>1.83 m</i>	7.5' <i>2.29 m</i>	8' <i>2.44 m</i>	10' <i>3.05 m</i>
System Weight	1645 lb <i>745 kg</i>	5625 lb <i>2550 kg</i>	6400 lb <i>2900 kg</i>	9500 lb <i>4300 kg</i>

HYDRAULIC TURNTABLES

PROJECT

HWP Rigging developed an innovative approach to constructing a pedestrian bridge connecting two high-rise office buildings in busy downtown St. Louis, MO, USA. Moving this structure in its entirety required the combined use of many different types of rigging and transportation equipment including SPMTs, hydraulic gantries, and a Hydra-Slide TT-8 hydraulic turntable. The TT-8 was used to rotate the structure into its final orientation efficiently and accurately.

The work was performed in a single weekend, which helped to minimize impact to traffic and the local community. All of the equipment was seamlessly integrated in order to safely and efficiently transport the structure and lift it into place in one continuous sequence.



“

[The TT-8 Turntable] performed very well and was able to rotate the 90' long bridge span in a controllable manner so that our team could locate the steel precisely onto the abutments.”

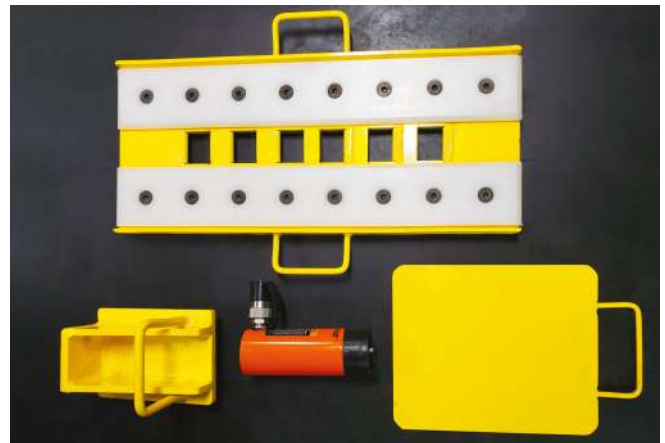
-Steve Hentrich, HWP Rigging

AS150 ALIGNMENT SHOES



The AS150 Alignment Shoe system makes final precise positioning of a load simple and accurate. Each component is hand-portable, allowing transportation, set-up, and mobilization with minimal personnel and equipment.

AS150 Specifications	
Full System Capacity	150 ton 138 tonne
Capacity Per Shoe	37.5 ton 34 tonne
Cylinder Capacity	10 ton 9 tonne
Cylinder Stroke	4" 100 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
Working Height	1.75" 44 mm
System Coefficient of Friction	10-15%
Friction Surface Material	UHMW polyethylene
Maximum Slope	+/- 2%
Maximum Operating Pressure	10,000 psi 700 bar



With a 150-ton (138-tonne) capacity and maximum component weight of 39 lb (18 kg), this system is designed for effortless set-up and maximum portability.



Dimensions	Length	Width (working)	Width (full)	Height	Weight
Track Section	25" 635 mm	10" 254 mm	15.625" 397 mm	1.125" 29 mm	39 lb 18 kg
Slider Plate	12" 305 mm	10" 203 mm	10" 203 mm	0.375" 10 mm	13 lb 6 kg
Push Cylinder & Support	7.25" 184 mm	4.75" 121 mm	4.75" 121 mm	4.75" 121 mm	25 lb 11 kg

AS500

ALIGNMENT SHOES



AS500 Specifications

Full System Capacity (4 Alignment Shoes)	500 ton 454 tonne
Alignment Shoe Capacity (each)	125 ton 113 tonne
Cylinder Capacity	50 ton 45.4 tonne
Cylinder Stroke	2" or 4" 50 mm or 100 mm
Cylinder Hydraulic Couplers	Enerpac CR400 (female)
Working Height	1.5" 38 mm
System Coefficient of Friction	15-20%
Slide Surface Material	Graphite
Maximum Slope	+/- 2%
Maximum Operating Pressure	10,000 psi 700 bar



The AS500 Alignment Shoe system makes final precise positioning of a load simple and accurate. Each component is hand-portable, allowing transportation, set-up, and mobilization with minimal personnel and equipment.

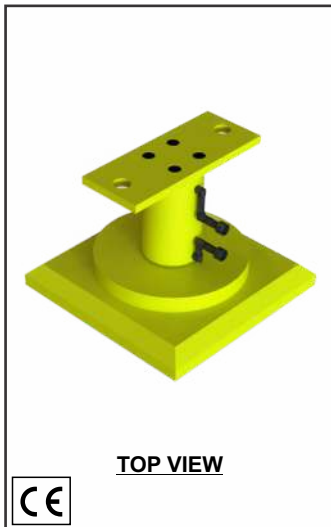
- 500 ton (454 tonne) system capacity
- 1.5" (38 mm) working height
- Durable rubber base prevents unwanted movement



Full system is stored in a compact steel box for convenience & easy transportation

AS500 Dimensions	Length	Width (working)	Width (full)	Height	Weight
Alignment Shoe Base	30" 762 mm	12" 510 mm	20" 510 mm	6" 150 mm	110 lb 50 kg
Slider Plate	14" 356 mm	10.375" 260 mm	10.375" 260 mm	0.75" 19 mm	25 lb 11 kg
Push Cylinder (Retracted)	5" 130 mm	5" 130 mm	5" 130 mm	7" 183 mm	37 lb 17 kg
Storage Box	34" 860 mm	34" 860 mm	34" 860 mm	22" 560 mm	1075 lb 488 kg

HYDRA-JACK CLIMBING JACKS



Hydra-Jack™ Climbing Jacks incorporate a hydraulic cylinder inverted inside a specially designed load casing. As the jacks are extended and retracted, block piles are progressively built under the jack for a fast and safe means of raising or lowering large loads or structures.

- Available in 55 - 200 ton (50 - 180 tonne) capacity
- Equipped with velocity fuses to protect against hose rupture or rapid pressure loss
- Ideal for use with standard 4" x 4" (100mm x 100mm) jacking timbers
- Stamped, engineered drawing included

Climbing Jack	CJ55	CJ100	CJ200
Capacity	55 ton 50 tonne	100 ton 91 tonne	200 ton 181 tonne
Cylinder Type	PowerTeam RD556	Enerpac RR1006	PowerTeam RD2006
Stroke	6" 150 mm	6" 150 mm	6" 150 mm
Retracted Height	15.5" 395 mm	18" 460 mm	21.5" 550 mm
Base Dimensions	17" x 17" 430 mm x 430 mm	24" x 24" 610 mm x 610 mm	28" x 28" 710 mm x 710 mm
Max. Operating Pressure	10,000 psi 700 bar	10,000 psi 700 bar	10,000 psi 700 bar
Weight	300 lb 136 kg	750 lb 340 kg	1450 lb 658 kg

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Hydraulic Power Units

CONVENTIONAL

HYDRAULIC POWER UNITS



These single-circuit, cart-mounted power units are suitable for the operation of all Hydra-Slide equipment as well as most double-acting jacking applications. They are suitable in applications that do not require synchronized flow rates.

Radio control upgrade package available

Model		CPU-1-2E†	CPU-3-2E	CPU-4E	CPU-2G	CPU-4G
Drive Type		Electric	Electric	Electric	Gasoline	Gasoline
No. of Pressure Outlets*		2	2	4	2	4
No. of Return Outlets*		2	2	4	2	4
Engine Power	hp	1	3	7	4	10
	kW	0.75	2	5	3	8
Flow Rate (two-stage)	gal/min	2.8 / 0.26	3.7 / 0.5	3.9 / 0.9	3.0 / 0.4	3.9 / 0.9
	L/min	10.6 / 1.0	14 / 1.9	15 / 3.3	11 / 1.6	15 / 3.3
Reservoir Volume	gal.	10	10	10	10	10
	L	38	38	38	38	38
Max. Operating Pressure	psi	10,000	10,000	10,000	10,000	10,000
	bar	700	700	700	700	700
Length	in.	31	31	31	31	50
	mm	790	790	790	790	1270
Width	in.	29	29	29	29	33
	mm	740	740	740	740	840
Height	in.	42	42	42	42	41
	mm	1070	1070	1070	1070	1040
Weight	lb	330	330	330	320	440
	kg	150	150	150	145	200
Voltage Options		115V single-phase	3-phase‡	3-phase‡	n/a	n/a

* Units come standard with Enerpac CR400 (female) quick connect couplers on all outlets; custom options available on request.

† Intended for intermittent, light-duty use- ideal as a backup unit.

‡ Available in various standard voltages, 50 Hz and 60 Hz.

HYDRA-PAC

SYNCHRONOUS POWER UNITS

DIESEL



PROPANE



ELECTRIC



Hydra-Pac Synchronous Power Units provide synchronized control of multiple hydraulic cylinders. These units are designed with multiple independent oil circuits to provide equal flow to each line regardless of weight distribution.

- Available with diesel, propane, or electric drive
- Custom-built to operate 4, 6, or 8 cylinders
- Large 30-gallon (113-litre) reservoir with 18 gallons (68-litre) usable oil
- Fully mechanical multi-point lifting and lowering without electronics or wires

Radio control upgrade package available



HYDRA-PAC

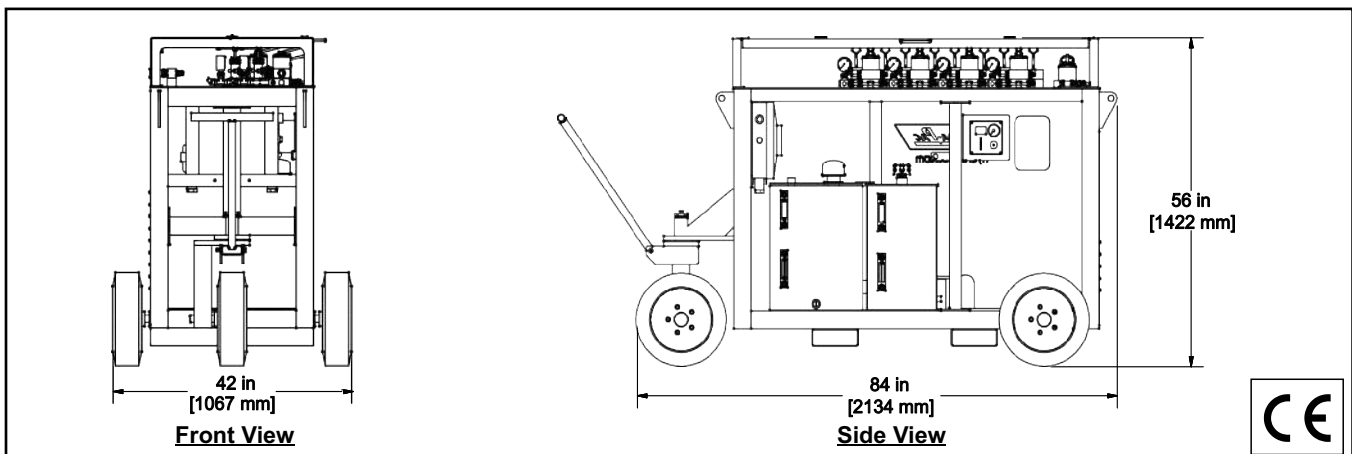
SYNCHRONOUS POWER UNITS

Model		SPU-4D	SPU-6D	SPU-8D	SPU-4P	SPU-6P	SPU-8P	SPU-4E	SPU-6E	SPU-8E
Drive Type		Diesel	Diesel	Diesel	Propane	Propane	Propane	Electric	Electric	Electric
No. of Advance Ports*		4	6	8	4	6	8	4	6	8
No. of Retract Ports*		4	6	8	4	6	8	4	6	8
Engine Power	hp <i>kW</i>	25 <i>18.5</i>	56 <i>42</i>	56 <i>42</i>	31 <i>23</i>	62 <i>46</i>	62 <i>46</i>	15 <i>11</i>	30 <i>22</i>	40 <i>30</i>
Flow Rate (single port)	gal/min <i>L/min</i>	0.5 <i>1.9</i>	0.5 <i>1.9</i>	0.5 <i>1.9</i>	0.5 <i>1.9</i>	0.5 <i>1.9</i>	0.5 <i>1.9</i>	0.4† <i>1.4‡</i>	0.7† <i>2.6‡</i>	0.75† <i>2.8‡</i>
Flow Rate (paired)†	gal/min <i>L/min</i>	1.0 <i>3.8</i>	1.0 <i>3.8</i>	1.0 <i>3.8</i>	1.0 <i>3.8</i>	1.0 <i>3.8</i>	1.0 <i>3.8</i>	0.8 <i>2.8</i>	1.4 <i>5.2</i>	1.5 <i>5.6</i>
Usable Oil	gal. <i>L</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>	18 <i>68</i>
Max. Operating Pressure	psi <i>bar</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>	10,000 <i>700</i>
Length	in. <i>m</i>	84 <i>2.13</i>	104 <i>2.64</i>	104 <i>2.64</i>	84 <i>2.13</i>	104 <i>2.64</i>	104 <i>2.64</i>	84 <i>2.13</i>	104 <i>2.64</i>	104 <i>3.64</i>
Width	in. <i>m</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>	42 <i>1.07</i>
Height	in. <i>m</i>	56 <i>1.42</i>	56 <i>1.42</i>	56 <i>1.42</i>	63 <i>1.60</i>	63 <i>1.60</i>	63 <i>1.60</i>	56 <i>1.42</i>	56 <i>1.42</i>	56 <i>1.42</i>
Weight	lb <i>kg</i>	2050 <i>930</i>	2650 <i>1200</i>	2675 <i>1210</i>	1920 <i>870</i>	2650 <i>1200</i>	2675 <i>1210</i>	1915 <i>870</i>	2550 <i>1150</i>	2650 <i>1200</i>
Voltages Available		Not Applicable						230/460V - 60Hz - 3-phase 575V - 60Hz - 3-phase 208/415V - 50Hz - 3-phase		

* Units come standard with Enerpac CR400 (female) quick connect couplers on all ports; custom options available on request

† On Hydra-Pac power units, ports can be combined in pairs to double the available flow rate, which also halves the number of usable ports

‡ Variable Frequency Drive allows control of flow rate across a wide range



Shown: SPU-4D Synchronous Power Unit

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System Accessories

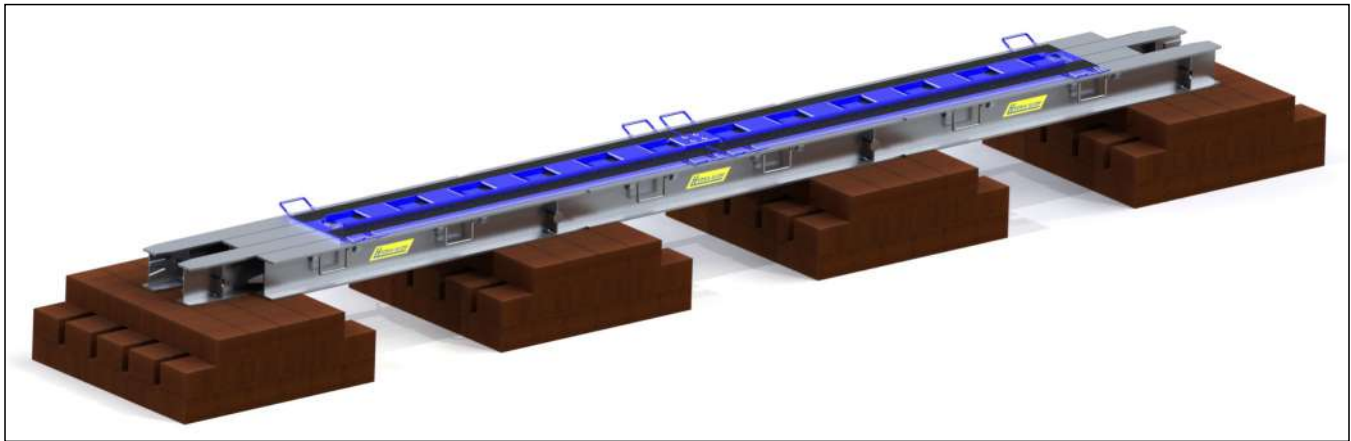


Engineered steel stands for jacking and shoring applications.

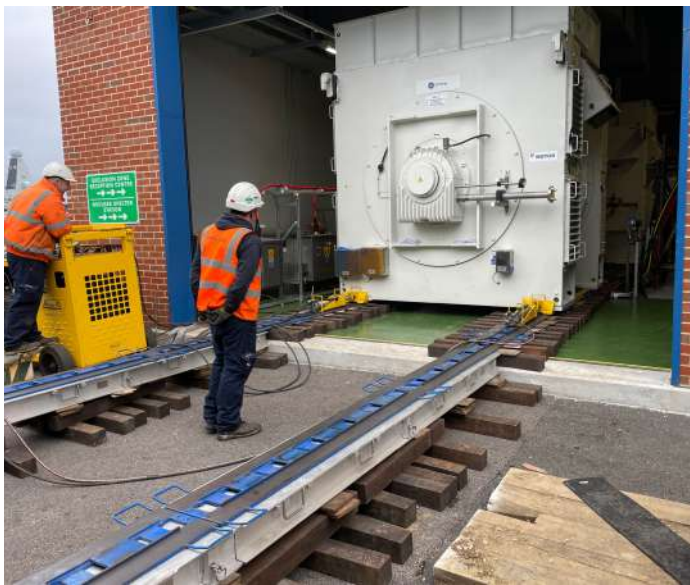
- Can be stacked and bolted together
- Equipped for lifting and handling by forklift
- Available in a range of standard heights
- Stamped, engineered drawing included

Stand	Base	Height	Weight	Capacity
MS100-18	36" x 36" 910 mm x 910 mm	18" 460 mm	560 lb 254 kg	100 ton 91 tonne
MS100-24	36" x 36" 910 mm x 910 mm	24" 610 mm	645 lb 293 kg	100 ton 91 tonne
MS100-30	36" x 36" 910 mm x 910 mm	30" 760 mm	730 lb 331 kg	100 ton 91 tonne
MS100-36	36" x 36" 910 mm x 910 mm	36" 910 mm	815 lb 370 kg	100 ton 91 tonne
MS100-42	36" x 36" 910 mm x 910 mm	42" 1070 mm	900 lb 408 kg	100 ton 91 tonne
MS100-48	36" x 36" 910 mm x 910 mm	48" 1220 mm	985 lb 447 kg	100 ton 91 tonne
SS100-12	24" x 24" 610 mm x 610 mm	12" 305 mm	385 lb 175 kg	100 ton 91 tonne
SS200-12	40" x 40" 1020 mm x 1020 mm	12" 305 mm	1020 lb 463 kg	200 ton 181 tonne
SS200-24	40" x 40" 1020 mm x 1020 mm	24" 610 mm	1195 lb 542 kg	200 ton 181 tonne





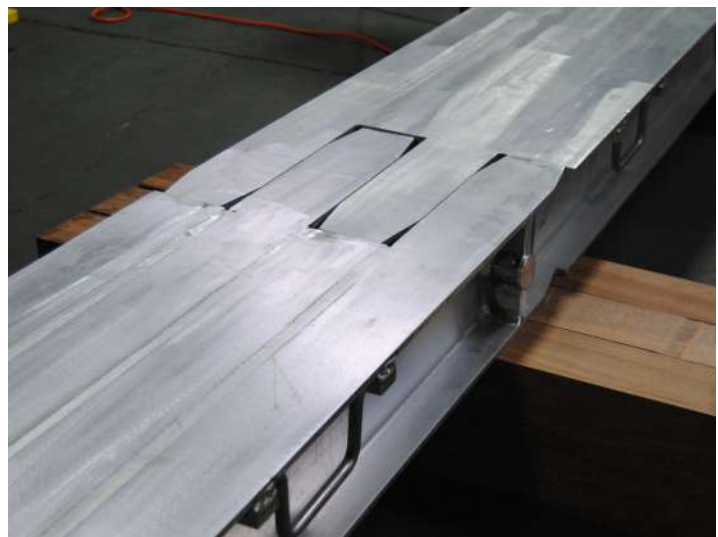
Shown with LP350 Skidding System tracks



Engineered, light-weight aluminum beams to provide enhanced gap-spanning capability for Hydra-Slide XLP30, XLP150, and LP350 skidding systems, or as a stand-alone addition to your rigging gear.

- Hand-portable & robust
- Simple finger joints with pin connections
- Up to 3' (0.9m) span with full capacity
- Enhances structural integrity of low profile skidding systems
- Stamped, engineered load chart provided

Specifications	
Full Length	72" 1829 mm
Effective Length	60" 1524 mm
Height	6" 152 mm
Width	16.375" 416 mm
Weight	106 lb 48 kg
Material	Aluminum 6061-T6
Load Capacity	15 ton/ft. 45 tonne/m
Max. Allowable Span	36" 910 mm





Ideally suited for jacking and blocking applications, Ekki hardwood jacking timbers are exceptionally strong and resistant to crushing and bending.

- 25+ year lifespan
- naturally resistant to rot, decay, pests, and splitting
- Timbers do not become structurally compromised over time
- Flame-resistant



Nominal Size	Length	Width	Height	Weight
2" x 4" x 24"	23.6" <i>600 mm</i>	3.7" <i>95 mm</i>	1.8" <i>45 mm</i>	7 lb <i>3 kg</i>
4" x 4" x 40"	39.4" <i>1.00 m</i>	3.9" <i>100 mm</i>	3.9" <i>100 mm</i>	24 lb <i>11 kg</i>
4" x 6" x 40"	39.4" <i>1.00 m</i>	5.6" <i>142 mm</i>	3.7" <i>93 mm</i>	33 lb <i>15 kg</i>

STORAGE CRIBS

We also offer steel cribs for timber storage; each crib holds 100 standard 4" x 4" (100mm x 100mm) ekki timbers.

- Perforated bottom and sides for drainage and ventilation
- Forkliftable & equipped with lifting lugs
- Stackable
- Engineered design

	Length	Width	Height	Weight
Crib	46"	45"	50"	300 lb
Dimensions	<i>1.17 m</i>	<i>1.14 m</i>	<i>1.27 m</i>	<i>136 kg</i>



Advantages

Ekki wood is one of the strongest, toughest, and most durable timbers available, with a lifespan of 25+ years. It is naturally resistant to rot, decay, biological attack, industrial chemicals, and abrasion. Ekki is also flame-resistant and has an extremely high crushing strength.

	Ekki	White Oak	Hemlock/ Fir	Spruce	Rhino Crib (synthetic)
Static bending yield stress (in-lb)	13,589	3,730	4,320	3,090	2,750
Crushing strength parallel to grain (in-lb)	10,450	3,580	3,610	2,760	n/a
Crushing strength normal to grain (in-lb)	2,450	716	460	300	1482
Specific gravity (g/cm ³)	1.1 - 1.3	0.7 - 0.74	0.64 - 0.8	0.43 - 0.8	0.93

Sources: Forinek Canada Corp., Forestry Technical Report 21, and the Timber Handbook published by the TNO, Delft, Netherlands.

Maintenance & Storage

Ekki wood should be stored in a dry location with constant humidity and temperature. If this is not possible, it should at least be protected from direct sunlight, wind, and excess moisture.

Scientific Name:

Lophira alata

Common names:

Ekki, Azobe, Bongossi, Bakundu (Cameroon), **Kaku** (Ghana), **Esore** (Ivory Coast), **Aba** (Nigeria), **Endwi** (Sierra Leone)

Distribution

West Africa, extending into the Congo basin; occurs in evergreen and moist deciduous forests, in freshwater swamp forests, and close to river banks.

Description

Heartwood is dark red, chocolate brown, or purple-brown with conspicuous white deposits in the vessels. Texture is coarse, grain usually interlocked; lustre is low, no characteristic odour or taste.

Finish

Ekki is typically delivered “green” with up to about 40% moisture content, clear and defect free with no sapwood and no centre of heart. Timbers are planed 4 sides to tolerances of +/- 1 mm. Ends are waxed to reduce the migration of moisture into and out of the timbers. Cross cutting in the field can be done easily and cleanly but rip sawing in the field is not recommended.

Drying

Very slow. Ekki is particularly susceptible to distortion and cracking when drying (especially thin-cut timber). Longitudinal splits can also occur rapidly. Given its applications, Ekki will often dry out while in situ, which can lead to the above mentioned problems if insufficient attention is paid to its care and storage. Minor cracking and end splitting do not normally affect its strength and usage. Shrinkage: Radial: 8%, Tangential: 11.1%, Volumetric: 18.3%

Fire Rating

EN 13823 - Single Burning Item (SBI): 45mm x 150mm sample tested in accordance with NEN-EN 13823:2002 resulted in a Bs-1 classification.

Source: Test Results Indicative SBI Examination of Massive Azobe Wood - 45 mm. TNO Report 2006-CVB-R0352, 2006.



Engineered jacking timbers made of bamboo composite. These timbers have strength characteristics comparable to traditional hardwood timbers, while also being more uniform and more sustainable to produce.

DRAGONWOOD®
Long Lasting Wood made from Bamboo


- Resistant to rot, decay, and pests
- Not susceptible to warping, shrinking, or splitting
- Greater uniformity and consistency than natural timbers
- FSC-certified as a sustainable timber product



Available Sizes

Nominal Size	Length	Width	Height	Weight
4"x4"x40" timber	40" <i>1020 mm</i>	4.0" <i>102 mm</i>	4.0" <i>102 mm</i>	27 lb <i>12 kg</i>
Storage crib with (100) pieces	53" <i>1350 mm</i>	40" <i>1020 mm</i>	44" <i>1120 mm</i>	3165 lb <i>1436 kg</i>
4"x4"x48" timber	48" <i>1220 mm</i>	4.0" <i>102 mm</i>	4.0" <i>102 mm</i>	33 lb <i>15 kg</i>
Storage crib with (100) pieces	53" <i>1350 m</i>	48" <i>1220 mm</i>	44" <i>1120 mm</i>	3798 lb <i>1723 kg</i>

Supplemental Information



Heavy Track Systems

Our Heavy Track skidding systems feature rigid steel track sections that can carry load over unsupported spans.

Extremely durable and user-friendly, these systems are ideal for rough site conditions, trans-loading, and spanning pits or other openings.

Low Profile Systems

Our Low Profile skidding systems are completely hand-portable and feature extremely low working height.

Compact and lightweight, these systems are ideal for areas with restricted access/clearance and flat, continuous support.



Features	Heavy Track	Low Profile
Capacity range	300 - 1000 ton <i>272 - 907 tonne</i>	150 - 350 ton <i>136 - 318 tonne</i>
Requires continuous support	No	Yes
Load-bearing track	Yes	No
Fully hand-portable	No	Yes
Bidirectional tracks	Yes	Yes

All Hydra-Slide skidding systems, turntables, alignment shoes, and jacks, as well as most other double-acting jack applications, can be operated using both Hydra-Pac synchronous power units and conventional power units- each have their own advantages.

Hydra-Pac Synchronous

Our Hydra-Pac™ Synchronous power units are designed with multiple independent oil circuits. The circuits are not interconnected, and provide equal flow to each line regardless of the weight of the load or the pressure in the circuit. This is accomplished using specially designed piston pumps, valves and control devices.

Under normal operating conditions, oil flow and hence cylinder extension and retraction rates should be within 5% of each other on all circuits, even if the weight is unbalanced.

Advantages

Synchronous power units allow the operator to safely lift, lower, or slide virtually any load equally on all points.

Conventional

Our conventional hydraulic power units are suitable for applications that do not require synchronized flow rates.

Conventional power units have a single oil supply circuit. The circuit may be split into multiple outlets, but since they are connected, they will act as one. When jacking a load that is heavier at one end, cylinders with less load will advance more quickly, so it is often necessary to jack "end to end" to ensure load balance. When skidding, it is necessary to ensure that both cylinders advance at nearly the same rate.

Advantages

These units are low-cost, compact, and highly portable, making them ideal as back-up units.

Features	Hydra-Pac Synchronous	Conventional
Engine/motor types available	Diesel, propane, electric	gasoline, electric
Manual control valves for each circuit	Yes	No
Flow rate controlled independently in each circuit	Yes	No
Maintain constant jacking/ lowering speed	Yes	No
Maintain uniform pushing/ pulling forces	Yes	No
Circuits can be paired to increase flow	Yes	No

First, some definitions:

Friction is defined as the force resisting the relative motion of two surfaces sliding against each other.

The **Coefficient of Friction (CoF)** is the ratio between the force of friction and the force pressing the surfaces together (the weight of the load).

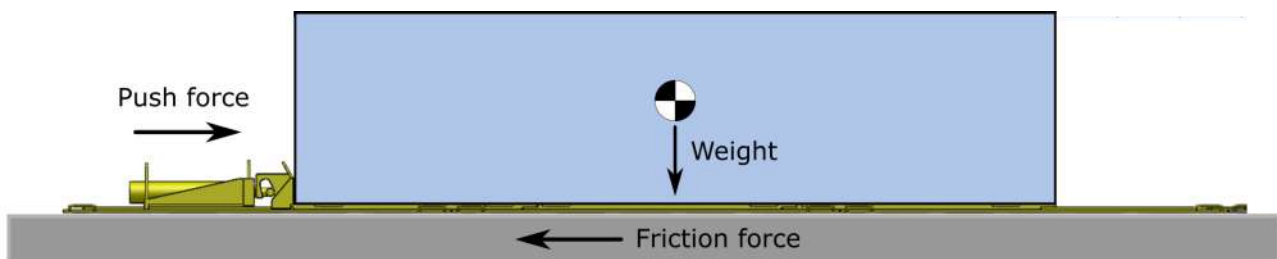
The **CoF** between two surfaces is a number ranging from 0 to 1; the larger the number, the greater the resistance to sliding, and the more force is required to move a load.

At first glance you might assume that a lower coefficient of friction is better, because less force will be required to move the load; however, this assumption doesn't account for safety.

In many cases the field conditions are not perfect and we need to account for factors like slight out-of-levelness, uneven ground conditions, and load momentum. No matter the conditions, we still need to maintain precise control over the direction and speed of movement, and have the ability to stop the load precisely.

This is where a higher coefficient of friction is actually beneficial. With a known CoF we can plan for how much push or pull force will be required, while still maintaining this precise control over direction and speed, and most importantly preventing the load from running away.

Our skidding systems use an engineered lubricating material at the sliding surface which provides a consistent CoF in the range of 0.10 to 0.20, with very little variance, while the relatively high forces required to move the load are provided by hydraulic push or pull cylinders. The cylinders exert their forces internally and keep the speed of movement slow and controlled, while the track acts as a guide ensuring the load always goes where it is intended to.



Referring to the diagram above:

If the load is 300 tons and the known CoF is **0.15**, the push force required is **$300 \times 0.15 = 45$** tons.

Our HT300 system provides this push force using two 30-ton hydraulic cylinders.

If the load is 500 tons and the known CoF is **0.20**, the push force required is **$500 \times 0.20 = 100$** tons.

Our HT500 system provides this push force using two 55-ton hydraulic cylinders.

In moving heavy loads with hydraulic skidding systems, friction ensures that the movement of loads is always under precise control, and keeps the job safe for everyone around.



**Ensuring a smooth ride —
from fab to field.**

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