

# Equipment Data Sheet

## Self-Propelled Skidding Systems

## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM

- Self Propelled Skidshoe SPSS-1200 (1200t Capacity)
- Self Propelled Skidshoe SPSS-1000 (1000t Capacity)
- Self Propelled Skidshoe SPSS-0650 ( 650t Capacity)
- Self Propelled Skidshoe SPSS-0500 ( 500t Capacity)
- Self Propelled Skidshoe SPSS-0300 ( 300t Capacity)
- Self Propelled Skidshoe SPSS-0150 ( 150t Capacity)
- Self Propelled Skidshoe SPSS-0090 ( 90t Capacity)

Specification		Self Propelled Skidshoe System						
		SPSS 1200	SPSS 1000	SPSS 0650	SPSS 0500	SPSS 0300	SPSS 0150	SPSS 0090
Skidshoe	Capacity (t)	1200	1000	650	500	300	150	90
	Length (mm)	6000	5500	4720	4674	3700	2500	2000
	Weight (kg)	13000	9000	5372	4500	1730	610	345
	Cylinder	1200	2x500	650	500	300	150	90
	Cylinder stroke	460	300	600	600	400	250	150
Push-Pull Unit	Distance	1000	1000	1000	1000	750	500	500
	Pushing	83/64.3	83/64.3	83/64.3	83/64.3	42.4	16.3	16.3
	Pulling	52/33.9	52/33.9	52/33.9	52/33.9	24.3	8.5	8.5
	Stroke (mm)	1250/ 1400	1250/ 1400	1400	1250/ 1400	1000/ 1250	600	600

For reference only

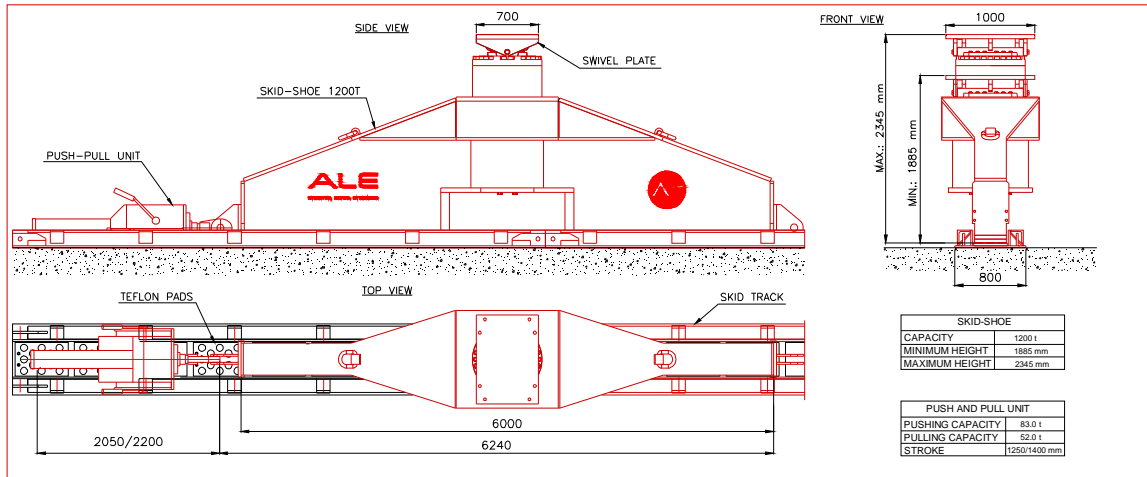


## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDBEAM SYSTEM

- Self Propelled Skidbeam SPSB-0500 (500t Capacity)
- Self Propelled Skidbeam SPSB-0300 (300t Capacity)
- Self Propelled Skidbeam SPSB-0150 (150t Capacity)
- Self Propelled Skidbeam SPSB-0025 ( 25t Capacity)

Specification		Self Propelled Skidbeam System			
		SPSB 0500	SPSB 0300	SPSB 0150	SPSB 0025
Skidbeam	Length (mm)	4500	3500	2000/ 2500/ 3000/ 4500	1450
	Weight (kg)	2100	955	267 / 325 / 397 / 1513	60
Push-Pull Unit	Distance between clamps (mm)	1000	750	500	400
	Pushing Capacity (t)	64.3	42.4	16.3	6.8
	Pulling Capacity (t)	33.9	24.3	8.5	3.4
	Stroke (mm)	1250/1400	1000/125	600	500

## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-1200 (1200t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 1200t skidshoe incorporating a 1200t capacity cylinder with a working stroke of 460 mm.

On top of the cylinder a pivot arrangement affords movement in the longitudinal axis.

The movement is intermittent, following an extend/retract sequence of the cylinders.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.



Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

The skidshoe stability is designed on a side-force from 20t up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each ALE skidshoe of 1000t creates an unique system for the movement of high point loads / concentrated loads.

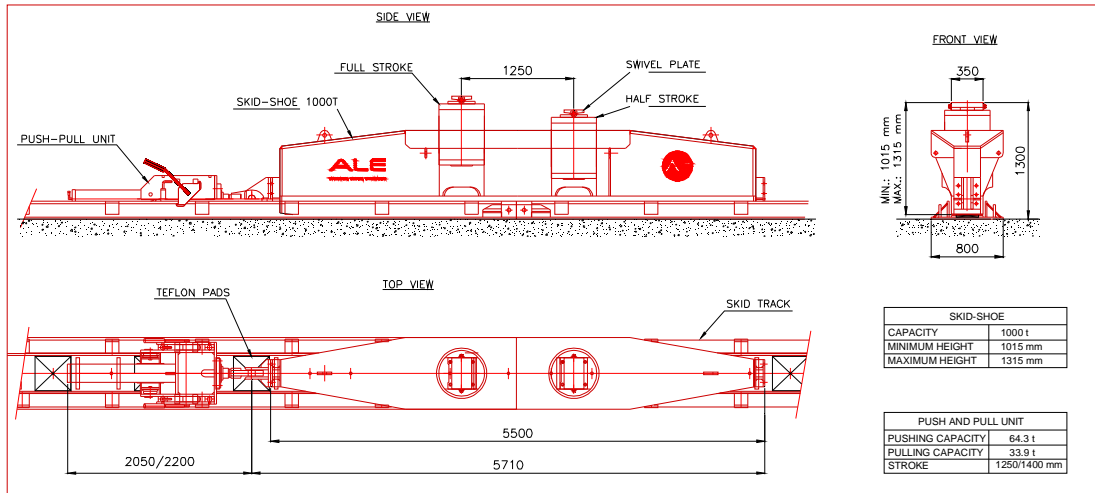


A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.

For reference only



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-1000 (1000t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 1000t skidshoe incorporating a 2 x 500t capacity cylinder with a working stroke of 300 mm.

On top of the cylinder a pivot arrangement affords movement in the longitudinal axis.

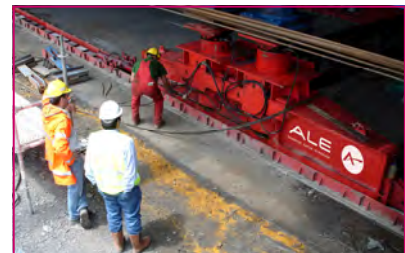
Besides the 1000t jacks other configurations can be made up whereby the same hydraulic pressure in the system gives individual jacking forces.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.

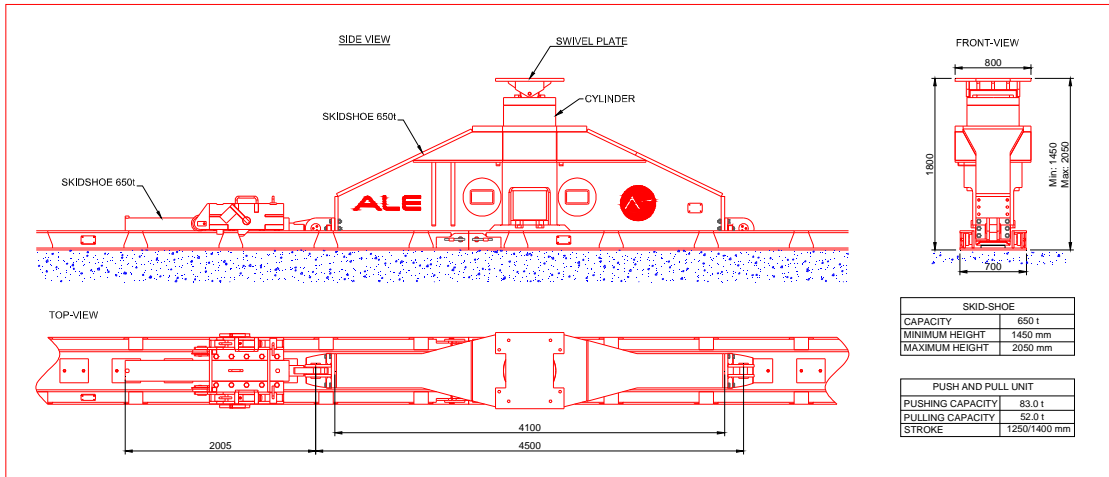
Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

The skidshoe stability is designed on a side-force from 20t up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each AILE skidshoe of 1000t creates a unique system for the movement of high point loads / concentrated loads.

A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-0650 (650t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 650t skidshoe incorporating a 650t capacity cylinder with a working stroke of 600 mm. On top of this cylinder a pivot arrangement affords movement in the longitudinal axis.



The movement is intermittent, following an extend/retract sequence of the cylinders.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.

Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

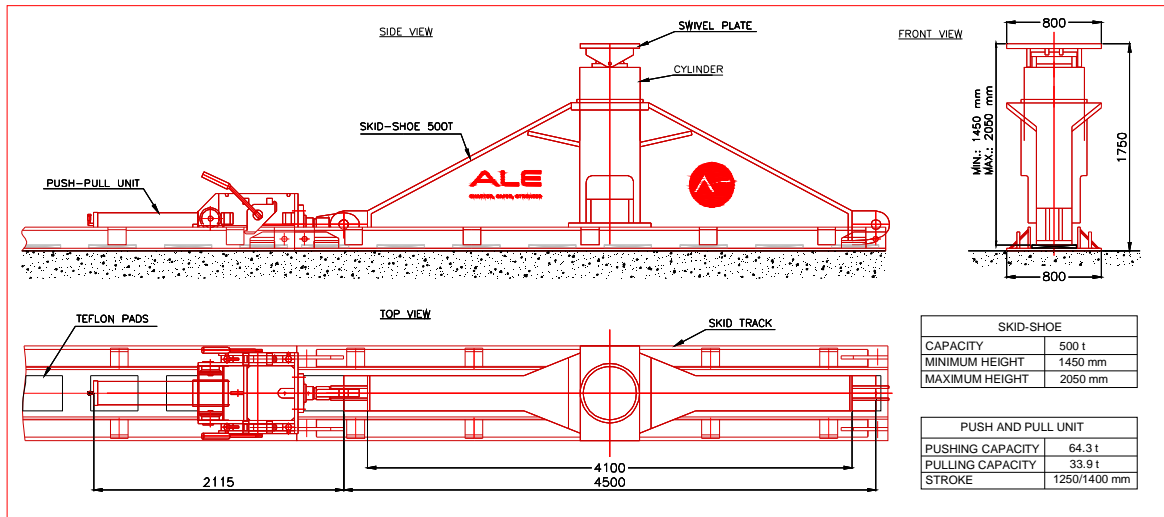


The skidshoe stability is designed on a side-force up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each ALE skidshoe of 650t creates a unique system for the movement of high point loads / concentrated loads.

A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-0500 (500t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 500t skidshoe incorporating a 500t capacity cylinder with a working stroke of 620 mm. On top of this cylinder a pivot arrangement affords movement in the longitudinal axis.



The movement is intermittent, following an extend/retract sequence of the cylinders.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.



Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

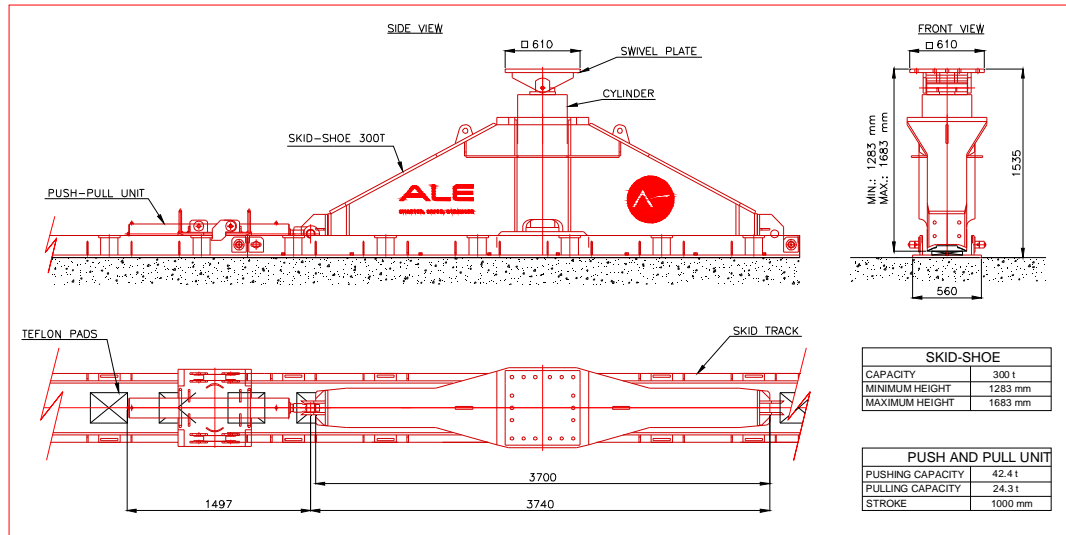
The skidshoe stability is designed on a side-force from 20t up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each ALE skidshoe of 500t creates an unique system for the movement of high point loads / concentrated loads.

A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.

For reference only



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-0300 (300t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 300t skidshoe incorporating a 300t capacity cylinder with a working stroke of 400 mm. On top of this cylinder a pivot arrangement affords movement in the longitudinal axis.

The movement is intermittent, following an extend/retract sequence of the cylinders.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.

Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

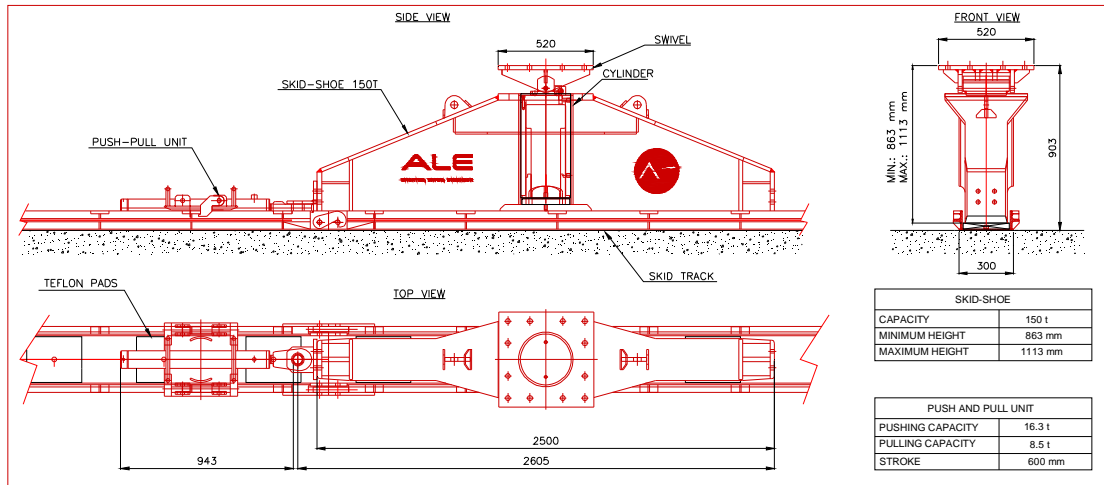
The skidshoe stability is designed on a side-force from 20t up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each ALE skidshoe of 300t creates an unique system for the movement of high point loads / concentrated loads.



A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-0150 (150t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 150t skidshoe incorporating a 150t capacity cylinder with a working stroke of 250 mm. On top of this cylinder a pivot arrangement affords movement in the longitudinal axis.

The movement is intermittent, following an extend/retract sequence of the cylinders.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.

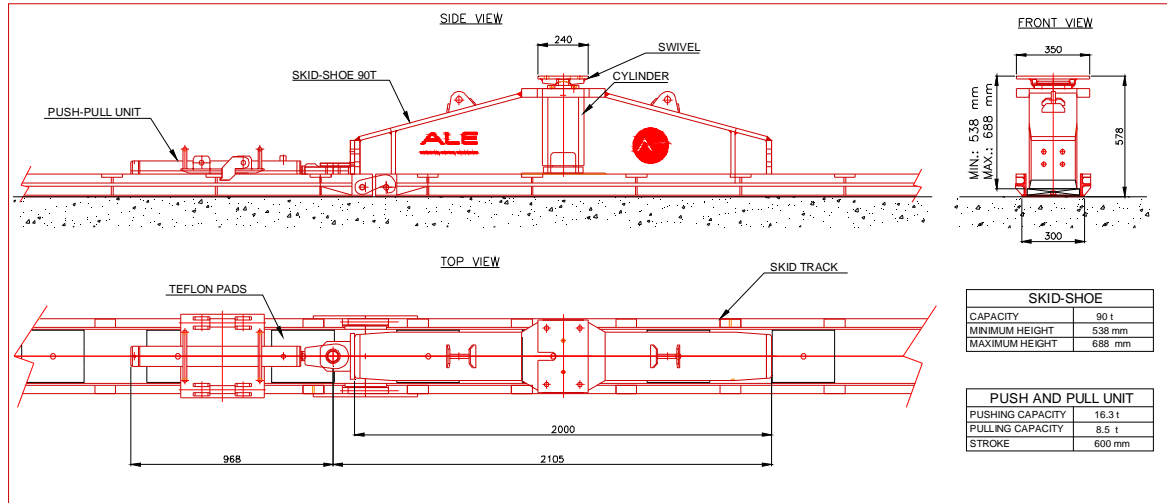
Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

The skidshoe stability is designed on a side-force from 20t up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each ALE skidshoe of 150t creates an unique system for the movement of high point loads / concentrated loads.



A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.

## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDSHOE SYSTEM SPSS-0090 (90t Capacity)



The movement / load-out equipment is a skidding system designed and developed by ALE, in which hydraulic skidshoes with stainless steel bottom move over P.T.F.E. blocks which are laid into steel skidtracks.

The skid system is designed as indicated in the drawing here above as a 90t skidshoe incorporating a 90t capacity cylinder with a working stroke of 150 mm. On top of this cylinder a pivot arrangement affords movement in the longitudinal axis.

The movement is intermittent, following an extend/retract sequence of the cylinders.

The motive force required for displacing the structure is generated by hydraulic push-pull cylinders, which are an integral part of the skidway. The units are directly coupled to the skidshoes by means of pin-construction.

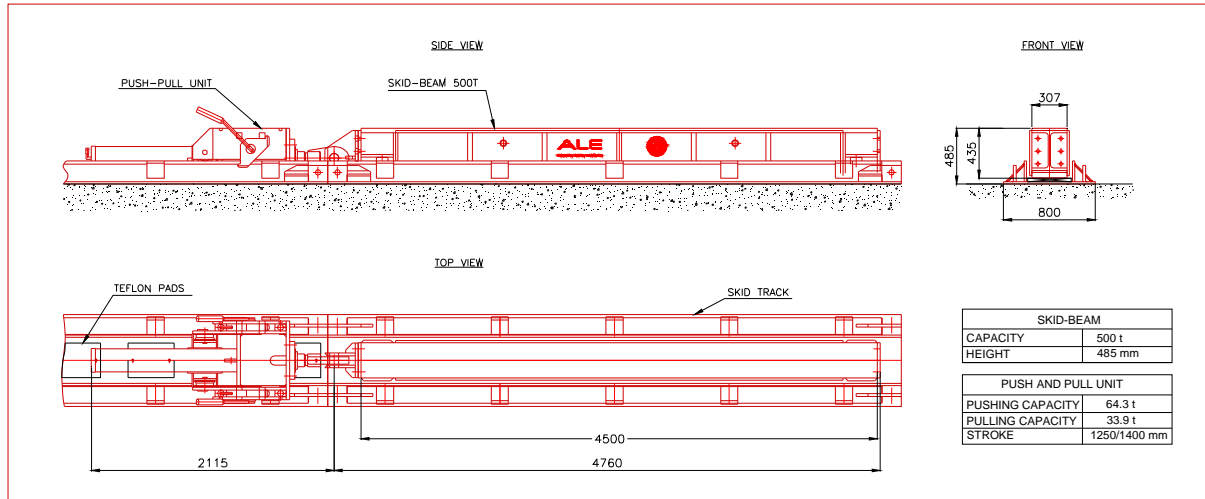
Centralised diesel-driven powerpacks will generate the hydraulic power required for operation of the hydraulic cylinders of the skidshoes and the push-pull units.

The skidshoe stability is designed on a side-force from 20t up to a maximum of 10% of the vertical load on the skidshoe involved. The max. capacity of each ALE skidshoe of 90t creates an unique system for the movement of high point loads / concentrated loads.

A combination of a number of skidshoes creates a flexible system to move complicated and heavy loads.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDBEAM SYSTEM SPSB-0500 (500t Capacity)



Skidding system with flat skid beam.

In this system, each skid beam is made of HEM400 profile of 4500 mm length and a capacity up to 500t. The base of the skid beam has a plate of stainless steel of 3 mm thickness which provides low friction coefficient when it slides over the Teflon pads.

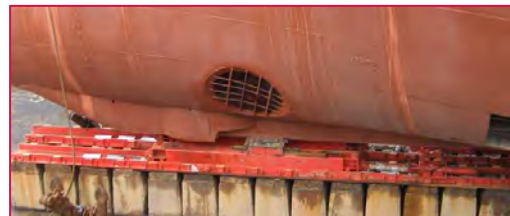
The skid beams run along specially designed skid tracks with three functions:

- to serve as a guide for the skid beam.
- to lodge the Teflon pads.
- to incorporate the support elements of the push-pull units.

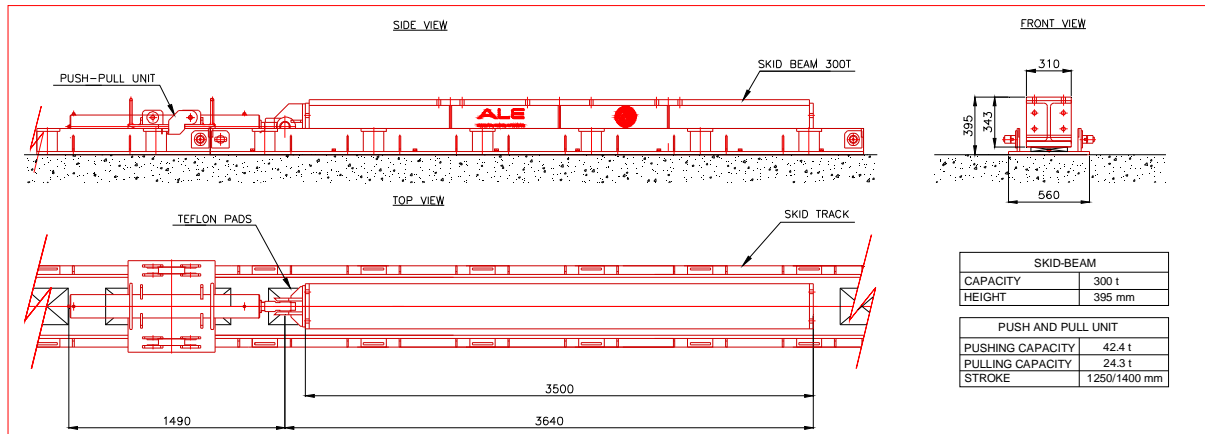
Each skid beam is equipped with one push and pull unit of 64t pushing capacity and a stroke of 1400 mm. The push-pull units hook to the clamps built in the skid tracks each 1000 mm and then it pushes the skid beam.

As the push-pull units are double acting, once the stroke is finished they automatically retrieve and then hook the next clamp in order to start the next stroke.

The drawing above shows the details of the different components.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDBEAM SYSTEM SPSB-0300 (300t Capacity)



Skidding system with flat skid beam.

In this system, each skid beam is made of HEM350 profile of 3500 mm length and a capacity of 300t. The base of the skid beam has a plate of stainless steel of 3 mm thickness which provides low friction coefficient when it slides over the Teflon pads.

The skid beams run along specially designed skid tracks with three functions:

- to serve as a guide for the skid beam.
- to lodge the Teflon pads.
- to incorporate the support elements of the push-pull units.

Each skid beam is equipped with one push and pull unit of 53t pushing capacity and a stroke of 1200 mm. The push-pull units hook to the clamps built in the skid tracks each 1000 mm and then it pushes the skid beam.

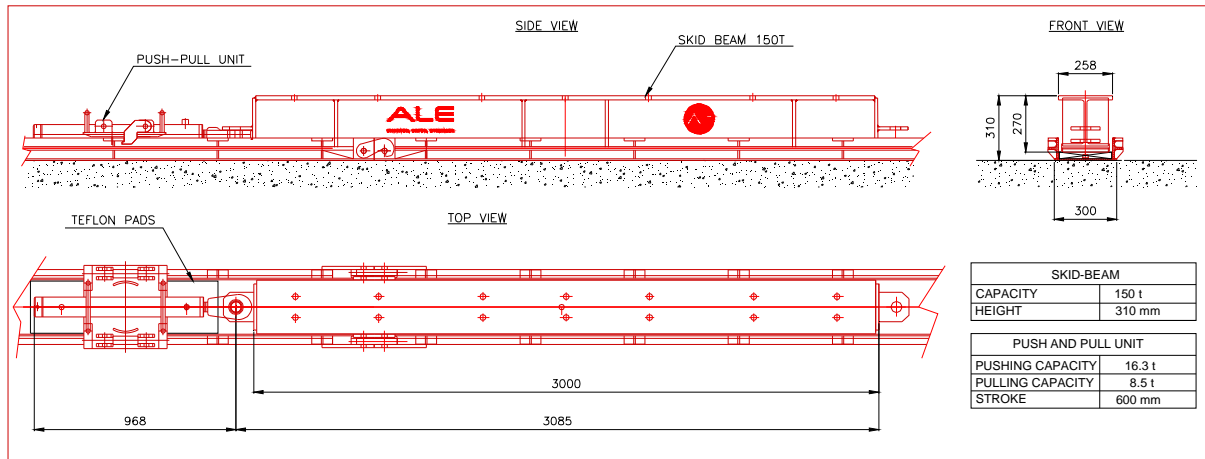


As the push-pull units are double acting, once the stroke is finished they automatically retrieve and then hook the next clamp in order to start the next stroke.

The drawing above shows the details of the different components.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDBEAM SYSTEM SPSB-0150 (150t Capacity)



Skidding system with flat skid beam.

In this system, each skid beam is made of HEM220 profile with different lengths of 2000, 2500, 3000 and 4500 mm and a capacity 150t. The base of the skid beam has a plate of stainless steel of 3 mm thickness which provides low friction coefficient when it slides over the Teflon pads.

The skid beams run along specially designed skid tracks with three functions:

- to serve as a guide for the skid beam.
- to lodge the Teflon pads.
- to incorporate the support elements of the push pull units.



Each skid beam is equipped with one push and pull unit of 16t pushing capacity and a stroke of 600 mm. The push-pull units hook to the clamps built in the skid tracks each 500 mm and then it pushes the skid beam.

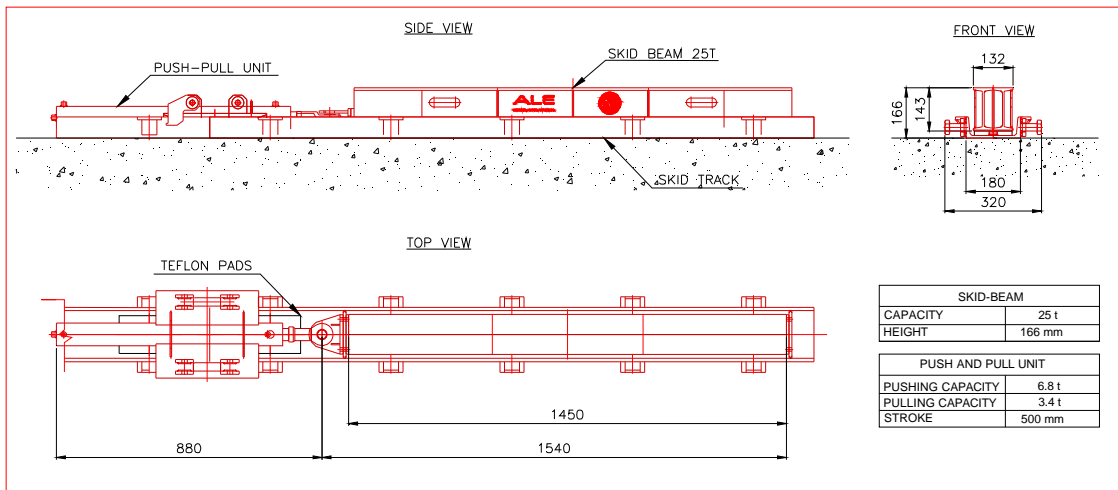


As the push-pull units are double acting, once the stroke is finished they automatically retrieve and then hook the next clamp in order to start the next stroke.

The drawing above shows the details of the different components.



## EQUIPMENT DATA SHEET - SELF PROPELLED SKIDBEAM SYSTEM SPSB-0025 (25t Capacity)



Skidding system with flat skid beam.

In this system, each skid beam is made of 2 x IPN 140 profile of 1450 mm length and a capacity of 25t. The base of the skid beam has a plate of stainless steel of 3 mm thickness which provides low friction coefficient when it slides over the Teflon pads.

The skid beams run along specially designed skid tracks with three functions:

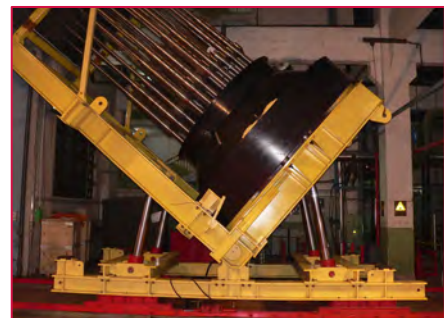
- to serve as a guide for the skid beam.
- to lodge the Teflon pads.
- to incorporate the support elements of the push-pull units.

Each skid beam is equipped with one push and pull unit of 6,8t pushing capacity and a stroke of 500 mm. The push-pull units hook to the clamps built in the skid tracks each 400 mm and then it pushes the skid beam.

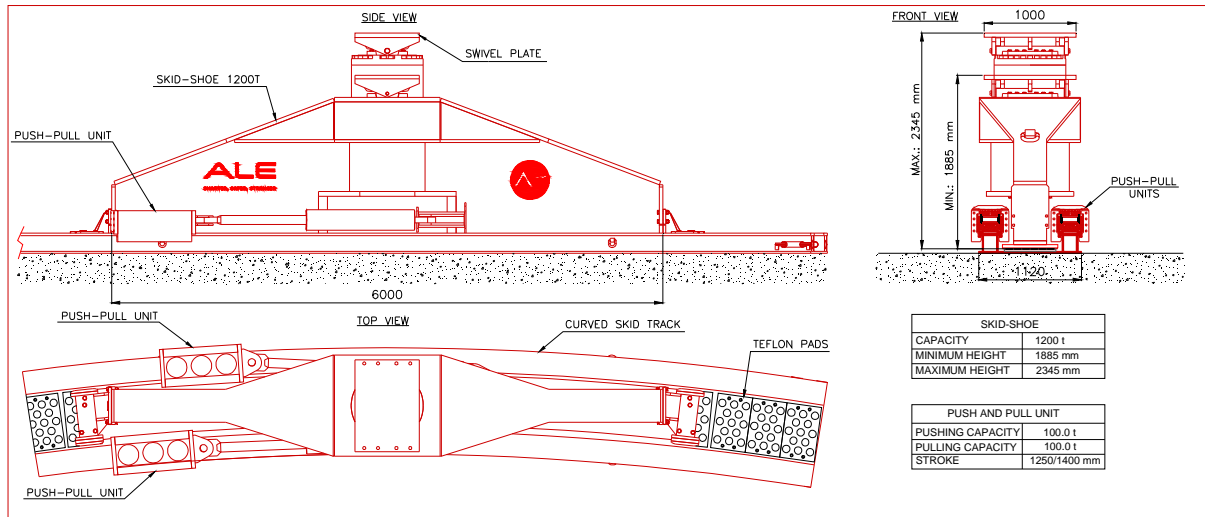
As the push-pull units are double acting, once the stroke is finished they automatically retrieve and then hook the next clamp in order to start the next stroke.

The drawing above shows the details of the different components.

For reference only



## EQUIPMENT DATA SHEET - CURVED SKIDSHOE SYSTEM SPSS-1200 (1200t Capacity)



The AL.SK190 & AL.SK350 lifting machines are devices that have been designed for the lifting and installation of ultra-heavy loads. They can be equipped with a standard winching system for weights of up to 600t and a strand jack lifting system for loads of up to 5000t.

In order to maximise the utilization of the crane ALE has designed the machine so that most of the components are multi-functional and can be adapted to other uses. This feature enables the optimisation of equipment resulting in a efficient lifting operation and cost savings to the customer.



For reference only

