

**SLV | SYNCHRONOUS LIFTING SYSTEM - VARIABLE SPEED DRIVE**

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**Working pressure 700 bar**

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**Control from 8 to 32 lifting points**

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**Variable speed control**

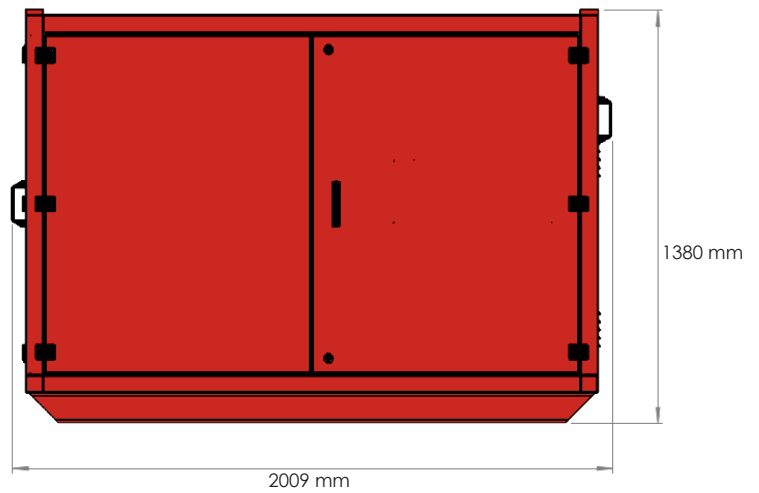
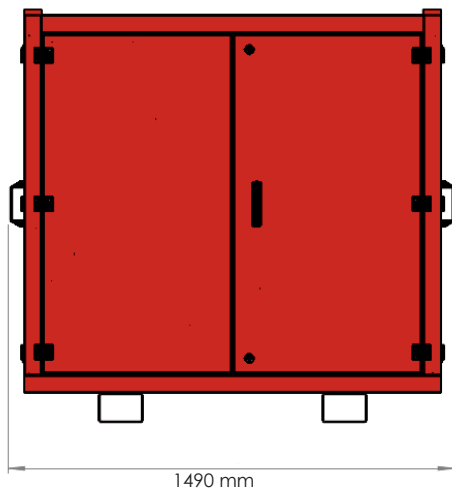
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Control unit complete with multiple screens (depending on configuration and monitoring requirements) and USB port, supplied on a cable for remote operation.



- ▶ Designed for precise lifting and lowering of heavy loads using multiple synchronised hydraulic cylinders
- ▶ System comprises of heavy duty three phase electric motor, operator control panel to monitor up to 32 channels and a robust framework for transportation and storage of the entire system
- ▶ Selection of outlet valves ranging from 8-outlet pump to 32-outlet pump, with single or double acting controls on each outlet
- ▶ Two stage pump unit offers a maximum low pressure flow rate of 19.6 litres per minute and a maximum high pressure flow rate of 4.8 litres per minute at 700 bar with an option of reducing the flow rate using the variable speed drive controller
- ▶ 700 bar pressure transducers are fitted as standard on each outlet
- ▶ Reservoir capacity of 200 and 400 litres
- ▶ Intuitive touch screen controller with several display options including stroke, cylinder pressure, system pressure and indicative weight of load
- ▶ Includes a system data logging feature which allows operators to obtain a post lift report or end of project technical summary
- ▶ Specified for string pot displacement sensors as standard. Alternative sensor types available upon request.
- ▶ Operating modes for the SLV include Manual, Pre-load, Automatic control, Depressurisation, Centre of gravity and Indicative weighing
- ▶ System can be adapted to suit customer's special lifting requirements
- ▶ Customised systems can be tailored for unique application requirements

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Model number	Number of outlets	Oil capacity (litres)	Total oil flow (litres/minute)		Motor voltage
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
SLV82	8	200	19.6	4.8	380/440V-3Ph
SLV122	12	200	19.6	4.8	380/440V-3Ph
SLV162	16	200	19.6	4.8	380/440V-3Ph
SLV202	20	200	19.6	4.8	380/440V-3Ph
SLV242	24	200	19.6	4.8	380/440V-3Ph
SLV282	28	200	19.6	4.8	380/440V-3Ph
SLV322	32	200	19.6	4.8	380/440V-3Ph
SLV84	8	400	19.6	4.8	380/440V-3Ph
SLV124	12	400	19.6	4.8	380/440V-3Ph
SLV164	16	400	19.6	4.8	380/440V-3Ph
SLV204	20	400	19.6	4.8	380/440V-3Ph
SLV244	24	400	19.6	4.8	380/440V-3Ph
SLV284	28	400	19.6	4.8	380/440V-3Ph
SLV324	32	400	19.6	4.8	380/440V-3Ph

*Note: All models are suitable for operation at 50 Hz and 60 Hz.*

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Mounting kits to fit single and double acting cylinders are listed below.

Model number	Mounting kit type	Applicable cylinder	Increase in cylinder height (mm)
SLMK-1	1	HSS - 25T	+3,5
	1	HSS - 30T	+3,5
SLMK-2	2	HAS - 30T	+10
	2	HRA - 30T	+10
SLMK-3	3	HSS - 50T	+10
	3	HAS - 50T	+10
	3	HRA - 50T	+10
SLMK-4	4	HSS - 75T	+10
SLMK-5	5	HSS - 100T	+10
	5	HAS - 100T	+10
	5	HRA - 100T	+10
SLMK-6	6	HDA - 25T	+11
SLMK-7	7	HDA - 50T	+10
SLMK-8	8	HDA - 100T	+10
SLMK-9	9	HDA - 150T	+10
	9	HDA - 200T	+10
SLMK-10	10	HHS - 20T	+11
SLMK-11	11	HHS - 30T	+12
	11	HHR - 30T	+12
SLMK-12	12	HHS - 37T	+1
SLMK-13	13	HHA - 50T	+1
SLMK-14	14	HHS - 60T	+12
	14	HHR - 60T	+12
SLMK-15	15	HHS - 100T	+10
	15	HHR - 100T	+10
SLMK-16	16	HHR - 150T	+10
SLMK-17	17	HHR - 250T	+10
SLMK-18	18	HFA - 30T	0
SLMK-19	19	HFA - 50T	+8
SLMK-20	20	HFA - 100T	0
	20	HGG - 150T	0
SLMK-21	21	HDA - 300T	0
SLMK-22	22	HDA - 400T	0
	22	HDA - 500T	0
SLMK-23	23	HDA - 800T	0
	23	HDA - 1000T	0
	23	HFG - 800T	0
SLMK-24	24	HFL - 50T	+8
	24	HFG - 50T	+8
SLMK-25	25	HFG - 400T	0
	25	HFG - 500T	0
	25	HGG - 200T	0
	25	HSG - 200T	0
SLMK-26	26	HFL - 100T	+9
	26	HFG - 100T	+9
SLMK-27	27	HFL - 150T	+8
	27	HFG - 150T	+8
	27	HFG - 200T	+8
	27	HSG - 150T	+8
SLMK-28	28	HFG - 250T	0
	28	HFG - 300T	0
	28	HGG - 300T	0
SLMK-29	29	HSG - 300T	0
SLMK-30	30	HFL - 250T	+8
SLMK-31	31	HFL - 400T	+10
SLMK-32	32	HFL - 500T	+10
SLMK-33	33	HFG - 1000T	0

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The SLV system is designed for use with standard single and double acting cylinders. Below table lists the SLV model and cylinder type that can be used with it.

Model number	Applicable cylinder type	Applicable cylinder range	Cylinder stroke (mm)	Page reference	
SLV82 SLV122 SLV162 SLV202 SLV242 SLV282 SLV322 SLV84 SLV124 SLV164 SLV204 SLV244 SLV284 SLV324	Single acting	HSS	51 - 457	10	
	Single acting	HHS	50 - 152	11	
	Single acting	HFL	45 - 51	14	
	Single acting	HFG	50 - 152	15	
	Single acting	HAS	51 - 152	16	
	Single acting	HHH	51 - 105	17	
	Single acting	HFA	52 - 305	18	
	Single acting	HGG	155	20	
	Single acting	HSG	152	21	
	SLV82 SLV122 SLV162 SLV202 SLV242 SLV282 SLV322 SLV84 SLV124 SLV164 SLV204 SLV244 SLV284 SLV324	Double acting	HHR	51 - 305	12
		Double acting	HDA	152 - 508	13
		Double acting	HRA	51 - 305	19

**DISPLACEMENT SENSORS**

- ▶ 635 mm (25 inches) string pot
- ▶ Provides stroke feedback to controls
- ▶ Includes magnet for mounting
- ▶ Each lifting point requires one sensor
- ▶ String pot displacement sensors as standard, other displacement sensors available on request



Model number	Type and stroke (mm)
SLDS650	650

**SENSOR CABLES**

- ▶ Each displacement sensor requires one cable

Model number	Length (m)
SLDC10	10
SLDC25	25
SLDC50	50
SLDC75	75
SLDC100	100