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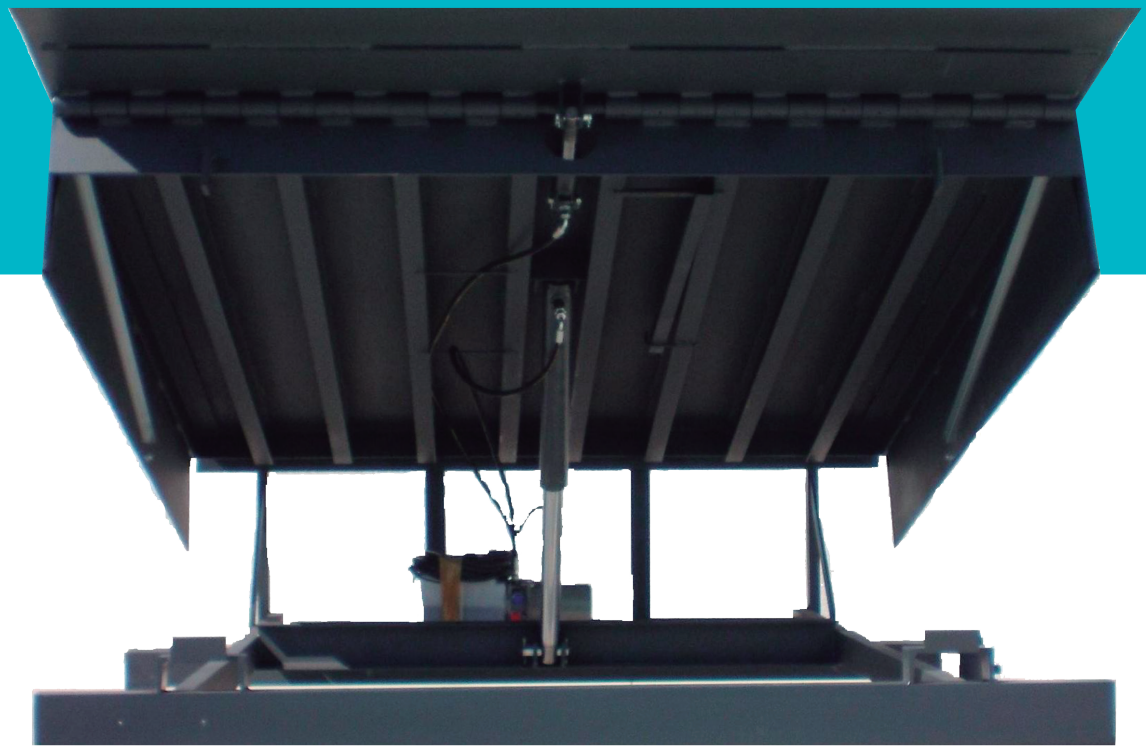
HIGH COOLING PERFORMANCE

HYDRAULIC RAMP WITH FOLDING LIP

PRODUCT DATA SHEET

RHL MODEL



HEADQUARTER

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RHL MODEL RAMP MANUAL AND INSTRUCTIONS

ON-SITE FASTENING AND ASSEMBLY

ATTENTION:

. Before placing the platform in the pit, remove the electrical cable to provide a temporary power supply.

. Secure in place and weld, as shown in the attached diagram.

. Insert the cable into the hose.

. Secure the electrical panel to the wall above the hose outlet.

. Secure the tube to the hose outlet up to the panel to pass the cable through.

. Connect according to the attached diagram and test the platform.

. The RHL model is fully automatic and verified in our factory. Our operators check the machine once it has been assembled, however, a final adjustment may be necessary once it is put into operation.

INCIDENTS OR MINOR FAULTS IN THE HYDRAULIC SYSTEM

ATTENTION:

The hydraulic unit's sole function is to lift the ramp onto the lorry. It must never be used to lift loads.

REGULATION OF DESCENT SPEED

If the descent speed is too fast, the hose break safety system will activate and block the ramp. Adjust the screw and nut until the correct descent speed is achieved.

REGULATION OF THE OPENING SPEED OF THE NAIL

Adjust the adjustment nut on the distributor block.

The opening speed should be uniform without hitting the ramp when reaching its open position.

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RHL MODEL RAMP USAGE SHEET

1 | FIELD OF USE

The loading ramp allows goods to be moved from a vehicle to the warehouse or vice versa.

2 | DELIVERY

The RHL model is fully automatic and verified in our factory.

3 | OPERATING INSTRUCTIONS

. Centre the vehicle against the rubber bumpers on the ramp.

. Switch off the engine, apply the handbrake and chock the wheels.

. Press the up button until the lip is fully open. Release the button and the ramp will slowly descend onto the lorry platform.

. At the end of the operation, press the up button again until the lip returns to the vertical position with the ramp platform just above the dock. Release the button and the ramp will return to its resting position.

4 | PRECAUTIONS FOR USE

. Before each manoeuvre, check that no one is in the work area.

. Ensure that the claw is at least 50 mm above the lorry before starting work.

. Drive the forklifts slowly onto the platform...

. At the end of the operation, check that the claw is properly engaged and that the enclosure is secure.

5 | MAINTENANCE AND CONTROL

. A maintenance bar allows access to the underside of the platform.

. Check the lubrication points and oil level every month.

6 | IN CASE OF FAULT – TECHNICAL SERVICE

. Prohibit the use of the ramp.

. Call our technical service.

. Write down the serial number of the ramp.

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PRODUCT DATA SHEET

HYDRAULIC RAMP
RHL MODEL

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HIGH COOLING PERFORMANCE

TECHNICAL DATA

Features			
Dimensions - standard nominal length	2500 mm	3000 mm	3500 mm
Dimensions - platform width	1800 mm	2000 mm	2200 mm
Vertical working range	Above the pier	0-400 mm	
	Under the pier	0-250 mm	
Truck tilt absorption	100 mm		
Platform plate	Standard	Thickness 6/8	
	For galvanising	Thickness 8/10	
Lip plate	Thickness 13/15		
Surface treatment	Painted RAL 7016	RAL 7016 Gris antracita	Hot-dip galvanised
Painting	Two-component polyurethane		
Galvanising surface treatment	Hot-dip galvanised 80 µm		

Hydraulic and electrical characteristics			
Load capacity	60kN (6TM)	100 kN (10 TM)	160 kN (16 TM)
Hydraulic motor	1,1 kW= 1,5 CV		
Working pressure	140 bares		
Power supply	380 V three-phase / 230V three-phase 50 Hz		
Manoeuvre	Man present	Emergency shutdown	
Frame protection	IP54		
Type of oil	Hydraulic HM46	5-litre tank	
Solenoid valve	24V/CC 18 W		
Lifting cylinder (safety valve in case of hose breakage)	50x470	1 unit in 2500/3000/3500 mm	
		2 unit in 4000/4500 mm	
Lip cylinder	30x105		
Hoses	180 bares		
Frame components	Start-up light, isolator, thermal switch, contactor, fuses, transformer, safety limit switch, circuit breaker, emergency stop		

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PRODUCT DATA SHEET

HYDRAULIC RAMP
RHL MODEL

PLATFORM AND UPPER NAIL

. 6 Tm. Punctual on 3 or 4 wheels depending on the type of forklift.

. Tear-shaped upper platform plate. (Thickness 6/8).

. Tear-shaped peak plate, with a bend 150 mm from the end supporting the lorry. (Thickness 13/15).

. Reinforcement on the upper plate of 8 IPN-100mm, plus two 80 angles and 2 side plates of 3mm in sizes 2500-3000 and 3500mm; when the sizes are 4000-4500mm, the 8 IPNs are 120mm.

. In all sizes, the upper tear plate is a single piece without joints.

. Anti-shear safety skirts.

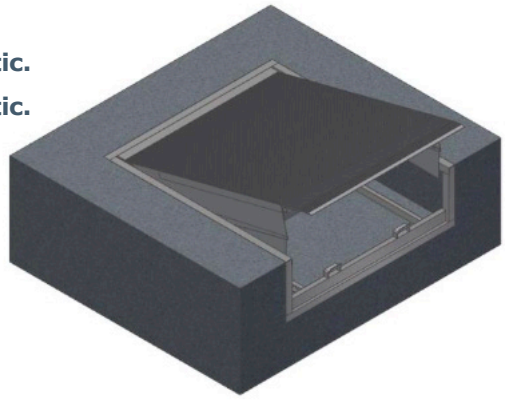
. Safety bar for maintenance work.

. Rear hinge with 5 support points.

. **Load capacity: 6 tonnes dynamic and 9 tonnes static.**

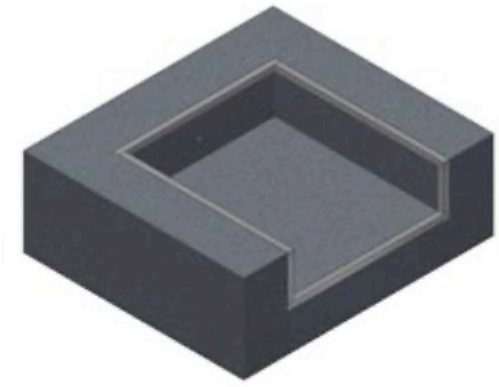
. **Load capacity: 10 tonnes dynamic and 12 tonnes static.**

. **Load capacity: 16 tonnes dynamic and 18 tonnes static.**



APPROXIMATE WEIGHT	
Long 2500 mm	850 kgs
Long 3000 mm	950 kgs
Long 3500 mm	1100 kgs
Long 4000 mm	1250 kgs
Long 4500 mm	1400 kgs

RAMP MEASUREMENTS	PIT MEASUREMENTS
ANxLAxAL	ANxLAxAL
2000X2500X600	2040X2300X610
2000X3000X600	2040X2800X610
2000X3500X600	2040X3300X610



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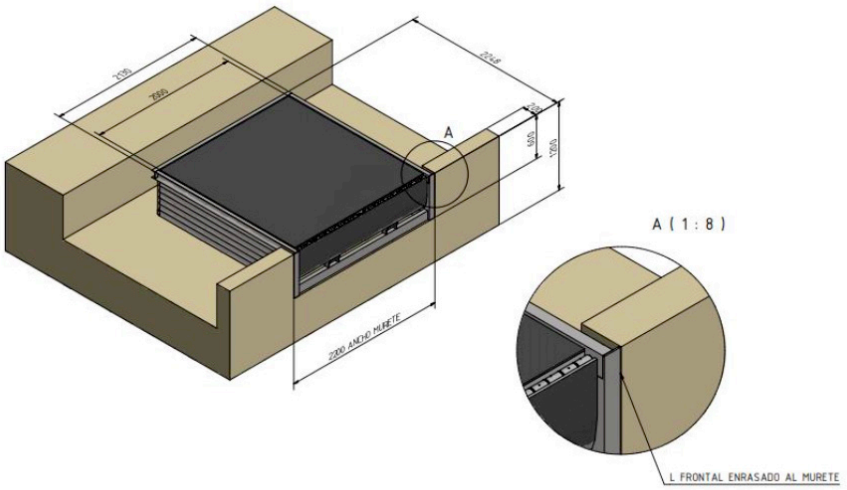
PRODUCT DATA SHEET

HYDRAULIC RAMP

RHL MODEL

OPTIONS

Lips			
500 mm lip			
Beveled lip at the ends			
2 movable brackets, 150 mm			
Surface area			
Special RAL	Hot-dip galvanised	Top in 304 stainless steel	
Backstage			
Pre-frame angle 80x80			
Box Model Pegasus metal drawer			
Bench	Box model with trapdoor	Simple	Double aisle
Others			
Double cylinder	Rings for unloading	Sealing brushes	
Equipment			
Bumpers			
Metallic 460x240x100	Painted	Zinc plating	Galvanised Reinforced
250x250x100	500x250x100	100x120x400	
Polyurethane 80x80x400	Rollers 84x380x140		
Chock system kit	Polyurethane shim		
LED spotlight	Fan		
Truck guides	Zinc-coated	Yellow graffiti	Yellow/black graffiti



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HYDRAULIC RAMP
RHL MODEL

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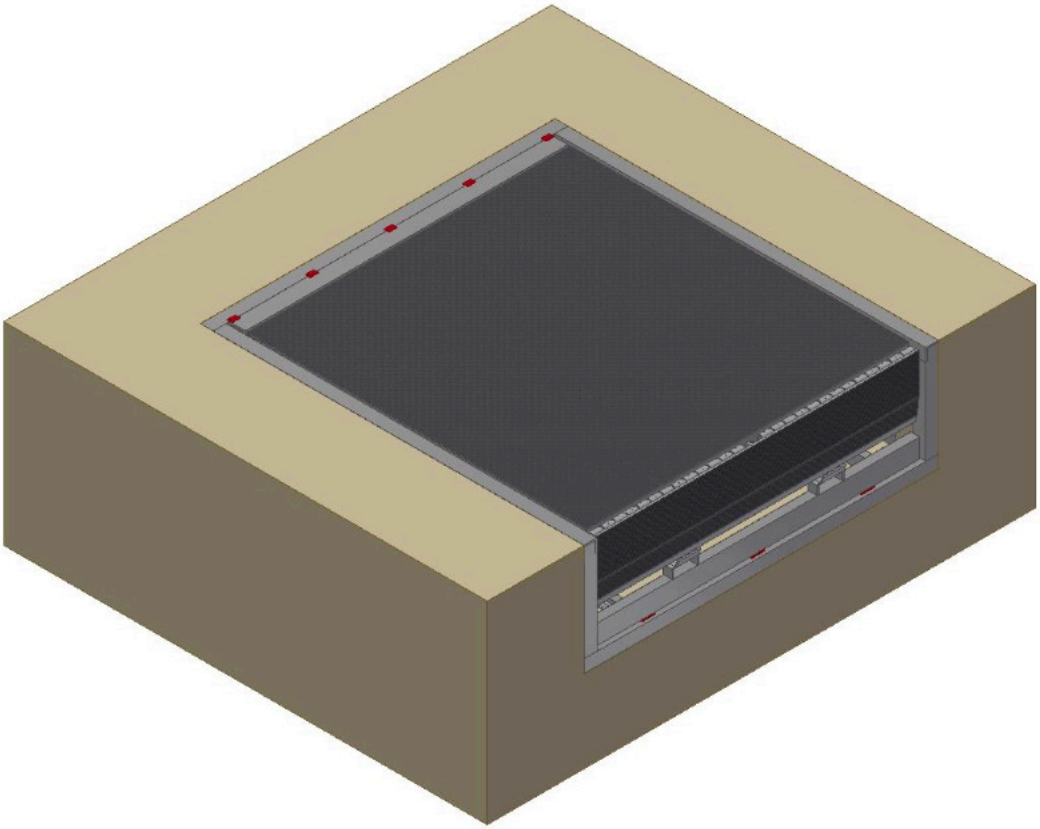
WELDING DIAGRAM



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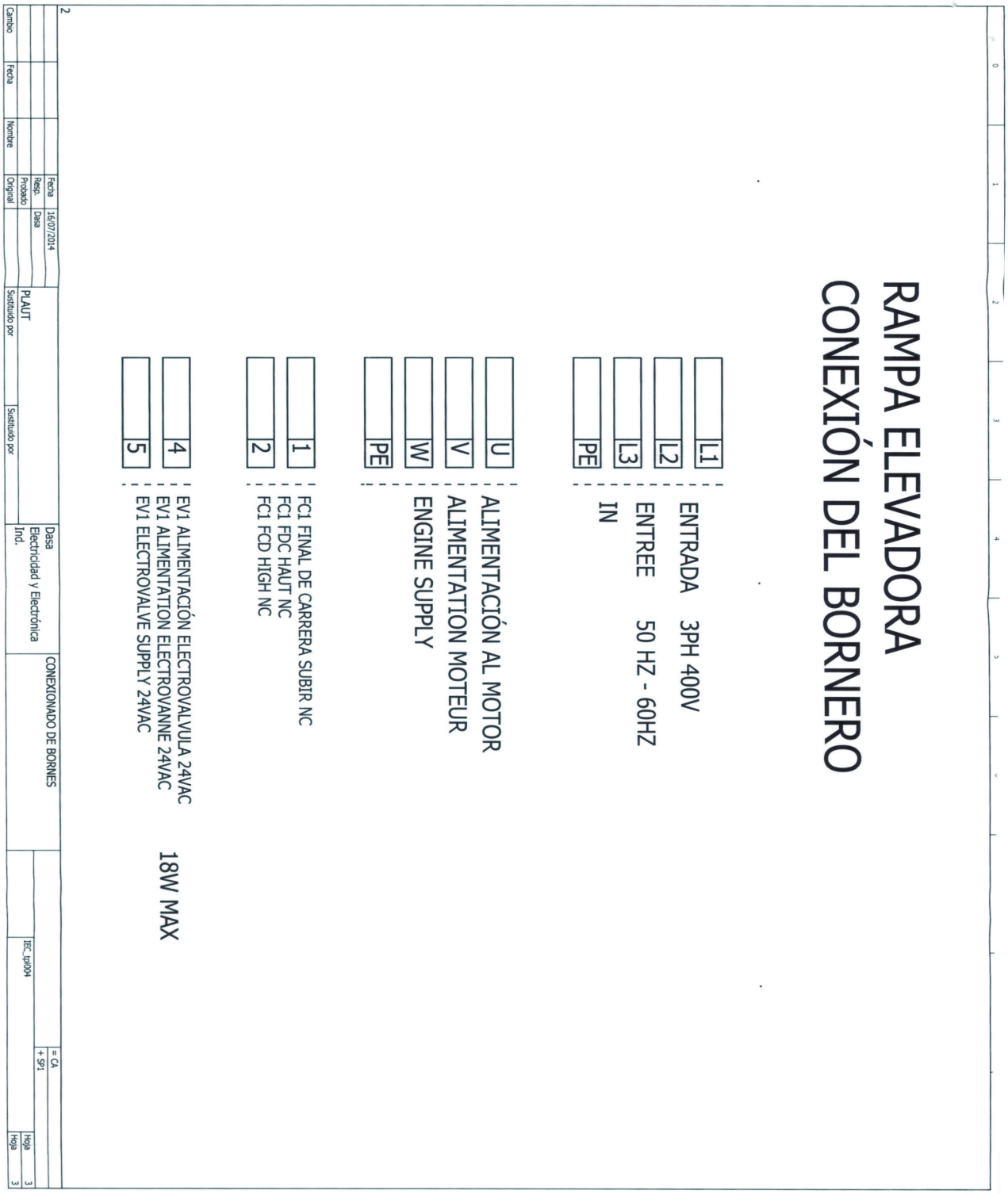
RHL MODEL



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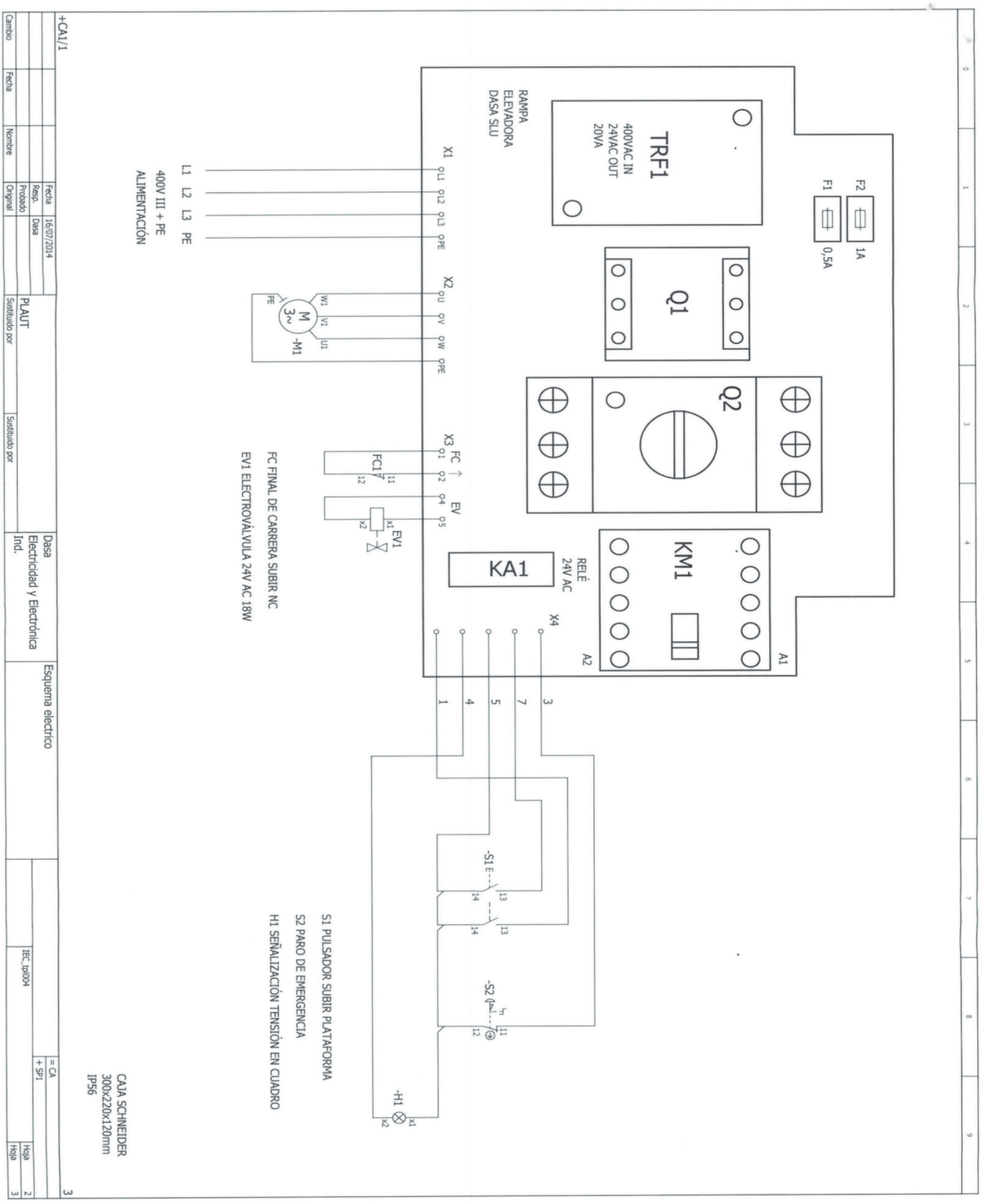
RHL MODEL



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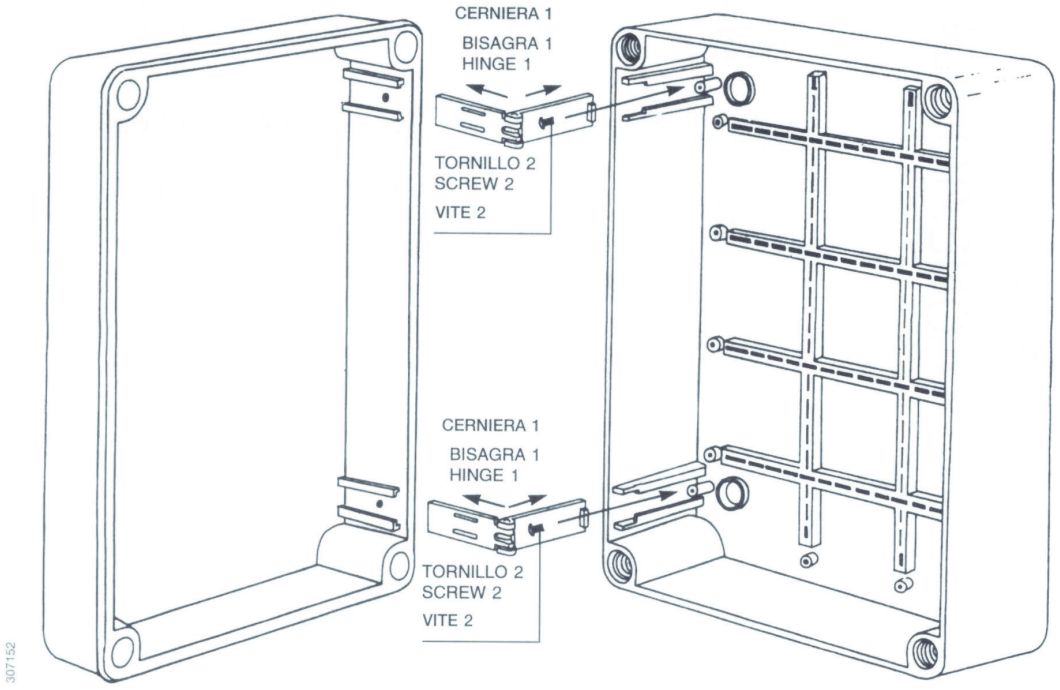
HINGE MOUNTING INSTRUCTIONS

1 | Introduce both hinges into the cover rails, as shown on the figure, so that the hinge insert coincide with the cover hole.

2 | Introduce the second halves of the hinges into the botom rails and make them slide down to the bottom.

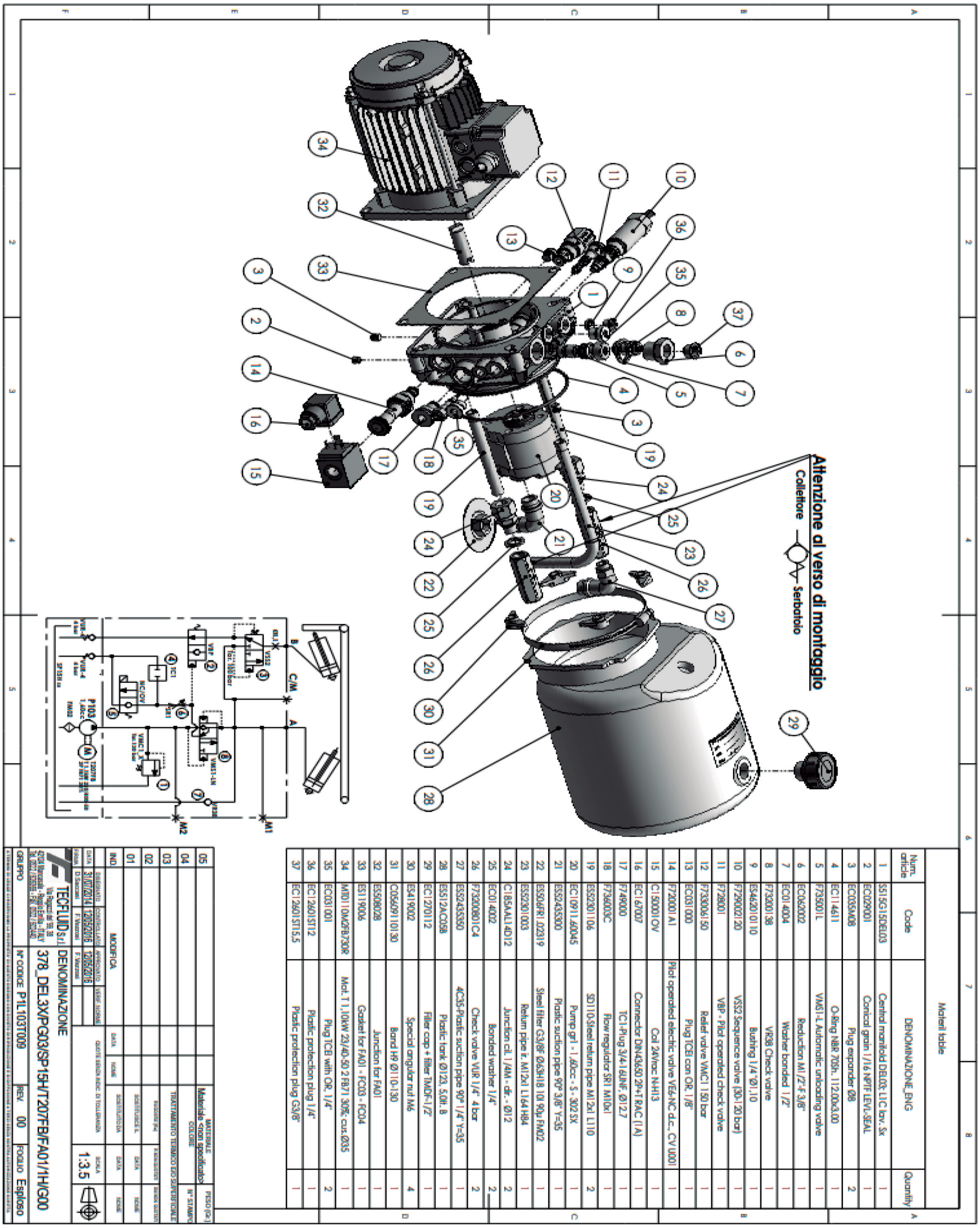
3 | Keeping the cover perpendicular to the bottom introduce the metal screew as shown on the figure.

To remove the hinge from the cover, insert a screwdriver into the space betwen the bottom of the cover and the hinge edge and push towards outside.



HYDRAULIC RAMP

RHL MODEL



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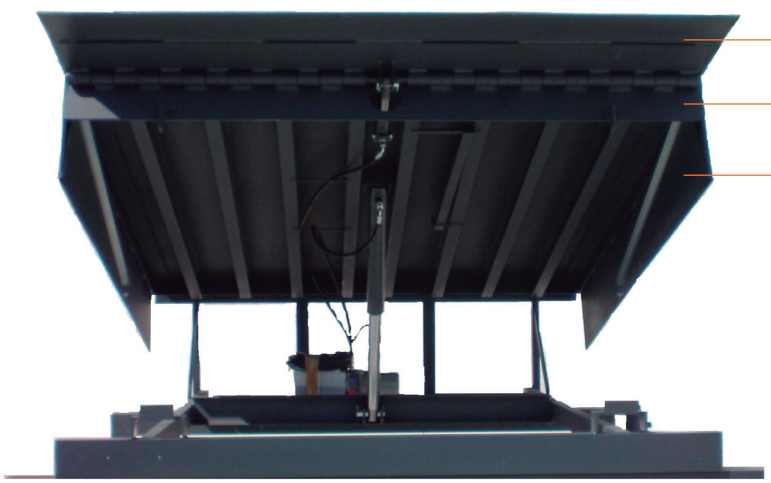
PRODUCT DATA SHEET

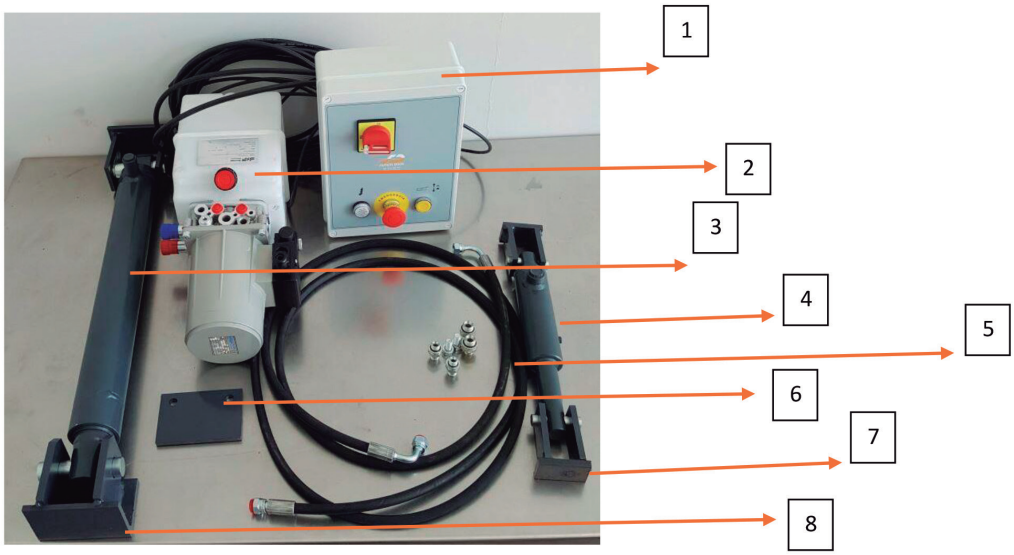
HYDRAULIC RAMP
RHL MODEL

RAMP BREAKDOWN



1. **A150101040200** Lip 2000x400
2. **A120602042000** Lip kit*
3. **A150317001200** Mobile skirt (x2)

*Lip + cylinder ears + lip + hinges + handrails



A160801010000 Hydraulic Kit

1. **A170402000015** Electrical panel RHL
2. **A160602000015** Hydraulic unit
3. **A160102050470** RHL 50x470 lifting cylinder
4. **A160102LABRHL** Lip cylinder 30x105
5. **A160202001500** RHL 1500 hose/
   A160202002150 Lip hose 2150
6. **A150305000000** P.0005 Switchboard support
7. Lip cylinder support
8. Lifting cylinder support

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HYDRAULIC RAMP
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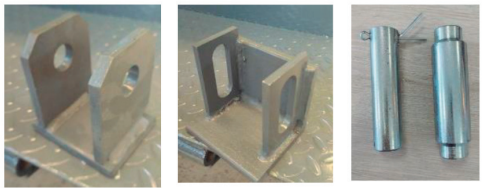
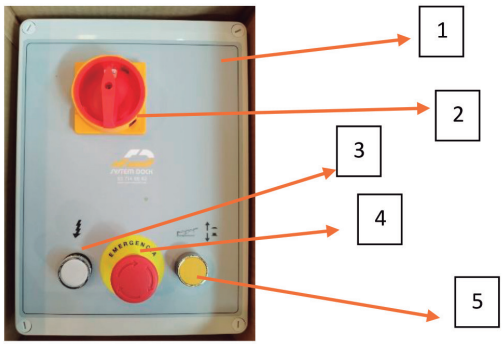
Lip cylinder support

A150306000000 P.006 Ears (x4)
Shaft Ø 16 (x2)
Fin pin (x4)

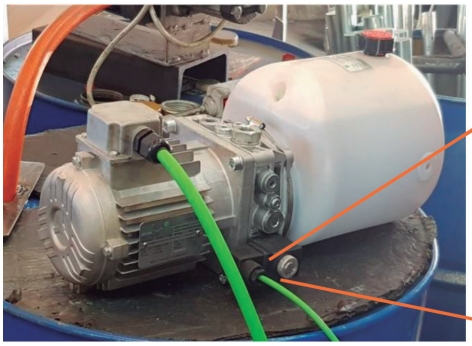


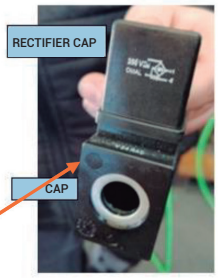
Lifting cylinder support

A150301000000 P.0001 Support (x2)
A150304000000 P.0004 Upper bracket (x2)
A150400010030 Recessed shaft Ø 30
Shaft Ø 25
Flap pin (x2)



1. **A170402000020** Box with cover
2. **A280000000023** Disconnector
3. **A280000000021** LED pilot light
4. **A280000000022** Red mushroom push button
5. **A280000000041** Complete push button





A170802024250 Rectifier connector 12V-24V-250V

A170600000024 Coil 24 DC

A160502000000 Complete solenoid valve

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BASIC GUIDE TO RESOLVING RAMP INCIDENTS

Do not press the emergency button, except in an emergency. Pressing it causes the cylinders to retain the oil pressure inside them and exerts unwanted force on parts of the ramp. The ramp lowers by gravity.

RAMP REGULATIONS

1 | ADJUSTING THE DESCENT SPEED: open by unscrewing the throttle to make it go faster and close by screwing it to make it go slower.

2 | ADJUSTING THE LIP SPEED: open by unscrewing the throttle to make it go faster and close by screwing it to make it go slower.

POSSIBLE INCIDENTS

A | THE MACHINE DOES NOT RAISE:

:: **If the motor turns:**

. The phase may need to be changed in the electrical panel.

. Check that there is oil.

:: **If the motor does not turn:**

. Check connections and power supply.

. Check that the cable is not cut.

B | THE MACHINE DOES NOT DESCEND:

. Check that the emergency button has not been activated.

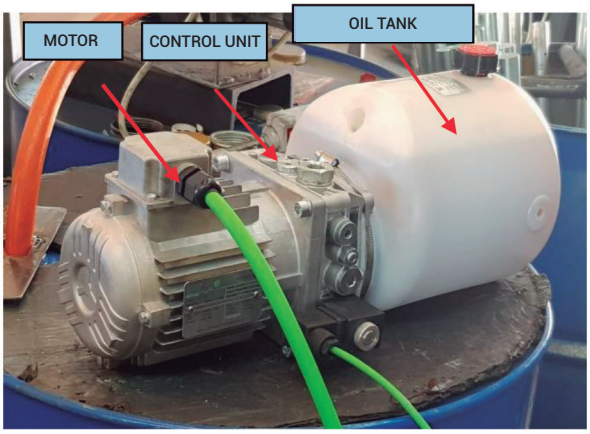
. Check that the solenoid valve is receiving power. Check the wiring and coil.

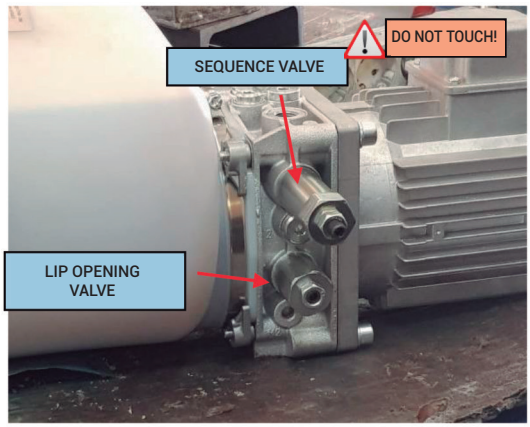
. If it is receiving power, check that the choke is not too tight. It is factory-set.

C | THE LIP DOES NOT OPEN:

. Check for oil.

. Check that the valve is not too tight.





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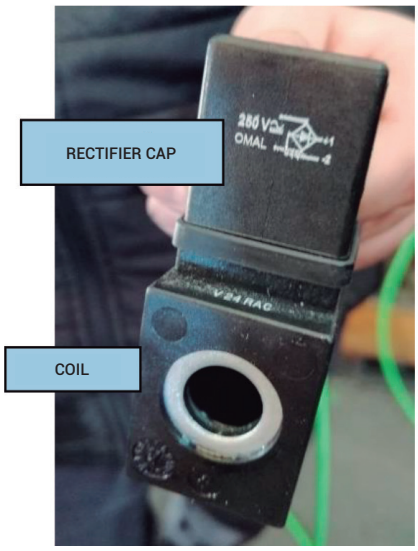
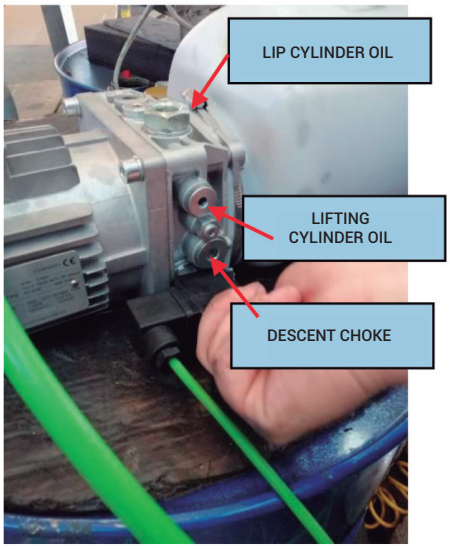
HYDRAULIC RAMP
RHL MODEL

Continuous coil has rectifier (System Dock ramps case)

Alternating coil does NOT have rectifier (not common).

Normally open solenoid valve: its function is to tell the hydraulic unit to change the circuit so that the machine can lower.





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