

Vac-line

Your Partner in Safe Handling

SPYDA HD4

Operator's / Owner's Manual



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Due to our policy of continuous improvement, Packline reserves the right to make technical improvements and alterations without notice.

Introduction

Scope of Manual

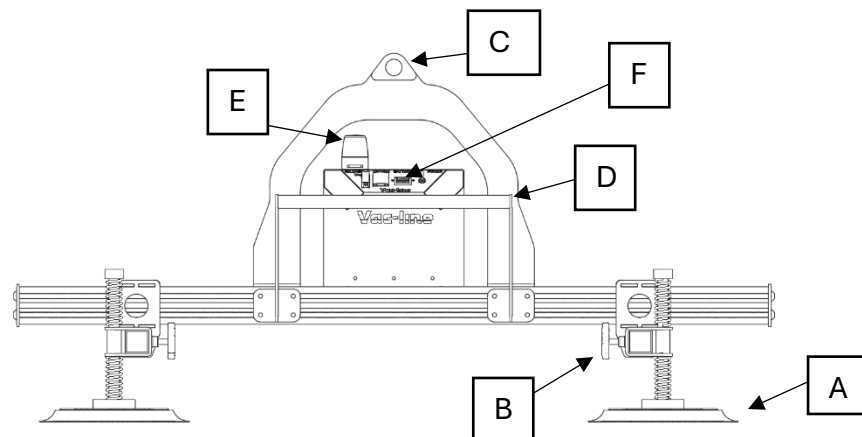
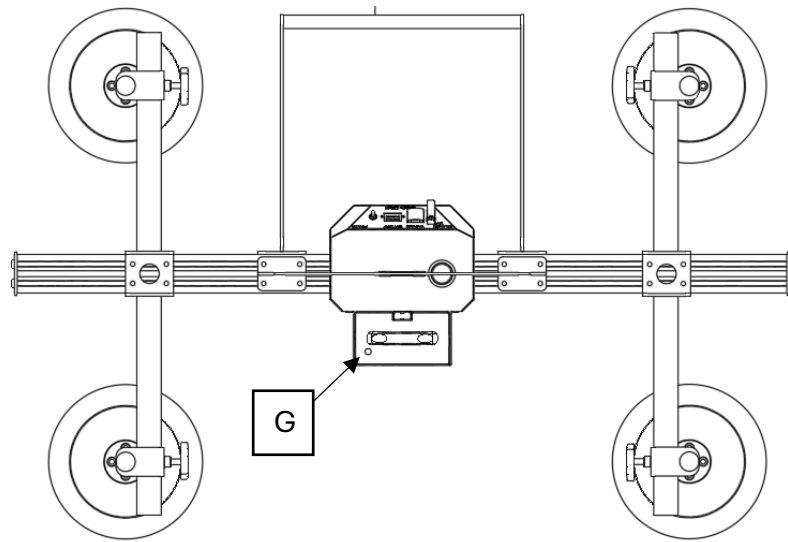
This manual has been compiled to assist in the operation of the vac-line lifting solution and in the case of European models to meet regulations stated in the CE Declaration of Conformity.

General Safety

The vac-line lifting solution should:-

- **Be specified to your application** - Considering strength, stability, and suitability, taking into account the Safe Working Load of the Lifter and Attachment it will be fitted with - the load should not exceed the guidelines i.e., Max. load and load centre distance.
- **Be tested with the specified load** - Every effort has been made to ensure that the vacuum Spider is suitable for most applications. However, due to variations each application should be tested for suitability and safe operation.
- **Only be installed and maintained by competent authorised person(s).**
- **Only be operated by trained authorised personnel.**
- **Only be operated according to the instructions set out in this manual** - Ensure all relevant personnel have access to this document. Packline Ltd will not accept responsibility for any consequences arising from misuse of the Lifter or Attachments.
- **Only be maintained in accordance with the National regulations** - The Packline Maintenance Schedule supports European LOLER 98 regulations.
- **NOT be operated unless any supplied covers, guards and fail-safe locks are correctly fitted.**
- **NOT be modified without the written permission of Packline Ltd** - The company will not be held responsible for any injuries to personnel or damage caused due to unauthorised modification of equipment.
- **Be disposed of in a responsible manner** - If in doubt, contact Packline Ltd.

Reference



- A. Suction Pad
- B. X Axis Adjustment Locking Knob
- C. Lifting Point
- D. Manoeuvring Handle
- E. Beacon Sounder
- F. Control Panel
- G. Battery Pack

1.Operational Safety

1.1 General Safety Rules

- Never exceed the rated load capacity.
- Never lift porous, cracked, or damaged materials.
- Do not operate in high winds or unstable conditions.
- Keep all personnel clear of suspended loads.
- Always maintain visual contact with the load during lifting.

1.2 Personal Protective Equipment (PPE)

Operators must wear:

- Safety helmet
- Steel-toe boots
- High-visibility clothing
- Gloves
- Eye protection

1.3 Hazard Warnings

- **Vacuum failure risk:** Loss of suction can cause load to drop.
- **Battery failure:** Low battery may reduce vacuum performance.
- **Crushing hazard:** Keep hands and body clear of load and pads.

2. Equipment Description

2.1 Main Components

- Vacuum pads (suction cups)
- Vacuum pump (battery powered)
- Battery and control unit
- Vacuum reservoir (tank)
- Pressure gauge / digital display
- Warning alarm system (audio/visual)
- Lifting eye / hook attachment
- Control handle or remote

2.2 Operating Principle

The vacuum pump removes air from the suction pads, creating negative pressure that holds the load securely against the pads.

3. Pre-Operation Inspection

Before each use:

3.1 Visual Checks

- Inspect vacuum pads for cracks, wear, or contamination
- Check hoses and fittings for leaks
- Ensure lifting eye and frame are undamaged
- Verify all bolts and fasteners are secure

3.2 Functional Checks

- Turn on unit and verify battery level
- Run vacuum pump and confirm pressure reaches required level and beacon turns green
- Test alarm system (low vacuum warning red beacon and alarm sounding)
- Check control buttons or remote operation

Do not use equipment if any faults are found.

4. Operating Instructions

4.1 Preparation

1. Ensure load surface is clean, dry, and non-porous
2. Position lifter over the load using the crane
3. Lower pads evenly onto the surface

4.2 Engaging the Load

1. Activate vacuum pump
2. Wait until required vacuum level is reached (as indicated on gauge turning blue, and green light on beacon)
3. Confirm secure attachment before lifting

4.3 Lifting

- Lift slowly and smoothly
- Avoid sudden movements or jerking
- Keep load close to the ground initially to confirm stability

4.4 Transporting

- Move load steadily
- Avoid swinging
- Maintain clear communication with crane operator

4.5 Releasing the Load

1. Lower load onto stable surface
 2. Deactivate vacuum system
 3. Release suction pads
 4. Raise lifter clear of load
-

5. Battery Management

- Charge battery fully or swap to a charged one before lifting operations
 - Do not operate with low battery warning active
 - Use only approved charger
 - Inspect battery for damage
-

6. Maintenance

6.1 Daily

- Clean vacuum pads
- Check battery charge
- Inspect hoses and seals
- Check battery level

6.2 Weekly

- Inspect structural components
- Check vacuum system performance preform 15min leak down test.

6.3 Periodic (6 Monthly)

- Unit must be sent to Packline for service and recertification.
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7. Troubleshooting

Issue	Possible Cause	Action
Low vacuum	Leak or dirty pads	Clean or replace pads
Alarm sounding	Insufficient pressure	Stop operation Immediately
Unit won't start	Battery discharged	Recharge or swap battery
Load slipping	Surface unsuitable	Use correct material

8. Emergency Procedures

- **Vacuum loss:** Lower load immediately if safe
 - **Alarm activation:** Stop lifting and assess
 - **Equipment failure:** Isolate and report
-

9. Storage

- Store in a dry, clean environment
 - Protect pads from deformation
 - Disconnect battery if not in use for extended periods
-

10. Training Requirements

Operators must be trained in:

- Crane operation coordination
 - Load handling safety
 - Vacuum lifter controls and emergency procedures
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11. Specifications

- Maximum Load Capacity: 500kg
 - Battery Type: AGM interchangeable
 - Operating Voltage: 24v
 - Vacuum Level: 0.77 bar nominal
 - Weight of Unit: 72kg
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12. Final Notes

Safe operation depends on:

- Proper inspection
- Correct usage
- Regular maintenance

Failure to follow these instructions may result in serious injury or equipment.

Breakdowns

Due to the nature of this product in the instance of malfunction or damage, the unit must be sent back to Packline for repair. Packline will not consent to any other party working on this vacuum head or attempting to repair it.

Warranty

The unit is covered by a 1 year warranty.

Spare Parts

We carry an extensive range of spare parts for all products. For more details or to purchase spare parts contact us via the contact details provided.

For any assistance contact Packline with via the below.

Email: service@packline.co.uk

Email: spares@packline.co.uk

Phone: 01202 307700