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## LIFTRONIC Standard end effectors VAC-U-GRIP

File created on 22/10/2007

Updated 01/02/2014

Maahantuoja:



**VAC-U-GRIP** 

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VACUGRIP TOOLHEAD Vacuum End effector

### General features:

### Typical composition of the system:

- balancer (gearbox + feeder)
- □ structure (rail, orbit-arm on column, orbit-arm from ceiling)
- vacuum generator (pump)
- managing tooling (vac-u-grip)
- end-tooling (single suction or frame of suctions)

## Available vacuum generators:

- □ Venturi pumps (air compressed powered)
- □ Blowers pumps (electrically powered)
- □ High-vacuum pumps (electrically powered)

### General features:

- □ "Fixed loads" or "self-balancing" working modes
- ☐ IP43 protection degree (IP54 for electronic Control Unit)
- □ Standard color: RAL1018

### Figure:

- 1. Weighing load cell's flange
- 2. Tooling structure
- 3. Suctions frame
- 4. Control box
- 5. Control unit
- 6. Sensitive handle
- 7. Handle group

### Connection flange variants (1):

- □ Flange with sensor for 1 rope balancer
- Flange with sensor for 2 ropes balancer
- □ Flange with sensor for 3 ropes balancer

### Handle group variants (7):

- □ Standard handle (see picture)
- Lowered handle
- □ Folding handles (only for "D" model)
- With counterweight

### Default toolheads (standard):

- □ Vac-u-grip toolhead model A economic solution with venturi pump max load capacity 50 kg
- Vac-u-grip toolhead model B vertical toolhead economic solution with venturi pump max load capacity 50 kg
- Vac-u-grip toolhead model C Bag solution with blower max load capacity 50 kg
- □ Vac-u-grip toolhead model D Universal solution max load capacity 150 kg

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### **VAC-U-GRIP TOOLHEAD MODEL A**

Product code: 2ALVG... suction cups not incl.)

Note drawing as example only

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### Features:

- Max load capacity: 50 kg
- Surface of piece: not breathable
- □ Selfbalancing system with open memory
- □ Fully automatic grip and release phases
  □ Sensitive handle
- On-board vacuum pump (venturi)
- ☐ Air compressed minimum level: 5 bar
- ☐ Air requirements: dry and filtered

### Safety:

- ☐ In case of unsafe vacuum level, the load isn't lifted
- ☐ In case of unsafe vacuum level after the load lifting, the system descent slowly to ground
- ☐ In case of lifted load, it's not allowed the load release
- In case of electric power network faults, the system descent slowly to ground
- ☐ In case of air compressed pipe fault, the load isn't released

### Connected devices:

- □ Air compressed Kit (filter and regulator group + pipe + spiral pipe + accessories + general pneumatic valve)
- Vacugrip safety kit

### **VAC-U-GRIP TOOLHEAD MODEL B**

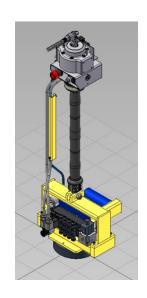
Product code: 2ALVG... suction cups not incl.)

Note drawing as example only

### Features:

- Wieght: to be defined
- 3 sizes with handle 250 400 600 mm

see model A for others features, safety behaviors and connected disposals





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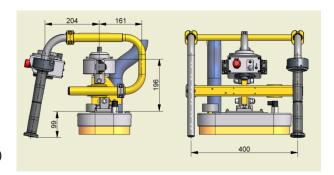
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### **VAC-U-GRIP TOOLHEAD MODEL C**

Product code: 2ALVG800... (suction not included)

### Features:

- Max load capacity: 50 kg
- □ Piece tipology: bag
- □ Selfbalancing system with open memory
- Automatic grip phase
- □ Automatic and/or manual release phase
- □ Sensitive handle (series)
- Base Control Unit
- Blower unit
- ☐ Tooling weight: 16.5 kg (suction cup not included)
- ☐ Floating mode not available



### Safety:

- ☐ In case of unsafe vacuum level, the load isn't lifted
- □ In case of unsafe vacuum level after the load lifting, the system descent slowly to ground
- In case of automatic release and lifted load, it's not allowed the load release

Note. in case of electrical power supply fault, the lifted load is released

### Connected device:

Blower generator

Note. It's necessary to specify if it's required to release the lifted loads (with a pushbutton)

### **VAC-U-GRIP TOOLHEAD MODEL D**

Product code: 2ALVG500... (suction/frame not included)

### Features:

- Max load capacity: 150 kg (as function of the chosen vacuum generator)
- Piece tipology: any
- Selfbalancing system with open memory or fixed loads
- Suction and release phases settable in automatic or manual (pushbutton) mode
- □ Sensitive handle (series)
- Plus control unit
- High vacuum generator (different size as function of the load)
- □ Vacuum level dinamic indication
- □ 2x16 characters display
- ☐ Tooling weight: 16 kg (suction/frame not included)
- ☐ Fold handles available on request
- Counterweight as option

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### Safety:

- ☐ In case of unsafety vacuum level, the load isn't lifted
- In case of unsafety vacuum level after the load lifting, the system descent slowly to ground. An acoustic buzzer is actived
- ☐ In case of lifted load, it's not allowed the load release
- In case of electric power network faults with lifted load, the system descent slowly to ground
- ☐ In case of electric power network faults with no load, the system stops

### Connected devices:

- ☐ High vacuum generator
- Vacugrip safety kit
- □ Valve and filter kit mounted on balancer structure