

# LIFTRONIC® AIR - COLUMN



MAX GROSS  
CAPACITY  
**FROM 80 TO 310KG**



VERTICAL  
STROKE  
**MAX 1.75M**



POWER SUPPLY  
**115/230 V-AC**  
**50/60 Hz**



POWER  
CONSUMPTION  
**MAX 100 VA**



ENCLOSURE  
PROTECTION  
**54 IP**

**INDEVA**<sup>®</sup>

INTELLIGENT DEVICES FOR HANDLING

## LIFTRONIC® AIR - COLUMN MOUNTED

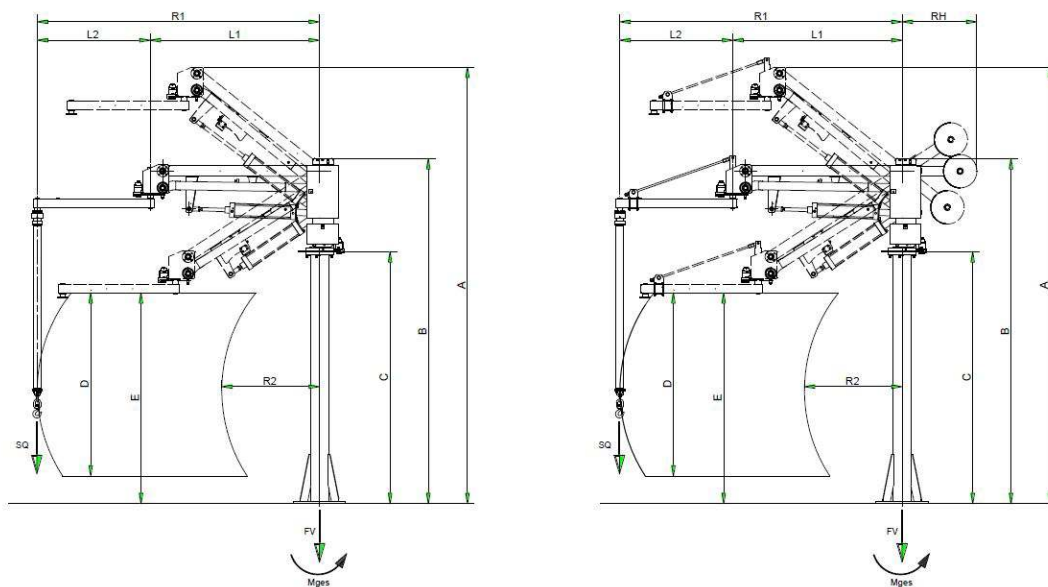
		MODEL EXAMPLES					
		LA080	LA160	LA160	LA250	LA250	
<b>SQ* (Max Load capacity)</b>	<b>Kg</b>	<b>80</b>	<b>110****</b>	<b>160</b>	<b>210****</b>	<b>250</b>	<b>310****</b>
<b>Max protrusion from tool axis</b>	<b>mm</b>	300	-	300	-	500	-
<b>Min Load Capacity</b>	<b>Kg</b>	10	10	12	12	15	15
<b>L1</b>	<b>mm</b>	1620	1620	1635	1635	1565	1565
<b>L2</b>	<b>mm</b>	1080	1080	1065	1065	1040	1040
<b>R1</b>	<b>mm</b>	2700	2700	2700	2700	2605	2605
<b>R2</b>	<b>mm</b>	907	907	935	935	900	900
<b>RH</b>	<b>mm</b>	-	715	-	910	-	960
<b>A**</b>	<b>mm</b>	4293	4293	4388	4388	4172	4172
<b>B**</b>	<b>mm</b>	3300.5	3300.5	3444	3444	3346.5	3346.5
<b>C**</b>	<b>mm</b>	2410	2410	2470	2470	2300	2300
<b>D Vertical stroke</b>	<b>mm</b>	1752	1752	1716	1716	1451	1451
<b>E**</b>	<b>mm</b>	2007	2007	2012	2012	2002	2002
<b>Weight</b>	<b>Kg</b>	290	408	465	620	548	713
<b>Fv max***</b>	<b>daN</b>	466	663	780	1050	1010	1300
<b>Mges max***</b>	<b>daNm</b>	520	450	957	990	1410	1360

\* Nominal load capacity SQ is determined with a compressed air supply of minimum 6.5 bars.

\*\* Within certain limits, these values can be modified for special client requirements.

\*\*\* Values including the relevant safety factor, as per CNR 10021/85 (Steel structures for lifting equipment)

\*\*\*\* With counterweights and reinforcement for arm. The load capacity increase over the nominal load capacity can be used only to counterbalance the weight of the tooling



### GENERAL TECHNICAL SPECIFICATIONS

- Air pressure 6.5 bars
- Power supply 115/230V A/C 50/60Hz
- Power consumption 100VA
- Enclosure protection IP54
- Max working temperature 0 to 40 °C
- Noise level < 70 dB(A)
- Lift speed from 15 to 30 m/min
- Main column axis brake
- Intermediate joint axis brake
- Column rotation 360°
- Tool axis rotation 550°
- Slow descent in case of pressure failure

Due to continuous product improvement, these specifications may change without notice.

This document is property of INDEVA S.p.A.; any partial or full reproduction without written authorization by the owner is prohibited.

## GENERAL INFORMATION

- Balancing type: load preset or self balancing (it depends from the tooling)
- Min. lighting conditions within the working area: 300 - 600 lux
- Relative humidity rate: 30% to 90% +/- 5%
- **Applicable standards:**
  - European safety standards 2006/42/CE (Machinery Directive)
    - Safety requirement in directive 2006/95/CE (Low voltage)
    - Safety requirement in directive 2004/108/CE (Electro-magnetic compatibility)
  - Design standards: - CNR 10021/85 (Steel structures for lifting equipment),
    - CNR 10011/86 (Steel products),
    - CNR 10028/85 (Aluminium alloy structures for lifting equipment),
    - CNR 10029/87 (High-resistance steel products)
    - UNI 7670, UNI 7278, DIN 4114, ISO 4304, DIN 1054, FEM/I-12-1970

## **SAFETIES**

(when assembled with tooling)

### **The system stops automatically when:**

- A communication error is detected (fault inside the cables, fault inside an electronic board...);
- Electric power supply switches off;
- The system controls the balancer's pressures (at different levels) and verify the congruencies between them.
- A fault inside the proportional electric valve is detected;
- A fault inside the proportional pneumatic valve is detected;
- The cylinder pressure is not congruent with required pressure;
- The load is lost/fault avoiding the "traditional" raising quick movement;
- An excessive acceleration is measured (due to faults);
- The STOP button is pressed (without the intervention of programmable electronic boards - only electromechanical elements).
- The system also generates warning (without stopping the balancer) in order to shown "out of range" working situations.
- Maximum load limitation by electronic limit (sealed for the maximum load at factory)

### **Optionals on request:**

- *Paint color: other than standard (green RAL 6018)*
- *Rotating joint on the articulate axis*
- *Brake for up/down movement*
- *System lock for the lift capacity*
- *Steel platform*
- *Limit switch for the main & intermediate joint axis*