

LIFTRONIC® AIR - CELING/RAIL



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®

INTELLIGENT DEVICES FOR HANDLING

LIFTRONIC® AIR - CEILING/RAIL

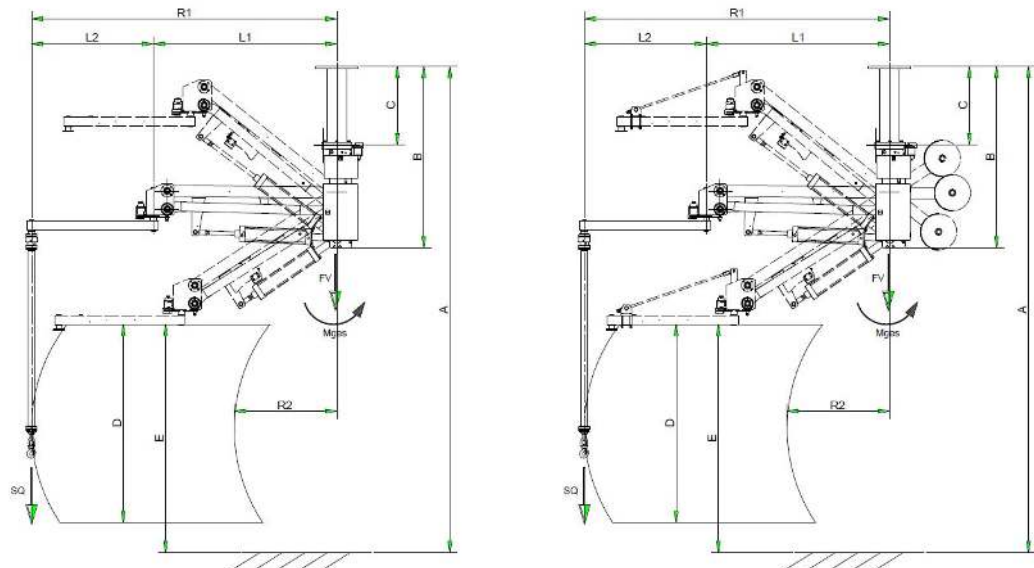
| | | MODEL EXAMPLES | | | | | |
|-------------------------------|------|----------------|---------|-------|---------|--------|---------|
| | | LA080 | | LA160 | | LA250 | |
| SQ* (Max Load capacity) | Kg | 80 | 110**** | 160 | 210**** | 250 | 310**** |
| Max protrusion from tool axis | mm | 300 | - | 300 | - | 500 | - |
| Min Load Capacity | Kg | 10 | 10 | 12 | 12 | 15 | 15 |
| L1 | mm | 1620 | 1620 | 1635 | 1635 | 1565 | 1565 |
| L2 | mm | 1080 | 1080 | 1065 | 1065 | 1040 | 1040 |
| R1 | mm | 2700 | 2700 | 2700 | 2700 | 2605 | 2605 |
| R2 | mm | 907 | 907 | 935 | 935 | 900 | 900 |
| RH | mm | - | 715 | - | 910 | - | 960 |
| A** | mm | 4293 | 4293 | 4388 | 4388 | 4172 | 4172 |
| B** | mm | 1602.5 | 1602.5 | 1614 | 1614 | 1536.5 | 1536.5 |
| C** | mm | 690 | 690 | 610 | 610 | 480 | 480 |
| D Vertical stroke | mm | 1752 | 1752 | 1716 | 1716 | 1451 | 1451 |
| E** | mm | 2007 | 2007 | 2012 | 2012 | 2002 | 2002 |
| Weight | Kg | 290 | 408 | 465 | 620 | 548 | 713 |
| Fv max*** | daN | 466 | 663 | 780 | 1050 | 1010 | 1300 |
| Mges max*** | daNm | 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.

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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*