

Multi-gun axis UA05-2, UA05-3

Coat tricky areas automatically

The multi-gun axis UA05-x is used for applications where top or underside coating with multiple guns are required. The solution uses a single positioning axis for the horizontal alignment of up to 3 automatic guns during the coating of complex components and XXL parts. In combination with the vertical Z-axis, the UA05-x unfolds its full strength to solve complex application challenges. The solution is expandable with angled nozzles and extensions to further increase the application range.

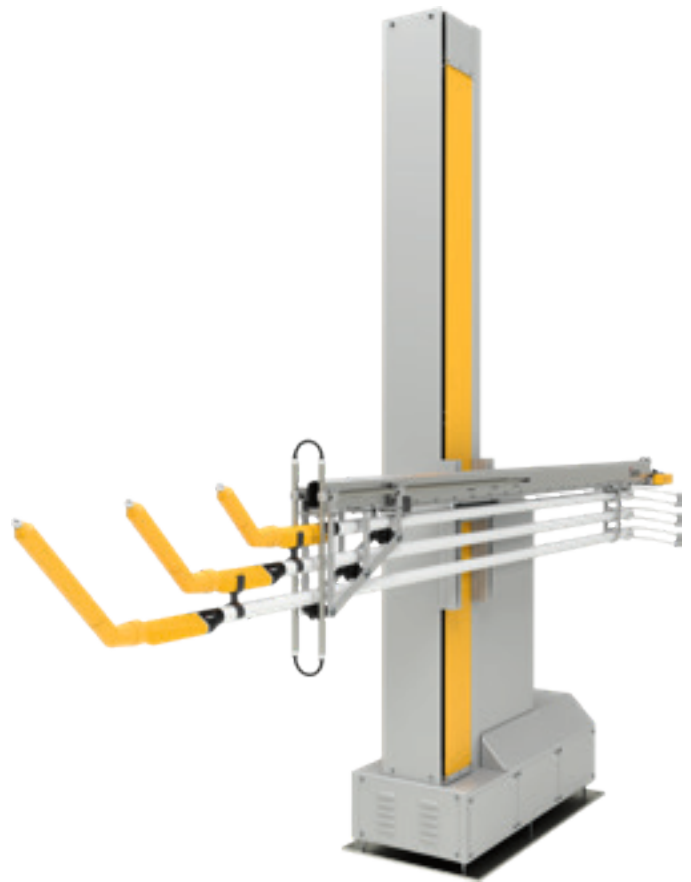
The multi-gun axis opens up new application solutions such as fixed gun positioning or horizontal oscillation across the work piece or applications where vertical gun positioning or top and/or bottom product tracking are required. This allows the automatic coating of tricky areas and offers a flexible approach for top-, underside- and deep contour coating. Manual touch-up is significantly reduced, allowing a higher coating quality and enhanced operator safety. The high-density gun configuration extends the range of capability for fully automated product application within the smallest application window. A cleaning function (blow-off ring) removes powder from the guns and support tube during line gaps and during color change.

Main features:

- Up to 3 automatic guns arranged along the UA05-x axis (gun arrangement in a single row)
- Space-saving, compact design
- Horizontal reciprocating movement
- Horizontal and vertical gun positioning
- Expandable with angled nozzles and extensions
- Integrated cleaning function (blow-off ring) for gun body and support tube during line gaps and color change
- Based on proven UA05 gun axis features
- ZA15 / ZA16 / ZA07 / ZS04 can be equipped with UA05-x
- Suitable for use with Dynamic Contour Detection or 3D application programming
- Fast response; up to 0.6 m/s stroke speed over 1.80 m stroke length travel for coating of large work pieces
- Programming via MagicControl 4.0

Customer benefits:

- Combination of under guns, over guns and depth contour guns to solve complex application tasks without the need for robots or individual programs
- Horizontal reciprocating movement under or above the part for increased coating quality
- Increased automation level thanks to vertical positioning and product tracking
- High-density gun configuration optimizes penetration and exposure times within the most complex or largest components, minimizing manual touch-up.
- Increases coverage and productivity through high-capacity automated application
- Precise positioning and movement of multiple guns within vertical and horizontal planes



UA05-3 multi-gun axis with 3 guns and blow-off ring



UA05-2 multi-gun axis with 2 guns and blow-off ring

Technical data UA05-2, UA05-3

| | |
|---|--|
| Stroke speed | 0.08 – 0.6 m/s |
| Acceleration | 0.1 – 2.0 m/s ² |
| Loading capacity UA05-2 | 2 automatic gun GA04-X |
| Loading capacity UA05-3 | 3 automatic gun GA04-X |
| Voltage | 230 V, 50/60 Hz |
| Weight Gun axis UA05-x (stroke 1.80 m) | 21 kg (UA05-2) 25 kg (UA05-3) (incl. guns and powder hose) |
| Temperature range | 10 °C – +40 °C / 32 °F – +104 °F |
| Synchronous motor | 400 watt degree of protection IP 54, insulation class F |
| Position detection | Pulse generator extension integrated in synchronous motor |
| Available stroke length | 1.80 m / 1.40 m / 1.00 m / 0.60 m |



Associated system components:

- Vertical reciprocator:
 - ZA16 (max. 2 multi-gun axis UA05-x, next to each other)
 - ZA15 (max. 2 multi-gun axis UA05-x, next to each other)
 - ZA07 (max. 1 multi-gun axis UA05-x)
- Stationary stand:
 - ZS04
- Automatic gun OptiGun GA04-X
- Angled nozzles and extensions
- MagicControl 4.0 system control

Gema Switzerland reserves the right to make technical changes without prior notice!

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