

# 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.

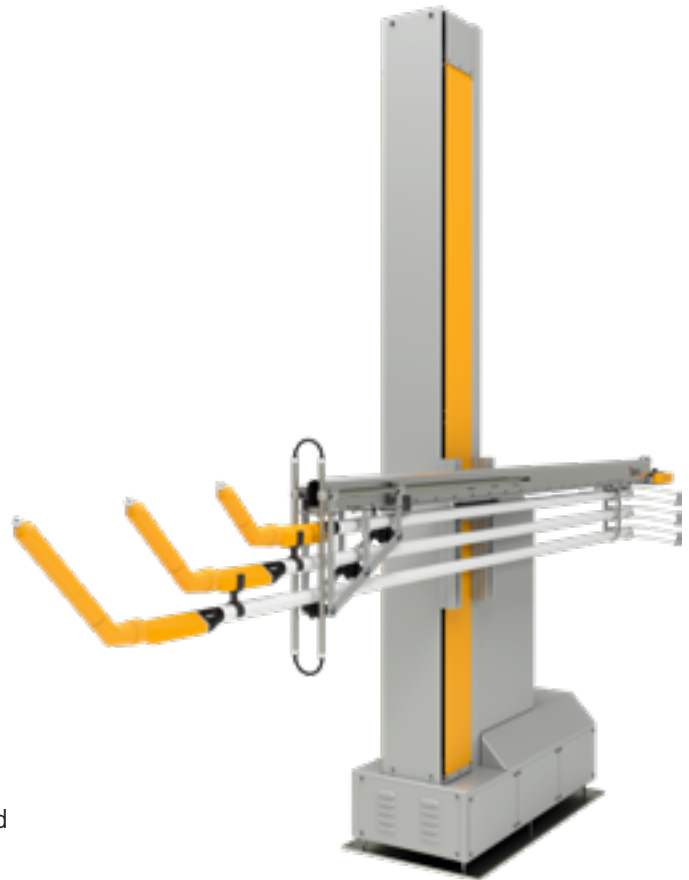
The multi-gun axis opens up new application solutions such as fixed gun positioning or horizontal oscillation across the work piece or applications where vertical gun positioning or top and/or bottom product tracking are required. This allows the automatic coating of tricky areas and offers a flexible 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
- ZA17 / ZA16 / ZA15 / 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*

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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 <sup>2</sup>
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 IP 54, insulation class F
Position detection	Pulse generator integrated in synchronous motor
Available stroke length	1.80 m / 1.40 m / 1.00 m / 0.60 m



### Associated system components:

- Vertical reciprocator:
  - ZA17 (max. 1 multi-gun axis UA05-x)
  - 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!

### Gema Switzerland GmbH

Sommeraustrasse 5 | 9200 Gossau | Switzerland  
T +41 71 313 83 00 | [www.gemapowdercoating.com](http://www.gemapowdercoating.com)

