

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.

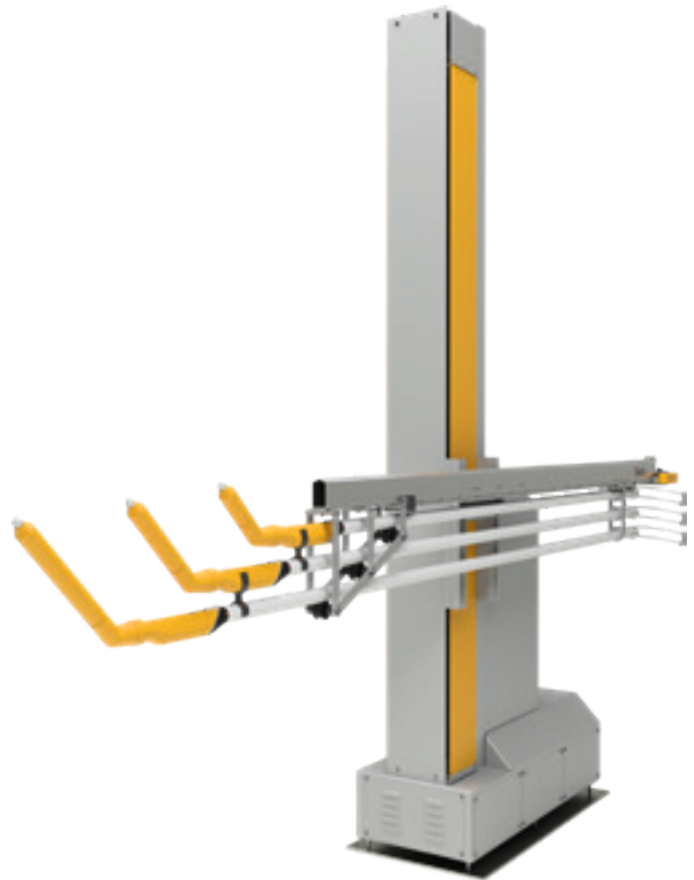
The multi-gun axis opens up new application solutions such as fixed gun positioning or horizontal oscillation across the work piece or applications where vertical gun positioning or top and/or bottom product tracking are required. This allows the automatic coating of tricky areas and offers a flexible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

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
- 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



UA05-2 multi-gun axis with 2 guns

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 GA03-X
Loading capacity UA05-3	3 automatic gun GA03-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 to +40 °C
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 GA03-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

Mövenstrasse 17 | 9015 St.Gallen | Switzerland
T +41 71 313 83 00 | www.gemapowdercoating.com

