Conexis® Series - CX-3040

Conformal coating that combines flexibility and modularity

Features and Benefits

- Modular platform design allows options to be added as application needs change
- Up to three valves can be mounted to support a wide range of applications
- User software with offline programming capability offers an intuitive interface and provides powerful process controls
- Welded frame and linear encoders increase speed and accuracy
- Automate your conformal coating process by leveraging our world-leading expertise in fluid dynamics, and award-winning global support network

The Conexis CX-3040 conformal coating system provides both speed and flexibility and is ideal for mid-volume, high-accuracy applications. Linear encoders enable the system to reach a maximum speed of 700 mm per second and an overall accuracy of 50 microns. Additional features and options can be added to the coater as production needs change.

The Conexis system’s software provides an easy-to-use interface with offline programming capability. The software’s dispense library can store and monitor information about different materials, dispense valves, and other necessary criteria for ready access. Also, the software can monitor all air pressures (main air pressure, tank pressure, and atomizing air pressure) to provide expanded process control.

The Conexis system can be configured with many different dispense and spray valves, including the high-speed airless Curtain valves. Up to three valves can be mounted on the independent Z-axis, with two capable of tilting (4-axis) and rotating (360 degrees).
**Specifications: Conexis® CX-3040 Series**

**Dimensions (LxWxH)**
- **Batch:** 1330 x 970 x 1470 mm (+500 mm for signal light)
- **In-line:** 1330 x 1430 x 1470 mm (+500 mm for signal light)

**Motion System**
- **Type:** Closed-loop servo drive with linear encoder
- **XY velocity:** 700 mm/s
- **XY acceleration:** 1 G (1000 mm/s²)
- **Z-axis velocity:** 250 mm/s
- **XYZ encoder resolution:** 1 µm
- **Positional accuracy:** 50 µm
- **Rotation (optional feature):** 360 degrees (only with Z-axis with motorized rotation and tilt [DR-2010])

**Work Area (based on one valve on Z-axis)**
- **Batch:** 525 x 420 mm
- **In-line chain conveyor:** 525 x 410 mm
  - **Z-movement:** 105 mm

**Board Clearance**
- **Batch:** 100 mm (top)
  - 40 mm (bottom)
- **In-line chain conveyor:**
  - 100 mm (top)
  - 100 mm (bottom)

**Conveyor Systems**
*(without option that can cause restrictions)*
- **Conveyor width (chain):** 32 mm / 410 mm (manual or automatic adjustable)

**Interface**
- **Controller:** Integrated microprocessor controllers
- **User interface:** PC controlled running on Windows® with user interface software

**Facility Requirements**
- **Power requirement (peak):** 200 VAC or 220/240 VAC, 50 - 60 Hz, 2500 Watt
  - **Note:** Optional 110 V/AC available.
- **Air requirement:** 6 bar, 85 PSI, 100 L/min
- **Extraction:** 250 m³/h
- **Noise:** Noise emission during operation < 70 dB(A)
- **Weight:** 510 kg without tanks

**Standard Features**
- Batch conformal coating machine with PC, LCD monitor, key board, and trackball
- Batch tooling plate with static PCB holder
- Exhaust connection system with flow detection
- Manual teaching camera (CCD) for alignment
- Offline programming capability
- One basic Z-axis and two open positions for an optional second or third Z-axis
- One solvent/purge station
- Software-controlled system, material, and atomizing air pressures
- Stainless steel cover

**Optional Features and Configurations**
- Additional material and/or spray regulators with pressure control sensors (max. six regulators per machine)
  - Automatic chain conveyor with or without automatic width adjustment
  - Automatic needle calibration and/or cleaning unit (vacuum)
  - ESI Auto fiducial alignment software
  - Flow monitoring system
  - Material tanks and reservoirs with low level (empty) detection sensors
  - Motorized Z-axis with motorized rotation (360 degree) and pneumatic tilt (4th axis with tilt)
  - Signal light tower
  - SMEMA cable (2 meters)
  - Software interface for bar code recognition system for 1D or 2D
  - Static universal product holder in combination with four adjustable universal clamping blocks
  - Variety of spray, curtain, and needle valves:

**Additional options may be available: contact Nordson ASYMTEK for further information.**
Specifications: Conexis® CX-3040 Series

Dimensions are in millimeters

Conexis system configured for in-line

Front view (mm)

A: Inlet for air hose, on the backside of machine.
E: Exhaust pipe (100 diameter), on the backside of machine.
P: Outlet for power cable, on the bottom of machine.

Side view (mm)

Back view (mm)

For more information, visit our website to locate your local representative or contact your regional office:
nordsonasymtek.com
info@nordsonasymtek.com

North America
Headquarters
Carlsbad, CA

China
Shanghai
Beijing
Guangzhou
Taipei

EMEA
Deurne, Netherlands

S.E. Asia/Australia
Singapore

Korea
Seoul

Japan
Tokyo

India
Chennai

Nordson ASYMTEK
+1.760.431.1919
2747 Loker Avenue West
Carlsbad, CA USA 92010-6603

Published 2018-03-21 Updated

Page 3 of 3