

Product Booklet

ADHESIVES, COATINGS, TAPES, SEALANTS AND LUBRICANTS

Adhesives

00300 Adhesives, Acrylic
 00400 Adhesives, Anaerobic
 00500 Adhesives, Conductive
 00600 Adhesives, Cyanoacrylate
 00700 Adhesives, Epoxy
 00800 Adhesives, Fastener Retention
 00900 Adhesives, Hot-Melt
 01000 Adhesives, Silicone
 01100 Adhesives, Urethane
 01200 Adhesives, IR & UV Cureable

01300 Adhesive Tapes, Conductive
 01400 Adhesive Tapes, Pressure Sensitive
 01500 Adhesive Preforms
 01600 Conformal Coatings
 01700 Encapsulating and Potting Material
 01800 Formed-In-Place Gasket Material

Lubricants

01830 Assembly Lubricants
 01850 Insertion Aids or Lubricants
 01875 Machinery Lubricants

01900 Sealant Material

ASSEMBLY HARDWARE AND MACHINE COMPONENTS

02100 Bearings
 02200 Cabinets and Enclosures
 02250 Castings and Stampings
 02300 Clamps, Manual and Powered
 02400 Couplings, Mechanical
 02500 Machine Bases, Tables and Platforms
 02600 Machine Mounts
 02700 Modular Structural Framing Components
 02750 Sensor Brackets
 02800 Shock Absorbers, Mechanical and Gas

AUTOMATED ASSEMBLY MACHINES AND SYSTEMS

03000 Assembly Machine Chassis

Assembly Machines

03200 Assembly Machines, Carousel
 03250 Assembly Machines, Continuous Motion
 03300 Assembly Machines, In-Line

03400 Assembly Machines, Nonsynchronous (Power-and-Free)

03500 Assembly Machines, Rotary
 03600 Assembly Machines, Walking Beam Transfer

03700 Assembly Machine Dial Plates
 03800 Flexible Assembly Systems
 03900 Nutrunning Machines, Single- and Multiple-Spindle
 04000 Screwdriving Machines, Single- and Multiple-Spindle

AUTO ID, BAR CODING, PRODUCT MARKING AND LABELING EQUIPMENT

04200 Bar Code Printers and Readers
 04300 Engraving and Stamping Machines
 04400 Ink Jet Printers
 04500 Labels
 04600 Label Printers and Dispensers
 04700 Laser Marking Machines
 04800 Marking and Printing Machines
 04900 Pad Printers
 05000 RFID Systems
 05100 RFID Tags

BRAZING, SOLDERING AND WELDING EQUIPMENT

05300 Brazing Systems
 05350 Crimp Soldering
 05400 Fume Extractors
 05500 Soldering Irons and Controllers

Soldering Machines

05700 Soldering Machines, Hot Air
 05800 Soldering Machines, Hot Bar
 05900 Soldering Machines, Microflame

06000 Soldering Tips and Tip Cleaners
 06100 Ultrasonic Welding Machines, Metal
 06200 Ultrasonic Welding Machines, Plastic
 06300 Ultrasonic Welding Machine Horns

Welders

06500 Welders, Friction
 06600 Welders, Hot Plate
 06700 Welders, Induction
 06800 Welders, Plastic, Hot Air
 06900 Welders, Laser
 07000 Welders, Microflame
 07100 Welders, Spot
 07200 Welders, Stud

CLEANING EQUIPMENT AND SUPPLIES

Cleaning Machines

07500 Cleaning Machines, Aqueous
 07600 Cleaning Machines, Plasma
 07700 Cleaning Machines, Solvent Bath
 07800 Cleaning Machines, Ultrasonic

07900 Cleaning Materials

CONTRACT ASSEMBLY AND ASSEMBLY-RELATED SERVICES

08100 Contract Assembly and Manufacturing
 08200 Contract Engineering Services
 08225 Contract Fastener Coating
 08250 Contract Inspection and Testing
 08300 Contract PCB Assembly
 08350 Contract R&D Services
 08500 Contract Wire Harness Assembly
 08700 Rapid Prototyping Services
 08800 Training Services
 08850 Advanced Technical Training and Certifications

CONVEYORS AND HANDLING SYSTEMS

09000 Automatic Guided Vehicles (AGVS)
 09100 Automated Storage and Retrieval Systems (ASRS)
 09200 Bins, Totes, Trays and Containers
 09300 Cable and Hose Carriers and Reels
 09400 Carts

Conveyors

09600 Conveyors, Accumulating
 09700 Conveyors, Belt
 09800 Conveyors, Carousel
 09900 Conveyors, Magnetic Belt
 10000 Conveyors, Overhead
 10100 Conveyors, Power-and-Free or Towline
 10200 Conveyors, Roller
 10300 Conveyors, Vacuum
 10350 Overhead Cranes and Lifting Devices

10400 Returnable Packaging
 10500 Tray and Pallet Transfer Systems
 10600 Tray Stackers and Destackers
 10700 Lift Tables and Lift Assist Devices

DISPENSING AND CURING EQUIPMENT

10900 Adhesive Cartridges

11000 Adhesive Dispensers, Automatic
11100 Adhesive Dispensers, Manual
11200 Adhesive Mixing and Metering Equipment
11250 Adhesive Packaging Systems
11300 Adhesive Tape Dispensers
11400 Dispensing Needles and Tips
11500 Dispensing Valves
11600 Encapsulating and Potting Equipment
11700 IR & UV Curing Equipment
11750 Lubricant Dispensing Equipment
11800 Solder Paste Dispensing Equipment

ELECTRICAL, ELECTRONIC AND FIBER
OPTICS COMPONENTS AND SUPPLIES

12000 Cable Assemblies and Cord Sets
12100 Component Carrier Tape
12200 Connectors, Splices and Terminals
12300 Electric Power Distribution Equipment
12400 Fractional Horsepower Motors
12500 Heat Shrink Tubing
12600 Printed Circuit Boards (Bare)
12700 Pushbuttons and Switches
12800 Shielding Material (EMI and RFI)
12900 Signal Lights and Status Displays
13000 Solder Dam and Mask Material
13100 Solder Wick
13200 Standoffs
13300 Static Control Material
13400 Stencils and Squeegees for Screen Printing
13500 Strain Relief Devices
13600 Uninterruptible Power Supplies
13700 Wire and Cable
13800 Wire and Cable Ties
13900 Wire Wrap
14000 Wire Marking Labels

FASTENERS AND PRECISION FORMED
PARTS

14200 Bolts
14400 Fasteners, Tamper-Proof
14500 Fasteners, Torque-Limiting
14600 Inserts
14700 Nails
14800 Nuts
14900 Pins, Coiled Spring
15000 Pins, Solid
15100 Precision Formed Parts
15200 Quick-Operating Fasteners
15300 Retaining Rings
15400 Rivets, Blind
15500 Rivets, Self-Piercing
15600 Rivets, Solid
15700 Screws
15800 Screw-Washer Assemblies (SEMS)
16100 Threaded Studs
16200 Washers
16300 Weld Nuts and Studs

FORMING AND RIVETING MACHINES

16500 Clinching and Staking Machines
16600 Impact Riveting Machines
16700 Injected Metal Assembly Machines
16800 Orbital Forming and Riveting Machines
16900 Radial Forming and Riveting Machines
17000 Spin-Rolling Machines

INSPECTION EQUIPMENT: ACOUSTIC,
OPTICAL AND X-RAY

17200 Acoustical Inspection Machines
17300 Automated Optical Inspection (AOI) Machines
17400 Magnifiers
17500 Microscopes
17600 Optical Comparators
17700 Solder Paste Inspection Machines
17800 X-Ray Inspection Machines

MOTION CONTROL, POSITIONING AND
INDEXING EQUIPMENT

18000 Actuators, Linear
18025 Actuators, Electric Linear
18050 Actuators, Pneumatic Linear
18100 Actuators, Rotary
18125 Actuators, Electric Rotary
18150 Actuators, Pneumatic Rotary

18200 Ballscrews
18300 Cam and Dial Indexers

Couplings

18600 Couplings, Torque-Limiting
18700 Couplings, Zero-Backlash

18800 Encoders, Linear
18900 Encoders, Rotary
19000 Laser-Guided Positioning Devices
19100 Linear Motors
19200 Linear Slides
19300 Motion Control Systems
19400 Nanopositioning Devices and Systems
19500 Rotary Indexing Tables
19600 Servo Drives and Systems
19700 Servo System Controllers
19800 Stepper Motors and Controls
19900 X-Y Tables

PARTS FEEDERS AND POSITIONING
EQUIPMENT

20100 Counting Scales
20200 Guidance Devices for Manual Parts Picking
20300 Part Counters
20400 Part Feeder Controls

Part Feeders

20700 Part Feeders, Centrifugal
20750 Part Feeders, Conveyor-Based
20800 Part Feeders, Elevator
20900 Part Feeders, Hopper
21000 Part Feeders, Magazine

21050 Part Feeders, Robotic
21100 Part Feeders, Vibratory Bowl
21200 Part Feeders, Vibratory Linear

21300 Part Positioners and Manipulators
21400 Part Tracks and Escapements
21500 Parts Trays and Pallets
21600 Pick-and-Place Machines
21700 Screw Feeders
21800 Sorting and Separating Machines
21900 Spring Feeders
22000 Vacuum Part Pickups and Suction Cups

PCB ASSEMBLY MACHINES, EQUIPMENT
AND TOOLS

22200 Component Placement Machines, Surface Mount
22300 Component Insertion Machines, Through-Hole
22400 Component Taping Machines
22500 Lead Forming and Clinching Machines
22600 Conformal Coating Application Machines
22700 Desoldering Stations
22800 Flux Application Machines
22900 Hand Tools For Electronics Assembly
23000 Odd-Form Parts Insertion and Placement Machines
23100 PCB Carriers
23200 PCB Drilling Machines
23300 PCB Depaneling Machines
23400 PCB Handling and Feeding Machines
23500 PCB Rework and Repair Equipment
23600 Reflow Ovens
23700 Screen and Stencil Printing Machines
23800 Solder Ball Placement Machines
24000 Static Control Devices
24100 Stencil Cleaning Machines
24200 Terminal and Connector Insertion Machines
24300 Vapor Recovery Systems
24400 Wave Soldering Machines

PNEUMATIC AND HYDRAULIC
EQUIPMENT AND COMPONENTS

24600 Air Compressors
24700 Controls, Hydraulic
24800 Controls, Pneumatic
24850 Couplings, Hydraulic and Pneumatic
24900 Cylinders, Hydraulic
25000 Cylinders, Pneumatic
25100 FRL Units
25200 Gaskets
25300 Hose, Compressed Air
25400 Hydraulic Pumps
25500 Lubrication Equipment
25600 Motors, Hydraulic
25700 Motors, Pneumatic
25800 O-Rings and Seals
25900 Vacuum Pumps
26000 Valves, Hydraulic and Pneumatic

POWER AND HAND TOOLS AND ACCESSORIES

26200 Angle Attachments for Power Tools
26300 Drills, Pneumatic
26400 Drills, Electric
26500 Extensions
26600 Heat Guns
26700 Impact Wrenches, Pneumatic
26800 Impact Wrenches, Electric
26850 Material Handling Equipment
26900 Nut Drivers, Manual
27000 Nutrunners, Electric
27100 Nutrunners, Pneumatic
27300 Portable Rivet-Setting Guns and Tooling
27400 Pulse Tools
27500 Screwdriving Bits

Screwdrivers

27700 Screwdrivers, Cordless Electric
27800 Screwdrivers, Electric
27900 Screwdrivers, Manual
28000 Screwdrivers, Pneumatic

28100 Sockets For Power Tools
28200 Stud Driving Tools, Powder Actuated
28300 Tool Balancers
28400 Tool Boxes and Chests
28500 Torque-Absorbing Arms for Power Tools
28600 Torque Wrenches

PRESSES, AND SEAL AND O-RING INSTALLATION MACHINES

28800 Eyeletting Machines
28900 Insert Drivers, Heat and Ultrasonic
29000 Pin Insertion Machines

Presses

29200 Presses, Electric
29300 Presses, Electromechanical
29400 Presses, Hydraulic
29500 Presses, Hydropneumatic
29600 Presses, Manual
29700 Presses, Pneumatic

29900 Seal and O-Ring Installation Machines

PRODUCTION MACHINES AND EQUIPMENT

30075 3D Printers
30100 Abrasive Blasters
30200 Cooling Machines
30300 Laser Cutting Machines
30400 Ovens (excluding those for PCB Soldering)
30500 Packaging Machines
30700 Spring Coiling Machines
30800 Tying, Bundling and Taping Machines

PROGRAMMABLE CONTROLLERS, SOFTWARE, MACHINE CONTROLS AND DATA ACQUISITION DEVICES

31000 Computer-Guided Assembly Aids and Systems
31100 Data Acquisition Devices
31200 Programmable Controllers
31300 Software (DFMA, Rapid Prototyping, Simulation, SPC, Vision)
31400 Machine Controls

ROBOTS AND ROBOT ACCESSORIES

31600 Collision Sensors and Crash Protection Devices
31700 Compliance Devices
31800 Control Systems for Robots and Vision
31900 End Effectors and Tool Changers
32000 Grippers, Mechanical

Robots

32200 Robots, 5- and 6-Axis
32300 Robots, Cartesian Coordinate
32500 Robots, Dispensing
32600 Robots, Gantry
32700 Robots, SCARA
32800 Robots, Soldering

SOLDER, SOLDER PASTE AND FLUX, BRAZING ALLOYS AND FLUX

33000 Brazing Alloys
33100 Brazing Flux
33200 Brazing Paste
33300 Brazing Alloy Preforms
33400 Solder Paste
33500 Solder Flux
33600 Solder Preforms

TEST, MEASUREMENT, CALIBRATION AND MOTION ANALYSIS EQUIPMENT

33800 Adhesion Testers
33900 Cable and Wire Testing Equipment
34000 Connector Crimp Monitors
34100 Electronic Circuit Test Systems
34200 Electrostatic Test Equipment
34300 Gauges, Force
34400 Gauges, Thread
34450 General Test Equipment and Systems
34500 Laser Measurement Equipment
34600 Leak Testing Machines and Systems
34700 Load Cells
34800 Motion Analysis Equipment
34900 Multimeters
35000 Press Fit Monitors
35100 Pressure Measurement Devices
35200 Productivity and Process Monitoring Systems
35300 Sensors, Force
35400 Sensors, Torque
35600 Thermal Profilers
35700 Torque Analyzers

35800 Torque-Tool Control Systems
35900 Torque-Tool Calibration Equipment
36000 Test Equipment For Fiber Optic Cable
36100 Wirebond Pull Testers
36200 Wire Strip Monitors
36250 X-Ray Fluorescence Analyzers

VISION SYSTEMS, SENSORS AND GUARDING DEVICES

36400 Cameras
36500 Guarding Devices, Electronic
36600 Guarding Devices, Mechanical
36700 Vision Systems
36800 Vision System Lighting Equipment
36900 Electro-Optical Sensors
37000 Proximity Sensors
37100 Tactile Sensors
37200 Torque Sensors
37300 Two-Hand Safety Controls

WIRE PROCESSING MACHINES AND TOOLS

37500 Coil Winding Machines
37600 Connector Crimping Machines
37800 Wire and Cable Tie Installation Machines
37900 Wire and Cable Tie Installation Tools
38000 Wire Cutting, Stripping and Terminating Machines
38100 Wire Cutting, Stripping and Terminating Tools
38200 Wire Harness Assembly Boards
38300 Wire Harness Manufacturing Equipment
38400 Wire Marking Machines

WORKSTATIONS, SEATING, WORK LIGHTING AND ACCESSORIES

38600 Assembly Benches
38650 Carts
38700 Chairs and Stools
38800 Mobile Tables
38900 Protective Clothing and Gloves
39000 Racks and Shelves
39100 Safety Items
39200 Work Lamps and Lighting
39300 Workstation Components and Accessories

Workstations

39500 Workstations, Adjustable Height
39600 Workstations, Modular
39700 Workstations, Pick-To-Light