

### **BUYERS GUIDE PRODUCT CATEGORIES**

#### **ADHESIVES, COATINGS, TAPES, SEALANTS and LUBRICANTS** AUTO ID, BAR CODING, PRODUCT MARKING and LABELING EQUIPMENT 04200 Bar Code Printers and Readers Adhesives 00300 Adhesives, Acrylic 04300 Engraving and Stamping Machines 00400 Adhesives, Anaerobic 04400 Ink Jet Printers 04500 Labels 00500 Adhesives, Conductive 00600 Adhesives, Cyanoacrylate 04600 Label Printers and Dispensers 00700 Adhesives, Epoxy 04700 Laser Marking Machines 00800 Adhesives, Fastener Retention 04800 Marking and Printing Machines 00900 Adhesives, Hot-Melt 04900 Pad Printers 01000 Adhesives, Silicone 05000 RFID Systems 01100 Adhesives, Urethane 05100 RFID Tags 01200 Adhesives, IR & UV Curable **AUTONOMOUS VEHICLE TECHNOLOGY** 01300 Adhesive Tapes, Conductive **Automated Systems and Services** 01400 Adhesive Tapes, Pressure Sensitive 05115 Sensors 01500 Adhesive Preforms **Electrification Systems and Services** 01600 Conformal Coatings 05125 Batteries 01700 Encapsulating and Potting Material 05130 Capacitors 01800 Formed-In-Place Gasket Material 05135 Fuel Cells Lubricants 05140 Motors 01830 Assembly Lubricants 05145 Power Electronics 01850 Insertion Aids or Lubricants Vehicle Systems and Services 01875 Machinery Lubricants 05155 Electrical 05160 Electronic 01900 Sealant Material 05165 Electrical & Electronic Semiconductors **ASSEMBLY HARDWARE and MACHINE COMPONENTS** 05170 Flectrical & Flectronic Sensors 02100 Bearings 05175 Materials 02200 Cabinets and Enclosures 05180 Manufacturing 02250 Castings and Stampings 05185 Powertrain/Propulsion 02300 Clamps, Manual and Powered 05190 Powertrain/Propulsion, Engines 02400 Couplings, Mechanical 05195 Powertrain/Propulsion, Transmissions 02500 Machine Bases, Tables and Platforms 05200 Test & Measurement 02600 Machine Mounts **BRAZING, SOLDERING and WELDING EQUIPMENT** 02700 **Modular Structural Framing Components** 05300 Brazing Systems 02750 Sensor Brackets 05350 Crimp Soldering 02800 Shock Absorbers, Mechanical and Gas 05400 Fume Extractors 05500 Soldering Irons and Controllers **AUTOMATED ASSEMBLY MACHINES & SYSTEMS** 03000 Assembly Machine Chassis **Soldering Machines** 05700 Soldering Machines, Hot Air **Assembly Machines** 05800 Soldering Machines, Hot Bar 03200 Assembly Machines, Carousel 05900 Soldering Machines, Microflame 03250 Assembly Machines, Continuous Motion 06000 Soldering Tips and Tip Cleaners 03300 Assembly Machines, In-Line 06100 Ultrasonic Welding Machines, Metal 03400 Assembly Machines, Non-synchronous (Power-and-Free) 06200 Ultrasonic Welding Machines, Plastic 03500 Assembly Machines, Rotary 06300 Ultrasonic Welding Machine Horns 03600 Assembly Machines, Walking Beam Transfer 03700 Assembly Machine Dial Plates Welders 03800

Flexible Assembly Systems

**Nutrunning Machines, Single- and Multiple-Spindle** 

04000 Screwdriving Machines, Single- and Multiple-Spindle

03900

07000 Welders, Microflame 07100 Welders, Spot 07200 Welders, Stud

06500 Welders, Friction

06600 Welders, Hot Plate

06700 Welders, Induction 06800 Welders, Plastic, Hot Air

06900 Welders, Laser

CLEANING EQUIPMENT AND SUPPLIES	12400 Fractional Horsepower Motors
Cleaning Machines	12500 Heat Shrink Tubing
07500 Cleaning Machines, Aqueous	12600 Printed Circuit Boards (Bare)
07600 Cleaning Machines, Plasma	12700 Pushbuttons and Switches
07700 Cleaning Machines, Solvent Bath	12800 Shielding Material (EMI and RFI)
07800 Cleaning Machines, Ultrasonic	12900 Signal Lights and Status Displays
07900 Cleaning Materials	13000 Solder Dam and Mask Material
	13100 Solder Wick
CONTRACT ASSEMBLY and ASSEMBLY-RELATED SERVICES	13200 Standoffs
08100 Contract Assembly and Manufacturing	13300 Static Control Material
08200 Contract Engineering Services	13400 Stencils and Squeegees for Screen Printing
08225 Contract Fastener Coating	13500 Strain Relief Devices
08250 Contract Inspection and Testing	13600 Uninterruptible Power Supplies
08300 Contract PCB Assembly	13700 Wire and Cable
08350 Contract R&D Services	13800 Wire and Cable Ties
08500 Contract Wire Harness Assembly	13900 Wire Wrap
08700 Rapid Prototyping Services	14000 Wire Marking Labels
08800 Training Services	
08850 Advanced Technical Training and Certifications	FASTENERS and PRECISION FORMED PARTS
	14200 Bolts
CONVEYORS and HANDLING SYSTEMS	14400 Fasteners, Tamper-Proof
09000 Automatic Guided Vehicles (AGVS)	14500 Fasteners, Torque-Limiting
09100 Automated Storage and Retrieval Systems (ASRS)	14600 Inserts
09200 Bins, Totes, Trays and Containers	14700 Nails
09300 Cable and Hose Carriers and Reels	14800 Nuts
09400 Carts	14900 Pins, Coiled Spring
Conveyors	15000 Pins, Solid
09600 Conveyors, Accumulating	15100 Precision Formed Parts
09700 Conveyors, Belt	15200 Quick-Operating Fasteners
09800 Conveyors, Carousel	15300 Retaining Rings
09900 Conveyors, Magnetic Belt	15400 Rivets, Blind
10000 Conveyors, Overhead	15500 Rivets, Self-Piercing
10100 Conveyors, Power-and-Free or Towline	15600 Rivets, Solid
10200 Conveyors, Roller	15700 Screws
10300 Conveyors, Vacuum	15800 Screw-Washer Assemblies (SEMS)
10350 Overhead Cranes and Lifting Devices	16100 Threaded Studs
10400 Returnable Packaging	16200 Washers
10500 Tray and Pallet Transfer Systems	16300 Weld Nuts and Studs
10600 Tray Stackers and De-stackers	FORMAING and DIVITING MARCHINES
10700 Lift Tables and Lift Assist Devices	FORMING and RIVETING MACHINES
10700 Elit Tubics und Elit Assist Devices	16500 Clinching and Staking Machines
DISPENSING and CURING EQUIPMENT	16600 Impact Riveting Machines
10900 Adhesive Cartridges	16700 Injected Metal Assembly Machines
11000 Adhesive Dispensers, Automatic	16800 Orbital Forming and Riveting Machines
11100 Adhesive Dispensers, Manual	16900 Radial Forming and Riveting Machines
11200 Adhesive Mixing and Metering Equipment	17000 Spin-Rolling Machines
11250 Adhesive Packaging Systems	INSPECTION EQUIPMENT: ACOUSTIC, OPTICAL and X-RAY
11300 Adhesive Tape Dispensers	17200 Acoustical Inspection Machines
11400 Dispensing Needles and Tips	17300 Automated Optical Inspection (AOI) Machines
11500 Dispensing Valves	17400 Magnifiers
11600 Encapsulating and Potting Equipment	17500 Microscopes
11700 IR & UV Curing Equipment	17600 Optical Comparators
11750 Lubricant Dispensing Equipment	17700 Optical Comparators  17700 Solder Paste Inspection Machines
11800 Solder Paste Dispensing Equipment	17800 X-Ray Inspection Machines
	17000 A-Nay Inspection Machines
ELECTRICAL, ELECTRONIC and FIBER OPTIC COMPONENTS &	MOTION CONTROL, POSITIONING and INDEXING EQUIPMENT
SUPPLIES	18000 Actuators, Linear
12000 Cable Assemblies and Cord Sets	18100 Actuators, Rotary
12100 Component Carrier Tape	18200 Ballscrews
12200 Connectors, Splices and Terminals	18300 Cam and Dial Indexers
12300 Electric Power Distribution Equipment	
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Counlings	2/100 Stancil Cleaning Machines
Couplings  18600 Couplings, Torque-Limiting	24100 Stencil Cleaning Machines 24200 Terminal and Connector Insertion Machines
18700 Couplings, Zero-Backlash	24300 Vapor Recovery Systems
	24400 Wave Soldering Machines
18800 Encoders, Linear 18900 Encoders, Rotary	24400 Wave soldering Machines
•	PNEUMATIC and HYDRAULIC EQUIPMENT & COMPONENTS
19000 Laser-Guided Positioning Devices 19100 Linear Motors	24600 Air Compressors
19200 Linear Nidtors	24700 Controls, Hydraulic
19300 Motion Control Systems	24800 Controls, Pneumatic
19350 Multi-axis Actuators	24850 Couplings, Hydraulic and Pneumatic
19400 Nano-positioning Devices and Systems	24900 Cylinders, Hydraulic
19500 Rotary Indexing Tables	25000 Cylinders, Pneumatic
19600 Servo Drives and Systems	25100 FRL Units
19700 Servo System Controllers	25200 Gaskets
19800 Stepper Motors and Controls	25300 Hose, Compressed Air
19900 X-Y Tables	25400 Hydraulic Pumps
19950 X-Y Positioning Stages	25500 Lubrication Equipment
25550 X 1 1 GOILLOIMING GUAGES	25600 Motors, Hydraulic
	25700 Motors, Pneumatic
PARTS FEEDERS and POSITIONING EQUIPMENT	25800 O-Rings and Seals
20100 Counting Scales	25900 Vacuum Pumps
20200 Guidance Devices for Manual Parts Picking	26000 Valves, Hydraulic and Pneumatic
20300 Part Counters	POWER and HAND TOOLS & ACCESSORIES
20400 Part Feeder Controls	26200 Angle Attachments for Power Tools
Part Feeders	26300 Drills, Pneumatic
20700 Part Feeders, Centrifugal	26400 Drills, Electric
20750 Part Feeders, Conveyor-Based	26500 Extensions
20800 Part Feeders, Elevator	26600 Heat Guns
20900 Part Feeders, Hopper	26700 Impact Wrenches, Pneumatic
21000 Part Feeders, Magazine	26800 Impact Wrenches, Electric
21050 Part Feeders, Robotic	26850 Material Handling Equipment
21100 Part Feeders, Vibratory Bowl	26900 Nut Drivers, Manual
21200 Part Feeders, Vibratory Linear	27000 Nutrunners, Electric
21300 Part Positioners and Manipulators	27100 Nutrunners, Pneumatic
21400 Part Tracks and Escapements	27300 Portable Rivet-Setting Guns and Tooling
21500 Parts Trays and Pallets	27400 Pulse Tools
21600 Pick-and-Place Machines	27500 Screwdriving Bits
21700 Screw Feeders	Screwdrivers
21800 Sorting and Separating Machines	27700 Screwdrivers, Cordless Electric
21900 Spring Feeders	27800 Screwdrivers, Electric
22000 Vacuum Part Pickups and Suction Cups	27900 Screwdrivers, Manual
DCD ACCEMBLY MACHINES FOLLIDMENT & TOOLS	28000 Screwdrivers, Pneumatic
PCB ASSEMBLY MACHINES, EQUIPMENT & TOOLS 22200 Component Placement Machines, Surface Mount	28100 Sockets for Power Tools
22300 Component Insertion Machines, Through-Hole	28200 Stud Driving Tools, Powder Actuated
22400 Component Taping Machines	28300 Tool Balancers
22500 Lead Forming and Clinching Machines	28400 Tool Boxes and Chests
22600 Conformal Coating Application Machines	28500 Torque-Absorbing Arms for Power Tools
22700 De-soldering Stations	28600 Torque Wrenches
22800 Flux Application Machines	·
22900 Hand Tools for Electronics Assembly	PRESSES, SEAL and O-RING INSTALLATION MACHINES
23000 Odd-Form Parts Insertion and Placement Machines	28800 Eyeletting Machines
23100 PCB Carriers	28900 Insert Drivers, Heat and Ultrasonic
23200 PCB Drilling Machines	29000 Pin Insertion Machines
23300 PCB De-paneling Machines	<u>Presses</u>
23400 PCB Handling and Feeding Machines	29200 Presses, Electric
23500 PCB Rework and Repair Equipment	29300 Presses, Electromechanical
23600 Reflow Ovens	29400 Presses, Hydraulic
23700 Screen and Stencil Printing Machines	29500 Presses, Hydropneumatic
23800 Solder Ball Placement Machines	29600 Presses, Manual
24000 Static Control Devices	29700 Presses, Pneumatic
	29900 Seal and O-Ring Installation Machines

# PROGRAMMABLE CONTROLLERS, SOFTWARE, MACHINE CONTROLS and DATA ACQUISITION DEVICES

31000 Computer-Guided Assembly Aids and Systems

31100 Data Acquisition Devices

31125 Design software (CAD, CAM, DFMA)

31150 Documentation Software

31200 Programmable Controllers

31300 Simulation Software

31400 Machine Controls

31425 MES & ERP Software

31450 Quality software (SPC, data analytics)

#### **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 & FLUX, BRAZING ALLOYS & 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

### **VISION SYSTEMS, SENSORS and GUARDING DEVICES**

36400 Cameras

36500 Guarding Devices, Electronic

36250 X-Ray Fluorescence Analyzers

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

37200 Torque sensors

37300 Two-Hand Safety Controls

### **WIRE PROCESSING MACHINES & 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 & 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

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