

# appliance DESIGN

## 2010 BUYERS GUIDE – PRODUCT LISTING BOOKLET

Check all categories carefully before making your selection. Please retain this list for your files.

PLEASE NOTE: The product listings for the 2010 edition have been reorganized. They also have new code numbers. Similar and related products are now listed in groups under **boldface** headings.

### DESIGN, ENGINEERING and PROTOTYPING

#### CONTRACT MANUFACTURING:

- 00300 Components
- 00400 Electronics
- 00500 Finished Products
- 00600 Subassemblies
- 00700 DESIGN and DEVELOPMENT SERVICES
- 00800 ENGINEERING CONSULTING and SERVICES
- 00900 HUMAN FACTORS CONSULTING
- 01000 INDUSTRIAL DESIGN
- 01100 MARKET RESEARCH
- 01200 OUTSOURCING SERVICES
- PROTOTYPING:**
- 01400 Equipment
- 01500 Services
- 01600 Materials
- 01700 SOUND QUALITY CONSULTING
- 01800 OTHER

### ELECTRICAL and ELECTRONIC COMPONENTS

- 02000 AUDIBLE INDICATORS, BUZZERS and ALARMS
- 02100 BACKLIGHTING COMPONENTS
- BATTERIES:**
- 02300 Disposable
- 02400 Rechargeable
- 02500 BATTERY CHARGERS and SYSTEMS
- 02600 CAPACITORS
- 02700 CIRCUIT PROTECTION DEVICES and SURGE ARRESTORS
- CONNECTORS:**
- 02900 Connectors and Terminations
- 03000 Termination Equipment
- 03100 CONTACTORS

#### CONTROLS:

- 03300 Electromechanical
- 03400 Electronic
- 03500 Other
- 03600 CORD SETS, CORDAGE, PLUGS, STRAIN RELIEFS and OTHER CORD PARTS
- DISPLAY DEVICES:**
- 03800 CRT
- 03900 Electrophoretic
- 04000 LCD
- 04100 OLED
- 04200 Projection
- 04300 Touch Screens
- 04400 Vacuum Fluorescent
- 04500 Other
- 04600 EMI/RFI FILTERS, SUPPRESSION and SHIELDING
- 04700 ENCODERS
- 04800 FANS and BLOWERS
- 04900 FLEXIBLE CIRCUITS
- 05000 HEAT SINKS

#### HEATING ELEMENTS:

- 05200 Ceramic
- 05300 Flexible Wire
- 05400 Foil
- 05500 Glass
- 05600 Graphite
- 05700 Induction
- 05800 Thick film
- 05900 Thin film
- 06000 Tubular
- 06100 Other
- 06200 INDICATORS, LEDs and LAMPS
- 06300 KEYBOARDS
- 06400 MAGNETRONS
- 06500 MICROCONTROLLERS, MICROPROCESSORS, ASICs, DSPs, DRIVERS, POWER ICs, RECTIFIERS, ANALOG-DIGITAL CONVERTERS, and OTHER ICs
- MOTORS:**
- 06700 AC
- 06800 DC

- 06900 Electronically controlled
- 07000 Piezo
- 07100 Other
- 07200 MOTOR PARTS
- 07300 OSCILLATORS and CRYSTALS
- 07400 POTENTIOMETERS
- 07500 POWER CONVERSION and MANAGEMENT COMPONENTS
- 07600 POWER SUPPLIES
- 07700 PRINTED CIRCUIT BOARDS and MATERIALS
- RELAYS:**
- 07900 Electromechanical
- 08000 Magnetic
- 08100 Reed
- 08200 Solid-state
- 08300 Other
- 08400 RESISTORS
- SENSORS:**
- 08600 Accelerometers, Angular, Tilt, and Other Inertial
- 08700 Capacitive, Current, Voltage, and Other Electrical
- 08800 Force
- 08900 Gas
- 09000 Humidity and Moisture
- 09100 Infrared
- 09200 Liquid Level
- 09300 Optical and Photosensors
- 09400 Motion Detectors
- 09500 Pressure
- 09600 Proximity and Speed
- 09700 Temperature
- 09800 Other
- 09900 SOLENOIDS
- SWITCHES:**
- 10100 Key
- 10200 Limit
- 10300 Membrane
- 10400 Pushbutton, Rocker, Slide, and Toggle
- 10500 Membrane
- 10600 Pressure Switches
- 10700 Reed Switches

10800 Rotary and Thumbwheel  
10900 Other  
11000 TERMINALS, BLOCKS and  
BOARDS  
11100 THERMAL CUT-OFFS and  
PROTECTORS  
11200 THERMOELECTRIC  
COOLING/HEATING DEVICES  
11300 THERMOMETERS  
11400 THERMOSTATS,  
THERMOCOUPLES, and  
THERMISTORS  
11500 TIMERS and CLOCKS  
11600 TRANSFORMERS  
11700 TRANSISTORS, THYRISTORS,  
TRIACS and OTHER  
SEMICONDUCTOR  
SWITCHING DEVICES  
11800 TUBES, ELECTRON  
11900 WIRE, CABLE and INSULATION  
12000 WIRE HARNESES  
12100 WIRE MARKING  
12200 WIIRE STRIPPING and  
TERMINATING EQUIPMENT  
**WIRE WRAPPING:**  
12400 Equipment  
12500 Ties and materials  
12600 OTHER

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### **FASTENING and JOINING COMPONENTS and EQUIPMENT**

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12800 ADHESIVES, SEALANTS, and  
ADHESIVE TAPES  
12900 ASSEMBLY TOOLS and  
EQUIPMENT  
**BRAZING:**  
13100 Equipment  
13200 Materials  
13300 Services  
13400 CLINCHING and CRIMPING  
EQUIPMENT  
**FASTENERS:**  
13600 Bolts and Nuts  
13700 Clips  
13800 Hook and Loop  
13900 Inserts  
14000 Pins  
14100 Rings  
14200 Rivets  
14300 Screws  
14400 Snap  
14500 Staples  
14600 Ties  
14700 Washers  
14800 Other  
14900 GROMMETS  
15000 HEAT STAKING EQUIPMENT  
15100 LASER WELDING EQUIPMENT  
15200 RIVET, RADIAL, and ORBITAL  
FORMING MACHINES  
**SOLDERING:**  
15400 Equipment  
15500 Materials  
15600 Preforms  
15700 Services  
15800 ULTRASONIC WELDING

### **WELDING:**

16000 Equipment  
16100 Materials  
16200 Services  
16300 OTHER

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### **FLUID, GAS, and REFRIGERATION COMPONENTS**

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16500 AIR/VACUUM PUMPS and  
COMPONENTS  
16600 FITTINGS  
16700 FLOATS  
**GASKETS:**  
16900 Gasket, Seals, and O-Rings  
17000 Gasketing Materials  
17100 Gasketing Equipment, Form in  
Place  
**GAS COMBUSTION  
COMPONENTS:**  
17300 Burners  
17400 Flame Arrestors  
17500 Flame Sensors  
17600 Igniters and Ignition Systems  
17700 Manifolds  
17800 Pilots  
17900 Pressure Regulators  
18000 Valves  
18050 Other  
18100 OIL COMBUSTION  
COMPONENTS  
18200 HEAT EXCHANGERS  
18300 HOSE and FITTINGS  
18400 PUMPS, FLUID  
18500 REFRIGERANTS and BLOWING  
AGENTS  
18600 REFRIGERANT CHARGING  
18700 REFRIGERANT  
COMPRESSORS  
18800 REFRIGERANT LEAK  
DETECTORS  
18900 TUBING and FITTINGS  
**VALVES:**  
19100 Fluid  
19200 Gas  
19300 Refrigerant  
19400 OTHER

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### **MATERIALS, FORMS, and FABRICATION SERVICES**

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19600 ABRASIVES  
19700 ANODIZING SERVICES  
19800 BAR CODING-AUTO ID  
EQUIPMENT/SYSTEMS  
19900 BIMETALS  
20000 CABINETS, CASES &  
ENCLOSURES  
20100 CAPS, PLUGS AND CLOSURES  
20200 CARBON  
20300 CERAMIC MATERIALS and  
PRODUCTS  
20400 CHARCOAL, ACTIVATED  
**COATINGS and FINISHES:**  
20600 Conductive  
20700 Liquid

20800 Porcelain  
20900 Powder  
21000 Pretreatment  
21100 Services  
21200 Other  
21300 COMPOSITES  
21400 DAMPING and ISOLATION  
MATERIALS (SOUND and  
VIBRATION)  
**DECORATION:**  
21600 Decals  
21700 Films  
21800 Equipment  
21900 Graphic Overlays  
22000 Graphics Printing  
22100 Materials  
22200 Services  
22300 Trim  
22400 Other  
**DIE CASTING:**  
22600 Materials  
22700 Equipment  
22800 Parts  
22900 Services  
23000 DIE CUT PARTS  
**DISPENSING EQUIPMENT:**  
23200 Adhesives and Sealants  
23300 Foam Insulation  
23400 Lubricants  
23500 Other  
23600 ELECTROPLATING,  
ELECTROLESS PLATING,  
SPUTTERING, and PVD  
SERVICES  
23700 ELASTOMERS and RUBBER  
23800 EXPANDED METAL  
**EXTRUSIONS:**  
24000 Metal  
24100 Plastic  
24200 Rubber  
24300 FILTERS and FILTER MEDIA  
24400 FORGINGS  
24500 FRICTION MATERIALS  
**GASKETS and SEALS:**  
24700 Equipment  
24800 Materials  
24900 Formed parts  
25000 Services  
25100 GLASS MATERIALS,  
PRODUCTS, and ASSEMBLIES  
25200 GLIDES  
25300 GRAPHITE PRODUCTS  
25400 HEAT SHRINKABLE FORMS  
25500 HONEYCOMB MATERIALS  
25600 HOT STAMPING MACHINES  
**INSULATION MATERIALS:**  
25800 Acoustic  
25900 Electrical  
26000 Thermal  
26100 Other  
26200 LABELS and LABELING  
EQUIPMENT  
26300 LAMINATED MATERIALS  
26400 LASERS  
26500 LASER MARKING EQUIPMENT  
26600 LUBRICANTS  
26700 MAGNETS and MAGNETIC  
MATERIALS

26800 MARKING MACHINES and MATERIALS  
26900 METAL ASSEMBLY FABRICATORS  
27000 METAL INJECTION MOLDING SERVICES

**METALS:**

27200 Alloys  
27300 Aluminum  
27400 Brass  
27500 Bronze  
27600 Copper  
27700 Magnesium  
27800 Nickel  
27900 Iron  
28000 Patterned and Embossed  
28100 Precious  
28200 Prefinished  
28300 Tin  
28400 Titanium  
28500 Zinc  
28600 Other

**METAL POWDERS:**

28800 Equipment  
28900 Materials  
29000 Parts  
29100 Services  
29200 MICA  
29300 NAMEPLATES  
29400 PACKAGING MATERIALS  
29500 PERFORATED MATERIALS  
29600 PHOTOETCHED PARTS  
29700 PLASTIC FABRICATED PARTS  
29800 PLASTIC FOAM  
29900 PLASTIC STRUCTURAL SHAPES (Film, Rod, Sheet, Tubing)

**PLASTICS:**

30100 Additives, Colorants, Flame Retardants, and Reinforcements  
30200 Compounds, Specialty and Custom  
30300 Thermoplastics  
30400 Thermoset Plastics  
30500 Other

**PLASTICS FORMING:**

30700 Blow Molding  
30800 Compression Molding  
30900 Extruding  
31000 Injection Molding  
31100 Rotomolding  
31200 Thermoforming  
31300 Thermoset Molding  
31400 Other  
31500 PORCELAIN ENAMELING SERVICES  
31600 ROLL FORMING SERVICES  
31700 SILICONES  
31800 STAMPINGS and OTHER METALFORMED PARTS and SERVICES

**STEEL:**

32000 Aluminized  
32100 Carbon  
32200 Decarburized  
32300 Electrical (Silicon)  
32400 Galvanized  
32500 Enameling

32600 Machining  
32700 Prefinished  
32800 Service Centers  
32900 Spring  
33000 Stainless  
33100 Other  
33200 OTHER

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**MECHANICAL COMPONENTS**

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**ACTUATORS:**

33500 Electric  
33600 Hydraulic  
33700 Mechanical  
33800 Pneumatic  
33900 Other  
34000 BEARINGS, BUSHINGS, and SLEEVES  
34100 BELLOWS  
34200 BELTS  
34300 BUMPERS and PADS  
34400 CASTERS, WHEELS, LEGS, and LEVELERS

**CLAMPS:**

34600 Hose and Tubing  
34700 Wire and Cable  
34800 FLOOR CARE BRUSHES and BRUSH ASSEMBLIES  
34900 GEARS and PINIONS  
35000 HARDWARE, HANDLES, LOCKS and ASSEMBLIES  
35100 LOCKS and ASSEMBLIES  
35200 MECHANICAL LINKAGES and COUPLINGS  
35300 PULLEYS  
35400 SHAFTS and SPLINES  
35500 SPEED REDUCERS  
35600 SPRINGS  
35700 SPROCKETS  
35800 SWIVELS  
35900 TRANSMISSIONS and DRIVES  
36000 OTHER

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**SOFTWARE and COMPUTERS**

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36200 COMPUTERS/HARDWARE and PERIPHERALS

**SOFTWARE:**

36400 CAD  
36500 CAE  
36600 CFD  
36700 Electromagnetic Simulation  
36800 Materials Selection  
36900 Molding Simulation  
37000 Multiphysics  
37100 Product Lifecycle Management  
37200 Supply Chain Management  
37300 Thermal Modeling  
37400 Other

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**TESTING, CERTIFICATION and SERVICES**

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**TESTING and CERTIFICATION LABORATORIES and SERVICES:**

37700 Certification and Standards  
37800 EMI/RFI

37900 Electrical/Electronic  
38000 Human Factors/Ergonomics  
38100 Materials  
38200 Mechanical and Engineering  
38300 Performance and Life Cycle  
38400 Safety and Product Liability  
38500 Sound Quality  
38600 Other

**TESTING and MEASUREMENT EQUIPMENT:**

38800 Dimensional and Shape  
38900 EMI/RFI  
39000 Environmental  
39100 Electrical/Electronic  
39200 Leak Detectors  
39300 Materials  
39400 Sound  
39500 Speed and Torque  
39600 Temperature  
39700 Vibration  
39800 Other Testing & Measurement Equipment  
39900 OTHER