



A Leading Global Manufacturer  
of Electronic Instruments and  
Electromechanical Devices

## The Markets We Serve The Products We Make

- ◆ Aerospace and Defense
- ◆ Analytical and Test Instruments
- ◆ Food, Medical, Pharmaceutical,  
Sanitary, and Semiconductor
- ◆ Industrial Products and Materials
- ◆ Motors and Air-Moving Products
- ◆ OEM Products, Heavy Vehicle, and Mass Transit
- ◆ Process Instruments
- ◆ Power Generation, Transmission  
and Distribution, and Nuclear

# AMETEK At A Glance

(see page 12 for full contact information)

## AMETEK ADVANCED MEASUREMENT TECHNOLOGY

ORTEC – [www.ortec-online.com](http://www.ortec-online.com)  
PRINCETON APPLIED RESEARCH – [www.princetonappliedresearch.com](http://www.princetonappliedresearch.com)  
SIGNAL RECOVERY – [www.signalrecovery.com](http://www.signalrecovery.com)  
SOLARTRON ANALYTICAL – [www.solartronanalytical.com](http://www.solartronanalytical.com)

## AMETEK AEROSPACE & DEFENSE

HEADQUARTERS – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
ADVANCED INDUSTRIES – [www.advancedindustries.com](http://www.advancedindustries.com)  
AIRCONTROL TECHNOLOGIES – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
AIRSCREW – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
AMERON AGPS/MASS SYSTEMS – [www.ameronglobal.com](http://www.ameronglobal.com)  
HUGHES-TREITLER – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
MUIRHEAD AEROSPACE – [www.muirheadaerodefense.com](http://www.muirheadaerodefense.com)  
POWER & DATA SYSTEMS – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
ROTRON – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
SENSORS & FLUID MANAGEMENT SYSTEMS – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)  
TRAXSYS – [www.traxsys.com](http://www.traxsys.com)  
MAINTENANCE, REPAIR, OVERHAUL (MRO)  
AEM - [www.aem.co.uk](http://www.aem.co.uk)  
AEROMEDIC - [www.aeromedicgroup.com](http://www.aeromedicgroup.com)  
AMERON GLOBAL PRODUCT SUPPORT - [www.ameronglobal.com](http://www.ameronglobal.com)  
ANTAVIA - [www.antavia.fr](http://www.antavia.fr)  
B&S AIRCRAFT PARTS & ACCESSORIES - [www.bsaircraft.com](http://www.bsaircraft.com)  
DRAKE AIR - [www.drakeair.com](http://www.drakeair.com)  
HIGH STANDARD AVIATION - [www.highstandardaviation.com](http://www.highstandardaviation.com)  
MUIRHEAD AVIONICS - [www.muirheadavionics.com](http://www.muirheadavionics.com)  
SOUTHERN AEROPARTS - [www.southernaeroparts.com](http://www.southernaeroparts.com)

## AMETEK CHEMICAL PRODUCTS

AMETEK FLUOROPOLYMER PRODUCTS – [www.ametekfpp.com](http://www.ametekfpp.com)  
WESTCHESTER PLASTICS – [www.ametek-westchesterplas.com](http://www.ametek-westchesterplas.com)

## AMETEK ENGINEERED MATERIALS, INTERCONNECTS & PACKAGING

AEgis – [www.hccaegis.com](http://www.hccaegis.com)  
GENERAL CERAMICS – [www.generalceramics.com](http://www.generalceramics.com)  
GLASSEAL PRODUCTS – [www.glasseal.com](http://www.glasseal.com)  
HAMILTON PRECISION METALS – [www.hpmetals.com](http://www.hpmetals.com)  
HCC INDUSTRIES – [www.hccindustries.com](http://www.hccindustries.com)  
HERMETIC SEAL – [www.hccindustries.com](http://www.hccindustries.com)  
READING ALLOYS – [www.reading-alloys.com](http://www.reading-alloys.com)  
SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)  
SEALTRON – [www.sealtron.com](http://www.sealtron.com)  
SPECIALTY METAL PRODUCTS – [www.ametekmetals.com](http://www.ametekmetals.com)

## AMETEK FLOORCARE & SPECIALTY MOTORS

FLOORCARE AND SPECIALTY MOTORS – [www.ametekfsm.com](http://www.ametekfsm.com)  
PRESTOLITE MOTORS – [www.ametekfsm.com](http://www.ametekfsm.com)  
ITALIA S.r.l. (Ciaramella) – [www.ametek.it](http://www.ametek.it)  
ITALIA S.r.l. (Vacuum Products) – [www.ametek.it](http://www.ametek.it)  
AMETEK do Brasil Ltda – [www.ametek.com.br](http://www.ametek.com.br)

## AMETEK INSTRUMENTATION & SPECIALTY CONTROLS

NATIONAL CONTROLS CORPORATION (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)  
VEHICULAR INSTRUMENTATION SYSTEMS (VIS) – [www.ametekvis.com](http://www.ametekvis.com)

## AMETEK MATERIALS ANALYSIS

CAMECA – [www.cameca.com](http://www.cameca.com)  
EDAX – [www.edax.com](http://www.edax.com)  
SPECTRO ANALYTICAL INSTRUMENTS – [www.spectro.com](http://www.spectro.com)  
VISION RESEARCH – [www.visionresearch.com](http://www.visionresearch.com)

## AMETEK MEASUREMENT & CALIBRATION TECHNOLOGIES

### SENSOR TECHNOLOGIES

AUTOMATION & PROCESS TECHNOLOGIES – [www.ametekapt.com](http://www.ametekapt.com)  
DREXELBROOK – [www.drexelbrook.com](http://www.drexelbrook.com)  
HUNTER SPRING PRODUCTS – [www.ametekhunterspring.com](http://www.ametekhunterspring.com)  
PMT PRODUCTS – [www.ametekpmt.com](http://www.ametekpmt.com)  
U.S. GAUGE – [www.ametekusg.com](http://www.ametekusg.com)

### MATERIAL TEST

CHATILLON FORCE MEASUREMENT PRODUCTS – [www.chatillon.com](http://www.chatillon.com)  
CHATILLON WEIGHING SCALES – [www.chatillon.com](http://www.chatillon.com)  
LLOYD INSTRUMENTS – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)  
NEWAGE TESTING INSTRUMENTS – [www.hardnesstesters.com](http://www.hardnesstesters.com)

### AMETEK CALIBRATION INSTRUMENTS

AMETEK DENMARK A/S (JOFRA Instruments and FP Temperature Sensors) – [www.ametekcalibration.com](http://www.ametekcalibration.com)  
AMETEK CALIBRATION INSTRUMENTS – [www.ametekcalibration.com](http://www.ametekcalibration.com)

## AMETEK POWER SYSTEMS & INSTRUMENTS

GULTON STATHAM PRODUCTS – [www.ametekpower.com](http://www.ametekpower.com)  
PANALARM – [www.ametekpower.com](http://www.ametekpower.com)  
POWER INSTRUMENTS – [www.ametekpower.com](http://www.ametekpower.com)  
PRESTOLITE POWER – [www.prestolitepower.com](http://www.prestolitepower.com)  
PRESTOLITE SWITCH – [www.powerandswitchproducts.com](http://www.powerandswitchproducts.com)  
PROGRAMMABLE POWER – [www.programmablepower.com](http://www.programmablepower.com)  
PULSAR PRODUCTS – [www.ametekpower.com](http://www.ametekpower.com)  
ROCHESTER INSTRUMENT SYSTEMS (RiS), SCIENTIFIC COLUMBUS – [www.ametekpower.com](http://www.ametekpower.com)  
SOLIDSTATE CONTROLS – [www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com)

## AMETEK PROCESS & ANALYTICAL INSTRUMENTS

CHANDLER ENGINEERING (Drilling & Completion Products) – [www.chandlerengineering.com](http://www.chandlerengineering.com)  
GRABNER INSTRUMENTS – [www.grabner-instruments.com](http://www.grabner-instruments.com)  
AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)  
PETROLAB COMPANY – [www.petrolab.com](http://www.petrolab.com)  
PROCESS INSTRUMENTS – [www.ametekpi.com](http://www.ametekpi.com)  
SOLARTRON ISA – [www.solartronisa.com](http://www.solartronisa.com)

## AMETEK TECHNICAL & INDUSTRIAL PRODUCTS

TECHNICAL & INDUSTRIAL PRODUCTS – [www.ametektip.com](http://www.ametektip.com)

## AMETEK ULTRA PRECISION TECHNOLOGY

PRECITECH – [www.precitech.com](http://www.precitech.com)  
SOLARTRON METROLOGY – [www.solartronmetrology.com](http://www.solartronmetrology.com)  
TAYLOR HOBSON – [www.taylor-hobson.com](http://www.taylor-hobson.com)

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## ◆ AEROSPACE AND DEFENSE ◆

### Actuators

Muirhead Aerospace electromechanical actuators for primary, secondary and ancillary air, ground and sea applications

### Air Data Systems

Air data systems, including total air probes, angle of attack sensors, pitot/static probes, total temperature probes and air data electronics

### Avionics and Black Boxes

Cockpit instruments, data acquisition units, engine interface units, bus protocol converters, RVSM altimeters, engine monitoring systems, trackballs

### Engine and APU Lube Systems

Temperature sensors, pressure transducers, electrical harnesses, switches, LVDT position transducers, oil level sensors, reservoirs and tanks

### Engine Sensor Suites

Temperature sensors, pressure transducers, speed sensors, fuel flow transmitters, engine harnesses, switches, piezoelectric accelerometers, LVDT position transducers, oil level sensors, multi-function sensors, reservoirs and tanks, filters, permanent magnet alternators, pick-offs, resolvers

### Environmental Control Systems

Aircontrol Technologies liquid suit temperature control systems, environmental control systems (air conditioning and NBC filtration) for military vehicles, liquid temperature control systems, including military vehicle engine cooling and rail traction equipment cooling, NBC filtration systems, including both regenerative and charcoal, temperature sensors, pressure transducers, electrical harnesses, switches

### Fans / Motors / Heaters

Aircscrew and ROTRON AC and DC brushless, mixed flow, tubeaxial and vaneaxial fans, high-pressure blowers, AC and DC brushless motors and drive systems, build-to-print and custom subassemblies, electronic and fault sensing devices, electric heaters, switches, sensors

### Fuel Systems

Complete fuel systems including industry-leading active capacitance fuel gauging systems, pumps, valves, pressure transducers, temperature sensors, flow meters, fuel system controllers and accessories

### Heat Exchangers

Hughes-Treitler heat exchangers, coldplates, condensers, evaporators, and other heat transfer products

### Hydraulic Systems

Temperature sensors, pressure transducers, system harnesses, pressure switches, level sensors, level switches, signal conditioners and controls, hydraulic filters, reservoirs

### Launch Vehicles and Satellites

Pressure transducers and acoustic sensors

### Maintenance, Repair, Overhaul (MRO)

24-hour worldwide Aircraft On Ground and MRO provider with authorized global service centers. Capabilities include ducting, electromechanical, electrical, fire suppression systems/components, fuel systems, heat transfer, hydraulics, oxygen systems/components, pneumatics, starter/generators, and safety equipment. Platforms include business jets, regional aircraft, commercial transport, helicopters, military aircraft/land vehicles and ocean vessels.

*(See page 12 for additional capabilities/services for each MRO business)*

### Potable Water / Waste Systems

Temperature sensors, pressure transducers, system harnesses, switches, level sensors, signal conditioners and controls, tanks

### Power Generation and Distribution

AMPHION power distribution units, starter generators, generator control units, primary and secondary power distribution, solid state power controllers and relays, remote control circuit breakers, arc fault protection, brushless motors, pump motors, actuators

### Precision Motors

Muirhead Aerospace AC, DC brushed and brushless motors, torque motors, limited angle torque motors, variable reluctance motors, stepper motors, servo motors, gearboxes, and drive systems, build-to-print and custom subassemblies.

### Sensors

Muirhead Aerospace analog RVDT's, synchros, resolvers, variable reluctance resolvers, digital optical encoders, absolute and incremental.

*AMETEK Aerospace & Defense – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

### AC/DC Programmable Power Supplies

Rackmount and benchtop programmable DC power supplies, AC power sources, frequency converters, current sources, AC/DC loads, CE compliance test systems, modular AC/DC power systems and powerful programming software

*AMETEK Programmable Power – [www.programmablepower.com](http://www.programmablepower.com)*

### Fire Suppression and Components

Pressurized gas systems, fire extinguishers, and pneumatic stored energy systems for gear blow down, door actuation, missile guidance and seeker cooling tanks, and associated sub components. Electronic and mechanical temperature compensated pressure switches, direct reading pressure gauges, switch gauges, pressure relief devices, and pyrotechnic cartridges.

*AMETEK AMERON Mass Systems – [www.ameronglobal.com](http://www.ameronglobal.com)*

### Fuel and Oil Analysis Equipment

Petroleum testing instruments for the analysis of diesel, gasoline, biofuels, and lubricants. Mobile fuel analysis labs. Properties measured include vapor pressure, flash point, viscosity, composition, octane, cetane, distillation properties, color, biofuel content, sulfur content, water content, cold flow behavior

*AMETEK Grabner Instruments – [www.grabner-instruments.com](http://www.grabner-instruments.com)*

*AMETEK Petrolab Company – [www.petrolab.com](http://www.petrolab.com)*

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

### Fully Dense Metal Components

Bearings made from powdered metal for heavy-equipment applications, oil and gas well drilling, aerospace; custom bearings made from tube and stock bars

*AMETEK Specialty Metal Products – [www.ametekmetals.com](http://www.ametekmetals.com)*

### Hardness Testers

Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD.

*AMETEK Newage Testing Instruments – [www.hardnesstesters.com](http://www.hardnesstesters.com)*

### Hermetic Connectors / Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

*AMETEK HCC Industries – [www.hccindustries.com](http://www.hccindustries.com)*

*AMETEK SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)*

### High-Speed Imaging

High-speed digital imaging systems used in applications including defense, automotive, engineering, science, medical research, industrial manufacturing and packaging, sports and entertainment, and digital cinematography for television and movie production

*AMETEK Vision Research – [www.visionresearch.com](http://www.visionresearch.com)*



## Homeland Security

Portable nuclide identifiers, advanced high-purity germanium portal monitors, mobile spectroscopic search systems, chemical weapons analysis systems, systems for support of comprehensive test ban treaties, and nuclear safeguards

*AMETEK ORTEC – [www.ortec-online.com](http://www.ortec-online.com)*

## Hydraulics and Pneumatics

Linear displacement transducers, pressure gauges and transducers

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)  
AMETEK U.S. GAUGE – [www.ametekusg.com](http://www.ametekusg.com)*

## Materials Analysis

Energy Dispersive Spectrometry (EDS), Electron Backscatter Diffraction and Wavelength Dispersive Spectrometry (WDS) for Microanalysis, Micro X-ray Fluorescence, XRF, and Inductively Coupled Plasma (ICP) spectrometers, metal analyzers, Electrochemical Impedance spectrometers (EIS); Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA) and Tomographic Atom Probe (TAP)

*AMETEK CAMECA – [www.cameca.com](http://www.cameca.com)  
AMETEK EDAX – [www.edax.com](http://www.edax.com)  
AMETEK Solartron Analytical – [www.solartronanalytical.com](http://www.solartronanalytical.com)  
AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

## Material Test Machines

Material test machines (up to 300kN, 674, 431lb) and data analysis software for tensile, compression, friction and flexural testing of materials, components and finished assemblies. Test accessories include extensometers, grips, load cells, thermal chambers and furnaces for elevated- and low-temperature testing

*AMETEK LLOYD INSTRUMENTS – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)*

## Specialty Metal Alloys

Specialty titanium master alloys for turbine fan blades

*AMETEK Reading Alloys – [www.reading-alloys.com](http://www.reading-alloys.com)*

## Surface, Form, Roundness, Gauging and Alignment Products

For roughness, surface finish, 3D profiling, roundness, runout, cylindricity, flatness, squareness, parallelism, and straightness measurement; precision diamond turning and machining systems for optics, optical molds and precision mechanical components

*AMETEK Precitech – [www.precitech.com](http://www.precitech.com)  
AMETEK Solartron Metrology – [www.solartronmetrology.com](http://www.solartronmetrology.com)  
AMETEK Taylor Hobson – [www.taylor-hobson.com](http://www.taylor-hobson.com)*

## Turbine Blade Temperature Monitoring

Non-contact thermometers, pyrometers, data loggers and software

*AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)*

## ◆ ANALYTICAL AND TEST INSTRUMENTS ◆

### AC/DC Programmable Power Sources

Rackmount and benchtop programmable DC power supplies, AC power sources, frequency converters, current sources, AC/DC loads, CE compliance test systems, modular AC/DC power systems and powerful programming software

*AMETEK Programmable Power – [www.programmablepower.com](http://www.programmablepower.com)*

### Electrochemistry

Potentiostats, multichannel potentiostats, galvanostats, surface science imaging, analysis software, accessories

*AMETEK Princeton Applied Research – [www.princetonappliedresearch.com](http://www.princetonappliedresearch.com)  
AMETEK Solartron Analytical – [www.solartronanalytical.com](http://www.solartronanalytical.com)*

## Hardness Testers

Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD; penetrometers.

*AMETEK Newage Testing Instruments – [www.hardnesstesters.com](http://www.hardnesstesters.com)  
AMETEK Petrolab Company – [www.petrolab.com](http://www.petrolab.com)*

## Hermetic Connectors / Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

*AMETEK HCC Industries – [www.hccindustries.com](http://www.hccindustries.com)  
AMETEK SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)*

## Design, Calibration, and Troubleshooting of High-Speed Equipment

High-speed digital imaging systems used in applications including defense, automotive, engineering, science, medical research, industrial manufacturing and packaging, sports and entertainment, and digital cinematography for television and movie production

*AMETEK Vision Research -- [www.visionresearch.com](http://www.visionresearch.com)*

## Materials Analysis

Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA), Low-energy Electron induced X-ray Emission Spectrometry (LEXES), and Tomographic Atom Probe (TAP)

*AMETEK CAMECA – [www.cameca.com](http://www.cameca.com)*

XRF analyzers, X-ray Microanalysis and EBSD for electron microscope systems

*AMETEK EDAX – [www.edax.com](http://www.edax.com)*

EIS spectrometers, frequency response analyzers, potentiostats, battery test equipment, servo control products

*AMETEK Solartron Analytical – [www.solartronanalytical.com](http://www.solartronanalytical.com)*

Elemental analysis, XRF and ICP spectrometers, metal analyzers

*AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

## Nuclear Instruments

Germanium gamma-ray detectors, both LN<sub>2</sub> cooled and electrically cooled, ion-implanted silicon charged particle detectors, NIM-modular pulse processing electronics, multichannel analyzers, spectroscopy software, instruments and systems for Homeland Security, in-situ waste analysis, chemical weapons analysis, nuclear safeguards, and physics research

*AMETEK ORTEC – [www.ortec-online.com](http://www.ortec-online.com)*

Nuclear qualified displays and bargraphs

*AMETEK Vehicular Instrumentation Systems – [www.ametekvis.com](http://www.ametekvis.com)*

## Particle Image Velocimetry Analysis of Motion in Fluids and Gases

High-speed digital imaging systems used in applications including defense, automotive, engineering, science, medical research, industrial manufacturing and packaging, sports and entertainment, and digital cinematography for television and movie production

*AMETEK Vision Research – [www.visionresearch.com](http://www.visionresearch.com)*

## Process Analyzers

Moisture analyzers, hydrocarbon dew point testers, on-line UV-NIR photometers and spectrophotometers, gas chromatographs, quadrupole mass spectrometers/residual gas analyzers, process mass spectrometers, gas



gravitometers, liquid densitometers, and trace oxygen analyzers for natural gas, sulfur recovery, chemical production, oil refining, industrial gases, semiconductor manufacture, pharmaceutical manufacturing, pollution monitoring, on-line thermometers, infrared thermometers, thermal imagers, IR line scanners, coal-fire detection systems, turbine blade temperature monitoring

**AMETEK DREXELBROOK** – [www.drexelbrook.com](http://www.drexelbrook.com)  
**AMETEK LAND, Inc.** – [www.landinst.com](http://www.landinst.com)  
**AMETEK Process Instruments** – [www.ametekpi.com](http://www.ametekpi.com)

### On-line Vapor Pressure Analyzers

**AMETEK Grabner Instruments** – [www.grabner-instruments.com](http://www.grabner-instruments.com)  
**AMETEK Petrolab Company** – [www.petrolab.com](http://www.petrolab.com)

THERMOX flue gas oxygen/combustibles/moisture, air/fuel mixture monitors, furnace atmosphere analyzers

**AMETEK THERMOX** – [www.thermox.com](http://www.thermox.com)

### Signal Analysis

Amplifiers, preamplifiers, signal averagers, lock-in amplifiers, digitizers, and analysis software

**AMETEK Signal Recovery** – [www.signalrecovery.com](http://www.signalrecovery.com)

### Surface, Form, Roundness, Gauging and Alignment Products

For roughness, surface finish, 3D profiling, roundness, runout, cylindricity, flatness, squareness, parallelism, and straightness measurement; precision diamond turning and machining systems for optics, optical molds and precision mechanical components

**AMETEK Precitech** – [www.precitech.com](http://www.precitech.com)  
**AMETEK Solartron Metrology** – [www.solartronmetrology.com](http://www.solartronmetrology.com)  
**AMETEK Taylor Hobson** – [www.taylor-hobson.com](http://www.taylor-hobson.com)

### Temperature, Pressure and Signal Calibration

JOFRA dry-block calibrators, temperature/pressure/signal calibration instruments, calibration baths, marine calibrators, reference thermometers, comparators, M&G deadweight testers, pumps, reference gauges, FP temperature sensors, scanners and software

**AMETEK Calibration Instruments** – [www.ametekcalibration.com](http://www.ametekcalibration.com)

### Testing and Calibration

Petroleum testing instruments for the analysis of diesel, gasoline, biofuels, and lubricants. Mobile fuel analysis labs. Properties measured include vapor pressure, flash point, viscosity, composition, octane, cetane, distillation properties, color, biofuel content, sulfur content, water content, cold flow behavior

**AMETEK Grabner Instruments** – [www.grabner-instruments.com](http://www.grabner-instruments.com)  
**AMETEK Petrolab Company** – [www.petrolab.com](http://www.petrolab.com)

Calibrators, comparators, deadweight testers, pressure/temperature calibrators, calibration baths, calibration sources, line scanners

**AMETEK Denmark** – [www.ametekcalibration.com](http://www.ametekcalibration.com)  
**AMETEK LAND, Inc.** – [www.landinst.com](http://www.landinst.com)  
**AMETEK Calibration Instruments** – [www.ametekcalibration.com](http://www.ametekcalibration.com)

Handheld mechanical and digital force and torque gauges, medical dynamometers, mechanical, motorized and digital force testers, and force measurement fixtures for tensile, compression, shear, flexural, COF and spring testing

**AMETEK CHATILLON Force Measurement Products** – [www.chatillon.com](http://www.chatillon.com)

Materials testing machines and data analysis software for tensile, compression, flexural and friction testing of materials, components and finished products. Test accessories, including extensometers, grips, load cells, thermal chambers and furnaces. Also manufacturers of texture analyzers for food testing applications

**AMETEK LLOYD INSTRUMENTS** – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)  
**AMETEK SPECTRO Analytical Instruments** – [www.spectro.com](http://www.spectro.com)

Davenport polymer test instruments, including melt flow indexers, HDT/Vicat measurement systems for heat distortion temperature (HDT) and Vicat softening point of plastic materials, instruments for determining the intrinsic viscosity (IV) of PET, density gradient columns, and falling dart impact testers

**AMETEK LLOYD INSTRUMENTS** – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)

Precision pressure test gauges

**AMETEK U.S. GAUGE** – [www.ametekusg.com](http://www.ametekusg.com)

## ◆ FOOD, MEDICAL, PHARMACEUTICAL, SANITARY, AND SEMICONDUCTOR ◆

### Blowers

WINDJAMMER and NAUTILAIR brushless DC electronically commutated blowers, ROTRON regenerative blowers for medical, food service, and pharmaceutical

**AMETEK Technical & Industrial Products** – [www.ametektip.com](http://www.ametektip.com)

### Controls and Controllers

Baghouse controllers, interface modules

**AMETEK National Controls Corporation (NCC)** – [www.nationalcontrols.com](http://www.nationalcontrols.com)

Pneumatic indicating controllers

**AMETEK PMT Products** – [www.ametekpmt.com](http://www.ametekpmt.com)

Linear encoders, position measurement transducers, gauge probes

**AMETEK Solartron Metrology** – [www.solartronmetrology.com](http://www.solartronmetrology.com)

Brushless DC (electronically commutated) motor, pump, and blower controls, and DSP-based controls

**AMETEK Technical & Industrial Products** – [www.ametektip.com](http://www.ametektip.com)

### Flavor, Fragrance, and Food Instrumentation

Laboratory instruments for the measurement of flash point, color, viscosity, vapor pressure, penetration, and more

**AMETEK Grabner Instruments** – [www.grabner-instruments.com](http://www.grabner-instruments.com)  
**AMETEK Petrolab Company** – [www.petrolab.com](http://www.petrolab.com)

### Food Instrumentation

Instruments for analysis of viscosity, density, breaking point, compositional analysis, color, texture and penetration; instruments for food processing and food equipment

**AMETEK Grabner Instruments** – [www.grabner-instruments.com](http://www.grabner-instruments.com)  
**AMETEK Petrolab Company** – [www.petrolab.com](http://www.petrolab.com)

### Food Service Equipment

Cooking computers, timers, digital controls for fryers, grills, griddles, brewing and dispensing equipment

**AMETEK National Controls Corporation (NCC)** – [www.nationalcontrols.com](http://www.nationalcontrols.com)

NAUTILAIR brushless DC electronically commutated blowers

**AMETEK Technical & Industrial Products** – [www.ametektip.com](http://www.ametektip.com)

### Food Testing Equipment

Mechanical, motorized and digital testers used for determining the textural properties of food products

**AMETEK CHATILLON Force Measurement Systems** – [www.chatillon.com](http://www.chatillon.com)

Dedicated food texture analyzers to evaluate the textural properties of foods at all stages of manufacture

**AMETEK LLOYD INSTRUMENTS** – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)



### Hardness Testers

Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD.

*AMETEK Newage Testing Instrument – [www.hardnesstesters.com](http://www.hardnesstesters.com)*

### Heat Exchangers / Tubing

Fluoropolymer shell and tube, immersion coils, bulk tubing

*AMETEK Fluoropolymer Products – [www.ametekfpp.com](http://www.ametekfpp.com)*

### Hermetic Connectors / Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

*AMETEK HCC Industries – [www.hccindustries.com](http://www.hccindustries.com)*

*AMETEK SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)*

### Level Measurement

Tank gauging, continuous and point level measurement, and other level measurement products

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)*

*AMETEK DREXELBROOK – [www.drexelbrook.com](http://www.drexelbrook.com)*

*AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)*

### Material Test Machines for Medical Devices, Pharmaceuticals and Packaging

Force measurement systems used to test the physical properties of medical devices and medical packaging

*AMETEK CHATILLON Force Measurement Systems – [www.chatillon.com](http://www.chatillon.com)*

Materials testing systems and data analysis software for tensile, compression, friction and flexural testing of pharmaceuticals, medical devices and medical packaging, including syringe and needle sharpness tests, tablet crush tests, viscosity of gels and pastes, flexural tubing, package seal strength, etc. NEXYGEN<sup>Plus</sup> material test and analysis software safeguards data integrity with security audit trails and user level management systems that help manufacturers meet FDA 21 CFR Part 11 compliance requirements

*AMETEK LLOYD INSTRUMENTS – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)*

### Medical Devices and Implants

Customized metal foils in CP Grade 1 titanium for pacemakers, drug-infusion pumps and electronic implant devices

*AMETEK Hamilton Precision Metals – [www.hpmetals.com](http://www.hpmetals.com)*

*AMETEK Reading Alloys – [www.reading-alloys.com](http://www.reading-alloys.com)*

### Motors

Linear motors, brush motors, servo motors, pump motors, brushless DC motors with internal or external controlled designs for pumps, blowers and general motion applications, high-efficiency brushless DC micro motors, brushless DC servo motors, gearmotors, permanent magnet DC motors, slotted brushless DC servo motors, stepper motors; recognized brands include PITTMAN and MAE

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Pharmaceutical Process Analytical Technology

On-line UV-VIS analyzers for clean-in-place (CIP) chemical analysis, reaction monitoring, concentration analysis, process mass spectrometers for on-line control of solvent drying, solvent swapping, moisture content, blending, fermentation, and mammalian cell culture

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

### Position Controls

Controls for packaging, dispensing, filling machinery, and hydraulic cylinders

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)*

### Pressure and Temperature Measurement

Pressure gauges, thermometers, pressure transducers, transmitters for differential pressure, flow, liquid level

*AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)*

*AMETEK Power Instruments – [www.ametekpower.com](http://www.ametekpower.com)*

*AMETEK U.S. GAUGE – [www.ametekusg.com](http://www.ametekusg.com)*

### Semiconductor and Ultrahigh-purity (UHP)

Ultrahigh-purity fluoropolymer tubing and heat exchangers

*AMETEK Fluoropolymer Products – [www.ametekfpp.com](http://www.ametekfpp.com)*

XRF analyzers, X-ray Microanalysis for electron microscopes and electron diffraction; Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA), Low-energy Electron induced X-ray Emission Spectrometry (LEXES), and Tomographic Atom Probe (TAP)

*AMETEK CAMECA – [www.cameca.com](http://www.cameca.com)*

*AMETEK EDAX – [www.edax.com](http://www.edax.com)*

Trace moisture analyzers (ppmv, ppbv, <1.0 ppbv), residual gas analyzers/mass spectrometers, trace oxygen analyzers, gas chromatographs, gas purity analyzers

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

Ultrahigh-purity transmitters and transducers, gauges, switches

*AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)*

Elemental analysis, XRF and ICP spectrometers

*AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

Power burner blowers; ROTRON regenerative (side-channel) blowers for process with flows up to 1800 SCFM, pressures up to 10 PSIG, vacuums to 180 IWG

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Surface, Form, Roundness, Gauging and Alignment Products

For roughness, surface finish, 3D profiling, roundness, runout, cylindricity, flatness, squareness, parallelism, and straightness measurement; precision diamond turning and machining systems for optics, optical molds and precision mechanical components

*AMETEK Precitech – [www.precitech.com](http://www.precitech.com)*

*AMETEK Solartron Metrology – [www.solartronmetrology.com](http://www.solartronmetrology.com)*

*AMETEK Taylor Hobson – [www.taylor-hobson.com](http://www.taylor-hobson.com)*

### Temperature, Pressure and Signal Calibration

JOFRA dry-block calibrators, temperature/pressure/signal calibration instruments, calibration baths, marine calibrators, reference thermometers, comparators, M&G deadweight testers, pumps, reference gauges, FP temperature sensors, scanners and software

*AMETEK Calibration Instruments – [www.ametekcalibration.com](http://www.ametekcalibration.com)*

### Weight Scales

Mechanical weighing scales including Class III hanging scales, bulk weighing scales, crane scales, dynamometers, and warehouse scales

*AMETEK CHATILLON Weighing Scales – [www.chatillon.com](http://www.chatillon.com)*



## ◆ INDUSTRIAL PRODUCTS AND MATERIALS ◆

### AC/DC Programmable Power Sources

Rackmount and benchtop programmable DC power supplies, AC power sources, frequency converters, current sources, AC/DC loads, CE compliance test systems, modular AC/DC power systems and powerful programming software

*AMETEK Programmable Power – [www.programmablepower.com](http://www.programmablepower.com)*

### Battery Chargers

Industrial battery chargers for fork lift trucks and material handling equipment; station battery chargers, battery monitor/total system monitor

*AMETEK Prestolite Power – [www.prestolitepower.com](http://www.prestolitepower.com)*

### Blowers

NAUTILAIR variable speed combustion premix blowers; ROTRON regenerative (side-channel) blowers for process, industrial, environmental, wastewater, and instrumentation applications with flows up to 1800 SCFM, pressures up to 10 PSIG, vacuums to 180 IWG, NAUTILAIR blowers

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Contactors and Solenoids

Battery disconnect switches, contactors, solenoids, switchgear components

*AMETEK Prestolite Switch – [www.powerandswitchproducts.com](http://www.powerandswitchproducts.com)*

### Controls

Time delay relays, cube timers, temperature indicators and controls, solid state relays, liquid level controls, voltage monitors, dust collector controls, custom machine and process controls

*AMETEK National Controls Corporation (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)*

SCR and HDR power controllers, power controller systems

*AMETEK Solidstate Controls – [www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com), [www.hdrpower.com](http://www.hdrpower.com)*

### Displays

PANALARM and Rochester Instrument Systems alarms, annunciators, alarm systems and event recorders

*AMETEK Power Instruments – [www.ametekpower.com](http://www.ametekpower.com)*

### Drive Motors

Brushless DC, permanent magnet, shaded pole, series universal, wound field DC motors

*AMETEK Prestolite Motors – [www.ametekfsm.com](http://www.ametekfsm.com)  
AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Elemental Analysis

XRF and Inductively Coupled Plasma (ICP) spectrometers, portable and stationary metal analyzers; Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA) and Tomographic Atom Probe (TAP) Energy Dispersive Spectrometry (EDS), Electron Backscatter Diffraction and Wavelength Dispersive Spectrometry (WDS), Micro X-ray Fluorescence

*AMETEK CAMECA – [www.cameca.com](http://www.cameca.com)  
AMETEK EDAX – [www.edax.com](http://www.edax.com)  
AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

### EDAX

Energy Dispersive Spectrometry (EDS), EBSD and Wavelength Dispersive Spectrometry (WDS), Micro X-ray Fluorescence systems, Inductively Coupled Plasma (ICP) and XRF spectrometers, metal analysis

*AMETEK EDAX – [www.edax.com](http://www.edax.com)*

### Engineered Shaped Products

Fully dense products from bulk rod and bar to fully machine-finished shapes in a range of densified alloys

### Powdered and Clad Metals

Nickel and cobalt alloy powders; roll-bonded dissimilar metals used for sterilizers; electromechanical vessels, cookware, and flue gas desulfurization; stainless steel powders and custom atomized powders

### Specialty Metal Strip

Metal strip products via wrought powder metallurgy technology in nickel, nickel-iron, nickel-iron-cobalt, high-purity iron, cobalt-based, spinodal copper and titanium alloys

### Specialty Metal Wire

Standard and custom shaped wire products and electronic wire connections comprised of aluminum, brass, copper, stainless steel alloys; in-house tooling

### Thermal Management Products

Metal matrix composites in molybdenum copper, tungsten copper, silicon carbide aluminum, and copper clad molybdenum copper for electronic thermal management

*AMETEK Specialty Metal Products – [www.ametekmetals.com](http://www.ametekmetals.com)*

### Force Measurement Testers

Handheld mechanical and digital force gauges and mechanical, motorized and digital force testers

*AMETEK CHATILLON Force Measurement Systems – [www.chatillon.com](http://www.chatillon.com)*

### Hardness Testers

Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD.

*AMETEK Newage Testing Instruments – [www.hardnesstesters.com](http://www.hardnesstesters.com)*

### Heat Exchangers / Tubing

Fluoropolymer shell and tube, immersion coils, bulk tubing

*AMETEK Fluoropolymer Products – [www.ametekfpp.com](http://www.ametekfpp.com)*

### Hermetic Connectors / Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

*AMETEK HCC Industries – [www.hccindustries.com](http://www.hccindustries.com)  
AMETEK SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)*

### Materials Analysis

Energy Dispersive Spectrometry (EDS), Electron Backscatter Diffraction and Wavelength Dispersive Spectrometry (WDS), Micro X-ray Fluorescence systems, Inductively Coupled Plasma (ICP) and XRF spectrometers, metal analysis

*AMETEK EDAX – [www.edax.com](http://www.edax.com)  
AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA), and Tomographic Atom Probe (TAP)

*AMETEK CAMECA – [www.cameca.com](http://www.cameca.com)*

EIS spectrometers, frequency response analyzers, potentiostats, battery test equipment

*AMETEK Solartron Analytical – [www.solartronanalytical.com](http://www.solartronanalytical.com)*



### Material Stress Testing, Crack Propagation, Product Drop Test

High-speed digital imaging systems used in applications including defense, automotive, engineering, science, medical research, industrial manufacturing and packaging, sports and entertainment, and digital cinematography for television and movie production

*AMETEK Vision Research – [www.visionresearch.com](http://www.visionresearch.com)*

### Plastics and Resins

Toll compounding, engineered resins, alloys, reactive modifiers, other thermoplastics

*AMETEK Westchester Plastics – [www.ametek-westchesterplas.com](http://www.ametek-westchesterplas.com)*

### Position Sensors and Instrumentation

Mill duty linear and rotary position sensors and resolvers

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)*

*AMETEK Solartron Metrology – [www.solartronmetrology.com](http://www.solartronmetrology.com)*

### Process Analyzers

Moisture analyzers for feed gas/instrument air monitoring and air separation plants, on-line UV-NIR analyzers for chemical analysis, reaction monitoring, concentration analysis, bleaching/plating strength

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

On-line vapor pressure analyzers

*AMETEK GRABNER INSTRUMENTS – [www.grabner-instruments.com](http://www.grabner-instruments.com)*

*AMETEK PETROLAB COMPANY – [www.petrolab.com](http://www.petrolab.com)*

Process mass spectrometers, mass spectrometers/vacuum analyzers, trace oxygen for purge/blanket monitoring, flue gas oxygen/combustibles/moisture, air/fuel mixture monitors, furnace atmosphere analyzers

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

### Pump Motors

Brush and brushless motors for a variety of pump applications, including vapor recovery

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Specialty Titanium Alloys and Customized Metal Foils

Stainless steel, nickel and nickel alloys, copper and copper alloys and titanium for medical devices, electronic components, aerospace instruments and other industrial applications

*AMETEK Hamilton Precision Metals – [www.hpmetals.com](http://www.hpmetals.com)*

*AMETEK Reading Alloys – [www.reading-alloys.com](http://www.reading-alloys.com)*

### Spring and Reel Products

Constant force, torque springs, power springs, spring motors; data, electrical cord, static grounding reels

*AMETEK Hunter Spring Products – [www.ametekhunterspring.com](http://www.ametekhunterspring.com)*

### Temperature, Pressure and Signal Calibration

JOFRA dry-block calibrators, temperature/pressure/signal calibration instruments, calibration baths, marine calibrators, reference thermometers, comparators, M&G deadweight testers, pressure gauges and FP temperature sensors

*AMETEK Calibration Instruments – [www.ametekcalibration.com](http://www.ametekcalibration.com)*

### Testing and Calibration

Petroleum testing instruments for the analysis of diesel, gasoline, biofuels, and lubricants. Mobile fuel analysis labs. Properties measured include vapor pressure, flash point, viscosity, composition, octane, cetane, distillation properties, color, biofuel content, sulfur content, water content, cold flow behavior

*AMETEK Grabner Instruments – [www.grabner-instruments.com](http://www.grabner-instruments.com)*

*AMETEK PetroLab Company – [www.petrolab.com](http://www.petrolab.com)*

### Turbine Blade Temperature Monitoring

Non-contact thermometers, pyrometers, data loggers and software

*AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)*

### Universal Materials Testing Equipment

Materials testing machines (up to 300kN, 674, 431bf) and data analysis software for tensile, compression, friction and flexural testing of materials, components and finished products. Test accessories include extensometers, grips, load cells, thermal chambers and furnaces for elevated and low temperature testing. Widely used in universities, research establishments and across manufacturing, including plastics, packaging, metals, medical devices, electronic components, textiles, composites, paper and more

*AMETEK LLOYD INSTRUMENTS – [www.lloyd-instruments.com](http://www.lloyd-instruments.com)*

### Weigh Scales

Mechanical weighing scales including Class III hanging scales, bulk weighing scales, crane scales, dynamometers, and warehouse scales

*AMETEK CHATILLON Weighing Scales – [www.chatillon.com](http://www.chatillon.com)*

## ◆ MOTORS AND AIR-MOVING PRODUCTS ◆

### Accessories

Air flowmeters, filters, gauges, material separators, moisture separators, mufflers, noise enclosures

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Blowers

Advanced Industries, Aircscrew and ROTRON mil spec AC and DC brushless centrifugal and high-pressure radial blowers for military, aerospace, telecommunications

*AMETEK Aerospace & Defense – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

AC blowers for appliance, floorcare, lawn and garden equipment; DC blowers for professional appliance, lawn and garden equipment, pool and spa

*AMETEK do Brasil Ltda – [www.ametek.com.br](http://www.ametek.com.br)*

*AMETEK Floorcare & Specialty Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

*AMETEK Italia S.r.l. – [www.ametek.it](http://www.ametek.it)*

AC and DC brushless electronically commutated blowers for medical equipment, printing equipment, floorcare, material handling, fuel cell, mass transit vehicle applications, including WINDJAMMER and ROTRON; variable speed NAUTILAIR combustion blowers for high-efficiency burner systems; DC blowers for mass transit vehicle applications; ROTRON regenerative (side-channel) blowers for process, industrial, environmental, wastewater, and instrumentation applications with flows up to 1800 SCFM, pressures up to 10 PSIG, vacuums to 180 IWG

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Controllers

Controls and controllers, baghouse controllers, interface modules

*AMETEK National Controls Corporation (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)*

Brushless DC (electronically commutated) motor, pump, and blower controls, DSP-based controls

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Fans

Brushless DC fans for cooling applications and mass transit vehicle air conditioning systems

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*



Aircscrew and ROTRON mil spec AC and DC brushless mixed flow, tubeaxial, vaneaxial fans for military, aerospace, and telecommunications applications

*AMETEK Aerospace & Defense – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

### Gearmotors

Fractional horsepower AC and DC gear motors

*AMETEK do Brasil Ltda – [www.ametek.com.br](http://www.ametek.com.br)*

*AMETEK Italia S.r.l. – [www.ametek.it](http://www.ametek.it)*

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Hardness Testers

Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD.

*AMETEK Newage Testing Instrument – [www.hardnesstesters.com](http://www.hardnesstesters.com)*

### Motors

AC shaded pole/series universal fractional horsepower motors for use in lawn and garden, home shop, health/beauty/fitness, professional appliances, floorcare, heating and ventilation and many other commercial and consumer rotary motion delivery applications

*AMETEK do Brasil Ltda – [www.ametek.com.br](http://www.ametek.com.br)*

*AMETEK Floorcare & Specialty Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

*AMETEK Italia S.r.l. – [www.ametek.it](http://www.ametek.it)*

Advanced Industries, Airscrew, Muirhead Aerospace, and ROTRON mil spec AC and DC brushless motors and drive systems

*AMETEK Aerospace & Defense – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

Muirhead Aerospace AC, DC brushed and brushless motors, torque motors, limited angle torque motors, variable reluctance motors, stepper motors, servo motor, gearboxes, and drive systems, build-to-print and custom subassemblies.

*AMETEK Muirhead Aerospace – [www.muirheadaerospace.com](http://www.muirheadaerospace.com)*

AC synchronous motors, brush motors, brush-commutated motors and servo motors, DC wound field and permanent magnet designs for electric powered vehicles, hydraulic pumps, winches, appliances, commercial floorcare applications, lawn and garden, health/beauty/fitness, pool and spa

*AMETEK Floorcare & Specialty Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

*AMETEK Italia S.r.l. – [www.ametek.it](http://www.ametek.it)*

*AMETEK Prestolite Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

Linear motors, brush motors, servo motors, pump motors, brushless DC motors with internal or external controlled designs for pumps, blowers and general motion applications, high-efficiency brushless DC micro motors, brushless DC servo motors, gearmotors, permanent magnet DC motors, slotted brushless DC servo motors, stepper motors; recognized brands include PITTMAN, and MAE

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Vacuum Motors

Low-noise peripheral bypass discharge, hazardous duty peripheral bypass discharge, tangential bypass discharge, thru-flow discharge, switched reluctance vacuum motors

*AMETEK do Brasil Ltda – [www.ametek.com.br](http://www.ametek.com.br)*

*AMETEK Floorcare & Specialty Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

*AMETEK Italia S.r.l. – [www.ametek.it](http://www.ametek.it)*

*AMETEK LAMB Electric – [www.ametekfsm.com](http://www.ametekfsm.com)*

## ◆ OEM PRODUCTS, HEAVY VEHICLE, AND MASS TRANSIT ◆

### Blower Accessories

Air flowmeters, filters, gauges, material separators, moisture separators, mufflers, noise enclosures

### Blowers

AC and DC brushless electronically commutated blowers for medical equipment, printing equipment, floorcare, material handling, fuel cell, mass transit vehicle applications, including WINDJAMMER and ROTRON; variable speed NAUTILAIR combustion blowers for high-efficiency burner systems; DC blowers for mass transit vehicle applications; ROTRON regenerative (side-channel) blowers for process, industrial, environmental, wastewater, and instrumentation applications with flows up to 1800 SCFM, pressures up to 10 PSIG, vacuums to 180 IWG

### Bus and Coach Blowers

Passenger heating and cooling systems; fans – air conditioner condensers; water boost pumps

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Bus and Coach / Heavy Vehicle Instrumentation

Gauges, vehicle instrumentation; cased gauges, instrument panels

*AMETEK Vehicular Instrumentation Systems – [www.ametekvis.com](http://www.ametekvis.com)*

### Contactors and Solenoids

Battery disconnect switches, contactors, solenoids, switchgear components

*AMETEK Prestolite Power & Switch – [www.powerandswitchproducts.com](http://www.powerandswitchproducts.com)*

### Controllers

Brushless DC (electronically commutated) motor, pump, and blower controls, DSP-based controls

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Controls

Time delay relays, cube timers, temperature indicators and controls, solid state relays, liquid level controls, voltage monitors, dust collector controls, custom machine and process controls

*AMETEK National Controls Corporation (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)*

### Customer High-Speed Imaging Solutions for Embedded Applications

High-speed digital imaging systems used in applications including defense, automotive, engineering, science, medical research, industrial manufacturing and packaging, sports and entertainment, and digital cinematography for television and movie production

*AMETEK Vision Research – [www.visionresearch.com](http://www.visionresearch.com)*

### Drive Motors

Permanent magnet, shaded pole, universal fractional horsepower, wound field DC

*AMETEK do Brasil Ltda – [www.ametek.com.br](http://www.ametek.com.br)*

*AMETEK Floorcare & Specialty Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

*AMETEK Prestolite Motors – [www.ametektip.com](http://www.ametektip.com)*

### Fuel and Oil Analysis Equipment

Petroleum testing instruments for the analysis of diesel, gasoline, biofuels, and lubricants. Mobile fuel analysis labs. Properties measured include vapor pressure, flash point, viscosity, composition, octane, cetane, distillation properties, color, biofuel content, sulfur content, water content, cold flow behavior

*AMETEK Grabner Instruments – [www.grabner-instruments.com](http://www.grabner-instruments.com)*

*AMETEK Petrolab Company – [www.petrolab.com](http://www.petrolab.com)*



### Hermetic Connectors / Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

*AMETEK HCC Industries – [www.hccindustries.com](http://www.hccindustries.com)  
AMETEK SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)*

### Hybrid Drive Motors

Hybrid drive motors for municipal bus and heavy vehicle applications

*AMETEK Aerospace & Defense – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

### Hydraulic Power / Pump Motors

DC motors specializing in powering hydraulic systems and pumps for braking systems, truck lifts, hydraulic power packs; Prestolite 12V DC and 24V DC pump motors

*AMETEK Prestolite Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

### Level Measurement

Tank gauging, continuous/point level measurement, other level measurement products, hydrostatic level sensors, level sensors, tank gauging

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)  
AMETEK DREXELBROOK – [www.drexelbrook.com](http://www.drexelbrook.com)  
AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)*

### Motors

Linear motors, brush motors, servo motors, pump motors, brushless DC motors with internal or external controlled designs for pumps, blowers and general motion applications, high-efficiency brushless DC micro motors, brushless DC servo motors, gearmotors, permanent magnet DC motors, slotted brushless DC servo motors, stepper motors; recognized brands include PITTMAN and MAE

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Position Measurement

Position sensors, limit switches, linear displacement transducers, resolvers, cable and hose carriers

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)  
AMETEK Solartron Metrology – [www.solartronmetrology.com](http://www.solartronmetrology.com)*

### Pressure and Temperature Measurement

Pressure gauges, transducers, thermometers, transmitters for differential pressure, flow, liquid level, pressure

*AMETEK Power Instruments – [www.ametekpower.com](http://www.ametekpower.com)  
AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)  
AMETEK U.S. GAUGE – [www.ametekusg.com](http://www.ametekusg.com)*

### Pumps

Seal-Less brushless water circulating pumps with three basic pump/motor designs from 12 GPM to 26 GPM in either 12 VDC or 24 VDC motor ratings. Magnetically coupled design provides for a leak-proof pump with no rotating wet seals to wear out and cause leakage

### Rail Blowers

Passenger heating and cooling systems; inverters – DC to DC and DC to AC; fans – air conditioner condensers; fuel pumps; hydraulic brake pump motors

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

### Specialty Metal Strip

Metal strip products via wrought powder metallurgy technology in nickel, nickel-iron, nickel-iron-cobalt, high-purity iron, cobalt-based and spinodal copper alloys

### Specialty Metal Wire

Standard/custom shaped wire products and electronic wire connections made of aluminum, brass, copper, and stainless steel alloys; in-house tooling

### Thermal Management Products

Metal matrix composites in molybdenum copper, tungsten copper, silicon carbide aluminum, and copper clad molybdenum-copper for electronic thermal management

*AMETEK Specialty Metal Products – [www.ametekmetals.com](http://www.ametekmetals.com)*

### Specialty Titanium Alloys and Customized Metal Foils

Stainless steel, nickel and nickel alloys, copper and copper alloys and titanium for medical devices, electronic components, aerospace instruments and other industrial applications

*AMETEK Hamilton Precision Metals – [www.hpmetals.com](http://www.hpmetals.com)  
AMETEK Reading Alloys – [www.reading-alloys.com](http://www.reading-alloys.com)*

### Spring and Reel Products

Constant force, torque springs, power springs, spring motors; data, electrical cord, static grounding reels

*AMETEK Hunter Spring Products – [www.ametekhunterspring.com](http://www.ametekhunterspring.com)*

### Temperature Alarms and Indicators

Standard temperature alarms and indicators, and custom OEM temperature controllers, especially for the food service industry

*AMETEK National Controls Corporation (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)*

### Temperature, Pressure and Signal Calibration

JOFRA dry-block calibrators, temperature/pressure/signal calibration instruments, calibration baths, marine calibrators, reference thermometers, comparators, M&G deadweight testers, pumps, reference gauges, FP temperature sensors, scanners and software

*AMETEK Calibration Instruments – [www.ametekcalibration.com](http://www.ametekcalibration.com)*

### Timers and Timing Products

Time delay relays, solid state relays, voltage and current monitors

*AMETEK National Controls Corporation (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)*

### Transmission and Electrical Power Supply Cooling

Airscrew AC fans and motors/gearbox cooling systems

*AMETEK Aerospace & Defense – [www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

### Vacuum Motors

ACUSTEK low-noise peripheral bypass discharge, hazardous duty peripheral bypass discharge, peripheral bypass discharge, tangential bypass discharge, thru-flow discharge, INFIN-A-TEK switched reluctance motor-blowers

*AMETEK Floorcare & Specialty Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*

### Vehicular Instrumentation and Systems

Gauges, vehicle instrumentation, clusters, message centers, power multiplexing, keypads, chassis interface modules

*AMETEK Vehicular Instrumentation Systems – [www.ametekvis.com](http://www.ametekvis.com)*

### Winch Motors

Prestolite 12V DC and 24V DC winch motors

*AMETEK Prestolite Motors – [www.ametekfsm.com](http://www.ametekfsm.com)*



## ◆ POWER GENERATION, TRANSMISSION AND DISTRIBUTION, AND NUCLEAR ◆

### Failure Analysis and Corrosion Studies

X-ray fluorescence and electron diffraction analyzers, ICP spectrometers, portable and stationary metal analyzers

[AMETEK EDAX – www.edax.com](http://www.edax.com)

[AMETEK SPECTRO Analytical Instruments – www.spectro.com](http://www.spectro.com)

Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA), and Tomographic Atom Probe (TAP)

[AMETEK CAMECA – www.cameca.com](http://www.cameca.com)

### Fuel Cell Products

Potentiostats, galvanostats, high-current electrochemical instrumentation software, accessories

[AMETEK EDAX – www.edax.com](http://www.edax.com)

Energy Dispersive Spectrometry (EDS), Electron Backscatter Diffraction and Wavelength Dispersive Spectrometry (WDS), Micro X-ray Fluorescence systems, Inductively Coupled Plasma (ICP) and XRF spectrometers, metal analysis

[AMETEK Princeton Applied Research – www.princetonappliedresearch.com](http://www.princetonappliedresearch.com)

EIS spectrometers, frequency response analyzers, potentiostats, and battery test equipment

[AMETEK Solartron Analytical – www.solartronanalytical.com](http://www.solartronanalytical.com)

Process mass spectrometers for real-time analysis of gases, catalytic reactions, combustion, and process variables

[AMETEK Process Instruments – www.ametekpi.com](http://www.ametekpi.com)

Strip, clad, powdered and specialty metals

[AMETEK Specialty Metal Products – www.ametekmetals.com](http://www.ametekmetals.com)

Brushless motors, pumps, blowers

[AMETEK Technical & Industrial Products – www.ametektip.com](http://www.ametektip.com)

### Hardness Testers

Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD.

[AMETEK Newage Testing Instrument – www.hardnesstesters.com](http://www.hardnesstesters.com)

### Hermetic Connectors/Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

[AMETEK HCC Industries – www.hccindustries.com](http://www.hccindustries.com)

[AMETEK SCP, Inc. – www.ametekscp.com](http://www.ametekscp.com)

### Level Measurement

Continuous/point level measurement, level measurement products, tank gauging, hydrostatic level sensors, water well level sensors

[AMETEK Automation & Process Technologies – www.ametekapt.com](http://www.ametekapt.com)

[AMETEK DREXELBROOK – www.drexelbrook.com](http://www.drexelbrook.com)

[AMETEK U.S. GAUGE – www.ametekusg.com](http://www.ametekusg.com)

### Nuclear Instruments

Germanium gamma-ray detectors, both LN<sub>2</sub> cooled and electrically cooled, ion-implanted silicon charged particle detectors, NIM-modular pulse processing electronics, multichannel analyzers, spectroscopy software, instruments and

systems for Homeland Security, in-situ waste analysis, chemical weapons analysis, nuclear safeguards, and physics research

[AMETEK ORTEC – www.ortec-online.com](http://www.ortec-online.com)

Nuclear qualified displays and bargraphs

[AMETEK Vehicular Instrumentation Systems – www.ametekvis.com](http://www.ametekvis.com)

Gulston Statham nuclear qualified pressure transmitters

[AMETEK Power Instruments – www.ametekpower.com](http://www.ametekpower.com)

Battery chargers for nuclear plants, UPS systems, fusible panel boards, and static inverters

[AMETEK Solidstate Controls – www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com)

### Photovoltaics

Secondary Ion Mass Spectrometer (SIMS), Electron Probe Microanalysis (EPMA) and Tomographic Atom Probe (TAP), EDS and WDS X-ray Microanalysis, electron backscatter diffraction (EBSD), crystallographic analysis via TEM electron diffraction and Micro-EDXRF. Customized metal foils from stainless steel, nickel and nickel alloys, copper and copper alloys and titanium.

[AMETEK CAMECA – www.cameca.com](http://www.cameca.com)

[AMETEK EDAX – www.edax.com](http://www.edax.com)

[AMETEK Hamilton Precision Metals – www.hpmetals.com](http://www.hpmetals.com)

### Power Generation

Gulston Statham pressure transducers, differential pressure transmitters, PANALARM annunciators; Rochester Instrument Systems alarm management systems, annunciators, sequence of events recorders, transient/fault recorders, power quality monitors, signal conditioners; Power & Industrial Products flame sensors, thermocouples, cables, speed sensors; SCIENTIFIC COLUMBUS meters and transducers

[AMETEK Power Instruments – www.ametekpower.com](http://www.ametekpower.com)

### Power Supplies and Control Systems

SCR power controllers, power controller systems, custom AC and DC power supplies, CellRx battery management systems

[AMETEK Solidstate Controls –](http://www.solidstatecontrolsinc.com)

[www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com), [www.hdrpower.com](http://www.hdrpower.com)

### Power Transmission and Distribution

PANALARM annunciators; Rochester Instrument Systems alarm management systems, annunciators, sequence of events recorders, transient/fault recorders, power quality monitors, signal conditioners; SCIENTIFIC COLUMBUS meters and transducers; PULSAR communication fiber optic access multiplexers and narrowband power-line carriers

[AMETEK Power Instruments – www.ametekpower.com](http://www.ametekpower.com)

### Process Analyzers

Analyzers – boiler feedwater, combustibles, flue gas, methane, oxygen, stack moisture, on-line XRF spectrometers, on-line thermometers, infrared thermometers, thermal imagers, infrared line scanners, coal fire detection systems

[AMETEK LAND, Inc. – www.landinst.com](http://www.landinst.com)

[AMETEK SPECTRO Analytical Instruments – www.spectro.com](http://www.spectro.com)

[AMETEK THERMOX – www.ametekpi.com](http://www.ametekpi.com)

### Temperature, Pressure and Signal Calibration

JOFRA dry-block calibrators, temperature/pressure/signal calibration instruments, calibration baths, marine calibrators, reference thermometers, comparators, M&G deadweight testers, pumps, reference gauges, FP temperature sensors, scanners and software

[AMETEK Calibration Instruments – www.ametekcalibration.com](http://www.ametekcalibration.com)

[AMETEK LAND, Inc. – www.landinst.com](http://www.landinst.com)



### Turbine Blade Temperature Monitoring

Non-contact thermometers, pyrometers, data loggers and software

*AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)*

### Turbine Blades

Specialty titanium master alloys for turbine fan blades

*AMETEK Reading Alloys – [www.reading-alloys.com](http://www.reading-alloys.com)*

### Uninterruptible Power Supply (UPS) Systems

UPS systems, battery backups, cathodic protection systems

*AMETEK Solidstate Controls – [www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com)*

## ◆ PROCESS INSTRUMENTS ◆

### Components

Powdered metal bearings for oil and gas well drilling, custom bearings made from tube and stock bars

*AMETEK Specialty Metal Products – [www.ametekmetals.com](http://www.ametekmetals.com)*

### Controls and Controllers

Baghouse controllers, interface modules

*AMETEK National Controls Corporation (NCC) – [www.nationalcontrols.com](http://www.nationalcontrols.com)*

PLC interface cards, process automation modules

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)*

### Displays

Bargraphs and indicators

*AMETEK Vehicular Instrumentation Systems – [www.ametekvis.com](http://www.ametekvis.com)*

### Downhole Oil & Gas: Sensors, Motors, Generators and Actuators

Analog RVDTs, synchros, resolvers, variable reluctance resolver permanent magnet generators AC, DC brushed and brushless motors, torque motors, limited angle torque motors, variable reluctance motors, stepper motors, servo motor gearboxes, and drive systems, build-to-print and custom subassemblies. Electromechanical actuators for primary, secondary and ancillary actuation

*AMETEK Muirhead Aerospace – [www.muirheadaerospace.com](http://www.muirheadaerospace.com)*

### Hermetic Connectors / Microelectronic Packaging

Hermetically sealed connectors, terminals and headers, high-temperature co-fired ceramic (HTCC) packages, microelectronic packaging, cable assemblies, hull penetrators, harsh environment interconnect solutions and cable assemblies, including gigabit Ethernet and fiber optic designs, PEEK connectors and fiber optic glass-sealed feed throughs for high-pressure and high-temperature applications

*AMETEK HCC Industries – [www.hccindustries.com](http://www.hccindustries.com)*

*AMETEK SCP, Inc. – [www.ametekscp.com](http://www.ametekscp.com)*

### Level Measurement

Continuous and point level measurement, level measurement products, and tank gauging

*AMETEK Automation & Process Technologies – [www.ametekapt.com](http://www.ametekapt.com)*

*AMETEK DREXELBROOK – [www.drexelbrook.com](http://www.drexelbrook.com)*

Hydrostatic level sensors, level sensors, tank gauging

*AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)*

### Oil, Gas, Petrochemical Processing / Pipeline

On-line process analyzers for process heater efficiency/combustion control, natural gas sweetening/dehydration/custody transfer, sulfur removal and recovery, reaction rate monitoring, product quality, color analysis (ASTM, Saybolt,

etc.), oil refining, catalytic reforming, olefin production, phenol production and derivative intermediate chemicals, refinery fuel gas analysis, industrial gas production/quality assurance, pollution monitoring of stacks and wastewater, process mass spectrometers, residual gas analyzers, trace O<sub>2</sub> analyzers

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

Analytical instruments for the testing of oil well cements, drilling fluids, reservoir fluids and stimulation fluids under actual wellbore conditions, including systems used to understand fluid placement and interactions with the reservoir; Quizix pulse-less, high precision, metering pumps are ideal for core analysis, reaction rate control, catalyst injection, and any flow control application

*AMETEK Chandler Engineering – [www.chandlerengineering.com](http://www.chandlerengineering.com)*

Ultra-deepwater, topside, and land based flow meters, temperature transmitters, pressure transmitters, and primary DP flow metering devices for well and pipeline monitoring

*AMETEK Solartron ISA – [www.solartronisa.com](http://www.solartronisa.com)*

Process mass spectrometers, mass spectrometers/residual gas analyzers, trace oxygen analyzers

*AMETEK THERMOX – [www.ametekpi.com](http://www.ametekpi.com)*

Petroleum testing instruments for the analysis of diesel, gasoline, biofuels, and lubricants. Mobile fuel analysis labs. Properties measured include vapor pressure, flash point, viscosity, composition, octane, cetane, distillation properties, color, biofuel content, sulfur content, water content, cold flow behavior

*AMETEK Grabner Instruments – [www.grabner-instruments.com](http://www.grabner-instruments.com)*

*AMETEK Petrolab Company – [www.petrolab.com](http://www.petrolab.com)*

Gulton Statham mud density transmitters, pressure transducers, differential pressure transmitters, flow, liquid level, pressure; PANALARM annunciators; Rochester Instrument Systems alarm management systems, annunciators, sequence of events recorders, transient/fault recorders, power quality monitors, signal conditioners

*AMETEK Power Instruments – [www.ametekpower.com](http://www.ametekpower.com)*

Chemical-resistant regenerative process blowers

*AMETEK Technical & Industrial Products – [www.ametektip.com](http://www.ametektip.com)*

Deadweight testers, pressure and temperature calibrators

*AMETEK Mansfield & Green – [www.ametekcalibration.com](http://www.ametekcalibration.com)*

Elemental analysis

*AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

### Pressure and Temperature Measurement

Pressure gauges, thermometers, pneumatic controllers, pressure switches, pressure transmitters, pressure transducers, transmitters for differential pressure, flow, liquid level, pressure; combustion temperature probes, thermocouples, infrared non-contact temperature monitoring products and systems

*AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)*

*AMETEK PMT Products – [www.ametekpmt.com](http://www.ametekpmt.com)*

*AMETEK Power Instruments – [www.ametekpower.com](http://www.ametekpower.com)*

*AMETEK U.S. GAUGE – [www.ametekusg.com](http://www.ametekusg.com)*

### Process Analyzers

Moisture analyzers, hydrogen sulfide analyzers, analyzers for natural gas processing and custody transfer, sulfur removal and recovery analyzers, UV-NIR photometers and spectrophotometers for chemical compositional analysis, combustion efficiency analyzers (flue gas oxygen, combustibles, methane), air/fuel mixture monitors, furnace atmosphere analyzers, gas chromatographs, process mass spectrometers, HC dew point testers, gas gravimeters, liquid densitometers, reaction rate monitoring, product quality, on-line color analysis (ASTM, Saybolt, APHA, ICUMSA, etc.), pollution monitors (CEMs), industrial



wastewater analyzers, on-line thermometers, infrared thermometers, thermal imagers, infrared line scanners, coal fire detection systems, turbine blade temperature monitoring

*AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)*

*AMETEK Petrolab Company – [www.petrolab.com](http://www.petrolab.com)*

*AMETEK Process Instruments – [www.ametekpi.com](http://www.ametekpi.com)*

*AMETEK THERMOX – [www.ametekpi.com](http://www.ametekpi.com)*

On-line vapor pressure analyzers

*AMETEK Grabner Instruments – [www.grabner-instruments.com](http://www.grabner-instruments.com)*

*AMETEK Petrolab Company – [www.petrolab.com](http://www.petrolab.com)*

Elemental analysis, XRF and ICP spectrometers, on-line XRF spectrometers

*AMETEK SPECTRO Analytical Instruments – [www.spectro.com](http://www.spectro.com)*

### **Temperature, Pressure and Signal Calibration**

JOFRA dry-block calibrators, temperature/pressure/signal calibration instruments, calibration baths, marine calibrators, reference thermometers, comparators, M&G deadweight testers, pressure gauges and FP temperature sensors; on-line thermometers, infrared thermometers, thermal imagers, infrared line scanners, coal fire detection systems

*AMETEK Calibration Instruments – [www.ametekcalibration.com](http://www.ametekcalibration.com)*

*AMETEK LAND, Inc. – [www.landinst.com](http://www.landinst.com)*

### **Uninterruptible Power Supply (UPS) Systems**

UPS systems, battery backups, cathodic protection systems, SCR power controllers, power controller systems, custom AC and DC power supplies, CellRx battery management systems

*AMETEK Solidstate Controls –*

*[www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com), [www.hdrpower.com](http://www.hdrpower.com)*



# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

AMETEK has more than 80 manufacturing locations and more than 80 direct sales and service centers across the United States and in more than 30 countries around the globe.

## ◆ AMETEK ADVANCED MEASUREMENT TECHNOLOGY ◆

### ORTEC

801 South Illinois Avenue  
Oak Ridge, TN 37831-0895 U.S.A.  
Phone: +1 865-482-4411 • Fax: +1 865-483-0396

*E-mail: [ortec.info@ametek.com](mailto:ortec.info@ametek.com)  
[www.ortec-online.com](http://www.ortec-online.com)*

A provider of portable and fixed instruments and systems for a broad range of nuclear applications, and non-nuclear applications of nuclear techniques; high resolution Germanium detectors, silicon detectors, pulse-processing electronics, and software. Spectrometry instruments and systems for measuring energy and time distributions of optical photons, X-rays, gamma rays, charged particles, and neutrons in the laboratory, in industry or in-field. Advanced data analysis software for the identification and quantification of nuclear materials based on radiation signatures.

### PRINCETON APPLIED RESEARCH

Phone: +1 865-425-1289 • Fax: +1 865-481-2410

*E-mail: [pari.info@ametek.com](mailto:pari.info@ametek.com)  
[www.princetonappliedresearch.com](http://www.princetonappliedresearch.com)*

A pioneer in electrochemical technology, with a wide range of instruments designed for high precision, versatility, and ease of use. A global manufacturer of electrochemical instrumentation, electrochemical software, localized measurements, voltammetry instruments, ancillary equipment, and accessories.

### SIGNAL RECOVERY

Phone: +1 865-483-2118 • Fax: +1 865-481-2410

*E-mail: [info@signalrecovery.com](mailto:info@signalrecovery.com)  
[www.signalrecovery.com](http://www.signalrecovery.com)*

Specializes in instruments for measuring low-level electrical signals or signals that are accompanied by unwanted noise or interference. The Signal Recovery products includes lock-in amplifiers, boxcar and signal averagers, optical choppers, preamplifiers, counter/timer, and multiplexer.

### SOLARTRON ANALYTICAL

Unit B1, Armstrong Mall, Southwood Business Park,  
Farnborough, Hampshire, GU14 0NR, UK  
Phone: +44 (0) 1252 556800 • Fax: +44 (0) 1252 556899

*E-mail: [solartron.info@ametek.com](mailto:solartron.info@ametek.com)  
[www.solartronanalytical.com](http://www.solartronanalytical.com)*

Solartron Analytical develops instruments and software for the characterization of materials and cells using precision electrical measurement techniques, including electrochemical impedance spectroscopy (EIS). These find particular use in the fields of corrosion, battery and fuel cell research, dielectric analysis and electrochemistry. Its product portfolio includes the ModuLab series of instruments for research and other electrochemical studies, industry standard frequency response analyzers, potentiostats, battery test equipment, and supporting software.

## ◆ AMETEK AEROSPACE & DEFENSE ◆

### HEADQUARTERS

50 Fordham Road  
Wilmington, MA 01887 U.S.A.  
Phone: +1 978-988-4771 • Fax: +1 978-988-4944

*E-mail: [aerosales@ametek.com](mailto:aerosales@ametek.com)  
[www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

### ADVANCED INDUSTRIES

4550 Southeast Boulevard  
Wichita, KS 67210 U.S.A.  
Phone: +1 316-522-0424 or 888-267-5257 (U.S.A. only)  
Fax: +1 316-522-0237

*[www.advancedindustries.com](http://www.advancedindustries.com)*

Manufacturer of brush and brushless DC motors, starter generators, blowers, and remanufactured components of motors and starter generators for aerospace and military markets.

### AIRCONTROL TECHNOLOGIES

111 Windmill Road, Sunbury on Thames  
Middlesex, TW16 7EF, UK  
Phone: +44 (0) 1932 765822 • Fax: +44 (0) 1932 761098

*E-mail: [mail.aircontroltechnologies@ametek.co.uk](mailto:mail.aircontroltechnologies@ametek.co.uk)  
[www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

Environmental Control Systems (ECS) and Environmental Life Support Systems (ELSS) for Chemical, Biological, Radiological, and Nuclear (CBRN) filtration (traditional and regenerative), air conditioning (space and spot cooling/heating) and specialist cooling (active, passive or both).

### AIRSCREW

111 Windmill Road, Sunbury on Thames  
Middlesex, TW16 7EF, UK  
Phone: +44 (0) 1932 765822 • Fax: +44 (0) 1932 761098

*E-mail: [mail.aircrew@ametek.co.uk](mailto:mail.aircrew@ametek.co.uk)  
[www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

AC and Brushless DC and direct drive axial, centrifugal and mixed flow fans, engine cooling fans/systems, heaters, fan heaters, AC and brushless DC and servo motors, and generators.

### AMERON MASS SYSTEMS

MASS 4750 Littlejohn Street  
Baldwin Park, CA 91706 U.S.A.  
Phone: +1 626-337-4640 • Fax: +1 626-337-1641

*[www.ameronglobal.com](http://www.ameronglobal.com)*

Pressurized gas systems, fire extinguishers, and pneumatic stored energy systems for gear blow down, door actuation, missile guidance and seeker cooling tanks, and associated sub components. Electronic and mechanical temperature compensated pressure switches, direct reading pressure gauges, switch gauges, pressure relief devices, and pyrotechnic cartridges.



# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

## HUGHES-TREITLER

300 Endo Boulevard  
Garden City, NY 11530 U.S.A.  
Phone: +1 516-832-8811 • Fax: +1 516-832-8054

*E-mail: [aerosales@ametek.com](mailto:aerosales@ametek.com)  
[www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

Heat exchangers, cold plates, condensers, evaporators and other heat-transfer products. It provides custom design and engineering services built to highest quality manufacturing standards for aircraft, engine, and industrial heat exchangers and heat exchangers for the mobile/marine/avionics/space and missile markets.

## POWER & DATA SYSTEMS

50 Fordham Road  
Wilmington, MA 01887 U.S.A.  
Phone: +1 978-988-4771 • Fax: +1 978-988-4944

*E-mail: [aerosales@ametek.com](mailto:aerosales@ametek.com)  
[www.ametekaerodefense.com](http://www.ametekaerodefense.com)*

AMPHION power distribution units, starter generators, generator control units, primary and secondary power distribution, solid state power controllers and relays, remote control circuit breakers, arc fault protection, brushless motors, pump motors, actuators. Cockpit instruments, data acquisition units, engine interface units, bus protocol converters, RVSM altimeters, engine monitoring systems.

## MUIRHEAD AEROSPACE

33 Oakfield Road, Penge  
London, SE20 8EW, England, UK  
Phone: +44 (0) 20 8659 9090 • Fax: +44 (0) 20 8659 9906

*E-mail: [muirheadaerospace.sales@ametek.co.uk](mailto:muirheadaerospace.sales@ametek.co.uk)  
[www.muirheadaerospace.com](http://www.muirheadaerospace.com)*

Analog RVDTs, synchros, resolvers, variable reluctance resolvers, digital optical encoders, absolute and incremental permanent magnet generators AC, DC brushed and brushless motors, torque motors, limited angle torque motors, variable reluctance motors, stepper motors, servo motor, gearboxes, and drive systems, build-to-print and custom subassemblies. Electromechanical actuators for primary, secondary and ancillary actuation.

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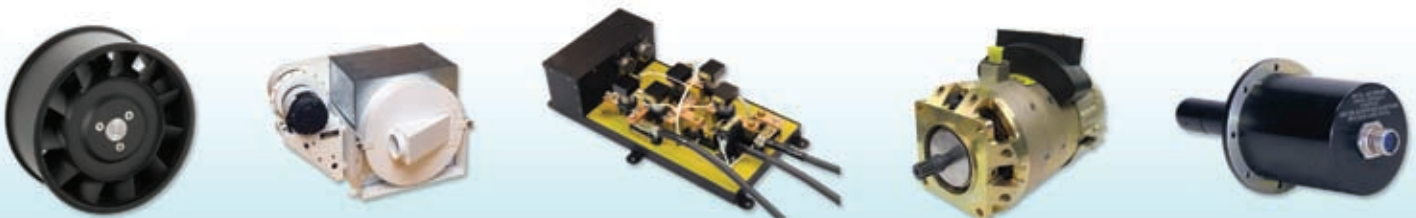
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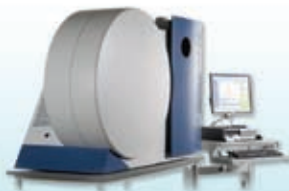
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Phone: +1 215-257-6531 • Fax: +1 215-257-0205

[www.ametekusg.com](http://www.ametekusg.com)

U.S. GAUGE is among the world's leading suppliers of high-quality, competitively priced pressure and temperature measurement products. Its products include Bourdon tube and diaphragm capsule pressure gauges ranging in size from 1-1/2 inches to 6 inches with brass, stainless steel, alloy steel or Monel internals. Among its other products are a complete line of diaphragm seals, a full range of bimetallic thermometers from 1 inch to 5 inches in diameter, and digital thermometers and thermowells.

## MATERIAL TEST

### LLOYD INSTRUMENTS Ltd.

Steyning Way, Bognor Regis  
West Sussex PO22 9ST, UK  
Phone: +44 (0) 1243 833 370 • Fax: +44 (0) 1243 833 401

*E-mail:* [uk-far.general@ametek.co.uk](mailto:uk-far.general@ametek.co.uk)  
[www.lloyd-instruments.co.uk](http://www.lloyd-instruments.co.uk)

8600 Somerset Drive  
Largo, FL 33773 U.S.A.  
Phone: +1 727-536-7831 or 800-527-9999 (U.S.A. only)  
Fax: +1 727-539-6882

LLOYD INSTRUMENTS material testing systems are used worldwide to determine the physical and mechanical properties of raw materials, components and finished products. LLOYD INSTRUMENTS systems are typically used for research & development, quality control and production applications within industries ranging from medical device manufacturing to packaging. It offers a full range of single- and twin-column material testers with testing capacities to 150kN (33,000 lbf); our NEXYGEN software products for advanced automated testing and materials analysis; and a variety of ancillary testing equipment including specialized testing fixtures, extensometers, thermal chambers, load cell sensors, etc. LLOYD INSTRUMENTS products are sold and serviced by a network of qualified representatives in more than 80 countries.

### CHATILLON FORCE MEASUREMENT PRODUCTS

8600 Somerset Drive  
Largo, FL 33773 U.S.A.  
Phone: +1 727-536-7831 or 800-527-9999 (U.S.A. only)  
Fax: +1 727-539-6882

*E-mail:* [chatillon.fl-lar@ametek.com](mailto:chatillon.fl-lar@ametek.com)  
[www.chatillon.com](http://www.chatillon.com)

CHATILLON force measurement systems included handheld force and torque gauges and Class II medical dynamometers, plus mechanical, motorized and digital force testing systems used for tensile, compression, shear, flexural, COF and spring testing and analysis.

### CHATILLON WEIGHING SCALES

8600 Somerset Drive  
Largo, FL 33773 U.S.A.  
Phone: +1 727-536-7831 or 800-527-9999 (U.S.A. only)  
Fax: +1 727-539-6882

*E-mail:* [chatillon.fl-lar@ametek.com](mailto:chatillon.fl-lar@ametek.com)  
[www.chatillon.com](http://www.chatillon.com)

CHATILLON mechanical weighing scales include Class III "Legal for Trade" hanging scales, bulk weighing scales, bench beam scales, autopsy scales, platform scales, fish & game scales, linear scales, mining scales, and crane scales up to 20,000 lbs.

### DAVENPORT POLYMER TESTING PRODUCTS

Steyning Way, Bognor Regis  
West Sussex PO22 9ST, UK  
Phone: +44 (0) 1243 833 370  
Fax: +44 (0) 1243 833 401

*E-mail:* [uk-far.general@ametek.co.uk](mailto:uk-far.general@ametek.co.uk)  
[www.lloyd-instruments.co.uk](http://www.lloyd-instruments.co.uk)

8600 Somerset Drive  
Largo, FL 33773 U.S.A.  
Phone: +1 727-536-7831 or 800-527-9999 (U.S.A. only)  
Fax: +1 727-539-6882

DAVENPORT polymer testing instruments, specified in many international testing standards, allows critical polymer parameters to be determined including melt flow index (MFI), melt flow rate (MFR), melt volume rate (MVR), intrinsic viscosity (IV) measurement of PRT resins and density measurement of solid materials. Our revolutionary PETPlus system is a ground-breaking alternative to the costly and hazardous solvent method for testing PET.

### NEWAGE TESTING INSTRUMENTS

820 Pennsylvania Boulevard  
Feasterville, PA 19053 U.S.A.  
Phone: +1 215-355-6900 • Fax: +1 215-354-1803

[www.hardnesstesters.com](http://www.hardnesstesters.com)

Newage supplies a broad range of hardness testers with unique features and a wide range of capabilities. Newage testing systems feature unique designs and options that provides users a solution specific to their testing needs.

Newage also specializes in providing custom solutions for in-process hardness testing which can range from oil pipe to plate metal. These systems feature full automation of the test surface area and provide a hardness reading for statistical process control and analysis. Newage also provides fully automated systems for case depth hardness analysis. It also provides a complete array of services including installation, calibration, repair, and phone support. Testing equipment includes Rockwell (regular and superficial scales), Brinell, Microhardness, Vickers (micro and macro), Knoop, Durometers, and IRHD.

### AMETEK CALIBRATION INSTRUMENTS

#### AMETEK DENMARK A/S

*Manufacturing and Sales of Calibration Instruments*

Gydevang 32-34  
3450 Allerød, Denmark  
Phone: +45-4816-8000 • Fax: +45-4816-8080

*E-mail:* [ametek@ametek.dk](mailto:ametek@ametek.dk)  
[www.ametekcalibration.com](http://www.ametekcalibration.com)  
[www.jofra.com](http://www.jofra.com)



# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

AMETEK Calibration Instruments is among the world's leading manufacturers of calibration instruments for temperature, pressure and process signals as well as for FP Temperature Sensors both from a commercial and a technological point of view. The company is located near Copenhagen, where it has R&D, production, sales, and service facilities.

AMETEK Calibration Instruments operates a worldwide network of sales and service offices in the United States, Singapore, China, Germany and the UK as well as through more than 70 distributors in over 50 different foreign countries.

## AMETEK CALIBRATION INSTRUMENTS

8600 Somerset Drive  
Largo, FL 33773 U.S.A.  
Phone: +1 727-536-7831 or 800-527-9999 (U.S.A. only)  
Fax: +1 727-539-6882

*E-mail:* [cal.info@ametek.com](mailto:cal.info@ametek.com)  
[www.ametekcalibration.com](http://www.ametekcalibration.com)  
[www.jofra.com](http://www.jofra.com)

AMETEK Calibration Instruments' product line includes primary standards, pneumatic deadweight testers, hydraulic deadweight testers, digital pressure calibrators, dial gauge comparators, digital handheld test systems, and pneumatic and hydraulic pumps, as well as all JÖFRA temperature, pressure and process calibrators.

AMETEK Calibration Instruments operates a worldwide network of sales and service offices in the United States, Singapore, China, Germany and the UK as well as through more than 70 distributors in over 50 different foreign countries.

## ◆ AMETEK POWER SYSTEMS & INSTRUMENTS ◆

### POWER INSTRUMENTS

255 North Union Street  
Rochester, NY 14605 U.S.A.  
Phone: +1 585-263-7700 • Fax: +1 585-262-4777

*E-mail:* [power.sales@ametek.com](mailto:power.sales@ametek.com)  
[www.ametekpower.com](http://www.ametekpower.com)

### GULTON-STATHAM PRODUCTS

A manufacturer of industrial pressure products, including draft range differential pressure transmitters, high-static differential pressure transmitters, and high-accuracy pressure transducers as well as mud density products and nuclear pressure products that include nuclear grade pressure transmitters.

### PANALARM

A manufacturer of annunciators, alarm management, and sequence of events recorders for electric utility and other industrial facilities.

### POWER & INDUSTRIAL PRODUCTS

A global leader in advanced monitoring, testing, calibrating, and display instruments, AMETEK Power Instruments offers global the electric power generation and distribution industry a growing array of advanced sensors, instruments, and monitoring systems. It also is a long-time supplier of temperature, pressure, speed, cable harness, and flame sensor products used by the electric and nuclear power industries.

### ROCHESTER INSTRUMENT SYSTEMS SCIENTIFIC COLUMBUS

A leading supplier of power measurement, power recording, power quality and alarm management products for electric utilities and industrial facilities. Its products include high-accuracy revenue meters for electric utility generation and transmission, commercial and industrial electric meters, transient and

fault recorder systems, alarm management systems, annunciators, sequence of events recorders, synchronized phasor measurement units, power quality monitors, power transducers, process signal conditioners and utility load management products. Complete system integration of these products into custom electronic cabinets for turnkey installations available.

### PULSAR PRODUCTS

4050 N.W. 121st Avenue  
Coral Springs, FL 33065 U.S.A.  
Phone: +1 954-344-9822 • Fax: +1 954-340-6676

*E-mail:* [sales.pulsar@ametek.com](mailto:sales.pulsar@ametek.com)

Pulsar Products include specialized communication equipment including communication fiber optic/access multiplexers and narrowband power-line carriers.

### PRESTOLITE POWER

2220 Corporate Drive  
Troy, OH 45373 U.S.A.  
Phone: +1 937-440-0800 • Fax: +1 937-440-0893

[www.prestolitepower.com](http://www.prestolitepower.com)

AMETEK Prestolite Power sets the industry standard for superior battery charging solutions for the motive power industry with more than 80 years of innovation, integrity, and excellence.

### PRESTOLITE SWITCH

255 North Union Street  
Rochester, NY 14605 U.S.A.  
Phone: +1 585-263-7700 or 800-843-5169 (U.S.A. only)  
Fax: +1 585-454-7805

[www.powerandswitchproducts.com](http://www.powerandswitchproducts.com)

AMETEK Prestolite Switch manufactures high-quality contactors and solenoids for defense, telecommunications equipment, Uninterruptible Power Supplies (UPS), vehicular, and other high dependency applications. Standard DC contactor products range from 80 to 2000 amps, enclosed contactors, mil spec designs and contactor spares. High-performance solenoids are specifically designed for use in engine starting, hydraulic pump, diesel engine glow plug, marine, winch and traction motor applications.

### SOLIDSTATE CONTROLS

875 Dearborn Drive  
Columbus, OH 43085-1596 U.S.A.  
Phone: +1 614-846-7500 • Fax: +1 614-885-3990

[www.solidstatecontrolsinc.com](http://www.solidstatecontrolsinc.com)

Solidstate Controls focuses on serving industrial process and power generating clients and has more than 35,000 systems installed throughout the world, including more than 85 nuclear power plants worldwide. Solidstate Controls manufactures highly customized inverters and UPS systems that its customers use to ensure a steady supply of clean power to keep their critical processes functioning properly. These critical processes typically involve harsh environments and have a correspondingly high cost of failure. Another product line includes CellRx battery management systems. Key markets for its products include oil production and refining, chemical and petrochemical processing, and steel and power generation (including fossil fuel and nuclear power utilities).



# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

## HDR POWER SYSTEMS

3563 Interchange Road  
Columbus, OH 43204 U.S.A.  
Phone: +1 614-308-5500 • Fax: +1 614-308-5506

**E-mail:** [info@hdrpower.com](mailto:info@hdrpower.com)  
[www.hdrpower.com](http://www.hdrpower.com)

AMETEK HDR Power Systems is among the world leaders in SCR Power Controllers, Power Controller Systems, and custom AC and DC Power Supplies for industrial heating and glass manufacturing, as well as other specialized applications. Its clients rely on its expertise to insure that the solution matches their requirements. Its engineering consulting provides clients with the level of confidence and competence they need to make their jobs easier. Its reputation is built on long-term commitment to product quality, service and, most of all, clients' successes.

## ◆ AMETEK PROCESS & ANALYTICAL INSTRUMENTS ◆

### CHANDLER ENGINEERING

*Drilling and Completion Products*

2001 North Indianwood Avenue  
Broken Arrow, OK 74012-1163 U.S.A.  
Phone: +1 918-250-7200 • Fax: +1 918-459-0165

**E-mail:** [chandler@chandlereng.com](mailto:chandler@chandlereng.com)  
[www.chandlerengineering.com](http://www.chandlerengineering.com)

Chandler Engineering manufactures oil field test equipment, including high-pressure and high-temperature (HPHT) cement consistometers, ultrasonic cement analyzers and a wide variety of fluid property instruments for drilling, fracturing, stimulation, and reservoir fluids. Its phase behavior PVT systems are widely used to further understand reservoir fluid characteristics and optimize production. Specialized oil field simulation systems include formation damage testers, drilling fluid simulators, and testers for drilling penetration rates. The Quizix pulse-free, high-precision, metering pumps are used in determining the flow of multiphase fluids through the reservoir. Chandler Engineering designs products to comply with applicable API and ISO specifications as well as participates in the development of industry standards.

### GRABNER INSTRUMENTS

Dr. Otto Neurath Gasse 1  
A-1220 Wien, Austria  
Phone: +43 1 282 16 27-0 • Fax: +43 1 280 73 34

[www.grabner-instruments.com](http://www.grabner-instruments.com)

Grabner Instruments produces a variety of highly innovative, fully automated on-line and portable laboratory petroleum testing instruments for vapor pressure, flash point, fuel analysis, distillation, viscosity, color, biofuel content, sulfur, water concentration, and mobile fuel analysis labs.

### LAND INSTRUMENTS

Stubley Lane - Dronfield  
Derbyshire S18 1DJ, UK  
Phone: +44 (0) 1246 417691 • Fax: +44 (0) 1246 4108585

**E-mail:** [infrared.sales@landinst.com](mailto:infrared.sales@landinst.com)  
[www.landinst.com](http://www.landinst.com)

### AMETEK LAND, Inc.

150 Freeport Road  
Pittsburgh, PA 15238 U.S.A.  
Phone: +1 412-826-4444 • Fax: +1 412-826-4460

**E-mail:** [irsales@ametek.com](mailto:irsales@ametek.com)  
[www.landinst.com](http://www.landinst.com)

LAND Instruments is a world-leading specialist in the manufacture of monitors and analyzers for industrial infrared temperature measurement, combustion efficiency and environmental pollutant emissions. Its infrared temperature measurement product range includes on-line thermometers and systems, portable infrared thermometers, thermal imagers, and infrared linescanners. Its combustion and environmental monitoring products range include combustion efficiency monitors, stack gas emissions analyzers, portable gas analyzers, coal-fire detection systems, and turbine blade temperature monitoring.

### AMETEK PETROLAB COMPANY

*North American Sales, Calibration and Service Facility for Analytical Testing Instrumentation*

2001 North Indianwood Avenue  
Broken Arrow, OK 74012 U.S.A.  
Phone: +1 918-459-7170 • Fax: +1 918-459-7178

**E-mail:** [petrolab.sales@ametek.com](mailto:petrolab.sales@ametek.com)  
[www.petrolab.com](http://www.petrolab.com)

AMETEK Petrolab Company provides local, North American sales and support services for the products manufactured by Petrolab and Grabner Instruments. Petrolab also is a leading supplier of testing instruments and accessories for petroleum (oil, fuel, biodiesel, lubricants, bitumen) and petrochemical (including flavors and fragrances). It has a wide range of heated and refrigerated baths and ovens, salts-in-crude oil and conductivity testers, ASTM glassware, thermometers, hydrometers, distillation testers, and color analyzers.

### PROCESS INSTRUMENTS

150 Freeport Road  
Pittsburgh, PA 15238 U.S.A.  
Phone: +1 412-828-9040 • Fax: +1 412-826-0399

[www.ametekpi.com](http://www.ametekpi.com)

AMETEK Process Instruments is a leader in process analyzers and instrumentation. Its Pittsburgh facility manufactures THERMOX combustion efficiency analyzers, clean gas trace oxygen analyzers, DYCOR mass spectrometers, residual gas analyzers, and the ProLine and ProMaxion series of process mass spectrometers. THERMOX offers a complete range of flue gas and oxygen analyzers for measuring oxygen, combustibles, methane, and fuel-rich atmospheres. Its Model 5100 NCM Non-Contact Moisture Analyzer uses tunable diode lasers to measure gas phase species such as moisture in natural gas. Industries served include power generation, industrial heating, chemical manufacturing, semiconductor fabrication, pharmaceutical research and production, glass manufacturing, continuous emissions monitoring, among others.

### PROCESS INSTRUMENTS

455 Corporate Boulevard  
Newark, DE 19702 U.S.A.  
Phone: +1 302-456-4400 or 800-222-6789 (U.S.A. only)  
Fax: +1 302-456-4444

[www.ametekpi.com](http://www.ametekpi.com)

Products manufactured by its Newark facility include a full range of on-line process moisture analyzers, TRACE ANALYTICAL gas chromatographs, and several of WESTERN RESEARCH photometric analyzers, including the IPS-4 UV/Vis and NIR systems. Applications include power generation, pharmaceuticals, chemical manufacturing, semiconductor fabrication and many others.



# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

## PROCESS INSTRUMENTS

2876 Sunridge Way N.E.  
Calgary, AB T1Y 7H9 Canada  
Phone: +1 403-235-8400 • Fax: +1 403-248-3550

[www.ametekpi.com](http://www.ametekpi.com)

Products manufactured by the Calgary facility include WESTERN RESEARCH photometric analyzers. The industries served include sulfur recovery, natural gas processing, atmospheric, UHP gas production, pulp and paper production, and continuous emissions monitoring, among others. The Calgary facility specializes in the integration of multiple analyzers to provide a complete process analysis solution.

## SOLARTRON ISA

Hackworth Industrial Park, Shildon,  
County Durham, DL4 1LH, UK  
Phone: +44 (0) 1388 773065 • Fax: +44 (0) 1388 774888

*E-mail:* [sales.solartronisa@ametek.com](mailto:sales.solartronisa@ametek.com)  
[www.solartronisa.com](http://www.solartronisa.com)

Solartron ISA is a leading supplier of flow, fluid analysis, pressure, and temperature measurement solutions for wet gas and single-phase well and pipeline monitoring. Solartron ISA specializes in engineering its instruments for subsea, ultra-deepwater applications. Its complete product range also includes primary flow elements and orifice plates.

## ◆ AMETEK PROGRAMMABLE POWER ◆

9250 Brown Deer Road  
San Diego, CA 92121 U.S.A.  
Phone: +1 858-450-0085 • Fax: +1 858-458-0267

[www.programmablepower.com](http://www.programmablepower.com)

AMETEK Programmable Power is global leader in the manufacture of precision, programmable power supplies for R&D, test and measurement, process control, power bus simulation and power conditioning applications across diverse industrial segments. From benchtop supplies to rack-mounted industrial power subsystems, AMETEK Programmable Power produces SORENSEN, ARGANTIX and POWERTEEN DC supplies ranging from 30W to 150kW; Elgar and California Instruments programmable AC sources from 800VA to 480kVA, and SORENSEN AC/DC loads in both modular and high-power models.

## ◆ AMETEK TECHNICAL & INDUSTRIAL PRODUCTS ◆

627 Lake Street  
Kent, OH 44240 U.S.A.  
Phone: +1 330-673-3452 • Fax: +1 330-677-3306

[www.ametektip.com](http://www.ametektip.com)

AMETEK Technical & Industrial Products is a leading global supplier of brush and brushless DC motors, pumps, controllers, blower systems, and ROTRON regenerative blowers for a wide range of applications. Its design expertise, exceptional customer service, and state-of-the-art ISO 9002 manufacturing enables TIP to provide high-quality custom-designed products in cost-effective packages. Its brands include ROTRON blowers and pumps, MICROJAMMER, MINIJAMMER, MINISPIRAL and WINDJAMMER blowers, PITTMAN and MAE motors, and NAUTILAIR combustion blowers.

## ◆ AMETEK ULTRA PRECISION TECHNOLOGY ◆

### PRECITECH

44 Blackbrook Road  
Keene, NH 03431 U.S.A.  
Phone: +1 603-357-2511 • Fax: +1 603-358-6174

*sales@precitech.com*  
[www.precitech.com](http://www.precitech.com)

Precitech manufactures ultra-precision diamond machining systems for single-point diamond turning, precision grinding and diamond milling of spherical, aspheric and non-axis symmetric (freeform) optics, optical molds and precision mechanical components. It also provides metrology systems for form measurement and associated OEM components.

### SOLARTRON METROLOGY

Steyning Way, Bognor Regis,  
West Sussex, PO22 9ST, UK  
Phone: +44 (0) 1243 833333 • Fax: +44 (0) 1243 833332

*E-mail:* [sales@solartronmetrology.com](mailto:sales@solartronmetrology.com)  
[www.solartronmetrology.com](http://www.solartronmetrology.com)

Solartron Metrology is a world leader in precision dimensional and position measurement transducers and instrumentation. Solartron analog and digital gauge probes and displacement transducers are renowned for their accuracy and long life in shop floor applications worldwide. Linear encoders offer accuracies to 0.4µm with measuring ranges to 100mm.

### TAYLOR HOBSON

PO Box 36, 2 New Star Road  
Leicester, LE4 9JQ, UK  
Phone: +44 (0)116 276 3771 • Fax: +44 (0)116 246 0579

1725 Western Drive  
West Chicago, IL 60185 U.S.A.  
Phone: +1 630-621-3099 • Fax: +1 630-231-1739

*E-mail:* [sales@taylor-hobson.com](mailto:sales@taylor-hobson.com)  
[www.taylor-hobson.com](http://www.taylor-hobson.com)

Taylor Hobson products are grouped into three generic families based on the type of measurement. Surface, form and texture products consist of contact and non-contact instruments for the measurement of surface finish, form and contour of components in both 2D and 3D. Roundness instruments are used for measuring circular geometries such as roundness, concentricity, runout, cylindricity, coaxiality and other parameters. Alignment instruments are electro-optical instruments for alignment, flatness, angle, squareness, parallelism, straightness and twist measurement. Taylor Hobson offers products tailored to specific applications such as automotive, bearings, optics, hard disk, MEMS and semiconductors.



# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

## AMETEK AMT

ORTEC SALES IN UK

Advanced Measurement Technology  
Unit 1, Millars Business Centre  
Fishponds Close, Wokingham, Berkshire, RG41 2TZ, UK  
Phone: +44 (0) 118 936 1210 • Fax: +44 (0) 118 936 1211

[www.ortec.uksales@ametek.co.uk](http://www.ortec.uksales@ametek.co.uk)

## AMETEK CAMECA Instruments Japan K.K.

SALES AND SERVICE FOR CAMECA PRODUCTS IN JAPAN

8F, Mikuni-East Building  
6-13-10, Soto-Kanda, Chiyoda-ku  
Tokyo, 101-0021, Japan  
Phone: +81-3-6831-6111 • Fax: +81-3-6831-6112

[www.cameca-japan.info@ametek.co.jp](http://www.cameca-japan.info@ametek.co.jp)

## AMETEK CAMECA Korea

SALES AND SERVICE FOR CAMECA PRODUCTS IN KOREA

#309, 3rd Floor, Gyeonggi R&DB Center  
906-5 Iui-dong, Yeongtong-gu, Suwon-city  
Gyeonggi-do, Korea, 443-270  
Phone: +82-31-888-5225 • Fax: +82-31-888-5228

## AMETEK CAMECA GmbH

SALES AND SERVICE FOR CAMECA PRODUCTS IN GERMANY

Carl-von-Linde-Str. 42  
85716 Unterschleissheim, Germany  
Phone: + 49 (89) 315 891 0  
Fax: + 49 (89) 315 891 99

## AMETEK CAMECA Taiwan Co., Ltd.

SALES AND SERVICE FOR CAMECA PRODUCTS IN TAIWAN

A2, 10F-6, No. 120, Sec. 2  
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30072, Taiwan, R.O. China  
Phone: +886-3-575-0099 • Fax: +886-3-575-0799

## AMETEK Commercial Enterprise (Shanghai) Co. Ltd.

BEIJING BRANCH

Room 2202, CITIC Building  
No. 19, Jian Wai Dajie  
Beijing, 100004, China  
Phone: +86-10-8526-2111 • Fax: +86-10-8526-2338

[www.ametek.com.cn](http://www.ametek.com.cn)

## AMETEK Commercial Enterprise (Shanghai) Co. Ltd.

CHENGDU BRANCH

Room 2408, Zongfu Building,  
No. 35, Zongfu Road  
Chengdu, 610016, Sichuan, China  
Phone: +86-28-8675-8111 • Fax: +86-28-8675-8141

## AMETEK Commercial Enterprise (Shanghai) Co. Ltd.

GUANGZHOU BRANCH

Room 1412, Yian Plaza  
No. 33, Jian She Liu Ma Road  
Guangzhou, 510060, China  
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## AMETEK Commercial Enterprise (Shanghai) Co. Ltd.

SHANGHAI BRANCH

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## AMETEK do Brasil Ltda

SALES FOR FLOOR CARE & SPECIALTY MOTORS

Rua Ettore Soliane, 490  
Distrito Industrial Nova Era  
13347-394 Indaiatuba-SP-Brazil  
Phone: +55-19-3825-8775 • Fax: +55-19-3935-8773

*E-mail:* [vendas@ametek.com.br](mailto:vendas@ametek.com.br)  
[www.ametek.com.br](http://www.ametek.com.br)

## AMETEK EDAX Europe

SALES FOR EDAX PRODUCTS IN EUROPE

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P.O. Box 4144  
5004 JC Tilburg, Netherlands  
Phone: +31-13-536-4000 • Fax: +31-13-535-6279

## AMETEK EDAX Germany

AMETEK GMBH C/O EDAX BUSINESS UNIT

Kreuzberger Ring 6  
D-65205 Wiesbaden, Germany  
Phone: +49-611-97304-50 • Fax: +49-611-97304-55

## AMETEK EDAX Japan K.K.

SALES FOR EDAX PRODUCTS IN JAPAN

13-31 Kohnan 2 Chome  
Minato-ku  
Tokyo, 108-0075, Japan  
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[www.edax.co.jp](http://www.edax.co.jp)

## AMETEK elektromotory s.r.o.

ul. Beloveska 318  
Nachod, 54701, Czech Republic  
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# GLOBAL MANUFACTURING, SALES, AND SERVICE OPERATIONS

## AMETEK GmbH

SALES IN EUROPE

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D-40670 Meerbusch, Germany  
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[www.ametek.de](http://www.ametek.de)

## AMETEK Hong Kong Representative Office

SALES IN HONG KONG

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1 On Yip Street  
Chaiwan, Hong Kong  
Phone: +852-2976-9162 • Fax: +852-2976-9132

[www.ametek.com.hk](http://www.ametek.com.hk)

## AMETEK Instruments India Private Ltd.

Plot 148, EPIP Zone. Phase 2  
FeatherLite Tech Park  
Whitefield, Bangalore 560066, India  
Phone: +91-80-6782-3200 • Fax: +91-80-6782-3232

## AMETEK Italia S.r.l. – Ciaramella

SALES FOR GLOBAL SPECIALTY MOTORS

Via De Barzi  
Robecco Sul Naviglio 20087  
Milan, Italy  
Phone: +39-02-946931 • Fax: +39-02-94970518

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Printed in the U.S.A. 5M1209A (010193)