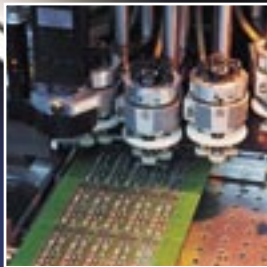


TURNING IDEAS INTO ENGINEERED SOLUTIONS

KAYDON[®]





“Enhancement of our strong competitive position is based upon product quality, innovation and customer service...”

— Kaydon Corporation, 2004 Annual Report

We succeed only when you succeed, with innovative, value-adding Kaydon products and services that give you sustainable advantages in your own highly competitive markets.



Friction Control Products

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PURAFIL®, INC.
TRIDAN® INTERNATIONAL, INC.
INDIANA PRECISION, INC.
CANFIELD® TECHNOLOGIES, INC.

Kaydon® Bearings



Kaydon Bearings Division manufactures large and small custom bearings which optimize customers' equipment performance and cost-effectiveness.

- Reali-Slim® thin-section bearings
- Turntable bearings
- Custom ball bearings
- Custom roller bearings

Since 1941, Kaydon has manufactured large and small bearings in standard and custom configurations for a broad range of applications and industries. Kaydon has a library of proven bearing designs, concepts, and advanced manufacturing techniques to solve your problems — with either standard or custom bearings. Custom bearings are designed to meet customers' specific needs for optimized, cost-effective equipment performance.

As the world's largest manufacturer of thin-section bearings, Kaydon sets the industry standard for thin-section bearings with REALI-SLIM® bearings, offering thin section, low profile, light weight, small cross-section, simplified design, long life, and reduced manufacturing costs.

Reali-Slim bearings are ideal for applications in aviation, aerospace, robotics, machine tools, semiconductor manufacturing and medical equipment, and anywhere a lighter, thinner bearing is required. These bearings are available in different radial sections up to 40-inch diameters — from stock, and larger on a made-to-order basis.

Turntable bearings are a Kaydon specialty. Typical applications include swing bearings (slewing rings) for cranes, excavators, aerial work platforms, gun turrets, radar pedestals, forestry equipment, surveillance equipment, scanner equipment, and material handling equipment. RK Series turntable bearings are pre-engineered and available from stock for light- to medium-duty applications. For even greater load handling capabilities, Kaydon offers the MT Series of heavy-duty turntable bearings.

For turntable designs requiring smaller size and less weight, Kaydon offers new-generation REALI-SLIM TT™ Series bearings, providing design flexibility, fast installation and change-out, greater accuracy, and the ability to withstand harsh operating environments.

Kaydon's broad product line offering can also incorporate many special bearing features such as integral gearing or sprockets, through-drilled or tapped mounting holes and contact seals. These simplify the job of the equipment designer, reduce manufacturing costs, and ensure long life.

Quality management systems and process compliance include: AS9100, ISO9001:2000; Nadcap accreditation. Continuous improvement processes include JIT Lean and Six Sigma initiatives.

Cooper® Split Roller Bearings

Cooper Split Roller Bearing Group manufactures split-to-the-shaft roller bearings, which are used by heavy industry worldwide in a range of demanding applications and hostile environments. Where Cooper scores major success is in the difficult access areas of trapped bearing locations, and where customers are experiencing unacceptable lubrication loss with their current bearing.

Cooper bearings provide end users with the opportunity to maximize operational savings by cutting downtime and in turn increasing uptime and productivity. In addition, Cooper superior sealing provides optimum operational bearing life by retaining lubrication and keeping out contaminants regardless of the operational environment.

Cooper offers a broad range of standard products; Medium Duty 01 Series, Heavy Duty 02 Series and Extra Heavy Duty 03 Series. These three series meet most industry requirements with a comprehensive selection of housings which meet most application requirements. Standard product is held in stock in the United States and the United Kingdom and is available within 24 hours from a network of authorized distributors. Cooper also has a global network of authorized distributors with local inventory to serve industrial nations around the world.

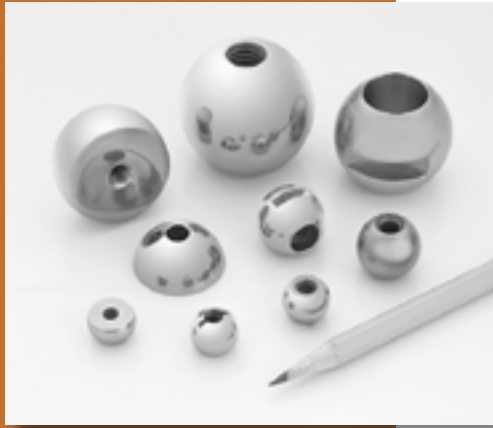
For applications that are not suitable for our standard products, Cooper offers made-to-order solutions with all the features of the standard product line. For individual applications that require more specialized solutions, Cooper also manufactures flat thrust roller bearings, solid bearings and eccentric bearings. Exceptional product quality is backed by ISO 9001:2000 accreditation which ensures manufacturing to the highest standards.

The overall Cooper product-and-service offering includes on-site engineering support and application support, an information-rich website at CooperBearings.com which provides product and application information in English, Chinese, French, German and Spanish. All are downloadable from CooperBearings.com. The e-business capability is bolstered within the US by a fully functional e-commerce store at PTplace.com.

The total Cooper offering enables customers to improve their bottom-line performance from the time of installation and throughout the life of the bearing.



Industrial Tectonics



Industrial Tectonics Inc manufactures specialty high-precision balls from .005" to 10" diameter, which are ideal for applications ranging from petrochemical to the nuclear industry. ITI® maintains the world's largest selection of stock specialty balls and can also custom-manufacture from hundreds of materials to a customer's specifications.

- Specialty metal balls
- Ceramic and glass balls
- Engineered plastic and rubber balls
- Gauging and measurement products
- Hollow balls and ball transfer units
- Modified balls

Materials include tungsten carbide, cobalt alloys, Hastelloy®, K-Monel, stainless steel (316/440C), tool and chrome alloy steel, "exotic" metals, ceramics, zirconia, sapphire, nylon, Delrin, polyester/PBT, plastics, and glass. Major applications include valves and pumps, instrumentation and gauges, medical devices, customer products, and automotive uses.

Hastelloy is a trademark of Haynes International



Kaydon® Ring & Seal, Inc.

Kaydon Ring & Seal manufactures piston rings, dynamic seals and static seals for the most demanding applications.

Aerospace turbine engine seals are engineered to seal main shaft bearing compartments, for more efficient and environmentally sound operation. We manufacture face and circumferential seals which set quality and performance standards for many commercial and military engines.

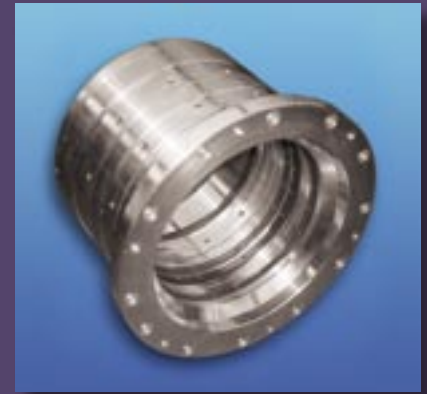
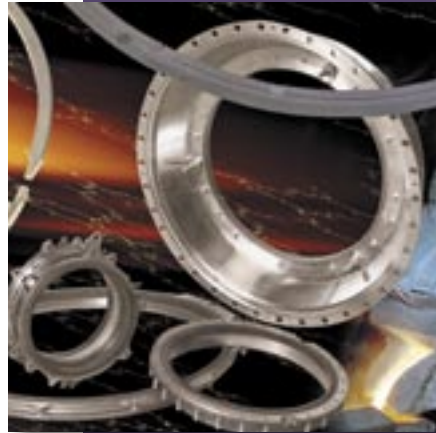
Aerospace sealing rings are designed to handle the high temperatures and pressures of specific commercial and military aircraft applications, including turbine engines, auxiliary power units, valves, actuators, and environmental control systems. Rings are available in a selection of metallic and non-metallic materials with locking or non-locking joints. Our years of manufacturing and application experience ensure consistently high-quality sealing rings, engineered with the correct materials, coatings and configurations necessary to meet the most stringent aerospace requirements.

E-KON® lockstep sealing rings combine locking capability, sealing performance and economy. Known for low leakage, they perform well in sealing environments from cryogenic temperatures to +1500° F, from near-static dithering through rapid reciprocating and rotating motion, and from pressure differentials of a few inches of water to thousands of pounds per square inch.

Industrial shaft seals are designed to seal centrifugal compressor shafts in the refining, petrochemical and natural gas markets as well as other rotating equipment applications. Products include the Dryplex® tandem dry gas face seals with integrated circumferential barrier seal, K-MRC multi-ring circumferential dry seal, K-MOS face and bushing oil seals, K-BOS pumping bushing oil seals, and K-CBS barrier seals. Kaydon Ring & Seal has pioneered many innovations in compressor sealing technology and is well known for the service and support it provides for customers.

Reciprocating engine piston rings can be designed for virtually every load, temperature, firing pressure and RPM. Available in bore sizes from 4" to 36", they offer a wide variety of mechanical and physical properties to fit the specialized needs of engine builders and operators. Applications include locomotive and marine diesel engines, reciprocating gas engines and reciprocating aircraft engines.

PTFE ring and seal performance is based upon a proprietary K-30 family of copolymers formulated with selected fillers including glass, carbon graphite and bronze. Their diverse mechanical properties and wear resistance make them ideal for a wide variety of hydraulic, pneumatic and other sealing applications.



ACE® Controls, Inc.



ACE Controls, Inc. has been recognized for over forty years as the world leader in deceleration technology. The extensive and proven product lines of ACE Controls have been designed to decelerate loads, prevent impact damage, dampen noise, increase cycle speeds, and improve product performance.

Available in self-compensating and adjustable models, ACE Controls miniature industrial shock absorbers offer high-energy absorption in confined spaces. Applications for this versatile line include: small linear slides, small robotics, material handling and packaging equipment, medical equipment, instrumentation, and machine tools.

Magnum® Series middle bore industrial shock absorbers offer up to 390% of the effective weight capacity and up to 150% of the energy per cycle of previous models. Applications include: automotive manufacturing and production equipment, large robotics, conveyors, packaging and glass bottling equipment, theme park rides, and lumber industry equipment.



Large-bore industrial shock absorbers have been designed for extremely heavy-duty applications, such as foundry, steel, marine, lumber, and other heavy equipment.

ACE stacker crane shock absorbers (SCS Series) improve the performance and safe operation of equipment, such as automated storage and retrieval systems, automotive manufacturing and production equipment, and theme park rides.

Industrial crane bumper shock absorbers have been designed for the improved performance and emergency deceleration of large industrial equipment. Applications include overhead cranes, conveyors, turntables, dockside equipment, foundries, elevators, and lumber mills, as well as offshore rigs and bridges.



ACE VC precision feed controls provide exact speed control for machine motion, and are self-contained, leak-proof and maintenance-free. Applications include: saws, cutters, drill feeds, and grinding and boring machines in the plastics, metal, wood, and glass industries.

DVC dual velocity hydraulic speed/feed controls are self-contained, maintenance free, sealed units engineered to solve automated control and velocity damping problems in pick and place automation equipment, drill and tapping equipment, machine slides and guards, lids, swinging loads, and tooling fixtures.

NuCushion® eliminates the need for the bleed needle assembly, cushion spud and spud seal in pneumatic cylinders, while providing quiet, adjustment-free operation and significantly reducing cylinder reaction forces.



Flairline® pneumatic and hydraulic round body cylinders, NFPA interchangeable round body cylinders, heavy-duty NFPA tie rod cylinders, and powered slides provide dependable service for a broad range of in-plant and mobile equipment applications.

Kaydon® Custom Filtration



Kaydon Custom Filtration Corporation is a premier provider of fluid filtration products, committed to earning every customer's business through individualized, customized filtration solutions, direct access to first-rate technical expertise and innovations in filtration system and filtration element design. We strive to consistently deliver a unique combination of cost-effective manufacturing, proven performance, long-term value, and outstanding service.

Provider

KCFC is a pioneer in the development of turbine oil conditioners, as well as filtration, separation, coalescing and vacuum dehydration systems and elements. Our product family has expanded from turbine oil conditioning and filtration in power generation facilities to include filtration of: EHC fluids in power plants; electric utility transformer oils; oil and fuel in petrochemical refineries; compressor lubricants in air conditioning & refrigeration markets; fuel and oil for heavy industrial equipment and military HUMVEEs and M1 tanks; and oil and fuel applications in steel mills, pulp and paper mills, mining facilities, and other industrial manufacturing facilities. KCFC systems and elements are found in over 60% of power plants in the US.

KCFC's greatest strength is our commitment to individualized, engineered customer solutions, providing innovative, targeted fluid separation technologies to meet their specific application's needs and add value. Dedicated to helping our users obtain maximum equipment lifespan and efficiency, KCFC provides filtration technology that combines quality materials with skilled workmanship to ensure consistent product performance.

Leader

KCFC is committed to leadership in fluid separation technology. From our beginnings as Bowser-Briggs® and Keene® Filtration, KCFC has continually defined and advanced fluid separation technology. We began by engineering and manufacturing industrial filtration products, and have gradually expanded into diverse fluid separation applications that comprise our current product families. We emphasize research and development and continuous improvement processes, such as Six Sigma and Lean Manufacturing, and we continue to strengthen our product quality, performance standards and long-term customer partnerships.

Partner

Developing collaborative partnerships with our customers sets KCFC apart. When customers select a KCFC filtration product, they establish a relationship with a partner who makes their success the primary objective. KCFC representatives work closely with customers to establish channels of communication that help uncover their particular needs and application requirements. We pride ourselves on the depth, strength, and longevity of our customer partnerships. Collaborating with customers to find optimum solutions is good business for them and good business for KCFC.

Purafil, Inc. has been the world leader for over 30 years in the development and manufacture of gas-phase air filtration systems for clean-air solutions in numerous markets and applications. Purafil systems prevent corrosion of process control equipment in petrochemical refineries, pulp mills, and chemical plants; improve indoor air quality and allow for energy conservation in schools, hospitals, and office buildings; ensure the safe preservation of artifacts in museums, libraries, and archives; assess and eliminate microscopic contaminants in cleanrooms; and protect people and the environment from airborne pollution in water and wastewater treatment applications.

Corrosion Control Technology

Purafil systems provide clean environments for sensitive electronics, protecting against premature repairs, failures, and lost revenues. In addition, Purafil's OnGuard[®] Monitors measure in real time atmospheric corrosion levels and gauge the effectiveness of pollution control strategies.

Indoor Air Quality Control and Energy Savings

Highly polluted outside air and indoor sources of pollution, such as building materials, furnishings and the occupants themselves, contribute to poor indoor air quality. Purafil systems eliminate odors and gaseous irritants from return, makeup and supply airstreams. Purafil also offers Enersave[™], an energy conservation program which reduces outside air requirements for capital and operational cost-savings.

Preservation of Art and Archives

Purafil systems prevent the infiltration of destructive gaseous pollutants, ensuring a safe environment for the storage and display of valuable archives, works of art and priceless collections.

Cleanroom Contamination Control

Purafil offers a comprehensive control program for cleanrooms, which includes on-site assessment of Airborne Molecular Contamination (AMC) severity, filtration of AMC with Purafil gas-phase systems, and verification of control methods in real time with Purafil's OnGuard monitoring instrumentation.

Water-Wastewater Pollution Control

Established in 1987, Purafil Environmental Systems Division is the leading manufacturer of dry-chemical media and scrubbers that eliminate odors from sewage collection and processing operations, prevent hazardous chemical releases and improve process reliability.

Ethylene Control

For the handling and storage of flowers and produce, Purafil media and recirculation air systems effectively reduce ethylene gas concentrations to below threshold levels. By slowing down the natural decay process, Purafil maintains the quality and extends the life of floral commodities and produce.



Tridan® International, Indiana Precision & Canfield® Technologies

Tridan International, Inc. is a global leader in the design and supply of machinery for the production of evaporator and condenser coils used in manufacturing air conditioning and refrigeration systems.

FIN PRODUCTION – Tridan designs and manufactures a complete line of fin stamping presses, dies, and end sheet dies to meet the exacting requirements of low-, medium- and high-volume producers.

TUBE PRODUCTION – Tridan offers a wide selection of quality tube bending and straightening machines, including hairpin benders, dual 90 degree crossover benders and straightening cut-to-length lines.

COIL EXPANSION – Tridan's versatile line of tube expansion and sizing machines provides both precision and operational ease. All Tridan expanders incorporate expanding heat exchanger tubes with precise internal diameters, forming a secure mechanical bond between each tube and fin.

DESIGN CAPABILITIES – Tridan designs and builds machines that improve the art of coil making by solving manufacturing problems through quality, craftsmanship and design ingenuity.

Indiana Precision is a specialty machine shop with expertise in manufacturing ultra-precision, high-performance small components and tools. These are typically used in compression molding, chemical processing and in tooling for cold heading or high-speed stamping applications.

Canfield Technologies, Inc. has a manufacturing heritage that dates back to 1844. The company is recognized as a leading producer of fine solders, fluxes, brazing alloys, brazing rods, tinning paints, and accessories. The company's solders and brazing alloys meet the most demanding applications, including electronics, plating, jewelry, stained glass, plumbing, industrial OEM and MRO, and automotive.

Canfield Technologies is also known for pioneering the development and application of environmentally safe, lead-free solders, fluxes, and industrial alloys for all industries. To meet customers' specific needs, the company offers bars, solid wire, cored wire (acid and rosin), preforms, ribbon, washers, spheres, and paste. Custom alloys can also be provided.

Canfield Technologies supports its customers with technical product and application services and expert advice, along with nationwide distribution to ensure fast, local availability. The company is ISO9001 registered.

Bow® Electronics products are known for their consistently high performance in quality-critical electronic applications. One of the newest Bow Electronics innovations is high-precision copper spheres. Produced by a proprietary process which eliminates surface cracks and craters, the copper spheres are perfectly round to provide a narrower process window and improve reliability. They are an ideal replacement for traditional lead and tin alloys.





For more information on how any of the Kaydon product families described here can help you turn your design problems into engineered solutions, phone, fax, write, or Email us at the appropriate locations listed. You will find we're eager to help.

Corporate Headquarters

Kaydon Corporation
315 East Eisenhower Parkway
Suite 300
Ann Arbor, Michigan 48108 U.S.A.
Phone: 734-747-7025
Fax: 734-747-6565
Website: www.kaydon.com

Kaydon North America

Bearings Division

Kaydon Corporation
2860 McCracken Street
Muskegon, Michigan 49441 U.S.A.
Phone: 231-755-3741
Fax: 231-759-4102
Email: bearings@kaydon.com
Website: www.kaydonbearings.com

Tridan International, Inc.

130 N. Jackson Street
P.O. Box 537
Danville, Illinois 61832-0537 U.S.A.
Phone: 217-443-3592
Fax: 217-443-3894
Email: info@tridan.com
Website: www.tridan.com

Indiana Precision, Inc.

1201 E. Elmoro Street
Crawfordsville, Indiana 47933 U.S.A.
Phone: 765-361-0247
Fax: 765-361-1538
Email: jdenman@kaydon.com
Website: www.in-precision.com

The Cooper Split Roller Bearing Corp.

5365 Robin Hood Rd. Ste. B
Norfolk, Virginia 23513 U.S.A.
Phone: 757-460-0925
Fax: 757-464-3067
Email: cooperbearings@kaydon.com
Website: www.cooperbearings.com

Ring & Seal

Kaydon Ring & Seal, Inc.
1600 Wicomico Street
Baltimore, Maryland 21230 U.S.A.
Phone: 410-547-7700
Fax: 410-576-9059
Email: ringandseal@kaydon.com
Website: www.kaydonringandseal.com

Filtration

Kaydon Custom Filtration Corporation
1571 Lukken Industrial Drive W.
LaGrange, Georgia 30240 U.S.A.
Phone: 706-884-3041
Fax: 706-883-6199
Email: filtration@kaydon.com
Website: www.kaydonfiltration.com

Purafil, Inc.
2654 Weaver Way
Doraville, Georgia 30340 U.S.A.
Phone: 1-800-222-6367
Fax: 770-263-6922
Email: meredithchristiansen@purafil.com
Website: www.purafil.com

Industrial Tectonics Inc

7222 W. Huron River Drive
Dexter, Michigan 48130 U.S.A.
Phone: 800-482-2255 or 734-426-4681
Fax: 734-426-4701
Email: itiball@kaydon.com
Website: www.itiball.com

ACE Controls, Inc.

23435 Industrial Park Drive
Farmington Hills, Michigan 48335 U.S.A.
Phone: 800-521-3320
Fax: 248-476-2470
Email: shocks@acecontrols.com
Website: www.acecontrols.com

Flairline

An affiliate of ACE Controls Inc.
23435 Industrial Park Drive
Farmington Hills, Michigan 48335 U.S.A.
Phone: 248-478-3330
Fax: 248-478-3321
Email: flairline@acecontrols.com
Website: www.flairline.com

Canfield Technologies, Inc. and Bow Electronics

1 Crossman Road
Sayreville, New Jersey 08872 U.S.A.
Phone: 732-316-2100
Fax: 732-316-2177
Email: bmcintire@kaydon.com
Website: www.solders.com

Kaydon Europe

Cooper Roller Bearings Company Limited

Wisbech Road King's Lynn
Norfolk PE30 5JX
United Kingdom
Phone: 011-44-1-553-763447
Fax: 011-44-1-553-761113
Email: cooperbearingsuk@kaydon.com
Website: www.cooperbearings.com

Cooper Getelite Rollenlager GmbH

Postfach 100 423
Oberbenrader Str 407
47704 Krefeld
Germany
Phone: 011-49-2151-713016
Fax: 011-49-2151-713010
Email: coopergermany@kaydon.com

Global Sales Locations

R.A. Rodriguez, Inc.
20 Seaview Blvd.
Port Washington, New York 11050
Phone: 516-625-8080
Fax: 516-621-2424
Email: sales@rodriguez-usa.com
Website: www.rodriguez-usa.com

Canada

Technical Bearing Sales Ltd.
5875 Coopers Avenue
Mississauga, Ontario L4Z 1R9
Canada
Phone: 905-890-2266
Fax: 905-890-2269
Email: tbs@cooper-grainger.com
Website: www.cooper-grainger.com

United Kingdom

R.A. Rodriguez Ltd.
28 Campus Five
Letchworth Business Park
Letchworth Herts SG6 2JF
England
Phone: 011-44-1462-670044
Fax: 011-44-1462-670880
Email: info@raruk.com
Website: www.rarodriguez.co.uk

ACE Controls International
Belvedere Road
Newton-Le-Willows
Merseyside WA12 0JJ
England
Phone: 44 (0) 1925-227171
Fax: 44 (0) 1925-229323
Email: info@ace-controls.co.uk

Germany

ACE Stossdampfer GmbH
Herzogstrasse 28-40764 Langenfeld
Postfach 1510-40740 Langenfeld
Germany
Phone: 49 2173-922610
Fax: 49 2173-922619
Email: info@ace-ace.de
R.A. Rodriguez GmbH
Ernst-Abbe-Straße 20
D-52249 Eschweiler
Germany
Phone: 011-49-2403-7800
Fax: 011-49-2403-78050
Email: info@rodriguez.de
Website: www.rodriguez.de

Italy

Magi S.R.L.
Via M. Ammiano, 3
20137 Milano Italy
Phone: 011-39-02-551-94708
Fax: 011-39-02-551-94513
Email: magi.srl@virgilio.it

Japan

ACE Controls Japan, L.L.C.
Tanaka Bldg, Third Floor
2-9-6, Kanda-Tacho, Chiyoda-Ku
Tokyo 101-0046 Japan
Phone: +81-3-5297-2510
Fax: +81-3-5297-2517
Email: acejapan@green.ocn.ne.jp
ITI Japan Trading Company
Tanaka Bldg, Third Floor
2-9-6, Kanda-Tacho, Chiyoda-Ku
Tokyo 101-0046 Japan
Phone: +81-3-5297-2531
Fax: +81-3-5297-2534
Email: iti-japan@mbf.nifty.com
Kimura Corporation
Shin-Tokyo Bldg. Ste. 606
Maru-no-uchi 3-3-1
Chiyoda-Ku, Tokyo 100-0005 Japan
Phone: 011-81-3-3213-0255
Fax: 011-81-3-3213-0470
Email: s2@kimuracorporation.co.jp

Scotland

Kaydon Bearings Division
2 Easterfield Court
Livingston Village
West Lothian
Scotland EH54 7BZ
Phone: 011-44-1506-415696

France

R.A. RODRIGUEZ GmbH France
29/31 Boulevard de la Paix
Parc d'Activités du Bel Air
F - 78100 Saint Germain en Laye
Phone : 011-33-1-30-61-06-16
Fax : 011-33-1-30-61-52-82
e-mail : contact@rodriguez-france.com
Website : www.rodriguez-france.com