



SPIROL[®]
DISTRIBUTION

SINGLE SOURCE

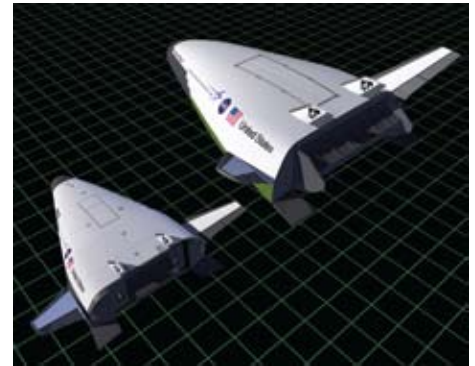


**SUMMER
2010**

Nadcap Accreditation: Nonconventional Machining for SPIROL's Laser Department

The **SPIROL Shim Division's Laser Department** is accredited to SAE Aerospace Standard AS7003 for Nonconventional Machining, Laser Beam Machining (LBM), Cutting by Performance Review Institute, PRI.

SPIROL is already certified to the Aerospace standard AS9100 Revision B. However, many of the most demanding companies in the world, such as those in the Aerospace industry, require Nadcap approval above and beyond AS9100 in order to be a direct supplier. Nadcap (formerly NADCAP, the National Aerospace and Defense Contractors Accreditation Program) is a global cooperative standards-setting program for aerospace engineering, defense and other related industries. This Nadcap accreditation enables SPIROL to use low cost and highly versatile nonconventional machining methods to supply products directly to companies such as BAE Systems, Rolls Royce, GE Aviation and Honeywell. Once accredited, PRI places suppliers on a Qualified Manufacturers List (QML). To maintain accreditation, annual audits are conducted by PRI personnel using process specific Nadcap checklists - in this case AC7116/4 Rev A Nadcap Audit Criteria for Laser Beam Machining (LBM) - with the scope specific for Cutting. Manufacturing to this checklist ensures that products are made per the strictest manufacturing disciplines resulting in the highest standard of quality.



As a testament to the prestige of this accreditation, SPIROL is 1 of only 57 suppliers in the United States, and 1 of only 103 suppliers in the world who are accredited for LBM and Cutting!

In addition to having Nadcap approval for Nonconventional Machining, Laser Beam Machining and Cutting, SPIROL is also Nadcap approved for Chemical Processing (such as passivation) per AS7108.

While your business may not require this particular accreditation, we thought you would still be interested in knowing about our achievement since this is a direct reflection on our overall philosophy of quality.

SPIROL is 1 of only 57 suppliers in the United States, and 1 of only 103 suppliers in the world who are accredited for LBM and Cutting!

As you can imagine, we are pretty proud of this.



NEW Ground Hollow Dowels for Precision Alignment Applications

SPIROL's competitors agree that there is NOBODY else in the industry that does what we do.

SPIROL is not just a manufacturer of quality products; we are the initiators of change, the educators of assembly and joint integrity, and the overall solution for a total lower cost component.

SPIROL continues to be the leader in our industry by investing and upgrading our existing product lines. Unlike our competition, SPIROL has NEVER been a "Me too" company. Our continued investment in technology and R&D has separated us from all others who simply try to copy what we do.

SPIROL's investment in new products has already helped several customers reduce the costs of their applications.

The main advantage of the new GD100 Ground Hollow Dowel is that one can achieve the same alignment as with Ground Solid Dowels with a substantial reduction in cost.



The **SPIROL** is pleased to announce the release of a new innovative lightweight product to achieve precision alignment. **SPIROL® Series GD100 Ground Hollow Dowels** are designed to be a direct replacement for Ground Solid Dowels manufactured per ISO 8734 when used in alignment applications. The Series GD100 is manufactured from strip steel, and then OD ground to achieve extremely tight diameter tolerances that enables critical alignment up to 20µm.

The main advantage of the new GD100 Ground Hollow Dowel is that one can achieve the same alignment as with Ground Solid Dowels with a substantial reduction in cost. In most scenarios, the GD100 Ground Hollow Dowel is at least 30% less expensive. In addition, the weight of the Hollow Dowel is approximately 50% less. This translates into lighter assemblies, and a significant cost savings over Ground Solid Dowels.

The Series GD100 supplements SPIROL's Coiled Pins and Alignment Bushings that are also used for alignment. This new precision line is offered in four standard diameters: Ø8, Ø10, Ø12 and Ø16mm. Special sizes can be designed upon request.

When required, the GD100 line can be case hardened for wear resistance, or manufactured from heat treated, high carbon steel for improved shear strength.

Click here to visit our **Rapid Search** page for **Bushings & Dowels** specs and ordering information.

www.spirol.com/mkt/rs1.php?search=7



SPIROL Implements Major Quality Enhancement for Standard Slotted Pins

In the continuing effort to improve our products, **SPIROL** has implemented **Mechanical Zinc Plating** as the standard zinc finish for our **Slotted Spring Pin** product line.

In the past, SPIROL had used electrolytic zinc plating as the standard process on high carbon steel Slotted Spring Pins. Electrolytic zinc plating on heat treated carbon steel requires that the product go through a secondary high temperature bake operation to remove any embedded hydrogen (called hydrogen embrittlement relief) which can cause the product to prematurely fail in use. Hydrogen tends to accumulate at points of high stress, which typically is 180° off the seam of Slotted Pins. This makes the Slotted Pin more susceptible to hydrogen embrittlement than other Spring Pins. Due to the potential of hydrogen embrittlement, SPIROL has historically implemented a stringent hydrogen embrittlement relief process and thoroughly tests each lot prior to shipment.

While the mechanical zinc plating process is traditionally more expensive than electrolytic zinc plating, the process eliminates the possibility of hydrogen embrittlement. Both processes offer a mechanical barrier to reduce galvanic corrosion and both offer limited atmospheric corrosion resistance. Supplemental coating can be applied to either mechanical or electrolytic zinc to enhance corrosion resistance.

While this change to mechanical zincplating is a quality enhancement for the Slotted Spring Pin, there is a minor visual difference between the two processes. Mechanical zinc plated product appears as a matte silver finish while a electrolytic zinc plated Slotted Pins appear as a shiny silver. Since these pins are usually imbedded within an assembly, these minor cosmetic differences are usually inconsequential to the application.

Electrolytic zinc plating on Slotted Pins will continue to be available from SPIROL as a special finish.



Above: Standard Slotted Spring Pins with mechanical zinc plating.
Below: Slotted Spring Pins with electrolytic zinc plating.



[Click here](#) to visit our **Rapid Search** page for **Spotted Spring Pins** specs and ordering information.

www.spirol.com/mkt/rs1.php?search=4

www.**SPIROL**.com

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NEW Threaded Inserts for High-Strength Molded-In Applications

SPIROL has a new line of standard inch and metric threaded Inserts for plastics. These new Molded-In Series of Inserts feature a central hexagonal band, generous head-side bearing surface area and wall thickness designed to exceed clamped joint forces associated with Grade 5 and Class 8.8 heat-treated fasteners.



Series 41



Series 45

SPIROL® Series 41 and **Series 45** Inserts utilize a unique centrally located hex retention feature. This location positions the active retention features of the Insert along the installed threaded length of the screw and allows the Insert and mating fastener to act as a single unit. The relocation of these features also allows for the use of oversized undercuts in the body of the Insert, which improves performance - resisting pull and rotational forces.

A clean circular head replaces the exposed hexagon shape found in conventional Molded-In Insert designs. The exposed bearing surface allows for higher clamping force against mating components.

The **Series 45** Inserts have a closed end, which seals the threaded internal diameter. This Insert configuration is perfect for mold-in applications into thick plastic sections, or in mold locations where a sealing pin is not feasible. The **Series 41** design utilizes the same proportions as the Series 45, but incorporates a thru-hole design. This Insert is perfect for applications where bolt length is imprecise, and for ease of installation due to the symmetrical shape of the Insert.

Series 41 and 45 inserts are available in standard body sizes as small as #4 and M3 thread sizes to allow incorporation into all Molded-In Insert applications.

The combination of lean design, high performance and extended size range makes these new Series the perfect candidates for all molded-in applications.

[Click here](#) to visit our **Rapid Search** page for **Inserts for Plastics** specs and ordering information.

www.spirol.com/mkt/rs1.php?search=9

USA Tel: 800-321-4679
USA Fax: 860-774-0487

UK Tel: 0800 389 0034
UK Fax: 01536 203415



SPIROL Distribution Preferred Distributors

The **Preferred Distributor Program** is an elite partnership between SPIROL International and Distributors who choose to focus on providing the highest quality products in the industry. Distributors who make the commitment to only purchase from **SPIROL Distribution** receive SPIROL's best price for all eleven product lines.

[Click here](#) for more information regarding the **Preferred Distributor Program**.

www.spirol.com/s/pd/

UNITED STATES

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Century Fasteners

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FAX: (718) 446-9444
www.centuryfasteners.com

EFC International

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FAX: (314) 439-4362
www.myefc-intl.com/products/

Endries

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Fastener Association Boards



Congratulations to **Michael Lentini**, Distribution Sales Manager, for being elected to the Board of Directors of both the **National Fastener Distributors Association** as Associate Vice Chairman, and the **New England Fastener Distributor Association** as Vice President.

SPIROL and Mike Lentini are committed to continuing their active support in these important organizations, and working with new companies in their goal to help educate, develop relationships, and provide quality components to our customers.

World's Largest Fastener Fair!



Visit SPIROL Distribution Booth #1039

National Industrial Fastener Show/West
November 8-10, 2010
Mandalay Bay Convention Center
Las Vegas, Nevada USA

YOUR SINGLE SOURCE PARTNER



SPIROL Distribution Support Team

We recognize distributors are an important part of our overall business with unique requirements.

Our objective is to provide a fast response on price and delivery requirements, offering a high level of service with a friendly manner. Our commitment to service is further supported by the 60 years of experience and technical knowledge that being part of the SPIROL global family provides.

The commitment to provide world class service from our staff is second to none.

Our SPIROL Distribution locations are staffed with knowledgeable customer service representatives ready to help you for any product that SPIROL International companies manufacture.

SPIROL Distribution (UK) is the distribution division of SPIROL Industries Ltd. in the UK. It focuses on supply to the distribution market, serving the UK and parts of mainland Europe.



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Canada Tel: 519-974-3334
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SPIROL Distribution (USA) is the distribution division of SPIROL International Corporation, serving the US distribution market.

This SPIROL Customer Service Support Team is a knowledgeable group of professionals with individual experience of up to 40 years.

We are here weekdays from 8:00 am to 5:00 pm Eastern Standard Time. You can reach us at Tel: (800) 321-4679 or Fax: 860-774-0487 and by email: customerservice@spirol.com

Feel free to contact us with any of your SPIROL requirements.

— Michael Lentini, SPIROL Distribution Manager
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SPIROL Distribution (Canada) is the distribution division of SPIROL Industries Ltd. in Canada. It serves the distribution market throughout Canada.



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