



SLOTTED SPRING PINS



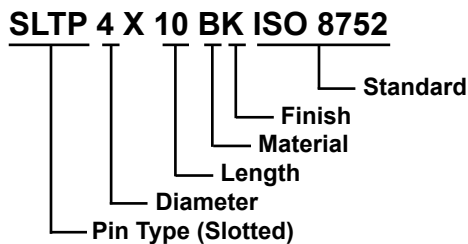
SPIROL® Slotted Spring Pins manufactured to ISO 8752 (EN 28752), ASME 18.8.4M Type B (Metric), and ASME B18.8.2 (Inch) are available from stock.

- DIN 1481 is interchangeable with ISO 8752 (EN 28752) except for a variation in length tolerance.
- The ASME B18.8.2 range meets the requirements of most pins per NASM 10971 (formerly MIL-P-10971), NASM 16562 (formerly 16562), NAS 561, SAE J496, and SAE AS7207 (Superseded AMS 7207 and MS171401-MS171900).
- ISO 13337 (DIN 7346), lightweight Slotted Pins, are available made-to-order for volume applications.

ISO/TS 16949:2009 and ISO 9001:2008 certifications are your guarantee for consistent quality.

- ⊙ **Contract Review / Quality Planning.** A formal procedure exists for the specification and acceptance of new orders by sales, manufacturing and quality.
- ⊙ **Document / Drawing Control.** All drawings, standards and specifications are controlled through engineering.
- ⊙ **SQA Approval of Suppliers and Subcontractors** is maintained by supplier system audits and monitoring of supplier quality performance.
- ⊙ **System Audits** are carried out regularly by independent auditors with written reports submitted for management action.
- ⊙ **Calibration and Gauge Control.** All gauges are calibrated on a regular basis, traceable back to national standards. The control records are computerized.
- ⊙ **All parts are traceable** through each manufacturing process and heat treatment back to the original raw material test certificate. Each lot has a unique identification number on the packaging which should be retained by the customer and quoted in the event of any inquiry.
- ⊙ **Manufacturing Controls.** There is clear identification of job and quality status with controlled routings. Capability studies are used to verify machine and process capability; statistical process control is used for all processes, using variable and attribute data; and there are final audit checks of completed parts and stock.
- ⊙ **Non-Conforming Parts.** These are segregated with a “hold” label and quarantined pending a decision on disposal. An automated corrective action system ensures management control for quick and accurate responses to customer inquiries.

PART DESCRIPTION



MATERIALS*

High Carbon Steel AISI 1070, ISO C67S
Martensitic (Chrome) Stainless Steel AISI 420, ISO X30Cr13 (1.4028)
Austenitic (Nickel) Stainless Steel AISI 302, ISO X10CrNi18-8 (1.4310)

* All standard materials conform to that as specified in ISO 8752, ASME B18.8.2 and ASME B18.8.4M Type B.

SPIROL®

Applications

SPIROL® slotted spring pins are used in many industries.

- Agriculture
- Automotive
- Construction
- Appliances
- Electronics
- Furniture
- Mining
- Plastics
- Railways
- Aerospace

Typical applications use spring pins as...

- Fasteners to secure handles and gears to shafts
- Retaining pins
- Axle shafts
- Stop pins
- Hinge and pivot applications
- Cross bars
- Tube reinforcing pins
- Locator pins



Challenge Us!

SPIROL Application Engineers will review your application needs and work with your design team to recommend the best solution. One way to start the process is to select **Pinning Applications** or **Installation Systems** in our **Optimal Application Engineering** portal at www.SPIROL.com

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ISO/TS 16949:2009 Certified
ISO 9001:2008 Certified