

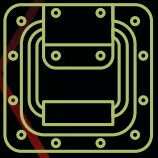
Bolts & Studs



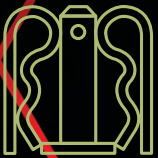
Clips & Clamps



Nuts



Panel & Case Hardware



Pins



Screws



Socket & Hex Cap Screws



Spacers & Standoffs



Washers

# Fasteners

# IRWIN

# Fasteners

## Bolts & Studs

- ASTM A193 B7, B8 Class 1&2, B8M Class 1&2
- Bolt Retainers
- Carriage Bolts
- Eye Bolts
- Hex Flange 12-Point
- High Strength Structural Bolting
- Lag Bolts
- Large Diameter - To 3-1/2" / M64
- Plow Bolts
- Rod Ends
- Square Head
- Studs, Self-Clinching
- Track Bolts

## Nuts

- Acorn Nuts
- All-Metal Locknut
- ASTM A194 2H, 2HM Grade 7,8,8M
- Cap Nuts
- Chassis Fasteners
- Coupling Nuts
- Expansion Nuts
- Grade 2, 5, 8 Class 8.8, 10.9, 12.9
- Hex Flange & Serrated Flange
- Threaded Inserts
- Keys, Conical Washer Nuts
- Machine Screw Nuts
- Nylon Insert Locknuts
- Nylon, Stainless, Brass, Exotic Alloys
- PalNuts®
- Push Nuts
- Nut Retainers
- Rivet Nuts
- Security Nuts
- Self-Clinching Nuts
- Slotted Nuts
- Speed Nuts
- Flat, Bracket, J, U
- Square Nuts
- Weld Nuts
- Wheel Nuts
- Wing Nuts

## Panel & Case Hardware

- Bushings & Grommets
- Catches and Strikes
- Conduit Fittings
- Cordgrips
- Handles
- Hole Plugs
- Jack Screws
- Latches
- Magnets
- Panel Screws
- Quick Access Fasteners

## Socket & Hex Cap Screws

- Button Head Cap Screws
- Flat Head Socket Cap Screws
- Grade 2, 5, 8; Class 8.8, 10.9, 12.9
- Heavy Hex
- Socket Cap Screws - Alloy
- Socket Pipe Plugs
- Socket Set Screws
- Socket Shoulder Screws
- Stainless

## Clips, Clamps & Ties

- Cable Clamps
- Cable Tie Mounts
- Cable Ties
- Hooks, Self-Clinching
- Panel Clips
- Trim Clips
- U, J and S Clips

## Pins

- Barbed Push Pins
- Clevis & Cotter Pins
- Dowel, Pull Dowel
- Groove
- Hairpin
- Plungers
- Quick-Release Pins
- Self-Clinching Pins
- Spiral Groove
- Spring Plungers
- Taper











## Spacers & Standoffs

- Circuit Board Supports
- Female Standoffs
- Male-Female Standoffs
- Male-Male Standoffs
- Self-Clinching Spacers
- Self-Clinching Standoffs
- Spacers
- Swage Standoffs

## Machine & Tapping Screws

- Miniature
- Nylon, Stainless, Brass
- Pan, Truss, Flat, Hex, Hex Washer Head, Oval
- Screws for Plastics
- Self-Drilling Screws
- Self-Sealing Screws
- Sems
- Shoulder Screws
- Thread Cutting
- Thread Forming - for Die Cast
- Thread Forming - for Metal
- Thread Forming - for Plastic
- Thread Forming - for Thin Sheets
- Wing Screws

## Drives

- |   |   |   |
|---|---|---|
|  |  |  |
| Slot  | Phillips  | Frearson  |
|  |  |  |
| Mortorq   | Pozi driv   | Supadriv  |
|  |  |  |
| Phillips Square   | Bristol   | Clutch (A)  |
|  |  |  |
| Double hex  | One-way   | Pentalobe   |
|  |  |  |
| Spanner   | Spline  | Torq-Set  |
|  |  |  |
| Tp3   | Tri-Wing  | Triple Square   |
|  |  |  |
| Security Hex Socket   | Hexalobular Socket  | Security Hexalobular Socket   |
|  |   |   |
| TTAP  |   |   |

## Washers

- Belleville Washers
- Beveled Washers
- Disc-Lock® Style
- Fender Washers
- Flat Washers
- Hardened Washers
- Nylon, Stainless, Brass, Exotic Alloys
- Retaining Rings
- Sealing Washers
- Shoulder Washers
- Split Lock Washers
- Spring Washers
- Structural Washers
- Toothed Lock Washers



# Fasteners

## Design Support

IRWIN is your one-stop resource center for quick and easy access to the latest in new products and technical documents from our key supply partners.

We also routinely provide on-site design support to our clients, in collaboration with our suppliers' field application engineers, as well as liberal sampling to get you through your prototype and pilot build gates efficiently.

**Put us to the challenge - you will be pleased with the results.**

## Pre-Applied Materials for Fasteners

IRWIN offers innovative solutions from ND Industries for application to many of our threaded fasteners. Pre-applied materials increase fastener performance, reduce parts-count, speed assembly, extend product-life and ensure consistency.

### INERT THREAD LOCKING

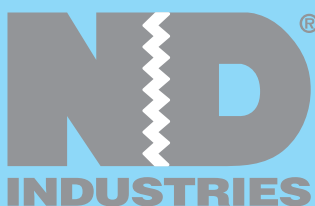
Also known as prevailing torque, this process uses a mechanical force to create a secure lock that is resistant to vibration, shock, and related slippage. The fastener can typically be removed and reused.

### REACTIVE THREAD LOCKING

Once installed into a mating part, a strong chemical bond is formed, preventing slippage from shock and vibration while helping to seal fastening points against gas and liquid leakage.

### MASKING & LUBRICATING

Formulated to ease the assembly process and to protect fastening parts against exposure to undesirable substances that can adhere to uncoated fasteners.



### ASSEMBLY AIDS

Designed to make assembly safer, easier and faster by reducing application errors and worker fatigue.

### ADVANCED SEALING

ND pre-applied sealants are designed to withstand a wide range of pressures, chemical fluids and gases while reducing the chance of a fastener loosening.



## Procurement Services

Whether you need help with a first time / one time buy from a new vendor for a flat dollar amount fee, or you need us to manage a portion of your supplier community on an ongoing basis for a small percentage of the invoice value, we have the resources and business process to support the cause.

Which of these can you relate to?

### Scenario 1

You need to make a rush purchase from a vendor with whom you have never dealt. It could be for a penny part or a 'class A' item, from anywhere on the globe. It takes you days to get a new vendor entity pushed through channels and set up in your system so you can issue a PO - by which time you are expected to have the part on your dock.

### Scenario 2

You have a highly fragmented vendor base, and just too many transactions and suppliers to manage given the resources at your disposal. Things are slipping through the cracks. Another body in your department is not an option.

Our customers have been faced with these scenarios and we have answered the call with our fee-based procurement services. **Nimble response and flawless execution at a reasonable cost.**



# Fasteners



## APM Hexseal

- Self-Sealing Fasteners



## Heyco

- Bushings & Grommets
- Cable Clamps
- Cable Clips
- Cable Ties
- Circuit Board Supports
- Conduit Fittings
- Cordgrips
- Hole Plugs
- Sealing Washers



## Jergens

- All-Metal Locknuts
- Clevis & Cotter Pins
- Coupling Nuts
- Handles
- Hardened Washers
- Pull Dowel Pins
- Quick-Release Pins
- Rod Ends
- Spring Plungers
- Threaded Inserts



## RAF

- Chassis Fasteners
- Circuit Board Supports
- Female Standoffs
- Handles
- Jack Screws
- Male-Female Standoffs
- Male-Male Standoffs
- Panel Screws
- Shoulder Screws
- Spacers
- Swage Standoffs



## ESSENTRA

### Essentra

- Barbed Push Pins
- Bushings & Grommets
- Cable Clamps
- Cable Clips
- Cable Tie Mounts
- Cable Ties
- Circuit Board Supports
- Cordgrips
- Hole Plugs
- Machine Screws, Nylon
- Nuts, Nylon
- Washers, Nylon



## Mesan

- Gaskets
- Handles
- Hinges
- Locks & Latches



**J. Lanfranco**  
Fastener Systems Inc.

## J. Lanfranco

- All-Metal Locknuts
- Nylon Insert Locknuts
- Clinch Nuts & Inserts
- Modular Fixtures
- Specialty Bolts
- Washers



## SI®

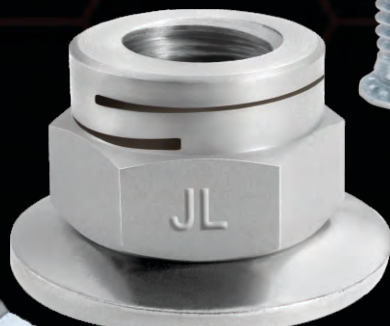
- Threaded Inserts for Plastic



## HellermannTyton

### HellermannTyton

- Cable Clamps
- Cable Clips
- Cable Tie Mounts
- Cable Ties



## PEM® Fasteners

- Cable Tie Mounts
- Hooks, Self-Clinching
- Nuts, Self-Clinching
- Panel Screws
- PCB Hardware
- Pins, Self Clinching
- Spacers, Self-Clinching
- Standoffs, Self-Clinching
- Studs, Self-Clinching





## Automated alerts keep lines up and running

Keeping your bins full just got a lot easier – and a lot faster. Each IRWIN Intelligent Bin automatically detects inventory levels and instantly sends alerts, eliminating the need for counting trips and “milk runs”. That means no more safety stock, no more emergency orders, and more importantly, no more lines down. It's the automated, lean bin solution you've been waiting for.



- ❑ Reduce Order Activity
- ❑ Prompt Low-Stock Notifications
- ❑ Flexible Configurations
- ❑ Supply-Base Consolidation
- ❑ Reduce Inventory

## Maximize profits from every square foot

Waste and inefficiency can hide where you least expect. With IRWIN Intelligent Bin (I2B) Systems, you can take control and find new productivity and savings across your entire operation.

## Streamline your supply chain

Consolidation of vendors across many possible part categories means fewer orders and expedites, while providing economies of scale, lowering incoming freight costs, improving quality interaction, and increasing trust. You get reduced, but assured, inventory, and space-savings; allowing your organization to optimize your resources, focus on core competencies, and meet strategic goals.

## Keep bins full and lines running

I2B Systems eliminate inefficient manual bin counts and stock outs. That keeps production lines and assembly cells non-stop productive – and profitable.

## It's time to take control

Discover how IRWIN Intelligent Bin Systems can help you reduce wasted steps, ensure more accurate and less costly processes, and achieve true productivity across your organization.



**Heavy-Duty**  
Up to 10 kg per bin  
Dual-bin (Kanban) lanes



## Cloud-based Software

I2B Systems articulate stock levels through its cloud-based software providing clear visual information from any computer.



## Bin Configuration

Lanes and bins are configurable to manage a range of stock items. Up to 72 locations per frame comprised of small, medium and large bins.



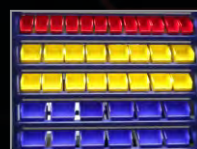
## Automatic Notification

I2B platform is automatically notified when bins status changes allowing for constant awareness of stock levels.



## Visual Feedback

Tri-state LEDs indicate each lane's status, providing instant clear feedback in keeping with visual manufacturing practices.



## Bright Lighting

Industrial LED linear fixtures illuminate bins from above providing even lighting of shelves and stock.

## Frame Dimensions (mm)

702 depth x 2003 height x 1645 width

## Bin Dimensions (mm)

300 depth x 90 height x 117 (small); 156 (medium); 234 (large) width

## Quality Assurance

Our in-house inspection laboratory uses state-of-the-art equipment and a dedicated inspection team to ensure products meet industry standards, specifications and customer requirements, including dimensions, hardness and plating.

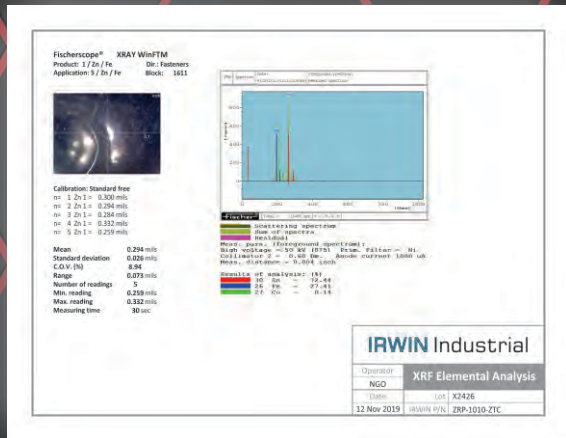
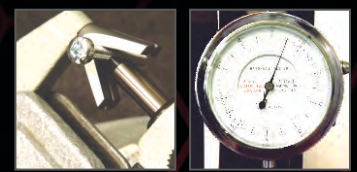
### Environmental Standards

RoHS, REACH, and other related environmental standards are expanding in scope, and a non-compliance ruling can be a financial and legal nightmare. Relying on certificates of compliance alone may not be accepted as adequate evidence of conformity. Most of the directives will require the demonstration of adequate due diligence to ensure that applicable standards are being met.

### Elemental Analysis

IRWIN Industrial uses X-ray Fluorescence Spectrometer technology to facilitate the analysis of multiple materials and coatings for restricted substances. X-ray Fluorescence Spectrometry is accepted as the best first-level, non-destructive screening method available.

We can ensure that your components - from connectors to heat sinks to 1¢ screws - are compliant, so that your product will withstand the scrutiny of compliance enforcement activity.



**SINCE 1970**

**IRWIN Industrial**

Also see IRWIN's **Electronic Components & Hardware Line Card**

- Connectors & Cables
- Hardware
- Optoelectronics
- Power
- Printers & Labeling
- Protection & Suppression
- Switches & Relays
- Thermal Management
- Wire Management

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