

WILLIAMS®

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TOOL SETS FOR EVERY JOB

**WORK FASTER, SAFER
AND MORE EFFICIENTLY**

QUICKFIT TO MAMMOTH SETS



SOCKET SETS

Socket sets packed in keep-safe-foam that keeps tools organized and helps prevent loss.

Available in 1/4", 3/8", 1/2", 3/4" and 1" Drive.



GENERAL MAINTENANCE SETS

Sets with all the tools needed for industrial, heavy duty and electrical maintenance. Sets include both the standard hand tools and the special tools needed to get the job done.

QUICKFIT TOOL ORGANIZATION SYSTEM

Get the convenience of a turnkey solution, the QuickFit system comes with the industry-specific tools you need. Our customer knowledge and industry experience guarantee a well stocked and better organized shop cart.



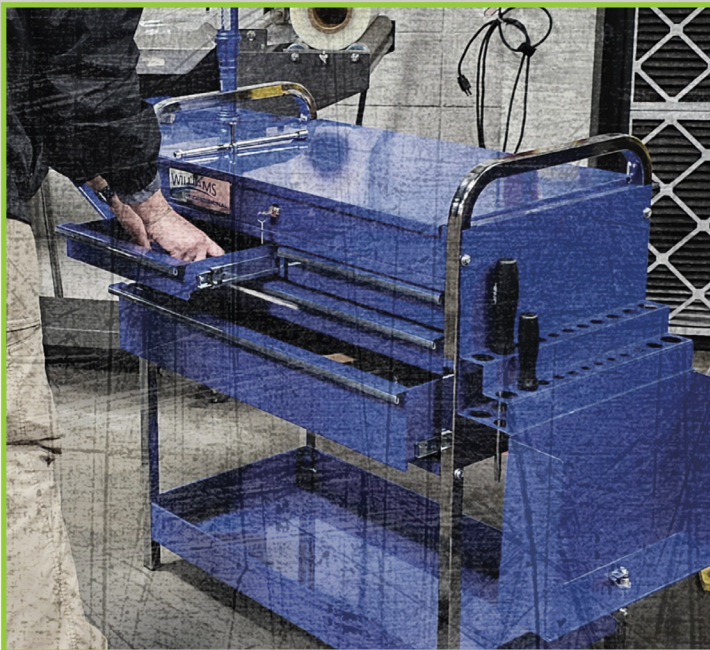
START BUILDING YOUR TOOL SET AND STORAGE NOW

CONFIGURATOR.WILLIAMS-INDUSTRIAL.COM



IS BUILT FOR THE EXPERTS

SETS FOR KEY JOBS



DISTRIBUTION CENTER MAINTENANCE SETS

A standardized set with the proper tools needed to maintain and repair automated equipment in multiple locations. Set includes a mobile cart and tools that reduce downtime and increase productivity.



PURPOSE-BUILT SETS

Whatever the industry, Williams tool sets will help keep your equipment and assets working, while making your work faster, easier and safer.



ON-THE-GO TECHNICIAN SETS

Easily take your tools to the job.

- Starter Sets
- Electrician's Sets
- Maintenance Sets
- Robotic Maintenance Set



TOOLS@HEIGHT SETS

Turn-key sets allow users to simply open the box and get to work. Kits include everything you need to operate safely. Engineered attachment point installation is already done so you don't have to.



Working at Height Sets for:

- Boilermakers
- High Rigging
- Electricians
- Scaffold Builders
- Pipefitters
- Maintenance

WILLIAMS®

YOUR PARTNER OF CHOICE



SOLUTIONS WITH IMMEDIATE COST SAVINGS FOR YOUR BUSINESS.

Williams experienced professionals have the knowledge you can count on to solve the most complex challenges. Improve productivity with turnkey sets, training and product demonstrations.



SCHEDULE YOUR NO CHARGE SAFETY & TORQUE SEMINARS, CRIB CRAWL OR PRODUCT DEMONSTRATION NOW.



SAFETY SEMINARS

Tool users learn about the dangers involving misused, modified and poorly maintained tools. Seminars also teach how to determine the right tool for the job, the importance of ergonomics, tethered tools, proper bolt tightening and more.



CRIB CRAWLS

Williams safety experts will inspect your tools and remove the poorly maintained, modified and misused tools in your tool crib.



WILLIAMS TORQUE 101

WHY PROPER TORQUE IS SO IMPORTANT!
It's about safety, reliability, and performance. EVERY manufacturer, whether it's aerospace, motor vehicles, precision equipment, power generation, etc., specifies fasteners can lead to product failure. And product failure means downtime, higher costs, potential injury, and more.

WHAT IS TORQUE?
Torque is rotational or turning force. Torque is measured in length and force. Length means distance from "center of drive" to "center of handle". Force means "pounds", "Newtons" etc.

HOW DO YOU CALCULATE TORQUE?
Torque = length x Force
The standard torque formula used to calculate torque is: "L x F = T"
Example: 2 ft. (length) x 30 lbs. (amount of force at center of handle) equals 60 ft. lbs. of torque (60 ft. lbs.)

WHAT DOES TORQUE DO?
Torque creates a "Clamp Load" to join two pieces of material. Bolts (or threaded fasteners), are designed to create clamping force, also called "Clamp Load".
When torque is applied to a threaded fastener, it draws together the joint, creating a clamp load as the fastener begins the stretching process. It's this fastener stretch that creates and maintains clamping force.
The actual amount of clamp load is determined by several factors:
- The material and grade of the fastener.
- The external friction on the joint - friction under the fastener head, and friction between the threads of the fastener and material it's connected to.

WHY IS APPLYING PROPER TORQUE IMPORTANT?
Creating proper Clamp Load prevents damage and equipment failures.
• Safety & Performance: Applying accurate torque is critical to assembly applications, engines and precision equipment.
• Creating a proper clamp load is the main objective when applying torque to a fastener. Engine cylinder heads, pipe coupling, wheels, all need to be "clamped" uniformly to specific torque values.
• There are three main factors that affect the correct application of torque: (1) Condition of components, (2) Accuracy of torque instrument, (3) Property applied torque values.
• Applying torque incorrectly can lead to stripped threads, premature loosening or broken fasteners that can cause catastrophic failure. Leaking joints may cause engine or broken failures.

TORQUE SEMINARS

Learn why applying correct torque is critical to proper assembly or maintenance operations.

Work safely – Learn how to handle torque wrenches safely and efficiently.

Torque Fundamentals – Broaden your knowledge of torque equipment and how it works.



VIEW OUR ENTIRE CATALOG OF WILLIAMS® INDUSTRIAL TOOLS

Williams-Industrial.com
USA: 800-446-7404 Canada: 800-296-4787

TRAIN WITH THE BEST - Williams® Territory Managers have the knowledge and experience to train your employees on the safe and effective use of Williams® Industrial Tools. Contact your Territory Manager for more information.

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