

A **die spanner** (more commonly known as a **die stock** or **die handle wrench**) is a specialized hand tool used to securely hold and rotate a round threading die. Its primary purpose is to **cut new external threads** on blanks or **repair damaged male threads** on items like bolts, pipes, and studs.

Design and Features

- **Central Ring / Holder:** The middle of the tool contains a circular cavity specifically sized to accommodate a round threading die. [
- **Adjustable Set Screws:** Features 1 to 4 set screws along the frame. These align with grooves on the outside of the die to lock it securely in place and prevent slipping.
- **Dual Handles / Rods:** Long, straight handles extend out from opposite sides of the central frame. These provide maximum leverage and torque control for smooth, manual thread cutting.

Common Applications

- **Manufacturing:** Processing and cutting precise, fresh male threads on raw round bars made of mild steel, aluminium, or brass.
- **Automotive Repair:** Restoring cross-threaded or stripped bolts on wheel hubs, suspension parts, and engine assemblies.
- **Plumbing & Mechanical:** Threading steel or plastic pipes to fit joints and connections tightly. [