

THREAD ROLLING

Roll threading cold-forms threads by displacing metal through die pressure, creating stronger fasteners with continuous grain flow and zero waste.



Roll threading is a cold-forming manufacturing process that creates threads by displacing material from a workpiece rather than removing it. In this process, a blank that is typically a starting diameter between the final major and minor diameters of the final thread form is compressed between rotating or reciprocating dies that have the inverse profile of the desired thread. This physically deforms the metal, causing its grain structure to flow along the contours of the thread.

The key advantages of roll threading include significantly increased tensile and fatigue strength due to work hardening and continuous grain flow, a superior surface finish, and improved dimensional accuracy.

Additionally, it is a highly efficient and cost-effective process that produces no material waste and allows for high production rates compared to traditional thread-cutting methods.




**BRITISH
MADE**