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(57) Abstract :
The present invention relates to an automated device (100) for rapid thread cutting and inspection. The device comprises a cutting assembly (110), inspection module (120), digital interface (130), and control unit (140). The cutting assembly ensures precise threading with adaptive torque control, while the inspection module verifies dimensions in real-time using optical and laser sensors. A feedback-controlled system (140) corrects deviations during operation. The digital interface (130) provides data display and wireless connectivity. The invention reduces cycle time, enhances precision, and ensures defect-free threads in industrial applications.

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