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(57) Abstract :
A cost-efficiency assessment device (101) for manufacturing units includes a processing module (102), cost data input interface (103), dynamic cost database (104), and cost-efficiency report generator (105). It collects real-time data from energy meters (111), material logs (109), and labor trackers (112), processes them using an AI-based analytics engine (108), and outputs actionable insights via a dashboard (113) and mobile alert system (115). The device (101) enables predictive decision-making and real-time cost control across production lines.

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