

# Smarter Manufacturing: How Mobile Scanners Eliminate Picking Pain Points —and Deliver ROI

In manufacturing, precision and speed aren't optional—they're operational lifelines. Whether you're assembling complex machinery or managing just-in-time inventory, the picking process—retrieving components, tools, or materials—can either fuel productivity or choke it.

Manual picking methods are still common, but they come with hidden costs: errors, delays, and inefficiencies that quietly drain your bottom line. Automating picking with mobile scanning devices doesn't just solve these problems—it delivers measurable return on investment (ROI).

## Let's explore how

### The Hidden Cost of Manual Picking

Before we talk ROI, let's look at what manual picking is costing you:

- **Mis-picks and part mismatches:** Can lead to rework, scrap, or line stoppages—each costing hundreds to thousands
- **Time lost in searching:** Even 5 minutes wasted per pick adds up across shifts and teams.
- **Paper-based confusion:** Reprinting, misreading, and versioning issues slow down operations and increase error rates.
- **Limited traceability:** Without digital logs, audits and root-cause analysis become guesswork.
- **Training bottlenecks:** New staff take longer to ramp up, reducing agility during peak periods.

These inefficiencies compound daily, quietly inflating labour costs and reducing throughput.

## Mobile Scanners: ROI in Action

Mobile scanning devices—rugged handhelds or Android-based smart tools—don't just streamline picking. They pay for themselves quickly. Here's how:

### 1. Error Reduction = Cost Avoidance

Barcode validation ensures the right part is picked every time. If a wrong item is scanned, the system flags it instantly.

**ROI impact:** Reducing mis-picks by even 80% can save thousands annually in rework, scrap, and downtime.



## 2. Faster Picking = Labour Efficiency

Digital pick lists and optimized routes cut walking and searching time.

**ROI impact:** If each picker saves 30 minutes per shift, that's 2.5 hours/week. Across 10 pickers, that's 1,300+ hours/year—equivalent to a full-time salary.

## 3. Real-Time Tracking = Operational Control

Scans link items to work orders, giving supervisors full visibility.

**ROI impact:** Faster issue resolution and better resource allocation reduce delays and improve on-time delivery metrics.

## 4. Simplified Onboarding = Lower Training Costs

Step-by-step device workflows help new hires become productive faster.

**ROI impact:** Cutting onboarding time from 2 weeks to 3 days means faster ramp-up and reduced supervisory overhead.

## 5. Integration = Inventory Accuracy

Mobile scanners sync with ERP/MES systems, updating stock levels instantly.

**ROI impact:** Reducing stockouts and overstocking improves cash flow and reduces emergency procurement costs.

### Real-World ROI Snapshot

\*Estimates based on mid-sized manufacturing operations with 10–30 pickers. Actual ROI varies by scale and process maturity.

### Use Cases in Manufacturing

- **Kitting stations:** Ensure correct parts are picked for assembly kits.
- **Tool cribs:** Track tool issuance and returns with scan-based logging.
- **Maintenance workflows:** Speed up retrieval of spare parts and consumables.
- **Production line replenishment:** Automate restocking of fast-moving components.

### The Bottom Line

Mobile scanning isn't just a tech upgrade—it's a strategic investment. It reduces errors, boosts efficiency, and delivers clear ROI across labor, inventory, and operational control.

If your factory still relies on paper lists and manual checks, it's time to modernize. Mobile scanning brings digital precision to the heart of your operations—where every second and every part counts.

