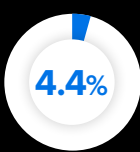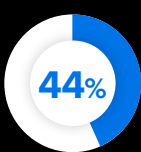**ZEBRA**

Supercharge the Evolution of Electronic Manufacturing

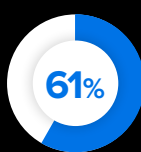## Nine ways rugged tablets power speed, accuracy and visibility

The global Electronic Manufacturing Services Market is projected to grow [1], driven by surging demand for industrial electronics, 5G and artificial intelligence. It's little wonder then that nearly half of APAC manufacturers plan to adopt smart manufacturing in the coming year to keep pace.

4.4%	**Projected CAGR** growth for global electronic industry by 2031[1]	
44%	**Percentage of Asia Pacific** manufacturers adopting Industry **4.0** in the coming year[2]	
61%	**Three fifths of Asia Pacific electronic manufacturers** indicate shipments are rising[3]	

What is a critical component for their digital transformation plans? Rugged tablets.
Follow their lead with these transformative tools. You will not only support Industry 4.0 technologies, but also gain multi-shift power, stable connectivity, extra layers of security and functionality made to automate manual workflows and optimise production.

Seize Improvements Across Your Plant Floor with Rugged Tablets
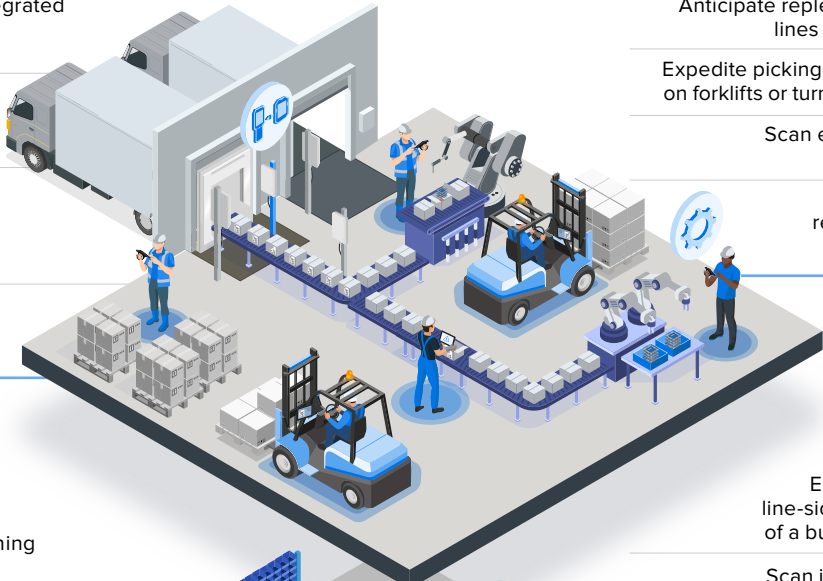
Eliminate Errors and Delays from Goods In

Authorise entry of trucks with the integrated scanner & camera; access data to direct drivers to proper dock

Utilise high-res camera & large screen to take detailed photos of damages & barcodes

Release drivers faster by instantly reconciling RFID-captured cargo data with the manifest displayed on the large tablet screen

Show forklift drivers exactly where to place the raw material

Increase Efficiency at Line-Side Parts

Anticipate replenishment needs by monitoring lines from the kitting area via tablets

Expedite picking of orders with tablets mounted on forklifts or turned into workstations on wheels

Scan employee pass to acknowledge receipt of line-side orders

Instantly reach workers to remediate urgent issues such as faulty materials or out-of-stock

Sharpen Oversight of Manufacturing

Track work in progress (WIP) by scanning the barcode of a finished assembly

Increase accountability by tracking tablet logins of machine operators

Reduce training time with on-demand tutorials that ensure compliance with standard operating procedures (SOPs)

Utilise call button or push-to-talk capabilities to request parts and/or communicate with supervisor

Streamline Assembly

Enable workers to easily request line-side replenishment with the push of a button and the scan of a barcode

Scan items to verify processing items before installing

Provide digital assembly instructions for any station on the production line to heighten accuracy and quality

Practise Proactive Maintenance and Safety

Enable mobile Human Machine Interface by temporarily connecting tablets to the programmable logic controller for easy reading of error messages. Once done with repairs, detach the tablet and go

Visually guide workers through the steps to perform maintenance with augmented reality (AR) and vividly displayed manuals, schematics and repair procedures

Keep the industrial control team informed of maintenance by securely sharing machine test results, images and videos

Digitise maintenance records to mitigate downtime and identify bottlenecks—comparing maintenance records of similar machines

Mobilise Industrial Control System Workers

Untether industrial control system (ICS) workers from their laptops with on-the-go connectivity

Allow ICS workers to remotely make minor adjustments to control parameters from their tablets for faster response times

Connect security cameras to tablets and ICS systems for greater monitoring

Package with Greater Accuracy

Scan the finished product's barcode and take a photo to request warehousing to pick up the item

Reduce errors by scanning barcodes to ensure the correct items are in each package

Digitally record data about each package, such as batch number, expiration date and content to track and trace item

Elevate Quality Control

Perform spot checks with the scan of a barcode and the snap of a photo to document products that passed quality checks

Pair the rugged tablet with a mobile printer to label defects and include pertinent details such as the operator, machine and time

Enable less experienced workers to accurately complete quality checks with digitised work instructions
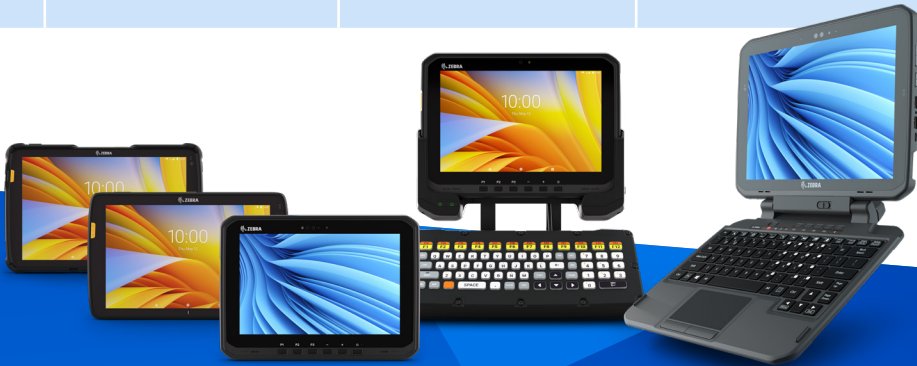
Ensure Flawless Goods Out

Before releasing finished goods, take a high-resolution, large-formatted photo that clearly shows their pristine condition and barcodes

When Downtime Is Not an Option, Mission-Critical Performance Is Yours with Zebra

Rugged and Purpose-Built	Replaceable Batteries with Health Visibility	Highly Reliable Enterprise-Class Wireless	Simplified Management with a Comprehensive Suite of Enterprise Software	A Stable Ecosystem of Accessories
Easy Integration with Your Infrastructure	Full Coverage and Flexible Service Support	Up to 60% Lower Total Cost of Ownership vs. Consumer Tablets over a 6-Year Period[4]	A Lifecycle of up to 10 Years	End-to-End Solutions Compatible across Lines of Business

Let Zebra Enterprise Tablets help you lead the charge in electronic production.

For more information on **Zebra's manufacturing solutions,** please visit www.zebra.com/manufacturing

For more information on **Zebra rugged tablets,** please visit www.zebra.com/tablets