



Panasonic Guided Manual Assembly

PGMA

Zero defects and
Full traceability at any
manual assembly



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helps to enhance manual assembly

- to avoid any mistakes while assembly
- to ensure an effective “zero-defect strategy”
- to share knowhow by organizing work instruction and workflows
- to introduce full traceability
- to apply an effective end-to-end material management
- to save cost

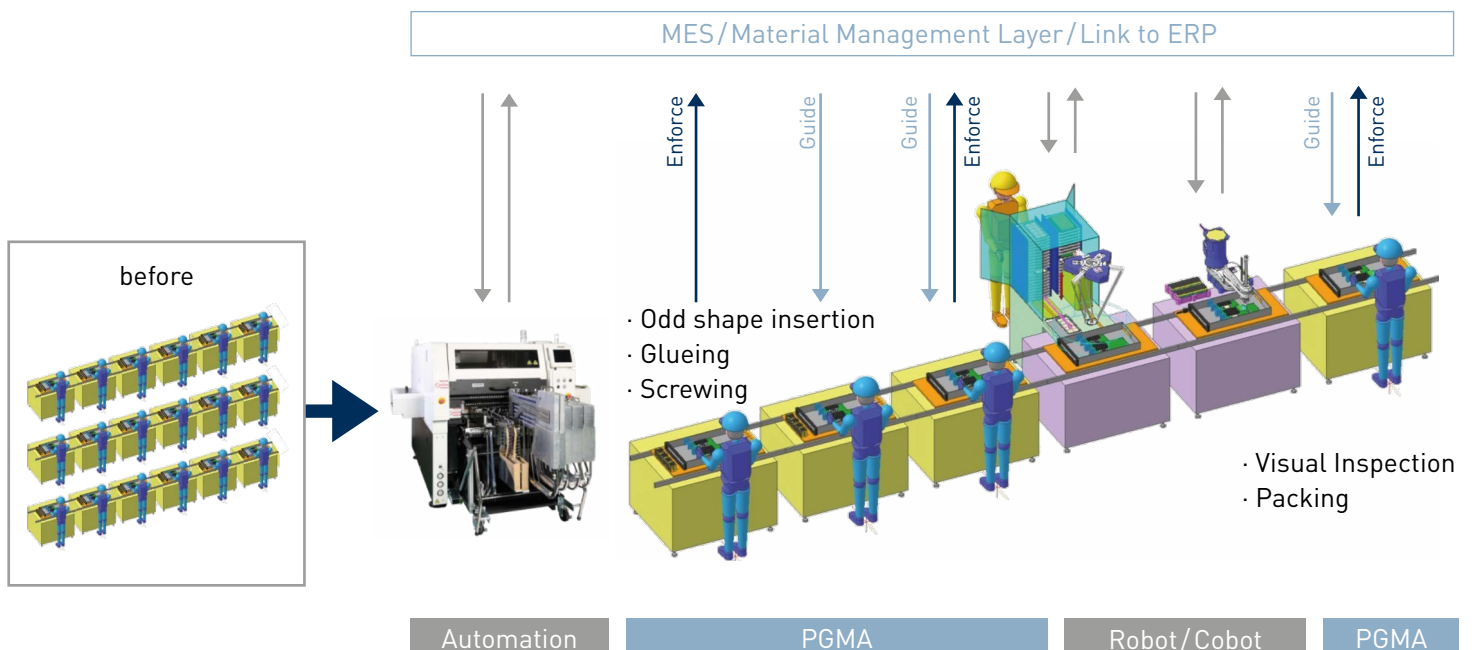
The ROI (return of invest) period for PGMA implementation is typically much less than one year. PGMA reduces failure rates, speeds up the assembly process and finally increases the user’s motivation.

Typical use cases for PGMA are:

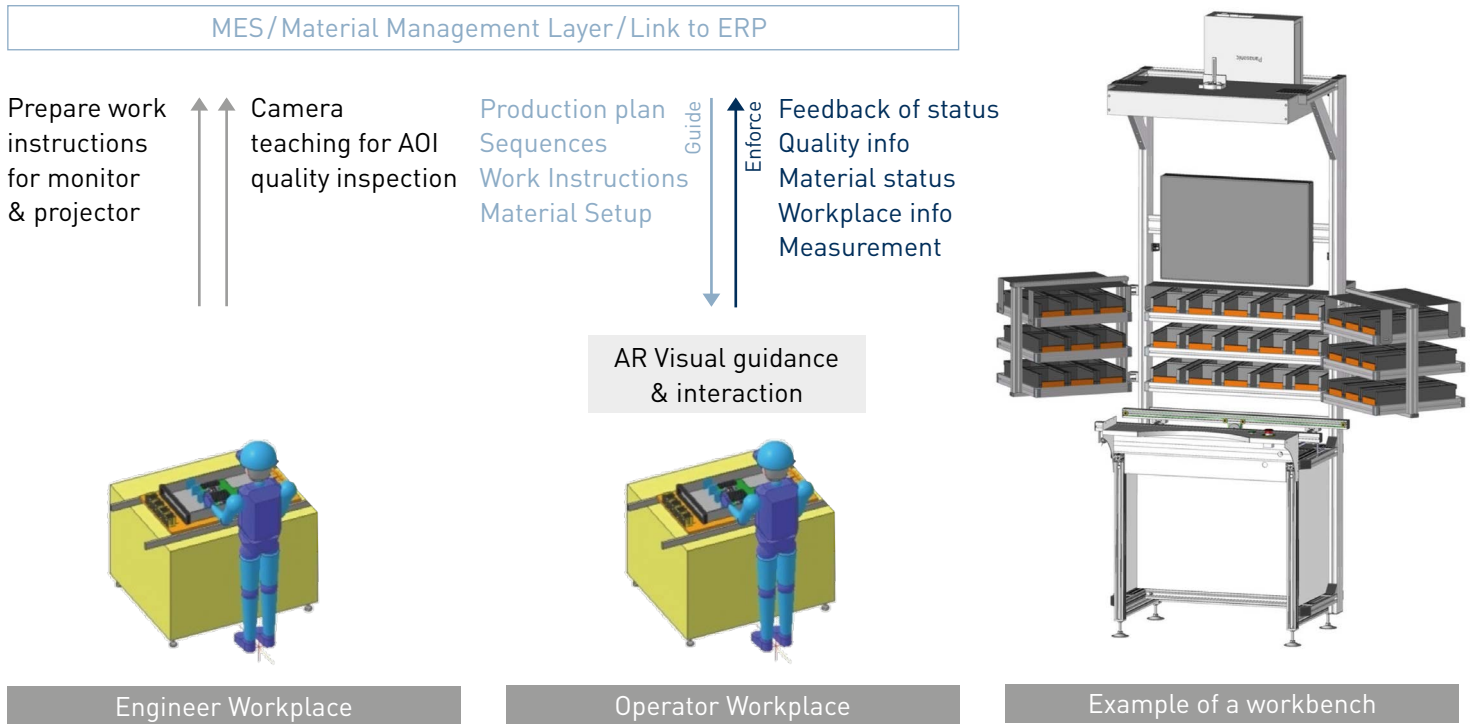
- Manual THT insertion
- Manual mechanical assembly
- Semiautomatic screw & nut mounting with and without torque control
- Manual visual inspection
- Semiautomatic testing and/or measurement
- Manual product packing and labelling incl. weight control (optional)
- Training for any manual assembly & activity



Factory digitalisation & automation concept



Basic functions of PGMA, technical specification



Technical details

Size	1,0 m x 0,8 m x 2,60 m
Weight	(depends on configuration): 200 kg
Conveyor width	Manually adjustable width: 50 mm – 460 mm

Features, Moduls, Systems & Components

Administor's software	Operator's software	Hardware systems	
Admin Backend database ERP/MES interface Material Control Joborder Web report Andon reporting Traceability Branch for variants Stage assignment	Operator Pdf export Escalation Webviewer Multi language Video clips Checklist Repair	Main controller PC & touch Mainframe/Workbench Laser projector AOI inspection Conveyor Pick2Light material boxes Database MySQL server	Optical documentation aod Label printer Barcode scanner Bit2light Tool2light Measuring i/o Expansion Power screw driver Quantity verification (boxes)

■ standard features ■ options

Constituent of Smart Factory

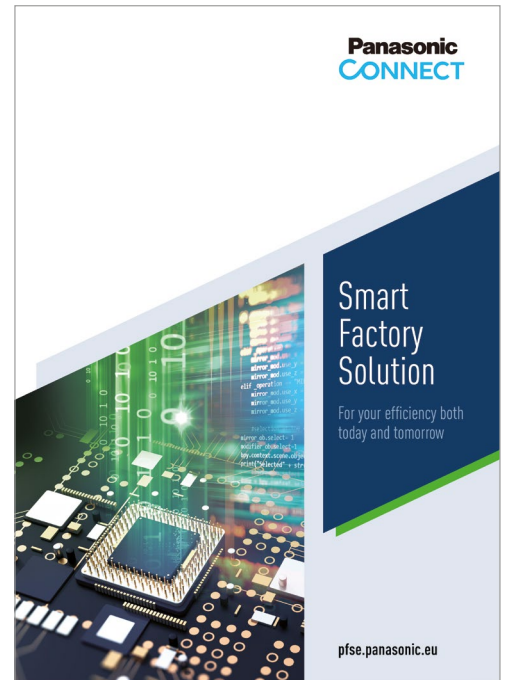
Much more than just data

The acquisition and analysis of production data is the main focus of our Smart Factory approach, because measures must be derived from this with which the entire production system and its individual processes can be designed more effectively.

Our Solutions for Electronic Manufacturing are a constituent of this concept. Options for further optimisation of your processes are also derived from your production data.

This networking of manufacturing systems opens up new possibilities for analysing and controlling the manufacturing. PGMA helps to expand our Smart Factory approach to your final assembly areas, where even manual processes are still used. In those areas high failure rates and a quite low level of traceability are weak points in several production floors.

Our solutions helps to get full control of the production floor including all non-Panasonic systems.



PGMA
Product
website
PCOEU ▶



PGMA
Product
video ▶



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