

HOW A FULL PRODUCTION LINE WORKS — PMG VERSION

And how PMG makes every stage smarter, safer, and first-time-right.

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Raw Material Receiving – PMG Ensures Data-Driven Start

Before materials even enter the line, PMG designs:

- Hygienic receiving areas
- Proper zoning for raw → clean → finished
- Digital logs for traceability

This prevents contamination from the very first touchpoint.

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A close-up photograph of industrial machinery processing grain. A large hopper on the right is pouring a thick stream of golden-brown grain onto a conveyor belt. The grain is being processed by a machine with a large motor and various mechanical components. The background is dark and industrial.

Pre-Processing – PMG Designs for Clean, Smooth Flow

Washing, sorting, peeling, mixing — all need space, utilities, and ergonomic design.

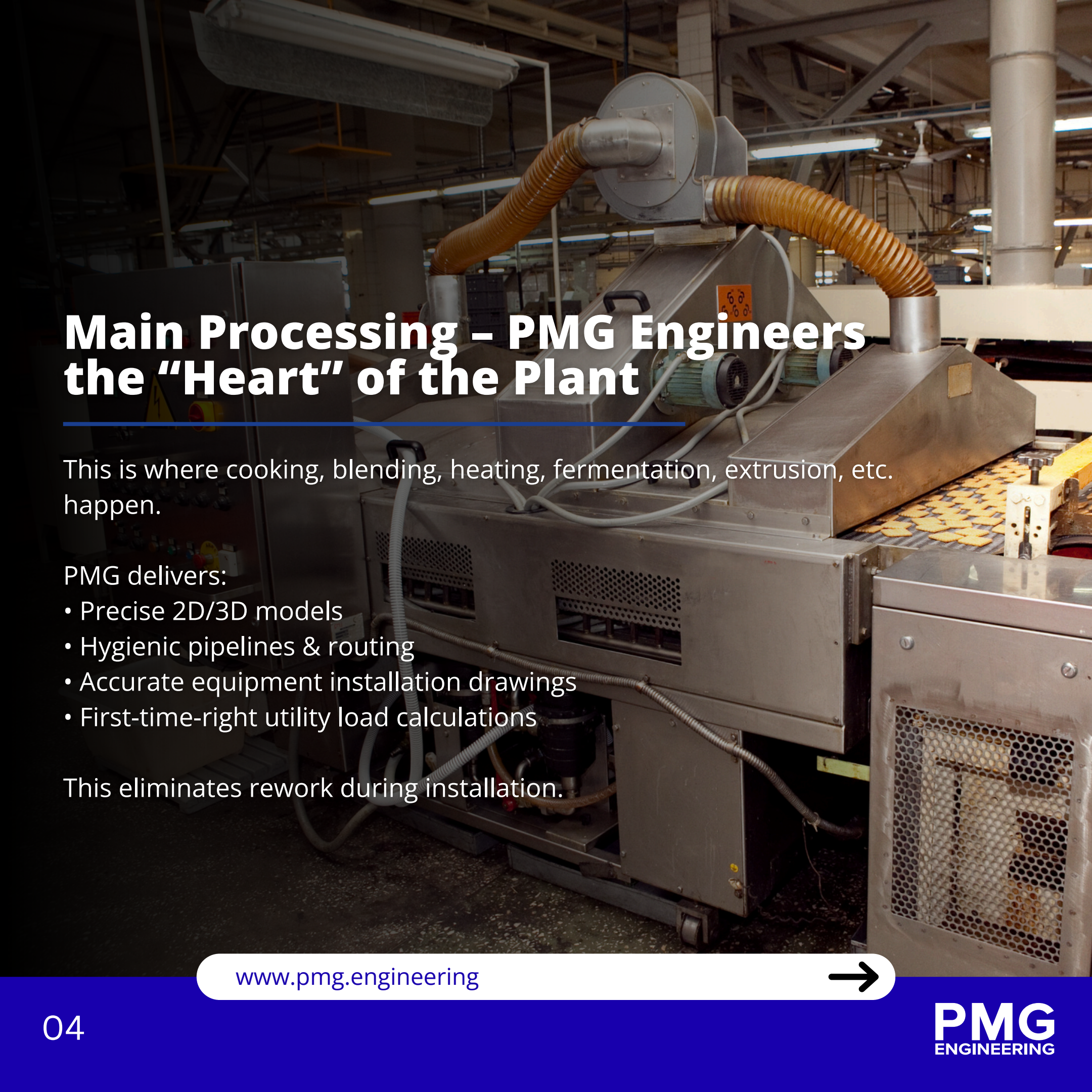
PMG ensures:

- Smart equipment layout
- Correct utility sizing
- Easy maintenance access
- Zero cross-flow

This keeps the line running without chaos.

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A large industrial machine, likely a food processor or extruder, is shown in a factory setting. It features two prominent orange flexible hoses connected to the top. The machine is made of stainless steel and has various components like motors, pipes, and a conveyor belt on the right side. The background shows a typical industrial environment with overhead lights and structural elements.

Main Processing – PMG Engineers the “Heart” of the Plant

This is where cooking, blending, heating, fermentation, extrusion, etc. happen.

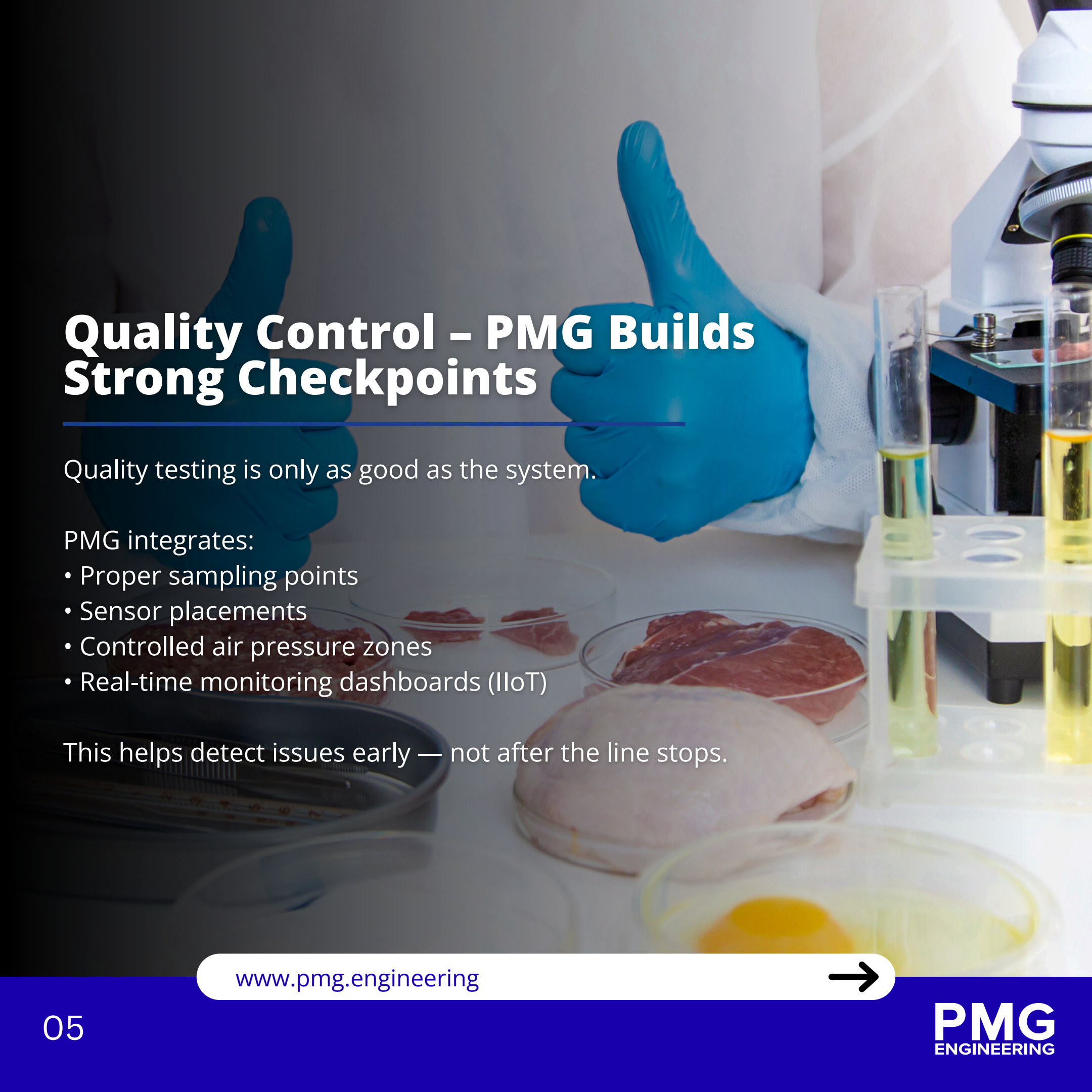
PMG delivers:

- Precise 2D/3D models
- Hygienic pipelines & routing
- Accurate equipment installation drawings
- First-time-right utility load calculations

This eliminates rework during installation.

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Quality Control – PMG Builds Strong Checkpoints

Quality testing is only as good as the system.

PMG integrates:

- Proper sampling points
- Sensor placements
- Controlled air pressure zones
- Real-time monitoring dashboards (IIoT)

This helps detect issues early — not after the line stops.

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Conveying & Transfer – PMG Ensures a Seamless Flow

From conveyors to screw feeders to hygienic pipelines — movement must be smooth.

PMG checks for:

- No bottlenecks
- Accurate slopes and distances
- Zero dead zones
- Safe operator movement paths

This makes the line balanced and efficient.

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Packaging Line – PMG Optimizes Speed & Hygiene

Filling, sealing, labeling — this is where the product becomes “market-ready.”

PMG supports through:

- Line balancing studies
- Packaging layout optimization
- Integration of conveyors, checkweighers & metal detectors
- Worker ergonomics

This boosts output without compromising safety.

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Final Inspection – PMG Builds Compliance Into the Line

We ensure the right placement of:

- X-ray systems
- Metal detectors
- Batch coding stations
- Visual inspection zones

This guarantees a 100% compliant product at the final stage.

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Storage & Dispatch – PMG Designs World-Class Logistics Flow

Cold rooms, dry stores, dispatch zones — all engineered for:

- Fast movement
- Easy tracking
- Perfect temperature control
- FIFO/LIFO logic

This ensures your product leaves the factory fresh, safe, and traceable.

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Why PMG? (The PMG Difference)

At every stage of a production line, PMG adds value through:

- ✓ First-time-right drawings
- ✓ Zero rework at site
- ✓ Efficient, hygienic, automation-ready layouts
- ✓ Vendor & OEM coordination
- ✓ Compliance-focused engineering
- ✓ Smart flow, smart utilities, smart production

PMG doesn't just design production lines.

We engineer factories that perform, grow, and never stop