Production Management system
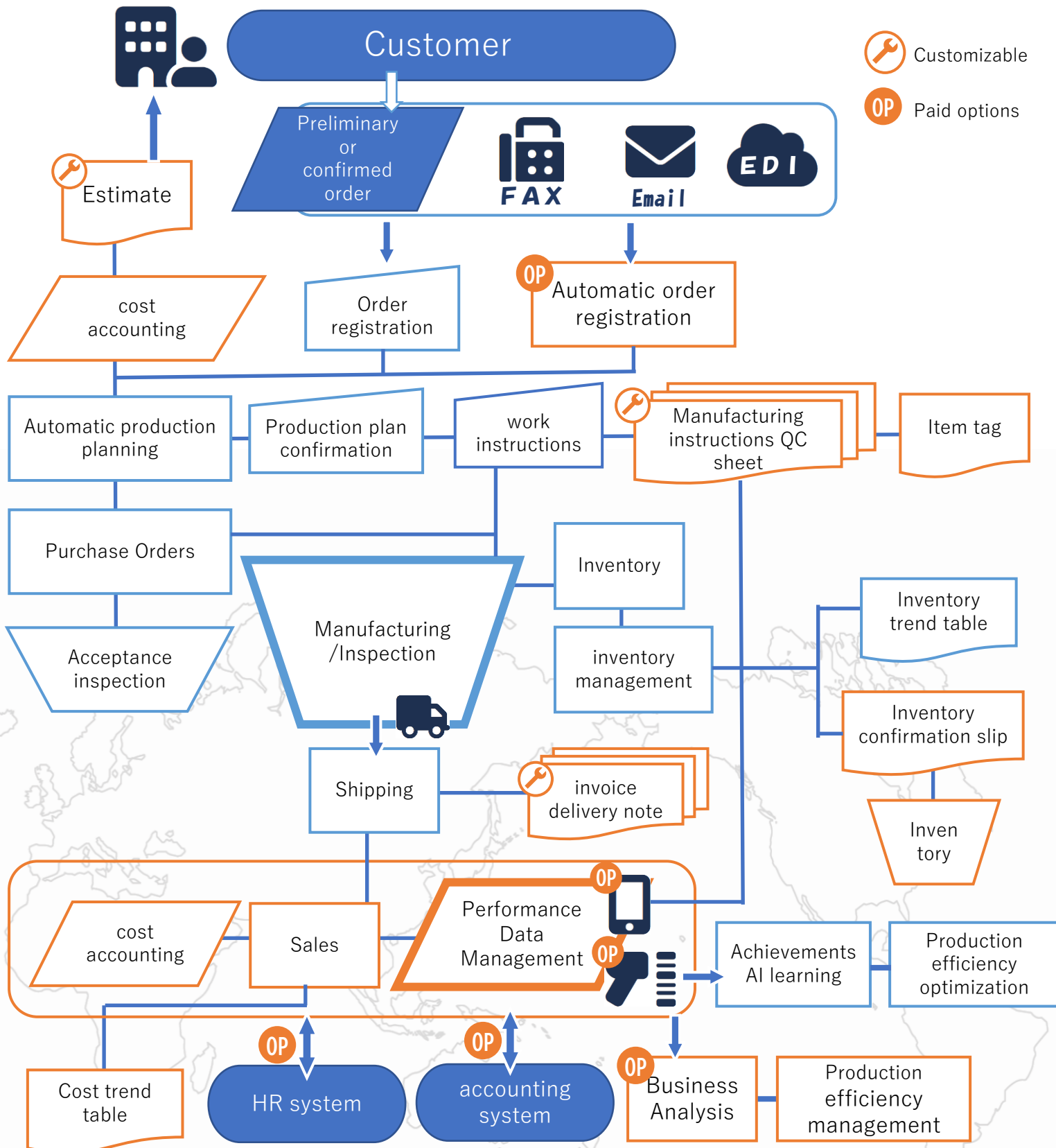
gb-ERP

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List of Key Features

1. Order/Purchase Order/Shipping Management

2. Equipment/Personnel Operation Status Management

3. Lot Management

4. Production Planning

5. Performance Management

6. Inventory Management

7. Drawing Number Management

8. Master Data Management

9. Cost Management (v2)

10. Various Report Output (v2)

11. Business Analysis (v2/OP)

12. Interconnection with Other Systems (v2/OP)

13. Multilingual Support (v2/OP)

14. Barcode Issuance for Invoices (v2/OP)

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Screenshots of Key Features(Order)

- You can register orders by selecting Confirm Order/Unofficial Order.
- You can issue quotes from the order management screen (you can also customize the report layout).

▼ Order List

▼ Order registration

*The screen is under development and may differ from the actual specifications.

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Screenshots of Key Features(production planning)

- Create production plans that match operating conditions. By accumulating performance data, you can calculate plans with higher production efficiency.

- Leaving some leeway between processes allows you to handle **rush** orders. The amount of leeway can be freely set.

▼ Production planning screen

*The screen is under development and may differ from the actual specifications.

- Propose inventory allocation for in-stock parts
- Propose combinations of machines and people with high production efficiency based on past performance
- Allocate personnel with consideration for overtime

Considering materials, people, and machines

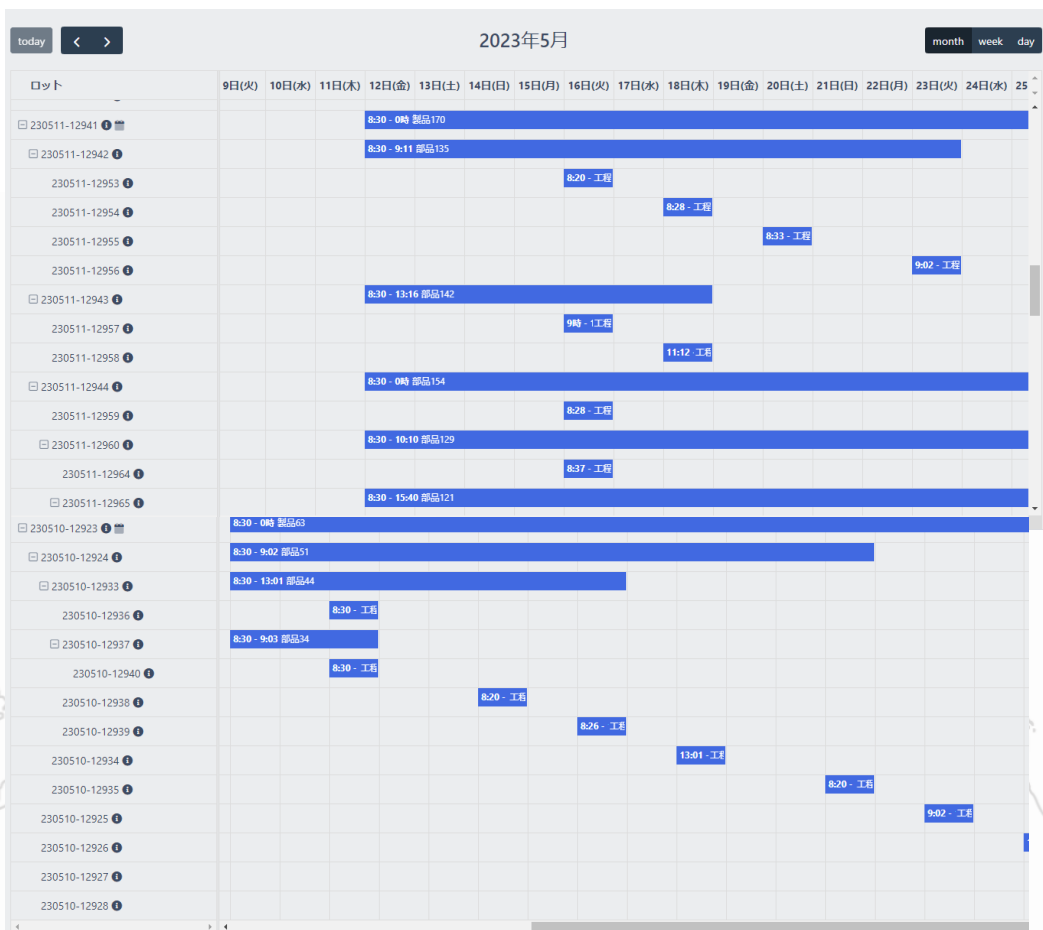- Propose a work schedule that takes into account operating status and lead times

Super-fast scheduler

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Screenshots of Key Features(Lot)

- Manage schedules down to the smallest detail, including parent, child, and grandchild lots.
- By dividing lots into smaller parts, you can trace down to the smallest detail.
- Toggle the display with a "+/-" key.
- You can also search for delivery dates and product names.

▼ Lot List   *The screen is under development and may differ from the actual specifications.

Lot Serch ➡

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Screenshots of Key Features(Cost)

- When making a quote, you can set the product, quantity, unit price, and delivery date to simulate the cost and profit margin. By checking these figures, you can consider the price and quantity that matches the profit margin during negotiations.

- Using a list of past transactions, you can compare the actual costs against the costs set at the time of the quote. Analyzing the variance in incurred costs can help improve management.

▼ Estimate Simulation

Past Transaction List ▶

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List of Output Reports

	Output form	Screen check (csv output)
Ordering/acceptance management	purchase order	Order list
Order management	Estimate	Order list
inventory management	Inventory inventory confirmation slip	Inventory schedule / Parts inventory inquiry / Monthly inventory inquiry / Inventory adjustment list / Monthly product inventory list by customer / Customer supply inventory list / Long-term slow-moving inventory list
Shipping management	Delivery note/invoice	Shipping schedule/Shipping list/Annual shipping results by product
Job management	Work instructions/QC sheets/Work performance report/item slip	Lot list
cost management		Sales list / Monthly sales list / Standard cost list / Sales table by customer (monthly) / Purchase list by supplier / Processing list by subcontractor / Annual shipping performance table by product

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1. Operation Flow
(On-site Staff / Production   Manager)

From sales orders to work instructions

*The screen is under development and may differ from the actual specifications.

① **Order registration**	Register the order information in the system. (Optional: automatic registration)
② **Production planning**	The production schedule is automatically generated based on the order information and lot status. By considering the 3M factors (Man, Machine, Material) during allocation, a higher-quality production plan is created.
③ **Work instructions**	Work instructions are issued. Production data is also linked to allocated inventory items, allowing for easy traceability in the event of a defect and contributing to improved quality.
④**Manufacturing/Inspection**	Manufacturing is carried out according to the work instructions. The inspection and acceptance process is also included in the work instructions.

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2. Operation Flow
(On-site Staff / Production　Manager)

From Production Results to Shipping

SAMPLE

*The screen is under development and may differ from the actual specifications.

Field workers perform steps ④ and ⑤ daily according to the assigned work instructions.

⑤ Track record registration	Production results can be recorded through various methods such as direct input, handheld devices, and mobile applications. The collected data is used to improve the accuracy of future production planning and to support management planning.(Barcode output is an optional feature.)
⑥ Shipping management	Based on the order data, items are automatically added to the shipping list.Shipping operations are carried out according to the shipping schedule.
⑦ Inventory management	Products that are not shipped and purchased items that were not used remain in inventory automatically. By performing periodic inventory counts and aligning the physical stock with the registered quantities, more accurate numbers can be used during allocation and related processes.

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Operation Flow (Executive / Management)

Cost Management

*The screen is under development and may differ from the actual specifications.

Manufacturing Cost (Direct Manufacturing Cost)

Material Cost (e.g., purchased components)

Labor Cost (wages for workers)

Overhead Cost (e.g., machine depreciation expenses)

Gross Profit = Sales − (Cost × Quantity)

Gross Profit Margin (%) = Gross Profit ÷ Sales × 100

①Master Registration	Register the product structure information, unit prices for purchased items, worker wages, machine depreciation costs, and other related data.Based on this information, the direct manufacturing cost is calculated.
②Cost Estimation	By setting the quantity and unit price for a product, the cost and profit margin can be calculated.(This functions as a cost estimation simulation.) You can use the optimal production volume and pricing—derived from the profit margin—as negotiation materials. A quotation can be generated directly, and an order (or preliminary order) can be registered.
③Cost (List / Trends)	The variance between actual and planned profit margins can be displayed in a list by product or by transaction.

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Master Data Information

- **Product Information**
  - ↳ Products / Purchased Items / Outsourced Processing / Processes

- **Business Partners**
  - ↳ Customers / Suppliers

- **Resources**
  - ↳ Personnel / Machines / Personnel Groups

- **Inventory**
  - ↳ Planned Production / Planned Usage / Physical Stock / Pending Inspection

- **Lots**
  - ↳ Quotation / Pending Lot Number Issuance / In Production / Pending Shipment / Shipped / Delivered

- **Others**
  - ↳ User Permissions / Calendar

The above items are examples of master data.
Through comprehensive traceability in gb-ERP,
you can easily track *"who produced it, when it was made, and with which materials."*
By collecting a wide range of additional data, the system continues to evolve into a more accurate and advanced production management platform.
Furthermore, since all input logs are stored, even if an issue or data corruption occurs, recovery is possible.

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