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# MANUFACTURING & WMS SOLUTIONS

Detailed list of available features.

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## NOTE:

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Keep in mind, that since our solutions are based on the low-code platform (Novacura Flow), they are highly customizable. We don't implement them as ready-made closed solutions - the implementation is always preceded by the system analysis, where we precisely discuss requirements and adjust solution components to the specific needs.



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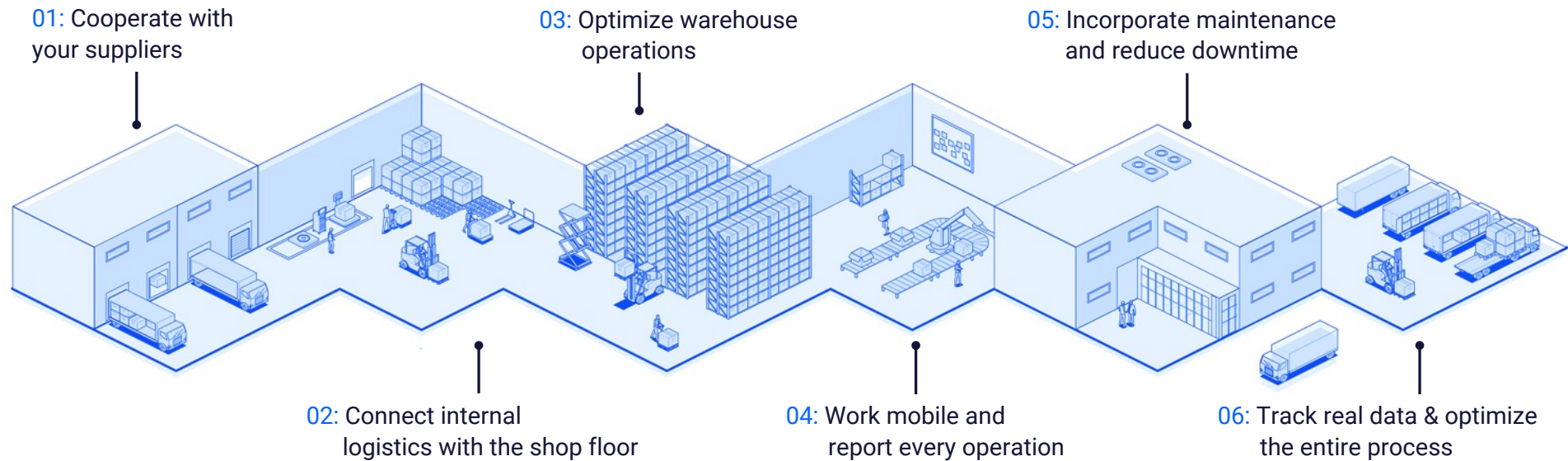
# SHOP FLOOR OPERATIONS MANAGEMENT SOLUTION



# COMPLETE SOLUTION TO SUPPORT MANUFACTURING PROCESS

For almost 20 years of our presence in the manufacturing industry, we've implemented a wide set of software solutions that support almost every process that exist in the manufacturing.

On the next slides we present example capabilities that we deliver to streamline manufacturing processes.



## SOLUTION FOR MANUFACTURING:

# DETAILED LIST OF FEATURES

### 01: MAINTENANCE

- Maintenance tasks planning – Integration with production plans
- Mobile Work orders for maintenance (preventive & reactive)
- Tools management
- Spare parts management
- Maintenance subcontractors' management (incl. financial settlements)

### 02: SHOP FLOOR OPERATIONS

- Mobile shop orders processing
- Reporting (Time, Material, Scrap etc.)
- Logistics requests (material requisitions, returns, package requisitions)
- Downtime reporting
- Defects reporting
- Maintenance calls
- Staff management

### 03: INTERNAL LOGISTICS

- Material delivery (JIT, up to particular production sequence)
- Different picking strategies support (FIFO, FEFO, LIFO)
- Warehouse <> Shop floor transportation management
- External inventory usage optimization
- Material returns management (from production)
- Finished goods transportation

## SOLUTION FOR MANUFACTURING:

# DETAILED LIST OF FEATURES

### 04: INVENTORY OPERATIONS

- Material storage (material moves, handling unit management, traceability)
- On-the-fly Inventory counting support
- Picking paths optimization
- Outdated materials / Scrap management
- Barcode labels management
- Full support for barcode scanners

### 05: PRODUCTION PLANNING / SCHEDULING

- Stock level management
- Purchase orders management within **B2B portal** (EDI support)
- Delivery management within B2B portal (**JIT** system support)
- Double-codification for goods delivered from various suppliers
- Financial settlements with suppliers within B2B portal
- Integrated carrier communication within B2B portal

### 06: DELIVERY & SHIPMENT MANAGEMENT

- Stock level management based on production plans
- Delivery planning & management
- Financial settlements with suppliers and customers
- Finished goods inventory management
- Shipment planning
- Transportation management
- Returnable packaging management

## SOLUTION FOR MANUFACTURING:

# DETAILED LIST OF FEATURES

### 07: AUTOMATION / TECHNOLOGY

- Industrial IoT (IIoT) / Industry 4.0 support
- Connectivity (OPC-UA, PLC, RFID / BLE)
- Integration between machines and ERP – real performance statistics processing
- Support for various ERPs (IFS, Infor M3, IBM Maximo, SAP and more)
- Computer Vision
- Augmented Reality based support

### 08: PRODUCTION SUPERVISION

- KPI Dashboards
- Visual “Info-Screen” on a Shop floor
- OEE evaluation
- Defects analysis / traceability
- Supplier stats analysis
- Material usage analysis (performance vs technology)
- Continuous improvement support (thanks to the low-code process modeling technology)

... and more!

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# WAREHOUSE MANAGEMENT SOLUTION





WAREHOUSE MANAGEMENT SOLUTION:

# DETAILED LIST OF FEATURES

## 01: SUPPLIERS / DELIVERY MANAGEMENT

- Stock level management
- Purchase orders management within **B2B portal** (EDI support)
- Delivery management within B2B portal (**JIT** system support)
- Double-codification for goods delivered from suppliers - ability to use external labels / codes
- Financial settlements with suppliers within B2B portal
- Integrated carrier communication within B2B portal

## 02: INTERNAL LOGISTICS / PRODUCTION SUPPORT

- Material requisition processing
- On-demand material delivery orders processing
- Order picking optimization (picking paths optimization, strategies support FIFO, FEFO, LIFO)
- Transportation management for the shop floor (trolleys configuration & delivery route management and planning)
- External inventory usage optimization (delivery time transport duration, production returns management)

## 03: FINISHED GOODS / SHIPMENT

- Finished goods storage
- Shipment planning and confirmation with customers (B2B Portal)
- Transportation management, planning (scheduling / adhoc – premium freight)
- Transportation preparation control (packing, loading, warehouse dock and ramp allocation)
- Transportation costs optimizations (route planning, post-analysis)

WAREHOUSE MANAGEMENT SOLUTION:

# DETAILED LIST OF FEATURES

## 04: INVENTORY MANAGEMENT

- Material and component storage
- Traceability, batch / LOT identification on every stage
- Handling unit management
- Material movements (inside inventory/ cross-inventory)
- Inventory counting ("on the fly" cycle counting / periodical)
- Aging stock and scrap management
- Locations management (virtual locations, cross-inventory operations)

## 05: RETURNABLE PACKAGING MANAGEMENT

- Packages pool planning based on production demand
- Packages in a loop monitoring
- Package damage reporting
- Packages picking / packaging-sets completing from the shop floor
- Constant packaging quantity control within B2B Portal
- **Track & Trace** back and forth packaging among distribution center, suppliers and customers

## 06: COMMON TECHNOLOGY SUPPORT

- **B2B Portals** (connecting suppliers, customers)
- **Deep ERP integration** - dedicated to working with ERP systems as ERP extensions
- Machines Integration (industrial **IoT**)
- **EDI** integration
- **RFID gates** integration
- **Barcodes / QR Codes** support
- **Pick-by-voice** technology support
- **Computer vision** (for visual inspections, truck plates recognition, documents processing)

... and more!

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**FLEXIBLE  
TECHNOLOGY  
BEHIND OUR  
WMS PACKAGE**



# READY FOR FUTURE CHANGES THANKS TO THE LOW-CODE CORE!



- Our Manufacturing & WMS Package is based on the **low-code platform** Novacura Flow.
- All applications are not hard-coded. **You can modify them or clone them and create variants.**
- You can build their own applications. And thanks to the low-code engine, they can **create apps by drawing them** like they draw a business process.

# CUSTOMER REFERENCES



# OUR CUSTOMERS



"Thanks to this solution, warehouse workers have increased their efficiency by about 30 percent, and the error rate has dropped radically."

Leif Repo  
Group Logistics Manager  
Specma AB



"I really like Novacura Flow because of its flexibility. From a software engineering perspective, the flow and processes can easily be visualized and modified."

Mario Bischofberger  
Lean Manager Logistics  
Maxon

# OUR CUSTOMERS



"Implementing Novacura Flow would save 250 working days, it means a saving of €80 000 per year."

Arjen Hoefkens  
Solutions Manager  
Heerema Group (HFG)



"Sherwin-Williams has advanced product flows, and creating a solution that included everything while still being simple and user-friendly was a real challenge."

Sabina Wenker  
Manager Distribution Center  
Sherwin-Williams



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**THANK YOU.**

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