

XERPIMUM

Manufaktur

Enterprise Resource Planning

Solusi ERP lengkap untuk industri
manufaktur

2000+
MODUL

AI
ASSISTANT

SaaS
/ ON
PREMISE

Bahasa Indonesia Edition — brostur.xerpium.com

Ekosistem Manufaktur Enterprise-Grade

XERPIUM MANUFACTURING adalah ekosistem modul manufaktur yang dibangun di atas XERPIUM 18 — mencakup Quality Control, AI Assistant, Dashboard Analytics, dan Dynamic Stage Workflow.

Manufacturing Orders

MRP Production — Buat, konfirmasi, lacak MO dari BOM

Multi-company — Operasi multi-lokasi, terikat company

Automated Planning — Rencana produksi berdasarkan stok & lead time

Cost Accounting — Integrasi mrp_account untuk WIP journal

Bill of Materials (BOM)

Multi-level BOM — Hierarki sub-assembly & raw materials

BOM per Variant — Konfigurasi per produk variant

Aerospace Config — BOM → aircraft type (as-designed/as-built/as-maintained)

AI BOM Lookup — Cari detail BOM via AI assistant

Work Centers

Standard — Assembly Line, Machining, Testing, Paint, QC, Tooling

Aerospace Extension — Certification tracking, calibration scheduling

Environmental Controls — Tracking suhu, kelembaban, kontaminasi

Capacity Management — Batasi kapasitas per aircraft type

Work Orders

Native Execution — XERPIUM standard work order flow

Aerospace Extension — Operator assignment, sign-off workflow

Tool Tracking — Fixture, gauge, special tool per work order

Digital Sign-off — Tanda tangan digital + timestamp audit trail

Enterprise Features

Multi Warehouse Locations — Gudang hierarki, lokasi receiving, stock, delivery, cross-dock

Multi Company / Branch — Operasi multi-lokasi, inter-company transactions, shared master data

Consolidation Reports — Laporan konsolidasi multi-company, eliminasi inter-co, drill-down

Multi User — Role-based access control, group permissions, approval workflow

Multi Currency — Transaksi multi-mata uang, exchange rate auto-sync, unrealized gain/loss

Inter-Company Operations

Inter-Co SO → PO — Sales order otomatis generate purchase order di branch lain

Inter-Co Stock Transfer — Transfer barang antar gudang/branch dengan auto journal

Consolidated P&L — Profit & Loss gabungan semua branch/entitas

Consolidated Balance Sheet — Neraca konsolidasi dengan eliminasi inter-co

Currency Conversion — Rate otomatis dari Bank Indonesia / ECB / Federal Reserve

Quality Control

xerpium_mrp_quality menyediakan quality management lengkap tanpa lisensi Enterprise.

Sample Implemented QC: Aerospace

NCR — Non-conformance reports, severity, root cause, linked ke MO

CAPA — Corrective & preventive actions, efektivitas tracking

Inspection Plans — Incoming, in-process, final dengan line items

FAI (AS9102) — First Article Inspection: full/partial/delta. Auto pass/fail

Quality Release — Sertifikat rilis kualitas per MO

♦ QC: Gold Mining & Refinery

Assay Samples — Chip, core, grab, channel, composite. Source: ore, bullion, process, tailings, soil

Test Methods — Fire Assay, XRF, Wet Chemistry, AAS, ICP-OES

Lab Results — Gold PPM, silver PPM, copper %, iron %, sulfur %. Auto-compute grade g/ton

Purity Certificate — Karat grades (375-999), troy oz conversion, valid_until tracking

Refinery QC — Quality review stage sebelum completed. Linked ke purity certificate

Workflow — Draft → Submitted → Analyzed → Reported

QC: Coal Mining

Coal Samples — Source: mine face, stockpile, delivery, rehandle. Type: chip, grab, channel, composite

Test Methods — Proximate Analysis, Ultimate Analysis, Calorific Value Test

Lab Results — Calorific Value (kcal/kg), total moisture %, ash %, volatile matter %, sulfur %, fixed carbon %

Quality Certificate — Grade A/B/C/Sub-bituminous/Lignite, weight ton, customer linked

Production Integration — Quality fields langsung di MO: actual_cv, actual_ash, actual_moisture

Workflow — Draft → Submitted → Analyzed → Reported

QC: Sawit / Palm Oil

Basis Framework — xerpium_mrp_quality sebagai fondasi QC untuk industri sawit

Quality Control Points — Titik kontrol untuk CPO, PKO, kernel, empty bunch, fiber

Planned Metrics — Free Fatty Acid (FFA), moisture content, dirt content, DOBI value

Sample Tracking — Fresh fruit bunch grading, kernel quality, shell ratio

Dashboard Integration — vit_dashboard_sawit untuk KPI produksi CPO

Status — Module dalam roadmap, framework QC sudah tersedia

QC: Generic Manufacturing

Quality Control Points — QCP#### sequence, per produk, kategori, picking type

Quality Checks — QC#### sequence. Pass/Fail/Measure. Auto-seed dari control point

Quality Alerts — QA#### sequence. Kanban: New → Confirmed → Action Proposed → Solved

Root Causes — Workcenter Failure, Parts Quality, Others (configurable)

Test Types — Instructions, Pass-Fail, Measure, Picture

Teams & KPI — QC teams dengan check_count, alert_count metrics

AI Assistant — Manufaktur dengan Natural Language

100+ tools, 12 intent MRP, mendukung 11 bahasa. Perintahkan manufaktur dalam bahasa sehari-hari.

AI Assistant for Development

Add Fields — Tambah field baru ke model apapun via perintah natural language

Change Workflow — Modifikasi stage, state, approval flow tanpa coding

Add Form Views — Buat form view baru dengan field layout otomatis

Add Actions — Server action, menu action, contextual action via AI

Add Security Rules — RBAC groups, record rules, access rights

Add Reports — QWeb report template dari deskripsi

No-Code Customization

Schema Inspector — AI membaca model, field, relasi secara real-time

Code Generator — Python model + XML view + CSV security otomatis

Preview & Apply — Preview perubahan sebelum diterapkan ke database

Rollback Safe — Semua perubahan bisa di-rollback via version control

Prompt → Code → Deploy — Dari ide ke modul jalan dalam hitungan menit

Dashboard Analytics — Dashboard Studio

19 jenis chart, dual data source (ORM + SQL), AI auto-generate, NL→SQL, copilot chat.

AI Dashboard Features

Auto-Generate — Natural language → dashboard lengkap via DeepSeek

NL → SQL — Natural language → SQL query real-time

Chart Insight — AI analisis tren, peak, anomaly, rekomendasi

Copilot Chat — SSE-streamed chat dengan konteks dashboard

Conditional Formatting — Warna dinamis berdasarkan nilai

Dynamic Stage Workflow

Framework stage configurable untuk semua model XERPIUM — dengan Python hooks, server actions, dan RBAC.

Framework Features

Configurable per Model — Stage independen untuk setiap model XERPIUM

Python Hooks — Jalankan method saat record masuk stage

Server Actions — Automated actions on stage enter

RBAC Groups — Batasi stage per grup (Manager, User, Viewer)

Native State Sync — Auto-sync stage ↔ native state field

Back Navigation — Support stage mundur (configurable)

Default Stage — Auto-assign saat record baru dibuat

Integrasi Cross-Module

Manufaktur terintegrasi penuh dengan seluruh ekosistem XERPIUM.

Manufaktur ↔ Sales

sale.order → mrp.production via BOM auto-resolve

Dynamic stages sync: SO confirmed → trigger production

AI: "Buat MO dari SO/001"

Manufaktur ↔ Purchase

Raw material requirements → Purchase requisition

Vendor management (tier, certification, quality rating)

PO received → stock available → MO ready

Manufaktur ↔ Inventory

stock.move ↔ mrp.production (components & finished goods)

Serial number tracking (mandatory untuk aerospace)

Lot tracking, shelf life management

Manufaktur ↔ Accounting

mrp_account → WIP journal entries otomatis

Cost center tracking (analytic accounts)

MIS Builder integration untuk cost analysis

Manufaktur ↔ HR

Operator assignment (hr.employee) pada work orders

Sign-off by employee dengan timestamp

Workforce planning & scheduling

Manufaktur ↔ Quality

Quality check trigger saat MO produced

Quality alert dari non-conforming production

NCR/CAPA workflow (aerospace)

Manufaktur ↔ Bea Cukai (Kawasan Berikat)

Manifest impor & ekspor otomatis untuk Kawasan Berikat (Bonded Zone)

PCB (Pemberitahuan Cukai Barang) & PE (Pemberitahuan Ekspor) tracking

Real-time status pabean: approved, hold, reject

Rekon BCKI (Buku Cukai Ke Kawasan Industri) otomatis

Tracking barang masuk/keluar Kawasan Berikat dengan HS Code

Integrasi INATRADE untuk dokumen ekspor

Manufaktur ↔ Coretax (Perpajakan)

Auto-generate e-Faktur PPN (Faktur Pajak Elektronik)

OTOMATIS hitung DPP, PPN, PPnBM dari MO/Invoice

Massal upload e-Faktur ke Coretax via API

Validasi NPWP lawan transaksi otomatis

Retur & pembatalan faktur terintegrasi

Laporan SPT Masa PPN (PPN Out & PPN In) real-time

Mapping akun PPN ke chart of accounts otomatis

Jurnal Akuntansi Manufaktur

Alur jurnal otomatis dari material consumption hingga finished goods — terintegrasi penuh dengan mrp_account.

Fitur Akuntansi Manufaktur

WIP Auto-Entry — Jurnal WIP otomatis saat komponen dipick

Cost Rollup — HPP otomatis = Material + Labor + Overhead

Variance Analysis — Selisih antara estimated vs actual cost

Overhead Allocation — Alokasi berdasarkan jam mesin / unit produced

Multi-Company Journal — Inter-co manufacturing journal entries

Analytic Distribution — Cost center tracking per project/dept

Period Close — Revaluasi WIP bulanan otomatis

✈ Aerospace Manufacturing

MO Extensions — Aircraft type, serial number, configuration, priority (AOG/Critical/High/Normal/Low)

Work Order Sign-off — Digital sign-off, operator, timestamp, tool tracking

Tooling Management — Fixture, gauge, calibration scheduling, status

ECO (Engineering Change) — BOM link, approval workflow, revision tracking

FAI (AS9102) — First article inspection: full/partial/delta

Quality Release — Sertifikat rilis kualitas per MO

✿ Coal Production

Daily Production Orders — Shift-wise tracking (planned vs actual tonnage)

Stockpile Management — Weighted average CV, capacity utilization

Haulage Tracking — Equipment, operator, fuel, duration

Quality Integration — CV, ash, moisture parameters

Government Reporting — ESDM compliance

♦ Gold Production & Refinery

Ore Extraction — Block, seam, ore type, grade tracking (g/ton)

Refinery Jobs — Smelting, CIL, CIP, heap leach, amalgamation, electrolysis

Bullion Tracking — Bar no, purity (999/995/960/916/750/585/375)

Loss/Recovery — Slag, loss computation, recovery rate %

Fine Gold Calc — Automated weight → troy oz conversion

Garment Manufacturing

Style/BOM Management — BOM per style, size, warna, kombinasi

Bill of Material Multi-Level — Fabric, trim, accessory, packaging

Production Tracking — Cutting → Sewing → Finishing → QC → Packing

Panjang Roll Fabric — Tracking meter/yard per roll, marker efficiency

Dashboard Garment — Line efficiency, bottleneck, output per line

Buyer/SO Integration — PO dari buyer langsung trigger production plan

Generic Manufacturing

Quality Control Points — Titik kontrol untuk semua produk

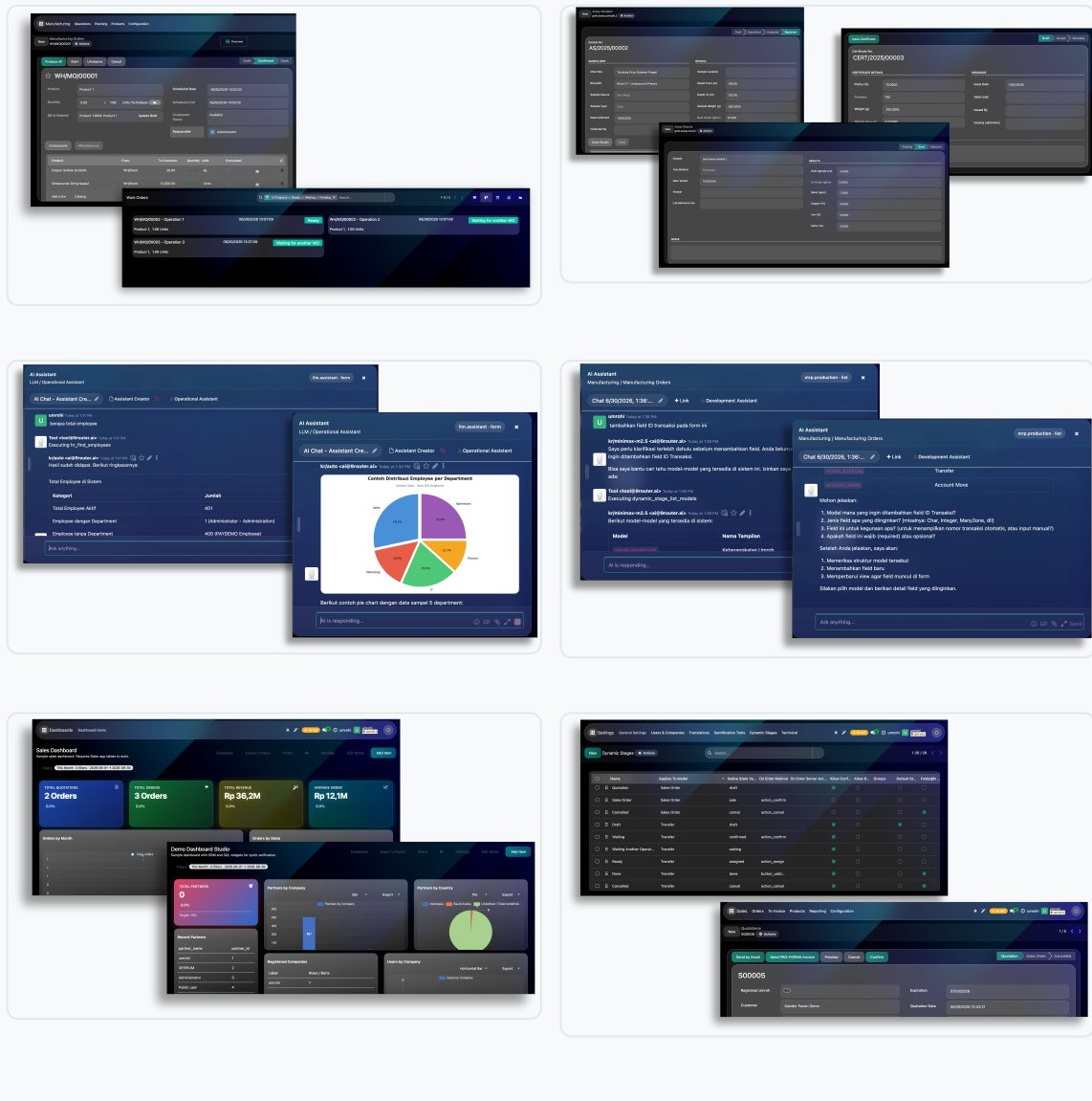
Dashboard Manufacturing KPI — Production orders, efficiency, downtime

AI Manufacturing — Create/confirm/cancel MO via natural language

Dynamic Stage — Configurable workflow untuk semua manufacturing models

Cross-Module Integration — Sales, Purchase, Inventory, Accounting, HR

Galeri & Video Demo



Xerpium ERP — xerpium.com

Hubungi kami untuk demo gratis

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