



ACon
AbhiTrix Consultancy

IMPLEMENTATION PROJECT

Production Planning [PP] Module

Bosch Global Manufacturing GmbH – Company Profile

Nature of Business

Bosch Global Manufacturing GmbH is a **multinational manufacturing enterprise** engaged in the **design, production, and global distribution of automotive components and industrial equipment**. The company operates in both B2B and OEM (Original Equipment Manufacturer) models, supplying major automotive brands and industrial clients worldwide.

- **Business Sector:** Discrete Manufacturing
- **Business Model:** B2B, OEM Supplier
- **Production Strategy:** Make-to-Stock (MTS) & Make-to-Order (MTO)
- **Digital Transformation:** Implemented SAP S/4HANA to integrate finance, logistics, and production operations across all plants globally.

Key Business Activities

Bosch Global Manufacturing GmbH undertakes the following key business activities:

Business Activity	Description
 Product Design & Development	In-house R&D for designing automotive and industrial components.
 Manufacturing	Mass production of components across plants in Germany, India, and the USA.
 Assembly & Quality Testing	Precision assembly and QA of complex parts like brake systems, gearboxes.
 Supply Chain Management	Procurement of raw materials, inventory management, and vendor collaboration.
 Sales & Distribution	Selling components to OEM customers like BMW, Tata Motors, and Ford.
 Financial Operations	Multi-currency accounting, vendor payments, tax compliance, and financial reporting.

Business Activity**Description****Analytics & Forecasting**

Sales forecasting, demand planning, and profitability analysis.

Main Products Manufactured

Bosch Global Manufacturing GmbH produces a variety of **automotive and industrial-grade components**, including:

Automotive Products

Product Name	Product Code	Description
Brake Pads	BSH-BRK001	Used in disc braking systems of cars and trucks.
Cast Iron Blocks	BSH-CST001	Semi-finished engine parts for machining.
Fuel Injection Units	BSH-FIU002	Precision devices for fuel delivery in engines.

Raw and Semi-Finished Goods

Material Name	Material Code	Description
Iron Ore	BSH-IRON001	Procured from Tata Steel for metal production.
Steel Alloys	BSH-STEEL003	Used in gear and engine housing.
Casted Engine Shells	BSH-ENGS004	Machined into finished engine parts.

Industrial Equipment

Product Name	Product Code	Description
Hydraulic Pumps	BSH-HYDP01	Used in automation and assembly systems.
Gear Mechanisms	BSH-GEAR09	High-torque transmission units for industrial use.

Major Clients (Fictionalized for Project Use)

Client Name	Region	Business Relationship
BMW AG	Germany	OEM Supply for Brake & Fuel Units
Tata Motors	India	Industrial Engine Components
Ford Motor Co.	USA	Brake Pads, Transmission Assemblies

Production Process Overview

The PP module in SAP helps manage the end-to-end production cycle:

1. **MRP Run** (TCode: MD01) – Triggers planning
2. **Production Order** (TCode: CO01) – Creates order for BSH-BRK001
3. **Goods Issue** (TCode: MB1A) – Raw materials consumed
4. **Order Confirmation** (TCode: CO15) – Operations recorded
5. **Goods Receipt** (TCode: MB31) – Finished goods posted

Company Overview: Bosch Global Manufacturing GmbH

Legal Name: Bosch Global Manufacturing GmbH

Headquarters: Berlin, Germany

Type: Multinational Manufacturing Company

Industry: Automotive Components and Industrial Equipment

Employees: 25,000+

Annual Turnover: €7 Billion (Fictionalized for project scenario)

Global Presence: Germany, India, USA, China, Mexico

Core Business Areas

Bosch Global Manufacturing GmbH is a fictionalized representation of a real-world Bosch manufacturing division, focused primarily on:

- **Automotive Components**
(e.g., brake systems, engine parts, ECUs)
- **Industrial Machinery & Tools**
(e.g., assembly lines, automation tools)

- **OEM (Original Equipment Manufacturing)**
Supplying finished goods and assemblies to automotive giants like **BMW, Tata Motors, and Ford.**
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Why SAP S/4HANA?

Bosch Global Manufacturing GmbH decided to migrate to **SAP S/4HANA** to achieve:

- Real-time visibility across **finance, procurement, production, and sales.**
 - Integration of global operations across **Germany (HQ), India, and USA.**
 - Streamlined **Production Planning** and **Material Requirements Planning (MRP).**
 - Faster financial closing and consolidation across company codes.
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Organizational Structure in SAP

Level	Description
Client	Bosch Global Manufacturing GmbH
Company Codes	DE01 (Germany), IN01 (India), US01 (USA)
Plants	DE01P1 (Berlin), IN01P1 (Bengaluru), US01P1 (Detroit)
Sales Orgs	DE-SO, IN-SO, US-SO
Purchasing Orgs	DEPO, INPO, USPO

System Goals

- Implement **Make-to-Stock** and **Make-to-Order** production strategies.
- Maintain accurate inventory and vendor performance in MM.
- Provide full **auditability** and **compliance** under IFRS.
- Ensure **smooth customer deliveries** through SD module.