



ACon
AbhiTrix Consultancy

Project Title: SAP S/4HANA Implementation for BOSCH Global Manufacturing

Project Overview

- **Client Name:** Bosch Global Manufacturing GmbH
- **Industry:** Automotive Parts Manufacturing
- **Project Type:** SAP S/4HANA Greenfield Implementation
- **Project Duration:** 6 Months
- **Modules:** FI, MM, PP, SD
- **Locations:**
 - Germany (DE01)
 - India (IN01)
 - USA (US01)
- **Vendors:**
 - Robert Bosch Engineering, Germany
 - Tata Steel, India
 - General Electric, USA

Phase-Wise Project Structure (6 Months)

Phase 1: Project Preparation (Week 1)

- **Project Charter Creation**
- **Team Structure Setup**
- **Client Kickoff**
- **System Landscape Planning**

Phase 2: Business Blueprint (Weeks 2–4)

- **Requirement Gathering**
 - Workshops by module

- To-be process documentation
- **Company Codes:**
 - DE01 – Bosch Germany
 - IN01 – Bosch India
 - US01 – Bosch USA
- **Plants & Storage Locations:**
 - DE01P1 – Berlin Plant
 - IN01P1 – Bengaluru Plant
 - US01P1 – Detroit Plant
- **Vendors:**
 - V1000 – Tata Steel Ltd (Raw materials)
 - V1001 – Siemens Ltd (Machinery)
 - V1002 – GE Plastics (Packaging)

Phase 3: Configuration – Weeks 5–12

FI Configuration (DE01, IN01, US01)

1. **Define Company, Company Codes**
2. **Assign Company Code to Company**
3. **Define Chart of Accounts**
 - INT_COA
4. **Assign COA to Company Code**
5. **Define Fiscal Year Variant**
 - K4 (Jan–Dec)
6. **Define Posting Period Variant**
7. **Define Document Types (SA, KR, DR, DZ)**
8. **Define Number Ranges**
9. **Define GL Master Data**
 - 100000 – Bank Account
 - 200000 – Accounts Payable
 - 300000 – Accounts Receivable
10. **Create Bank Master & House Banks**
11. **Define Tolerance Groups**
12. **Taxes (Input/output) – using TAXINN**

MM Configuration

1. **Define Plant, Storage Location**
2. **Define Purchasing Organization & Group**
3. **Assign Plant to Company Code**
4. **Assign Purchasing Org to Plant & Company Code**

5. **Define Material Types (ROH, FERT, HALB, HIBE)**
6. **Define Number Ranges for Materials**
7. **Define Vendor Master**
8. **Define Info Records**
9. **Define Source List**
10. **Create Purchase Requisition/Purchase Orders**
11. **Define Release Strategy**

PP Configuration

1. **Define Plant**
2. **Define Work Centers (Machining, Assembly)**
3. **Define Bill of Materials (BOM)**
 - BOM for Product ID: BSH-ENG1001
4. **Define Routing**
5. **Define Production Scheduling Profile**
6. **Define MRP Controller, MRP Type**
7. **Configure MRP Parameters**
8. **Planning Strategies**
 - Make to Stock (10)
 - Make to Order (20)
9. **Define Capacity Planning**

Phase 4: Master Data Preparation – Weeks 13–16

FI:

- Create GL Master Records
- Vendor & Customer Master Data

MM:

- Material Master:
 - **FERT** – Finished Product (BSH-BRK001 – Brake Pad)
 - **ROH** – Raw Material (BSH-IRON001 – Iron Ore)
 - **HALB** – Semi-Finished (BSH-CST001 – Cast Iron Block)
- Vendor Master:
 - **V1000** – Tata Steel India
 - **V1001** – Siemens Germany
 - **V1002** – GE USA

PP:

- BOM:
 - Brake Pad = Iron Ore + Moulding Paste + Packaging
 - Routing:
 - Step 1 – Melting
 - Step 2 – Casting
 - Step 3 – Assembly
 - Work Centers:
 - WC-MELT01 (Melting)
 - WC-CAST02 (Casting)
 - WC-ASMB03 (Assembly)
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Phase 5: Transaction Activities – Weeks 17–22

FI

- FB50 – General Ledger Posting
- F-02 – Manual Journal Entry
- F-43 – Vendor Invoice
- F-53 – Outgoing Payment
- F-28 – Incoming Payment

MM

- ME51N – Purchase Requisition
- ME21N – Purchase Order
- MIGO – Goods Receipt
- MIRO – Invoice Verification
- MRBR – Blocked Invoice

PP

- MD01 – MRP Run
 - CO01 – Create Production Order
 - CO02 – Change Order
 - CO15 – Confirmation
 - MB31 – Goods Receipt for Production Order
 - MF47 – Planning Table
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Phase 6: Testing & Cutover – Weeks 23–24

- Unit Testing
- Integration Testing
- UAT with users
- Cutover Planning
- Data Migration from Legacy using LSMW
- Go-Live Preparation

1. FINANCE (FI) MODULE CONFIGURATION

1.1 Define Company

- **Company ID:** BGMG
- **Company Name:** Bosch Global Manufacturing GmbH
- **Country:** DE (Germany)
- **Currency:** EUR

1.2 Define Company Codes

Code	Name	Country	Currency
DE01	Bosch Germany	DE	EUR
IN01	Bosch India	IN	INR
US01	Bosch USA	US	USD

1.3 Chart of Accounts

- **Chart ID:** INT_COA
- **Description:** International COA
- **Language:** English

1.4 Fiscal Year Variant

- **Variant:** K4
- **Period:** Jan to Dec

1.5 Document Types

Doc Type	Description	Number Range
SA	General Ledger	01
KR	Vendor Invoice	02
DR	Customer Invoice	03
DZ	Incoming Payment	04

ZP Outgoing Payment 05

1.6 Number Ranges (Examples)

Number Range	From	To
01	10000000	10999999
02	11000000	11999999

1.7 GL Accounts

GL Number	Description	Account Group	Currency
100000	Cash at Bank	1000	Local
200000	Accounts Payable	2000	Local
300000	Accounts Receivable	3000	Local
400000	Sales Revenue	4000	Local
500000	Material Consumption	5000	Local
600000	Salaries Payable	6000	Local
700000	Rent Expense	7000	Local
800000	Utilities Expense	8000	Local

1.8 House Bank

- **Bank Key:** DEUTDEFFXXX
- **Bank Name:** Deutsche Bank AG
- **Account Number:** 987654321
- **House Bank ID:** DB01

1.9 Tax Configuration (Example Germany)

- **Tax Code:** V0 – Input Tax 19%
- **Tax Code:** A0 – Output Tax 19%
- **Tax Procedure:** TAXDE

2. MATERIALS MANAGEMENT (MM) CONFIGURATION

2.1 Plants and Storage Locations

Plant Code	Plant Name	Location
DE01P1	Berlin Plant	Germany
IN01P1	Bengaluru Plant	India
US01P1	Detroit Plant	USA

Storage Loc	Description	Plant Code
SL01	Raw Material Store	DE01P1

SL02	Finished Goods	DE01P1
SL03	Scrap Area	DE01P1
SL04	Quality Inspection	DE01P1

2.2 Purchasing Organizations

Code	Description
DEPO	Bosch Purchasing Germany
INPO	Bosch Purchasing India
USPO	Bosch Purchasing USA

2.3 Purchasing Groups

Code	Name
001	Engineering Buyer
002	Maintenance Buyer
003	Production Buyer

2.4 Material Types

Type	Description
ROH	Raw Material
FERT	Finished Product
HALB	Semi-Finished Product
HIBE	Operating Supplies

2.5 Material Master

Material Code	Description	Type	Plant	Base UoM
BSH-IRON001	Iron Ore	ROH	DE01P1	KG
BSH-BRK001	Brake Pad	FERT	DE01P1	EA
BSH-CST001	Cast Iron Block	HALB	DE01P1	KG
BSH-PACK001	Packaging Box	HIBE	DE01P1	EA

2.6 Vendors

Vendor Code	Name	Country	Material Supplied
V1000	Tata Steel Ltd	IN	Iron Ore
V1001	Siemens Ltd	DE	Machinery
V1002	GE Plastics	US	Packaging
V1003	BASF Chem	DE	Chemicals

2.7 Pricing Procedure (Purchasing)

- **Procedure:** ZPUR_DE
- **Steps:**
 - Gross Price
 - Discount
 - Freight
 - Taxes (Input VAT)

3. PRODUCTION PLANNING (PP) CONFIGURATION

3.1 Work Centers

WC Code	Description	Plant	Work Area
WC-MELT01	Melting Unit	DE01P1	Furnace Zone
WC-CAST02	Casting Station	DE01P1	Casting Floor
WC-ASMB03	Assembly Line	DE01P1	Assembly Area

3.2 Bill of Materials (BOM)

- **Header Material:** BSH-BRK001 (Brake Pad)
- **Components:**
 - BSH-IRON001 – 5 KG
 - BSH-CST001 – 3 KG
 - BSH-PACK001 – 1 EA

3.3 Routing

- **Material:** BSH-BRK001
- **Operations:**
 - Op 001 – Melting (WC-MELT01)
 - Op 002 – Casting (WC-CAST02)
 - Op 003 – Assembly (WC-ASMB03)

3.4 MRP Settings

- **MRP Controller:** 001
- **MRP Type:** PD (Planning)
- **Lot Size:** EX (Lot-for-lot)
- **Planning Strategy:** 10 (Make-to-Stock)
- **Procurement Type:** E (In-house production)

4. TRANSACTION DATA – (FI, MM, PP)

4.1 FI Transactions (Company Code: DE01)

Date	TCode	Description	Amount (EUR)	Notes
2025-06-01	FB50	GL Posting (Rent)	5,000	Office Rent
2025-06-02	F-43	Vendor Invoice (Tata)	12,000	Iron Ore
2025-06-03	F-53	Outgoing Payment (Tata)	12,000	Payment to Tata
2025-06-05	F-28	Incoming Payment (Customer)	18,000	Sales Receivable
2025-06-07	F-02	Journal Entry (Salary)	8,000	Monthly salary accrual

4.2 MM Transactions

Date	TCode	Description	Qty	Material	Plant
2025-06-01	ME51N	Purchase Requisition	1	BSH-IRON001	DE01P1
2025-06-02	ME21N	Purchase Order	1	BSH-IRON001	DE01P1
2025-06-03	MIGO	Goods Receipt	500	BSH-IRON001	DE01P1
2025-06-04	MIRO	Invoice Verification	1	BSH-IRON001	DE01P1

4.3 PP Transactions

Date	TCode	Description	Material	Quantity	Plant
2025-06-06	MD01	MRP Run	BSH-BRK001		DE01P1
2025-06-07	CO01	Create Prod Order	BSH-BRK001	100	DE01P1
2025-06-08	CO15	Confirm Prod Order	BSH-BRK001	100	DE01P1
2025-06-09	MB31	GR from Prod Order	BSH-BRK001	100	DE01P1

4. SALES AND DISTRIBUTION (SD) CONFIGURATION

4.1 Sales Organization

Code	Description	Country
DE-SO	Bosch Sales Germany	DE
IN-SO	Bosch Sales India	IN
US-SO	Bosch Sales USA	US

4.2 Distribution Channels

Code Description

10 Direct Sales
20 Online Sales
30 Retail Sales

4.3 Divisions

Code Description

01 Automotive
02 Industrial Goods

4.4 Sales Areas

(Sales Organization + Distribution Channel + Division)

Sales Area	Description
DE-SO/10/01	Bosch DE Direct Sales Automotive
IN-SO/20/02	Bosch IN Online Industrial Sales
US-SO/30/01	Bosch US Retail Automotive

4.5 Customers (Sold-To Parties)

Customer Code	Name	Country	Sales Org	Distribution Channel	Division
CUST-DE001	BMW AG	DE	DE-SO 10		01
CUST-IN001	Tata Motors	IN	IN-SO 20		01
CUST-US001	Ford Motor Co.	US	US-SO 30		01

4.6 Pricing Conditions

Condition Type	Description	Value Type	Value	Currency
PR00	Base Price	Fixed	180.00	EUR
K004	Material Discount	Percentage	5%	
MWST	Output Tax	Percentage	19%	

4.7 Output Determination

Output Type	Description	Medium	Form Name
RD00	Order Confirmation	1 (Print)	ZSMART_ORDER
BA00	Delivery Note	1 (Print)	ZSMART_DELIVERY
RD03	Billing Document	1 (Print)	ZSMART_BILLING

4.8 Delivery Plants

Plant Code Description

DE01P1 Berlin Plant
IN01P1 Bengaluru Plant
US01P1 Detroit Plant

5. TRANSACTIONS – (Company Code: DE01)

5.1 SD Transactions

Date	TCode	Description	Customer	Material	Qty	Amount (EUR)
2025-06-10	VA01	Create Sales Order	CUST-DE001	BSH-BRK001	100	18,000
2025-06-11	VL01N	Create Outbound Delivery	CUST-DE001	BSH-BRK001	100	
2025-06-12	PGI	Post Goods Issue	CUST-DE001	BSH-BRK001	100	
2025-06-13	VF01	Create Billing Document	CUST-DE001	BSH-BRK001	100	18,000
2025-06-14	F-28	Incoming Payment	CUST-DE001			18,000
