

✓ Material Requirement Planning (MRP)

📌 Concept:

MRP is a system that helps companies **plan and manage materials needed for production**. It ensures that the **right materials** are available **at the right time**, in the **right quantity**, so production doesn't stop.

🔧 Applications:

- Used in manufacturing **to avoid shortage of parts**.
- Helps **schedule production and purchasing**.
- **Reduces extra inventory and saves cost**.
- Commonly used where **products have many parts**, like automobiles, electronics, or machines.

💻 Popular MRP Software:

Software	Best For	📄
MRPeasy	Small to mid-sized manufacturing units	
Odoo MRP	Flexible, open-source for all business sizes	
SAP MRP	Large enterprises with complex systems	
Microsoft Dynamics 365	Cloud-based MRP + ERP for growing companies	
TallyPrime with Add-ons	Used in India for simpler MRP needs	