

## 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.

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### 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	