

# **Stock Turnover Ratio Guide**

A comprehensive guide to calculating and understanding inventory efficiency.

### 1. Calculation Formulas

The Stock Turnover Ratio measures how many times a company has sold and replaced its inventory during a specific period.

Stock Turnover Ratio = Cost of Goods Sold (COGS) ÷ Average Inventory

To calculate the Average Inventory:

Average Inventory = (Beginning Inventory + Ending Inventory) ÷ 2

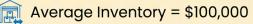
### 2. Calculation Example

## **Stock Turnover Ratio Calculation**



## **Example Calculation:**







Suppose a retail company has the following figures:

Cost of Goods Sold (COGS): \$500,000

Beginning Inventory: \$90,000

Ending Inventory: \$110,000

Step 1: Calculate Average Inventory

(\$90,000 + \$110,000) / 2 = \$100,000

**Step 2: Calculate Stock Turnover Ratio** 

\$500,000 / \$100,000 = 5

Result: The company turned over its inventory 5 times during the year.

## 3. Stock Turnover Ratio in Days

Also known as Days Sales of Inventory (DSI), this metric tells you how many days it takes, on average, to sell your entire inventory.

### Days Sales of Inventory = 365 ÷ Stock Turnover Ratio

Using our previous example where the Stock Turnover Ratio is 5:

 $365 \div 5 = 73 \text{ Days}$ 

## 4. Deep Dive: Low Stock Turnover

A low stock turnover ratio generally indicates that a company is holding onto inventory for too long. While this isn't always negative (e.g., in luxury industries), it often signals underlying issues.

#### **Common Causes:**

- Overstocking: Ordering more products than demand justifies.
- Weak Sales: Ineffective marketing or economic downturns.
- Poor Inventory Management: Lack of visibility leading to obsolete items.

#### **Potential Risks:**

- High Holding Costs: Storage, insurance, and maintenance.
- Cash Flow Constraints: Capital tied up in unsold inventory.

• Obsolescence: Products becoming outdated or spoiled.

Key Takeaway: If your ratio is lower than your industry average, investigate whether it's a strategic choice or an efficiency problem.

## 5. Community Insights: Common Questions

Based on discussions from business communities, here are answers to the most common confusing points:

### 1. Why use COGS instead of Sales Revenue?

The Confusion: "Isn't Sales / Inventory the same thing?"

The Answer: No. Sales revenue includes profit margin. Inventory is recorded at cost. Dividing Sales by Inventory gives an inflated ratio. You must compare cost to cost.

### 2. Why "Average" Inventory?

The Confusion: "Why not just use current inventory?"

The Answer: Inventory levels fluctuate (e.g., high before holidays, low after). A single snapshot is misleading. The average smooths out spikes for a fair picture.

### 3. What does the number actually tell me?

The Insight: Think of it as "Refills".

If your ratio is 5, imagine you refilled your empty warehouse 5 times this year. It measures the velocity of your cash cycle—how fast you turn cash into goods and back.

# 6. Industry Benchmark Data

Inventory turnover benchmarks across different industries (based on publicly traded U.S. companies):

Industry / Sector	Ratio
Retail - Food & Beverage	
Grocery Stores (Overall)	15x
Perishable Goods (Baked Goods)	69.5x
Fruit & Vegetable Markets	29.1x
Gas Stations & Convenience Stores	24-37x
Retail - General	
Retail Average	9x
Automotive Parts	15-20x
Consumer Electronics	8-15x
Pharmacies	12-15x
Home Improvement	5-8x
Clothing & Accessories	4-6x
Department Stores	3-4x
Bookstores	3-4x
Manufacturing	
Manufacturing (General)	5-10x
Basic Materials	5.02x
Capital Goods	2.44x

Note: These benchmarks are based on data from publicly traded U.S. companies. Top-performing companies often achieve ratios significantly higher than industry averages.