

Optimizing Economic Order Quantity

Total Cost of Ownership approach to optimize transaction cost and inventory

April 2016



Executive Summary

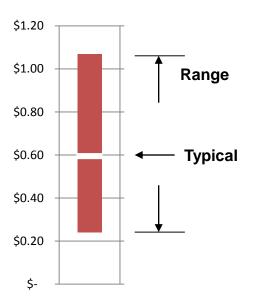
- Order Release Ordering the right amount of raw materials from a supplier is essential to balance improved pricing from economies of scale and limiting inventory on the balance sheet.
- Order Cost Each order has an internal transaction cost for placing the order, receiving shipments, and warehousing.
- Inventory Costs and Risks Carrying inventory increases working capital on the balance sheet as well as the risk due to obsolescence.
- Total Cost of Ownership The Cost & Capital EoQ optimizer tools helps procurement professionals determine the best order release to maximize return on invested capital.



Drivers of Optimal Order Release

Calculating the proper amount of material depends on the ordering and handling costs, size of the discount, cost of capital, annual consumption and shelf life.

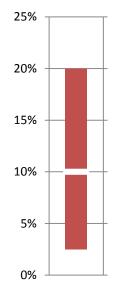
Industry Benchmarks



PO Release



Cost of Capital



Average internal cost of receiving and handling in a Warehouse / DC

Receiving and Handling

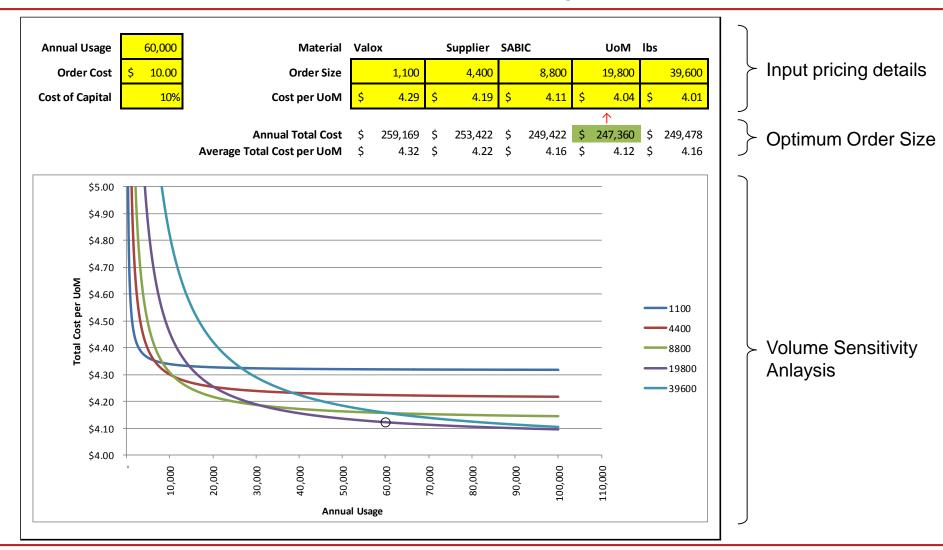
Administrative costs to process an order vary based on automation and footprint

Weighted Average Cost of Capital varies based on ownership, debt and risk



Order size optimizer tool

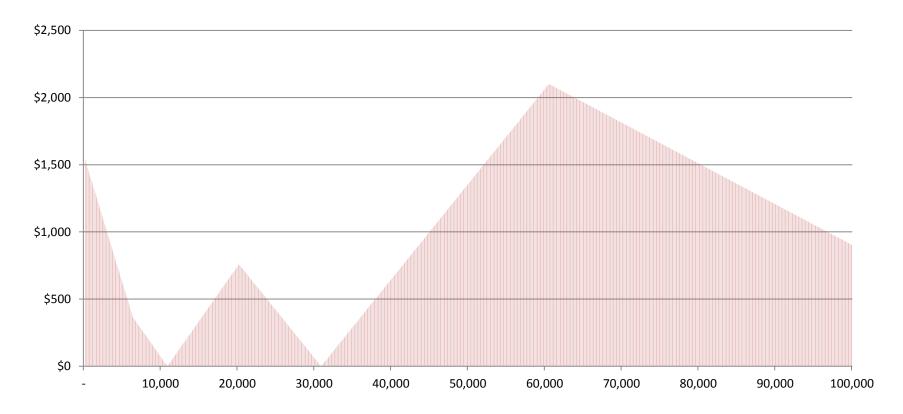
Cost & Capital's EoQ optimizer evaluates unit savings and inventory to ensure the order release maximizes shareholder value through return on invested capital.





Missed Opportunities

Choosing the wrong order quantity for a single family, grade and adders combination can cost over \$1000 annually—multiply by every SKU.



The risk of incorrect ordering multiplied by every SKU and location can negate any perceived gains in working capital turns.



Cost & Capital Partners Introduction

- Cost & Capital Partners focuses on the two most critical levers for shareholder value today - Cost Efficiency and Capital Efficiency
 - Cash should be treated as the valuable resource it is
 - Spend management preserves cash
 - Capital efficiency frees cash trapped in traditional operations
- We deliver results not just recommendations, each and every time
 - We stand behind our recommendations and prefer to be involved in implementation
 - We conduct negotiations on behalf of our clients
 - We are passionate about our work and the results
 - We work with our clients to implement the changes required to improve the business

Previous project work







For more information contact:

Tom Bokowy, Partner (208) 610-0032 Cost & Capital Partners LLC tbokowy@costandcapital.com

