



Optimizing Volume Price Breaks for Cost and Efficiency

This whitepaper examines the strategic importance of volume price breaks, offering insights on how informed decision-making can unlock significant cost savings and operational benefits.

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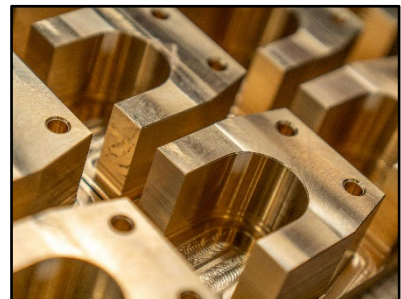
Introduction

In today's competitive landscape, supply chain leaders must scrutinize every opportunity to reduce costs. One area that is often overlooked is the policies and processes around volume price breaks or scale pricing. Based on our work over the last several years, we consistently see little to no effective policies on this topic in even the largest organizations. The lack of a cohesive approach can have a substantial impact on cost efficiency, particularly in custom, build-to-print parts. Failing to manage volume price breaks effectively can lead to inflated expenses, missed savings, and suboptimal supplier relationships. This whitepaper will examine the strategic importance of volume price breaks, offering insights on how informed decision-making can unlock significant cost savings and operational benefits.

What are Volume Price Breaks?

Volume price breaks, also known as scale pricing, refer to a pricing structure where the cost per unit decreases as the order quantity increases. Suppliers typically offer volume price breaks for two reasons: 1) to incentivize larger purchases; and 2) to distribute the fixed or set-up costs involved in producing and delivering the parts. In the context of build-to-print parts like printed circuit board assemblies (PCBAs), machined parts, and other components with significant setup costs, volume price breaks can play a critical role in cost control.

When organizations fail to optimize their purchasing decisions for these price breaks, they leave money on the table. In our experience working with multiple companies, including the Fortune 500, purchasing decisions for these breaks are often based on intuition rather than a structured process. The absence of a standardized approach leads to inconsistent choices, ultimately diminishing opportunities for savings.



The key to unlocking savings lies in making data-driven decisions regarding volume price breaks. Relying solely on a buyer's intuition, especially in large corporations where each buyer may have their own approach, can lead to inefficiencies. To illustrate the value of data-driven strategies, let's examine a real-world case study that highlights the potential for cost savings.

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Case Study: Realizing Savings Through Volume Price Optimization

One of Symphony's clients, a Fortune 500 company, was purchasing a custom-fabricated part in quantities of 32 units at a price of \$390 per unit. This seemed like a reasonable decision based on the buyer's judgment. However, when we analyzed the supplier's volume price breaks and setup costs, it became clear that a more significant opportunity existed.

We used our tools to analyze the costs and found that the setup cost—or lot charge—was approximately \$4,400 per order. Factoring this into the analysis, along with demand stability, transaction costs, and inventory costs, we concluded that the optimal order quantity was 128 units and a price of \$287. This adjustment resulted in a price reduction of 26%, and even after accounting for additional inventory costs, the net annual savings amounted to 20%.

In addition to direct cost savings, this larger order also optimized the supplier's capacity utilization. Smaller-than-optimal lot sizes required frequent setups, reducing the supplier's production efficiency, and therefore, capacity. By ordering larger quantities, the supplier's setup time was reduced, freeing up resources for additional production.

Further Optimization: Negotiating Lot Charges

For this same part, our analysis revealed that the supplier's \$4,400 lot charge was disproportionately high. We conducted a detailed cost analysis, reviewing labor costs, machine usage, and component changeover times, and found that the actual cost should have been much lower. Armed with this data, we negotiated with the supplier and successfully reduced the lot charge to \$1,800.

With this reduction, the efficient order quantity dropped to 80 units at a price of \$272 each. The net result was a 30% price drop and total cost savings of 25% when inventory costs were considered. Across the entire category of parts purchased, our data-driven approach led to over 10% savings, highlighting the tremendous potential for cost reductions when volume price breaks are managed effectively.



Barriers to Success: Lack of Tools and Processes

We have repeatedly witnessed the power of establishing thoughtful processes around volume price breaks. Unfortunately, most companies are completely unaware of the potential. This is because these decisions are buried deep in the purchasing process and most leadership is unaware that there is a problem. As a result, companies have not developed the right set of tools, processes, and policies to effectively manage this opportunity. The buyers are mostly left on their own and do not have the resources to make informed decisions. Inconsistent practices between buyers, lack of data visibility, and insufficient training all contribute to missed savings opportunities. Even the most diligent buyers struggle to achieve optimal results without standardized tools and clear guidelines.

This challenge is further compounded by external factors such as market volatility, changing demand patterns, and supplier capacity constraints. Most companies do not have a playbook for how to address the trade-off between inventory risks and costs under changing business conditions. In fact, most wait until there is a crisis of some sort and then over-react. To navigate these complexities, companies need a structured approach to volume price break analysis—one that empowers buyers with data-driven insights and the ability to make informed trade-offs between cost, risk, and inventory management. The goal is to give leadership the dials to turn so they can steer the business consistently and are not at the whim of individual biases or predispositions.

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How Symphony Consulting Can Help

Symphony has developed a proprietary set of tools and methodologies designed to optimize practices around volume price breaks. Our approach allows us to gain new insights into costing and to help companies establish consistent processes. Using simple data inputs like PO history, scale pricing, demand history, etc., we are able to quickly determine the potential. We also conduct simulations to consider options under different business conditions and using various assumptions for inbound transaction costs (e.g. purchasing, shipping, receiving, accounts payable), inventory costs, and risks (e.g. cost of capital, storage, risk of damage or obsolescence).

In the end, we are able to deliver a complete picture including cost savings, inventory impact, and costs associated with transaction overhead. Symphony's work is grounded in rigorous data analysis, and our tool can be customized to account for various factors, including:

- Economic conditions (e.g., supply chain disruptions, inflation)
- Inventory carrying costs
- Demand variability and risk aversion
- Supplier production capabilities and constraints

This activity is carried out with little resource bandwidth required from you or your staff. Our implementation team, comprised of business analysts, supply chain managers, and engineers, will do the vast majority of the work and needs only a minimal amount of support. As part of our initial analysis, we can also review your existing supplier contracts to look for clauses or approaches that impact value. Once we have a solid understanding of the opportunities, we can work together with you to figure out the best way to realize the full savings potential.

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Conclusion and Call to Action

In today's cost-conscious environment, optimizing volume price breaks represents a significant, yet often overlooked, opportunity for supply chain leaders. By transitioning from intuition-based decisions to a data-driven approach, your organization can realize substantial cost savings, improve supplier relationships, and enhance overall operational efficiency.

Symphony stands ready to help your organization unlock these savings. With our proprietary tools, proven methodology, and skilled resources, we can help you make informed decisions that drive consistent, measurable results. If you're interested in learning how Symphony can optimize your volume price breaks and enhance your bottom line, please contact us at info@symphonyconsult.com to schedule a discussion.

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