

## **Accelerating New Product Introductions While Redefining the Supply Chain**

Medical device OEM's face intense market pressures to consolidate their supply chains and drive down costs. A well-designed supply chain network can significantly improve margins, support expansion into new markets, enhance the customer experience, and reduce operating costs. **NPI/Medical's solution to these pressures is to redefine traditional supply chain management through optimized processes aimed at efficiency and continuous improvement.** Our streamlined approach brings cost reductions, consolidation of your supplier base, and faster product launch utilizing a speed-to-market approach. We understand managing and optimizing your supply chain is critical for the seamless execution of the entire New Product Introduction (NPI) lifecycle from initial design to manufacture in a cost-effective and accelerated manner.

For example, NPI/Medical offers kitting from P2P (Prototype-to-Production) for its medical device customers to accommodate all phases of the NPI lifecycle. NPI/Medical seeks to exceed customers' expectations and maintain hard delivery times whether a product is shipped to forecast, or shipped on demand-driven basis without anticipated timelines. By maintaining set or anticipated forecasting via inventory storage, the result customers' receive is significant cost savings for product distribution. Following production, the challenges of strategic sourcing, procurement, fulfillment and distribution all are handled by NPI/Medical.

**We offer two levels of kitting solutions depending upon customer requirements:**

1. **Prototype assembly and packaging:** dedicated Grade 7 Class 10,000 soft wall Cleanroom for small volume kitting, assemblies, testing, and packaging.
2. **Production kitting:** full box build and complete component fulfillment.



Flexibility for assembly guides our kitting operations thus product changeovers can be kitted, presented to the assembly system and changed again if required. The U-shape assembly design and KANBAN allows the operator to move freely from right to left providing optimized ergonomic flow and ease of assembly. The bins allocate the daily requirements for the build and are bar coded for inventory accuracy and confirmation of component count. All products are weighed to ensure components are properly assembled through hourly kit inspections. Customers benefit from cost reductions, streamlined inventory management, and on-time delivery for distribution.

## **Let NPI/Medical Redefine Your Supply Chain.**

### **Assembly Options**

- Automatic label print, bag, and seal
- Fully automated assemblies
- Leak testing
- Multi-component paint and coatings
- Multi-colored pad printing
- Painting, plating and decorating
- Semi-automated assemblies
- Sub-assemblies

### **Packaging Options**

- 1D & 2 D barcode capable
- Clamshell packaging
- Direct thermal printing
- E-Z open plastic bags
- Inert gas purged
- Label printing
- Laser engraving
- Trays, lids, and pouches
- Tyvek static dissipative
- Vapor proof

### **Tool Room Capabilities**

- In-house fixture design & build
- In-house tooling

### **Advantages**

- Consignment programs
- Cost containment
- Full lot number product traceability
- On-time delivery
- Order and received quantity reconciliation
- Procurement and fulfillments to a single-source vendor
- Supply chain management

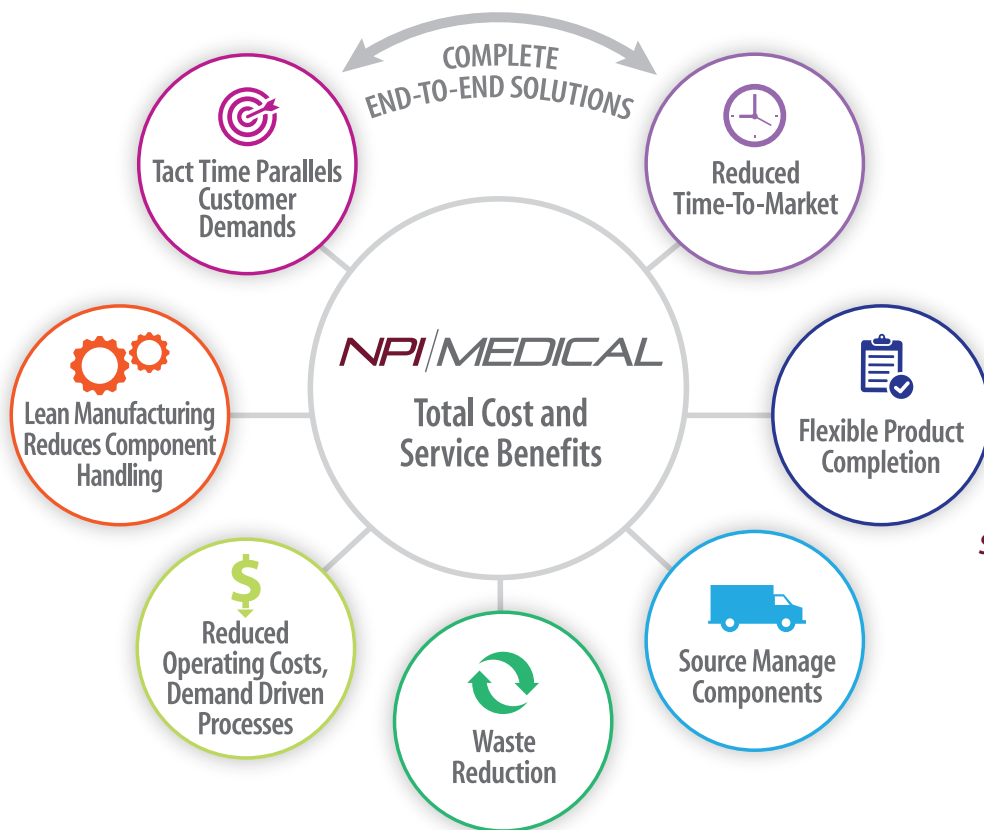
***NPI/Medical offers comprehensive kitting solutions to manage your entire supply chain.***

### Kitting & Assembly Operations

- Dedicated climate controlled white room environment for kitting
- 24/5 kitting
- Short run or low volume kitting defined as 200-500 kits per day to higher volume kitting 1,000+ kits per day
- 1 Grade 8 Class 100,000 Cleanroom equipped with six injection molding machines from three 40 ton to three 110 ton for Cleanroom molding
- 2 Grade 7 Class 10,000 Cleanrooms for assemblies, sub-assemblies, testing, packaging, and decoration

### Our Kitting and Assembly Services Enable Us To:

- Fulfill individual customer orders
- Manage inventory of purchased components and packaging supplies
- Manage sourcing and labor
- Rapidly react to increased demand for custom packaged products
- Reduce customer inventory by warehousing molded and purchased components to finalize product kits for just-in-time delivery
- Schedule and work to long range customer forecasts
- Support 3PL and VMI programs



### Summary of Benefits

- Working with one supplier from product development through to full production launch to guarantee speed-to-market
- Reduction in supply chain costs and working capital needs
- Proven processes for your NPD needs
- On-time delivery for distribution