



# Your Complete Outsourcing Partner

EXPERTISE TO TURN YOUR IDEAS INTO REALITY

The difference between a vendor and a partner



## THERE ARE OEM SUPPLIERS. THEN THERE'S B. BRAUN'S OEM DIVISION.

We set ourselves apart with over 50 years of OEM experience and as part of a highly regarded global company with over 170 years in the medical device and pharmaceutical industry. When you've been designing, engineering and manufacturing devices as long as we have, you acquire a rare level of expertise and experience.

Our longevity in the industry translates into stability and strength. While other companies come and go, B. Braun is deeply established around the globe. Count on us to be here for you.

We're unique in our ability to deliver both a wealth of products and a comprehensive suite of services. We can help you with packaging, sterilization and regulatory compliance. We're an OEM partner in the most complete sense of the word.

B. Braun's OEM division is constantly improving. There's a commitment to meeting an extensive list of quality regulations and standards that extends to our entire operation. We follow the tenets of lean manufacturing to eliminate waste while streamlining processes. Our relentless drive toward continuous improvement helps us – and you – stay competitive. As a customer, you'll discover that we strive to surpass expectations.

Finally, we're always sharing expertise. These words are more than a corporate tagline. It's an initiative that gives you immediate access to our global engineering, manufacturing and clinical expertise.

You can choose from plenty of OEM suppliers, but only B. Braun delivers the depth and breadth of expertise that comes from decades of industry leadership.



Services and capabilities that can be summed up in one word: comprehensive



## WHERE QUALITY PRODUCTS BEGIN

B. Braun has been designing devices for more than 50 years. No other OEM supplier has our depth of engineering expertise. We embrace collaborative thinking and work with you to design a product that meets your requirements and keeps manufacturability in mind.

## COMPLETE PROJECT MANAGEMENT

When you partner with B. Braun, you don't work with just one person. Your project includes a dedicated team – an account manager, product engineer, quality engineer, regulatory analyst, customer service representative and sales coordinator – who helps meet your design, quality and regulatory requirements. If you need to speak with an expert, you have direct access to any of our specialists. It's project management at it's most thorough.



## MEETING YOUR MOLDING AND EXTRUSION NEEDS

As a leading provider of IV therapy products, B. Braun has extensive extrusion capabilities. In a single year, we extrude enough tubing to circle the earth nearly four times. Our capabilities include single- and multi-lumen extrusion in a wide range of sizes and materials, including DEHP-free options.

B. Braun also offers complete in-house injection molding. Our advanced 400,000 square foot manufacturing center houses more than 80 injection molding machines with presses ranging from 55 to 330 tons and includes a dedicated 16,500 square foot operational ISO Class 8 facility. An in-house tool and machine shop maintains production molds and works closely with in-house designers, process engineers and material experts to improve molding efficiency. It provides the flexibility to produce custom core pins and inserts to modify an existing mold to meet your demands and accelerate development.

## Manufacturing capabilities and packaging options



### MANUFACTURING ONLY MEDICAL DEVICES

B. Braun exclusively designs and manufactures products for the medical market. This single-minded focus on medical devices established our reputation for unrivaled quality. We've built advanced manufacturing facilities around the world, and our facility in Allentown, Pa. is no exception. It features state of the art quality systems and ISO Class 8 clean rooms. With the flexibility to change from manual to semiautomated and fully automated operations, we can produce both small and large scale volumes.

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#### MANUFACTURING CAPABILITIES INCLUDE:

- Ultrasonic welding
  - Solvent bonding
  - UV curing
  - Hole drilling
  - Pad printing
  - RF tipping
  - Ballooning
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### DELIVERING SMARTER PACKAGING SOLUTIONS

Our extensive packaging capabilities allow you to rely on B. Braun as a single source for custom private-labeled devices, procedure kits and solutions. A full color in-house print shop handles all of your labeling needs while providing convenience and cost control. Our engineers ensure packaging integrity is maintained based on ASTM standards.

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#### PACKAGING OPTIONS INCLUDE:

- Blister packs
  - Flexible pouches
  - Polybags
  - Non-sterile bulk
  - Containers for solutions
  - Kits and trays
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All the support you need



## SAFETY IN VALIDATION AND STERILIZATION

B. Braun's in-house EtO sterilization facility is one of the largest on the East Coast. It features eight 130 to 3,600 cubic foot fully validated chambers- all microprocessor controlled for precise operation. On-site lab staff verifies the sterility of each lot using three requirements: ISO, FDA/QSR and USP. A rigorous Quality Assurance program ensures every product meets our exacting standards and regulatory requirements. We also offer expertise in designing products for alternate methods of sterilization.

## ANOTHER MEASURE OF QUALITY CONTROL: LAB SERVICES

Our on-site Quality Control analytical lab features the latest, most advanced testing equipment. Areas of focus include microbiology, chemistry, bacterial endotoxin testing and ISO 10993 biocompatibility. When you work with B. Braun, your project receives the highest level of attention – helping to ensure product safety and improve speed to market.





## ALL THE REGULATORY SUPPORT YOU NEED

B. Braun has a complete in-house regulatory staff for both devices and drugs. Our analysts will review all labeling to ensure compliance with FDA and global regulations. We offer support in filing drug applications, 510(k)s, PMAs, and CE markings and assist in the regulatory assessment of product changes. B. Braun can also provide NAFTA certificates and country-of-origin letters.

## STRENGTHEN THE SUPPLY CHAIN

B. Braun helps eliminate supply chain inefficiencies. Using our extensive base of qualified suppliers, we can generate purchasing efficiencies. B. Braun can save your company time and resources through collaborative inventory management for pull-based minimum/maximum Kanban management.

We build ideas



## CUSTOMIZING YOUR KITS

B. Braun is one of the country's leading custom kit manufacturers. We can select from hundreds of standard components – supplied by dozens of approved vendors – and package them with your proprietary devices. Kits can be created using rigid trays, flex web blisters and pouches. In-house capabilities include thermoforming, printing, packaging, sterilization and lab services.



## COMPLETE FLUID ADMINISTRATION CAPABILITIES

We design and produce an extensive range of standard and custom fluid administration products to meet a variety of needs. Our manufacturing facilities are flexible enough to produce everything from customized products requiring hand assembly to high-volume quantities.

Products Include:

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- IV sets
  - Extension Sets
  - Irrigation Sets
  - High flow/large volume sets
  - Burette Sets
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Using our extensive range of in-house extrusion capabilities, B. Braun can manufacture products in varying sizes and materials. You'll also find hundreds of standard B. Braun components ready to be incorporated into your sets to save time and money.

Products Include:

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- Adapters and connectors
  - Stopcocks
  - Valves
  - Clamping devices
  - Spikes and chamber assemblies
  - Burettes
  - Syringes
  - Capping devices
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## A WORLD LEADER IN VALVES

B. Braun is an established leader in designing and manufacturing both standard and custom valves. Our manufacturing facility handles everything from full automation for high-volume production to single-station manual assembly for low-volume custom valves. Valves can be incorporated into sterile, private-label kits and assemblies.

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### AVAILABLE OPTIONS INCLUDE:

- Needle-free
  - Dual check
  - Aspiration
  - Low pressure
  - Trumpet
  - Normally closed
  - In-line
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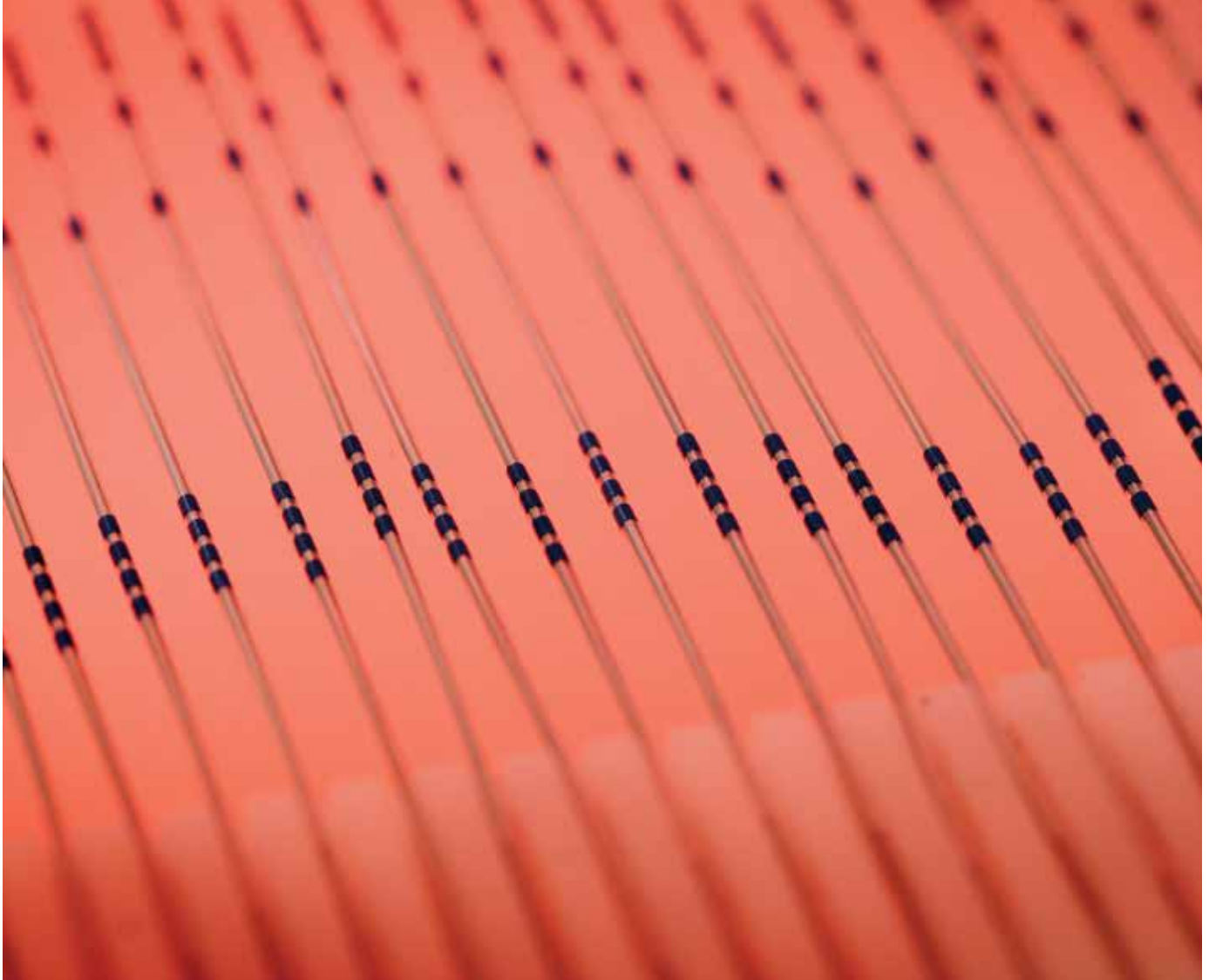
## YOUR SINGLE ADMIXTURE SOURCE

We can fully support all your admixture requirements. Our deep and broad product line includes bags not made with DEHP and PVC, as well as needle-free devices. By combining your drugs with our delivery systems, you add value to your brand while making your customers' job safer, easier and more efficient.

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### YOU WILL FIND A WIDE RANGE OF DEVICES DESIGNED FOR:

- Fluid and container selection
  - Reconstitution and fluid dispensing
  - Fluid filtration
  - Direct fluid transfer
  - Capping and securing medication
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## BALLOON AND CONDUCTION CATHETERS

Whatever you're looking for in a balloon catheter, you can find it at B. Braun. Our full range of capabilities allows us to create catheters to meet a wide range of requirements.

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### OPTIONS INCLUDE:

- Single, multi-lumen, multi-functional catheters up to 5 lumen with or without balloon
  - Various balloon materials
  - Custom lengths and markings
  - 4 French to 21 French
  - Various inflation diameters
  - Custom printing and packaging
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## COVERING YOUR INTERVENTIONAL PRODUCT NEEDS

We manufacture interventional products covering a multitude of applications and procedures.

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### OUR EXTENSIVE PRODUCT LINE INCLUDES:

- Hemostasis valve adapters
  - Hemostatic Y-connectors
  - Tuohy borst adapters
  - Introducer needles
  - Inflator syringe
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## MAKING PRODUCTS THAT MAKE HEALTHCARE SAFER

B. Braun's OEM Division offers breakthrough products to make healthcare delivery safer.

The Introcan Safety® IV Catheter and Safecan™ Safety Introducer Needle are designed to minimize needlestick injuries. Our ULTRASITE® and SAFSITE® needle-free valves provide IV access.

We were the first manufacturer to offer a full line of basic IV solutions in containers not made with natural rubber latex, PVC or DEHP. Our EXCEL®, and PAB® and DUPLEX® Drug Delivery System feature biologically inert, latex-free, non-toxic plastic construction. These unique designs, made without PVC and DEHP, deliver IV medication to the patient while minimizing environmental impact.

All these products represent just a few examples, out of hundreds, that demonstrate B. Braun's continuing commitment to patient and clinician safety, as well as the environment.

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**SCHEDULE A DEMONSTRATION TODAY.  
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B. Braun Medical Inc. | OEM Division  
866-8-BBRAUN | [www.us.bbraunoem.com](http://www.us.bbraunoem.com)