

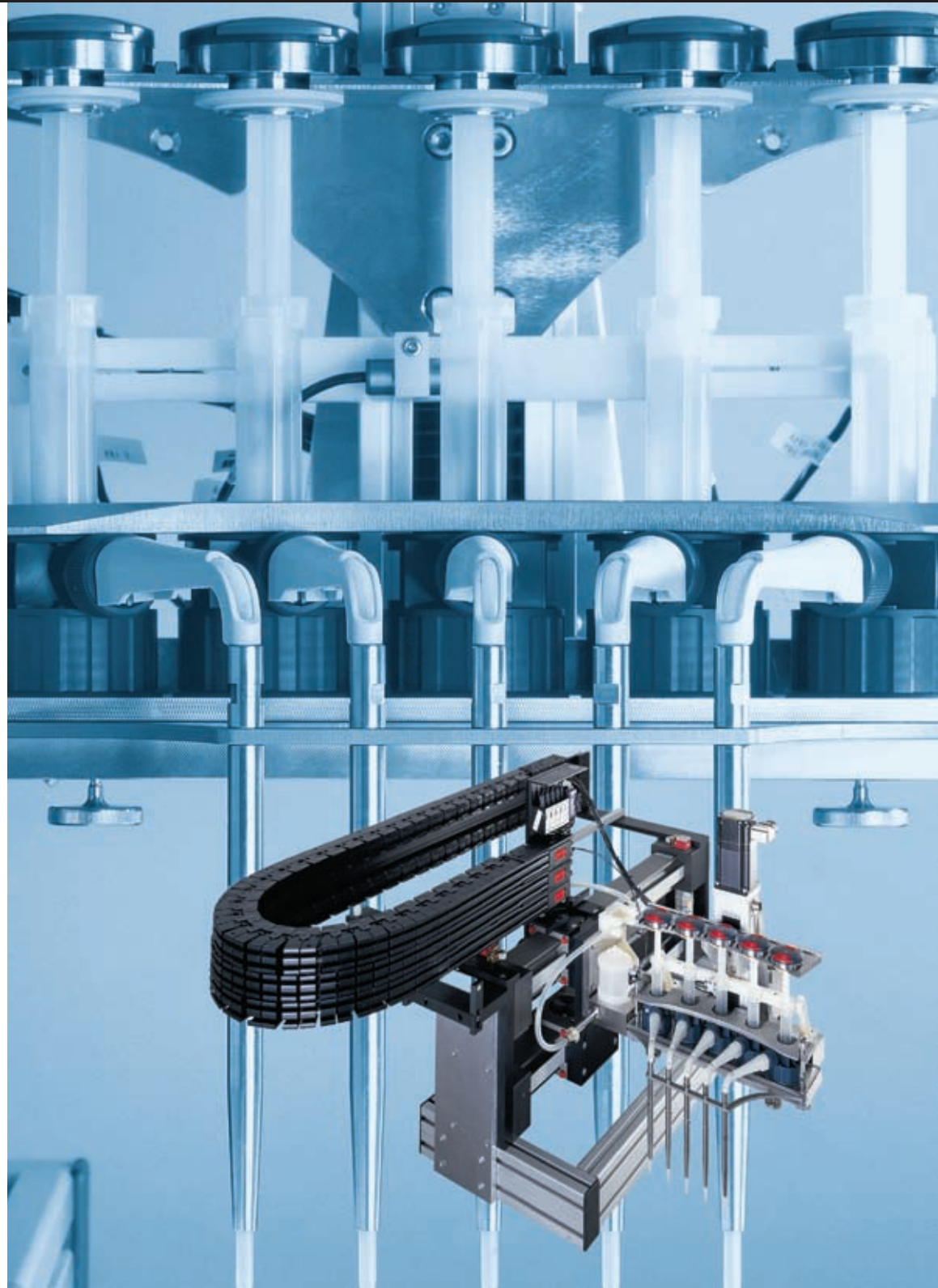
Customized solutions from BRAND



Dosing systems and dispensing equipment

F I R S T C L A S S · B R A N D

- BRAND – the competent partner for your requirements
- BRAND dosing systems for high-precision dispensing of aqueous, critical and even highly viscous media
- Dosing, filling and sampling in chemical, medical, biotech, pharmaceutical and food laboratories and industries
- Development of customized solutions, including sterile applications
- Volumes ranging from 1 μ l to 200 ml



Dosing systems and dispensing equipment...

Planning and development of customized solutions

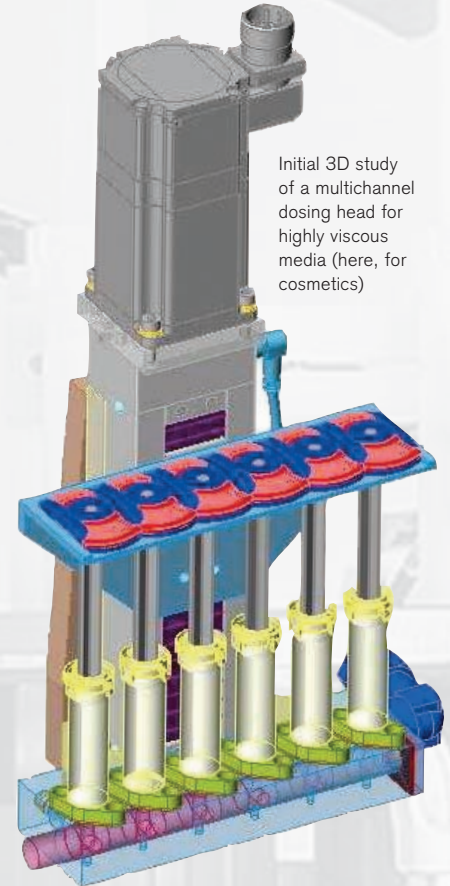
From the design and development of your installation to its commissioning at your premises – BRAND provides it all.

Development and design

BRAND starts with a comprehensive analysis of your requirements. Based on that, a **design draft** will be developed tailored to your needs, along with an initial 3D layout.

For the **development** and **design** of your custom dosing system state-of-the-art methods and procedures, such as production-integrated R&D, 3D CAD and Simultaneous Engineering, will be employed.

BRAND helps you to solve specific dosing problems and to achieve utmost precision even with difficult media, such as foaming, aggressive or highly viscous substances. To the extent possible, tried and tested components from standard BRAND Liquid Handling equipment are employed.



Initial 3D study of a multichannel dosing head for highly viscous media (here, for cosmetics)

Specific assembly components

BRAND dosing systems can be designed as stand-alone installations (single or multichannel technology) with their own dedicated BRAND dosing control system. BRAND equally supplies the dosing

assemblies for a complete filling and packing plant, integrated into your overall process control. Whatever your dosing requirement – BRAND will find the right solution for you!

Phases of project development

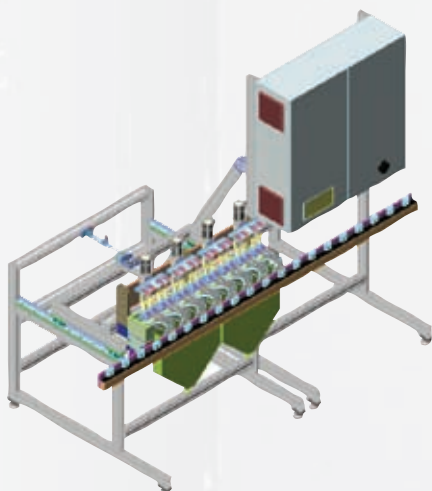
Shown here: 3D drawing, parts manufacture and photo of a 16 channel high-performance dosing system for filling recipients with various media of high

viscosity (up to approx. 3,500 mPas) with integrated media supply and distribution.

From **design draft** and **3D study**...

...to **manufacturing**,...

...**assembly, test** and **pre-inspection** at BRAND



Efficient, reliable, effective ...

Proven technology: seripettor® dispensing system

Tried and tested technology, incorporating the BRAND know-how in Liquid Handling, combined with the power of innovation and experience of custom design.

Basic dispensing technology

Bottle-top dispensers are frequently used for the simple, rapid and precise measuring of reagents. No more need for graduated cylinders in the laboratory for transferring chemicals. Especially serial dispensing becomes so much easier. For many years, the **Dispensette®** and the **seripettor®** by BRAND have proven their value worldwide.

The operating principle is straightforward: Up- and downward movement of a plunger aspirates the liquid from a source and dispenses it through a valve system and discharge tube.



The heart of the system: the easily exchangeable **seripettor® dispensing cartridge**. To minimize downtime in sterile applications, the exchangeable cartridge is **also available sterile, individually packed**.

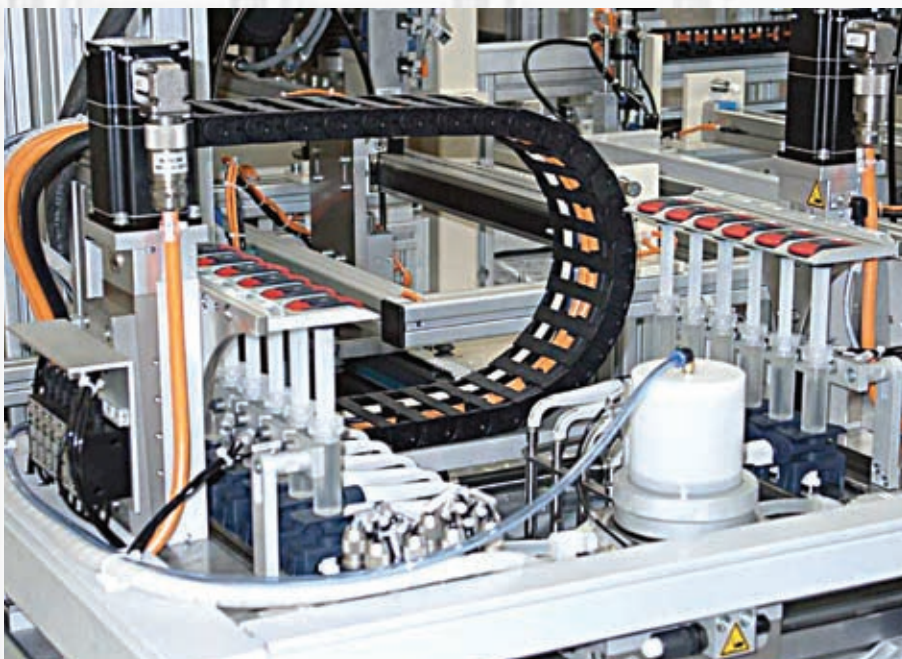


Bottle-top dispenser **seripettor®** from BRAND

Proven technology – seripettor®

Proven technology from the BRAND standard range, relied on by laboratory and industry users: the **seripettor®** dispensing

cartridge at the heart of the high-performance dosing systems. Ideal for aqueous and many others media.



12-channel (2 x 6 channel) dosing system, **seripettor®** type system

Fully automated production line for filling samples (250 µl). Output: 360 samples/min. Fully integrated into a blister filling and packing plant.

Automatic detection of any air bubbles in the dispensing cartridges.



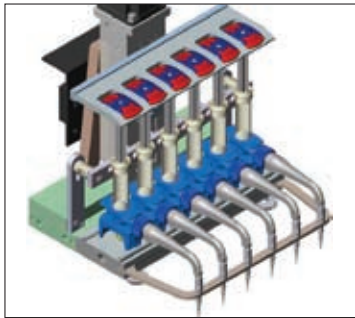
...with unique features

seripettor® dosing system – benefits at a glance

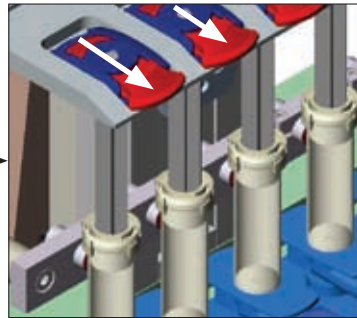
Compact design. Simplicity of operation. Replacement of dispensing cartridge and valve head within seconds, without tools (patented).

seripettor® dispensing cartridge and compact valve head by BRAND

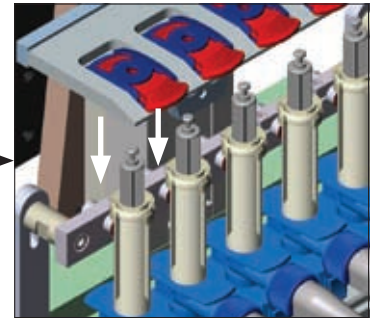
Disassembly within seconds:



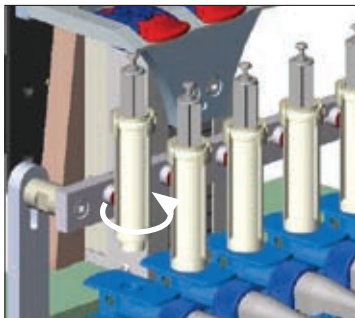
seripettor® multichannel system with autoclaving kit (V4A)



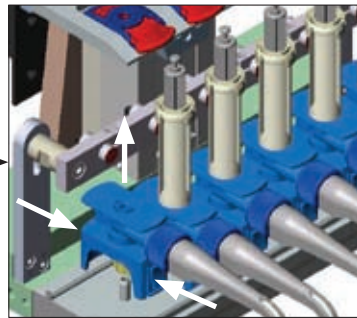
Open piston lock (slider)



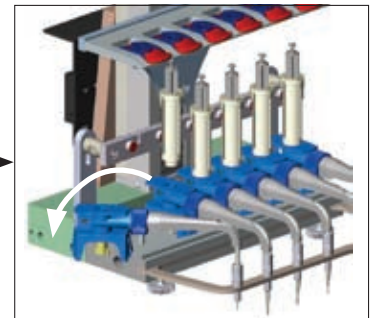
Push down piston



Turn to remove dispensing cartridge / replace



Loosen valve head

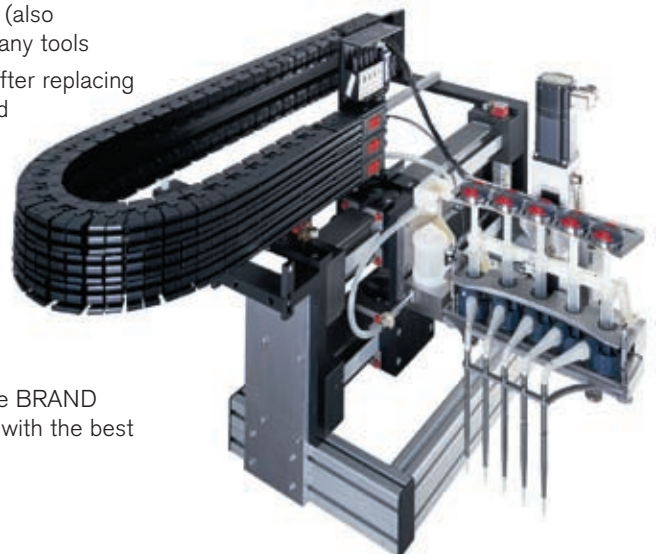


and pull out valve head with discharge tube from bracket

BRAND dosing systems (e.g., seripettor® type) excel by:

- High accuracy and long-term stability
- Sturdy construction and high quality standard
- Maximum performance and reliable continuous operation
- Tried and tested standard components from the BRAND laboratory range
- Minimum dead volume of liquid paths, therefore, easy rinsing and minimal loss of media when changing media
- Maximum availability, minimum downtime
- Very easy replacement of dispensing cartridges and valve heads (also available sterile) – without any tools
- No need for recalibration after replacing or cleaning valve heads and dispensing cartridges
- Low maintenance costs
- Patent protection of essential system components

You benefit from proven, cost-effective BRAND standard components of the BRAND Liquid Handling range (also available sterile and/or autoclavable) combined with the best and most reliable automation and control elements.



OEM-Dispensing systems

Standard systems and OEM products

For the automation of filling processes of small and medium series in laboratory and industry



Pneumatic dispenser with PLC

Pneumatic 1-channel dispensing systems, Dispensette® type

At the heart of the system: BRAND's tried and tested Dispensette® bottle-top dispensers, available in a wide range of models to suit your application and offer the chemical resistance required for the media used.

- Fully and semi-automatic dispensing of volumes from 10 µl to 100 ml per step (according to capacity)
- Reliable allround dispensing system – suitable even for difficult media
- Media supply directly from the reservoir bottle or, optionally, from barrels
- Control and timing via pneumatic control with hand and/or foot switch of PLC (Siemens logo, 24 RC) with end position control and signal exchange with overall plant control
- Optional upgrade to multichannel dispensing system by combination of units

HandyStep® electronic with RS-232 interface

BRAND motorized dispenser with PLASTIBRAND® PD-Tips in eight sizes for volumes from 1 µl to 50 ml (according to tip/dispensing cartridge capacity). The cost-effective component for your automated system. Please ask for the separate brochure.



Tips – also available sterile



OEM products, dispensing systems and components – with the expertise about what can be done, and how

BRAND, a manufacturer of serial products, custom installations and dispensing components provides its combined know-how and experience in these areas:

- Planning of products and assemblies, development, design, tests, building models and prototypes, and process development
- Development and production of technically demanding plastic injection molded products (including tool design and construction) with clean room fabrication (up to Class 100)
- Software and hardware development and implementation – from individual instruments to complex system control
- Precision mechanics, development and fabrication of complex mechanical pieces and components
- Production technology, automation and process engineering
- Systems engineering, installation, assembly and pre-inspection
- Training and service

O original
Equipment
Manufacturing

Know-how – through experience

50 years of experience



For over 50 years, BRAND has been located in Wertheim, Germany – the most important phase of its 90 year history

Quality – the corporate objective of BRAND

Research and development are at the core of the BRAND quality philosophy. Continuous product improvements and manufacturing innovations secure your claim to optimal problem solutions at top quality level.



BRAND laboratory equipment

The name BRAND is synonymous, world-wide, for top quality. This applies equally to the advanced Liquid Handling range, to the renowned BLAUBRAND® volumetric instruments of glass, and the wide range of PLASTIBRAND® disposable and reusable plastic products. All brochures and the General Catalog can be downloaded under www.brand.de. You can also obtain this literature by mail.



BRAND dosing systems

BRAND has built-up the know-how for precise dosing of all sorts of liquids through the development of its products and its own production technologies. This provides a solid foundation for manufacturing custom installations, and in particular for the dosing installations.



OEM plastic injection molding by BRAND

Design drafts and product development, 3D design of highly demanding plastic products (also to clean room specifications), Mold Flow Analysis, Rapid Prototyping, tool design and construction up to on-schedule production and delivery of PLASTIBRAND® products – all these are part of the daily routine, making BRAND your competent single source for OEM products.

BRAND® and BLAUBRAND® are trademarks of BRAND GMBH + CO KG, Germany.

Our technical literature is intended to inform and advise our customers. However, the validity of general empirical values, and of results obtained under test conditions, for specific applications depends on many factors beyond our control. Please appreciate, therefore, that no claims can be derived from our advice. The user is responsible for checking the appropriateness of the product for any particular application.

Subject to technical modification without notice. Errors excepted.

BRAND GMBH + CO KG · P.O. Box 11 55 · 97861 Wertheim · Germany
Tel.: +49 9342 808-0 · Fax: +49 9342 808-236 · E-Mail: info@brand.de · Internet: www.brand.de

