

OptiVantage[®]

Multi-use

FOR
12h
USE!

UNCOMPROMISED EFFICIENCY & PATIENT SAFETY

Guerbet | 

 COMMITTED









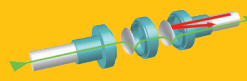
FOR THE PATIENT

SAFETY




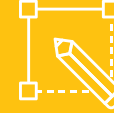
Contrast media injectors are widely employed in radiology procedures and have become a necessity for optimal imaging. Today's injectors are easily operated both at the bedside and remotely, and are optimized to adapt to the latest examination protocols. An optimal injector should enable swift and comfortable changes between patients in addition to saving time and money and being user friendly.

OUR MAIN PRIORITY IS TO IMPROVE THE DESIGN OF OUR INJECTORS WHILE OPTIMIZING BOTH HYGIENE AND SAFETY

LOWER RISK OF CONTAMINATION AND INFECTION

Our commitment	Our secrets for success	
 <p>Maintain a high level of hygiene for 12 hours¹</p> 	 <p>All in one pre-connected manyFill® day-set</p> <ul style="list-style-type: none"> • Closed system: avoid multiple connections • Air and particle filters 	 <p>Secufill® patient line: proven double safety valve²</p> 

LOWER RISK OF EXTRAVASATION AND AIR INJECTION

Our commitment	Our secrets for success		
 <p>Minimize these problems thanks to specifically-designed technical specifications</p>	 <p>Patency Check®: saline injection to confirm fluid pathway prior to injection</p>	 <p>Tilt enable: prevents injection until the correct enabling sequence has been completed</p>	 <p>Newly designed software: for a multipatient process</p>

1. Refer to manyfill instructions for use. Internal data Technical File Ref. M0008-000024-02 GMED
2. Vermeulen C, Noury B & Al. - Microbial Safety Assessment of a Double Check-Valve Patient Line in a Multi-use Contrast Delivery System - Radiol Technol. 2015 Nov-Dec;87(2):139-49



FOR THE USER

SAFETY

OPTIMAL CONTRAST ENHANCEMENT

Our commitment	Our secrets for success	
 <p>Extend your image acquisition window and ensure diagnosis accuracy with a more suitable iodine dose</p> <p>Improve the accuracy of your protocol and synchronize the injection with the scanner</p>	 <p>OptiBolus^{®3}: provides uniform contrast enhancement, extends the image acquisition window</p>	 <p>Timing Bolus[®]: test injection to confirm the protocol</p>
	 <p>Simultaneous injection: dual injection of contrast media and saline</p>	 <p>CAN interfacing, for accurate acquisition</p>

COMPLIANT PROCESS

Our commitment	Our secrets for success	
 <p>Maintain secure and compliant use</p>	 <p>Certified syringes & manyFill[®] day-set: designed, tested and approved to meet Guerbet quality standards</p>	 <p>Countdown timer: alerts the user of compliancy with hygiene regulations</p>

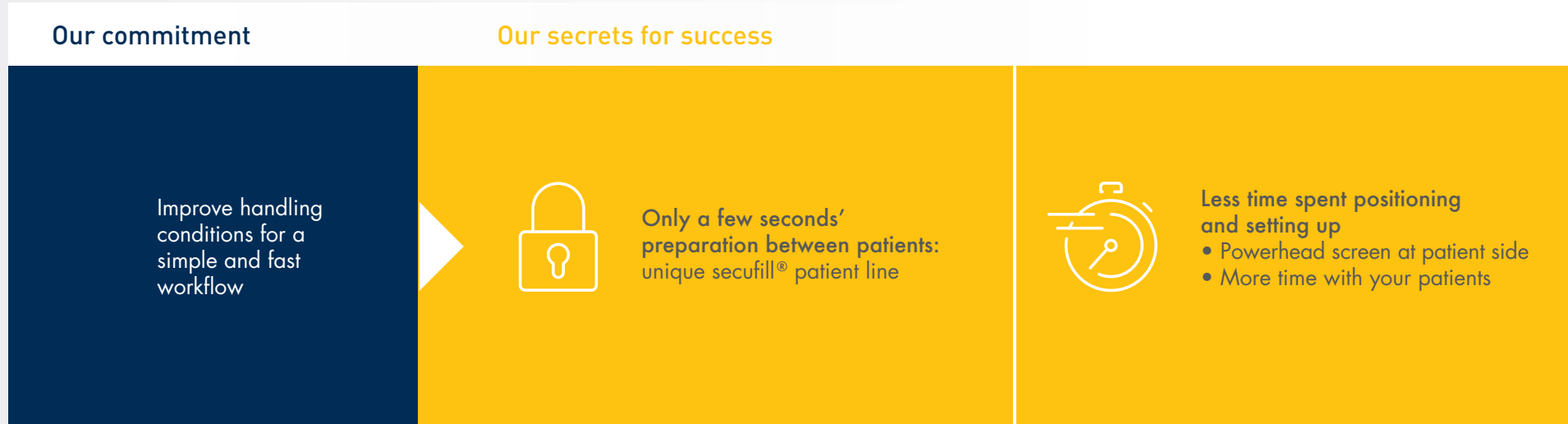
3. May be subject to an additional fee. Can differ from country to country. For more information please contact your local Guerbet representative
 Navin P, Murray AM & Al. Shapedbolus protocol reduces contrast medium volume in abdominal CT while maintaining image quality Clinical Radiology 2017 Mar;72(3):265.e1265.e5



EFFICIENCY

Contrast media injectors have been used successfully for decades worldwide. Scans are becoming faster and more complex, they involve more workflows and greater workloads, generating a need for **intuitive and ergonomic devices to improve comfort and performance** for radiologists and their patients.

OPTIMIZED WORKFLOW: ENSURE A GOOD PATIENT FLOW



OUR SMART TECHNOLOGIES ARE DESIGNED TO IMPROVE PRODUCTIVITY BY STREAMLINING USER WORKFLOW IN ORDER TO SAVE TIME AND FOR STRESS-FREE USE








EFFICIENCY

IMPROVED WORKLOAD:
ENSURE GREATER COMFORT

Our commitment	Our secrets for success	
 <p>Simplify processes with automatic operations and a specific design</p>	 <p>All-in-one pre-connected manyFill® day-set: increases safety, simplicity and optimizes workload</p>	 <p>Automatic purge: prevent massive air injection with a single press of a button</p>
	 <p>Automatic filling: fill both sides simultaneously</p>	 <p>Color-coding: quickly identify contrast and saline sides as well as connections</p>

ENSURE A BETTER FLEXIBILITY

Our commitment	Our secrets for success	
 <p>To be effective for both multiple-patient and single-patient procedures</p>	 <p>Two different modes</p> <ul style="list-style-type: none"> • Increase the number of interventions • Meet needs during day and night shifts 	 <p>Complete manyFill® day-set range designed, tested and approved to meet meet Guerbet quality standards</p>



COMPLETE INJECTION MANAGEMENT SOFTWARE SOLUTION

Our commitment



Offer a contrast media injection management software solution tailored to your needs

Save you administration time while ensuring full and automatic traceability of patient and contrast injection data

Our secrets for success



Unique connectivity with information systems used in radiology⁴

Such as the HIS, RIS, PACS and EMR



Collection, archiving, review, analysis and sharing of injection data

- Including all information relating to injections during medical imaging examinations, which may be combined
- Including data on contrast products, adverse events, injector activity, information on estimated glomerular filtration rate (eGFR) and other risk factors
- Available in 14 languages



Contrast&Care⁵

TOP SERVICES AND SUPPORT SYSTEMS FOR TOP-TIER CLINICIANS

Our commitment



Increase added value thanks to a dedicated team and a full package of services

Our secrets for success



Our inhouse team of qualified experienced engineers, ready to respond to your needs



Useful services throughout the lifetime of your OptiVantage[®]

- Installation
- Preventive maintenance
- Regular updates
- Quick onsite intervention: maintenance, service, repair
- Replacement unit
- Only guaranteed and original manufacturer spare parts



OptiProtect⁶
QUICK SERVICE + SUPPORT

COMMITTED TO YOUR SOLUTIONS

Since contrast media injectors play a critical role in imaging and in your daily practice, we aim to improve traceability and automation with **new integrated digital solutions**.

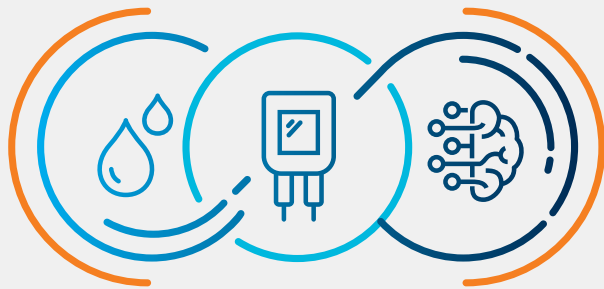
We also want to keep our injectors as efficient as possible. We therefore provide a year-round **dedicated service team** to test performance using specific tools and software, ensure the system is accurate and confirm the equipment is operating per specifications and according to your requirements.

THESE ARE
OUR PRIORITIES
THEY ARE
OF CRUCIAL
IMPORTANCE!

⁴. Refer to Contrast&Care instructions for use

^{5,6}. May be subject to an additional fee. Can differ from country to country. For more information please contact your local Guerbet representative

Driven by its commitment to advance radiology today and tomorrow, Guerbet Diagnostic Imaging has designed a portfolio of interconnected contrast imaging solutions to enhance your decision-making at each point of the patient journey from diagnosis, to treatment, to follow-up, so you can focus on what matters most, efficiently improving patient outcomes.



UNIK

Tailored interconnected solutions
driving your journey to excellence

UNIK is a flexible solution, tailored to your specific needs and challenges, designed to add value at each step of the patient healthcare journey, interconnecting our comprehensive portfolio of products, solutions and services in diagnostic imaging.

www.guerbet.com

Optivantage is a medical device intended for use by qualified healthcare professionals, it is a contrast delivery system and is designed to inject radiopaque contrast media into a patient's vascular system to obtain diagnostic images when used with computed tomography (i.e. «CT») equipment. Class IIb/CE TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC EC Rep: Guerbet

MANYFILL range are medical devices intended for use by qualified healthcare professionals for intravenous administration of CT or/and MRI contrast media for single or dual syringes injector. Class IIa/CE GMED 0459 Manufacturer: Medex

SECUFILL range are medical devices intended for use by qualified healthcare professionals. Secufill products are long safety patient lines with double threshold valve. For all CT-scanner or MRI injectors. Class IIa/CE GMED 0459 Manufacturer: Medex

Contrast&Care® is a medical device intended for use by healthcare professionals only. It allows imaging centers to collect, archive, view and share patients' injection data, including data concerning contrast products, adverse events, injector activity, data on the estimated eGFR and other pre-exam alerts, such as previously reported allergies. Contrast&Care® also provides options to review protocols, create protocol libraries, and visualize analytics data and trends relating to injection activity and contrast product usage. Class I/CE Manufacturer: Medex

For use only in countries with applicable health authority registrations. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s).

The multiple use of manyfill® disposables is intended for multi patients markets. Use a new secufill® patient line for each patient. OptiVantage®, OptiBolus®, Patency Check®, Timing Bolus®, OptiProtect™, LF™, Contrast&Care®, secufill®, manyfill® are trademarks of Guerbet. Patents pending and issued patents. © Copyright 2019 Guerbet - All rights reserved. Document creation date: March 2020.