



gako unguator

unguator.com

gako History

The history of the Unguator technology from 1960 up until today



(1)



(2)



(3)



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(5)



(6)



(7)



(8)

The pharmacist and inventor of the Unguator technology, Albrecht Konietzko laid the foundation of today's standard of automated pharmaceutical compounding all before completing his university education. After 30 years of research and development the technology was ready for the market. The 1992 registered patent was approved in 1994 shortly before launching the first generation of Unguator.

After 20 more years of development, successful product expansion and globalization, the next generation, his son Dipl. Wirtsch.-Ing. Matthias Konietzko and his son-in-law Dipl.-Kfm. Timo Normann, MBA, have developed many new innovations. The life in the day of a pharmacy will be simpler and more efficient with two innovative developments, already registered for patent: the Quick-lock coupling and the replaceable lifting arm.

- 1960** Initial mixing trials and experiments in a closed system by the pharmacist and Inventor Albrecht Konietzko (1)
- 1992** First patent registration for the Unguator technology
- 1994** Unguator B - The first GMP standard, compounding in a pharmacy up to 200 ml (2)
- 1998** Unguator e - compounding up to 500 ml with an automated mixing system (3)
- 2004** Unguator 2000 - fully automated compounding up to 1000 ml and RS232 interface (4)
- 2006** Unguator 2100 - improved usability and USB interface (5)
- 2012** Unguator QMS - validated quality and integrated mixing programs for NRF formulations (6)
- 2015** gako unguator BASIC - Quick-lock coupling, RS232 port, touch panel, integrated time tracking, compounding up to 500 ml with manual, but guided lifting (7)
- 2015** gako unguator EMP - Quick-lock coupling RS232 port, touch panel, integrated time tracking, compounding up to 500 ml with automated lifting (7)
- 2016** gako unguator PRO - Quick-lock coupling, replaceable lifting arm, 10.1 inch touch screen, integrated barcode scanner, multiple interfaces, preparations up to 2000 ml. (8)

Innovation and more!

An overview of the new developments of the gako unguator



 quick-lock coupling:
The mixing shaft will be loaded directly from the front into the lifting arm.



 Slide the mixing unit upwards...



 ...and with a slight turn the unit will be fixed in place - ready!



 The lifting arm can be easily and quickly replaced - e.g. to stir 2000 ml preparations.



 Connectivity to accommodate, electronic scales, printers, network, keyboard and more



 State of the art touch technology even for the BASIC and EMP for easy handling and cleaning.



Discover the quick-lock coupling following the link: goo.gl/gtDmLt

gako unguator PRO – our Masterpiece

The gako unguator PRO - the complete solution for your pharmacy

The gako unguator PRO will not only support you in GMP compounding of semi-solid preparations up to 2000 ml, it will also be useful to all other compounding needs in your pharmacy. It is the right step into the future for pharmaceutically elegant compounding.

- Mixing jar sizes up to 2000ml
- Quick-lock coupling
- Replaceable lifting arm
- 10.1" touch display
- Intuitive user manual including validated mixing programs
- Integrated barcode scanner
- Automated and free online updates
- Interface for laboratory scales, printer, peripheral equipment, network with 4 USB-, 3 RS232- and 1 RJ45-port/-s
- Integrated QM functional test (IQ/OQ) (in development)
- Remote inspection via gako service available
- Quiet operation due to optimized mechanical system and electronics
- More compact setup with enhanced performance
- Rinsable keypad and extensive accessories



Discover the gako unguator PRO following the link: goo.gl/HhYqQ4





gako unguator
BASIC

gako unguator
EMP



gako unguator BASIC & EMP

Our Classics of the Future

The gako unguator BASIC and EMP - more than just the standard for your pharmacy

The gako unguator BASIC and EMP will guarantee a GMP compounding from semi-solid preparations up to 500 ml. You only have to decide if you want to lift the jar by hand with the gako unguator BASIC or completely automated with the gako unguator EMP.

Common features:

- Mixing jar sizes up to 500 ml
- Quick-lock coupling
- Touch panel
- Intuitive and user friendly guide
- Mixing time settings
- Ten different mixing speed settings
- Integrated time tracking of total mixing time
- ID-number generated after each mixing process
- Integrated QM functional test (IQ/OQ)
- Quiet operation due to optimized mechanical system and electronics
- More compact setup with enhanced performance
- Including extensive accessories

Distinguish features:

- BASIC: manual guided lifting arm
- EMP: automated lifting arm



Discover the gako unguator BASIC and EMP following the link: goo.gl/YVgpFi



Comparison of the gako unguator Devices

All important facts about the gako unguator devices at a glance

	BASIC	EMP	PRO
jar sizes [ml]	15 - 500	15 - 500	15 - 2000
manual guided lift	■		
automatic lifting arm		■	■
replaceable lifting arm			■
integrated time tracking	■	■	■
rpm	300 - 2400	300 - 2400	300 - 2400
functionality test (IQ / OQ)	■	■	■*
ID-output for easy documentation	■	■	■
weight	10kg / 22lbs	11kg / 24 lbs	16,5kg / 36 lbs
dimensions d x w x h [mm]	255 x 211 x 512	255 x 211 x 512	339 x 293 x 670
touch technology	■	■	■
10,1" touch panel			■
integrated barcode scanner			■
USB-Ports			4
RS232-Ports	1	1	3
RJ45-Ports			1
Ports for scales, printers, network	via additional hardware	via additional hardware	■
rinsable keyboard included			■
performance mixing motor [W]	80	80	169
performance lifting motor [W]		54	54

*in Entwicklung