



# Rowa<sup>®</sup> Dose system

Reliable and efficient pouch packaging

Rowa<sup>®</sup> Technologies



# The Rowa<sup>®</sup> Dose system

## Reliable and efficient pouch packaging

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The Rowa Dose system sets new standards for pouch packaging machines in pharmacies, hospitals, and pouch packaging centers. State-of-the-art technology allows high-quality, reliable, and, at the same time, cost-efficient packaging of solid, oral medicines. Rowa Dose is suitable for unit, multi, and combi doses.

- ✓ **Rapid and reliable**  
Innovative technology ensures high speed and reliability.
- ✓ **Expandable**  
Modular configuration allows simple expansion.
- ✓ **High capacity**  
A broad spectrum of different medications can be dispensed from up to 700 canisters. They are reliably detected by RFID chips and can be easily exchanged if and as necessary.
- ✓ **Also suitable for special shapes**  
Additional flexibility is provided by a double tray unit, which make it possible to integrate medications and special shapes (e.g., split medications) into the pouch packaging process which are not available in canisters.
- ✓ **Continuous pouch packaging process**  
Numerous blister pouches can be prepared at the same time and packaged without interruption. Direct access to all canisters throughout the production process.
- ✓ **High pharmaceutical safety**  
Improved transport routes ensure medications are only exposed and reduce the risk of breakages.
- ✓ **Convenient, complete cleaning**  
All the components which come into contact with the blister-packaged medications can be easily removed and thoroughly cleaned.
- ✓ **Can be used in compliance with GMP guidelines**  
Both the machine design and documentation comply with Good Manufacturing Practice (GMP) requirements. Validated software (in accordance with GAMP guidelines).

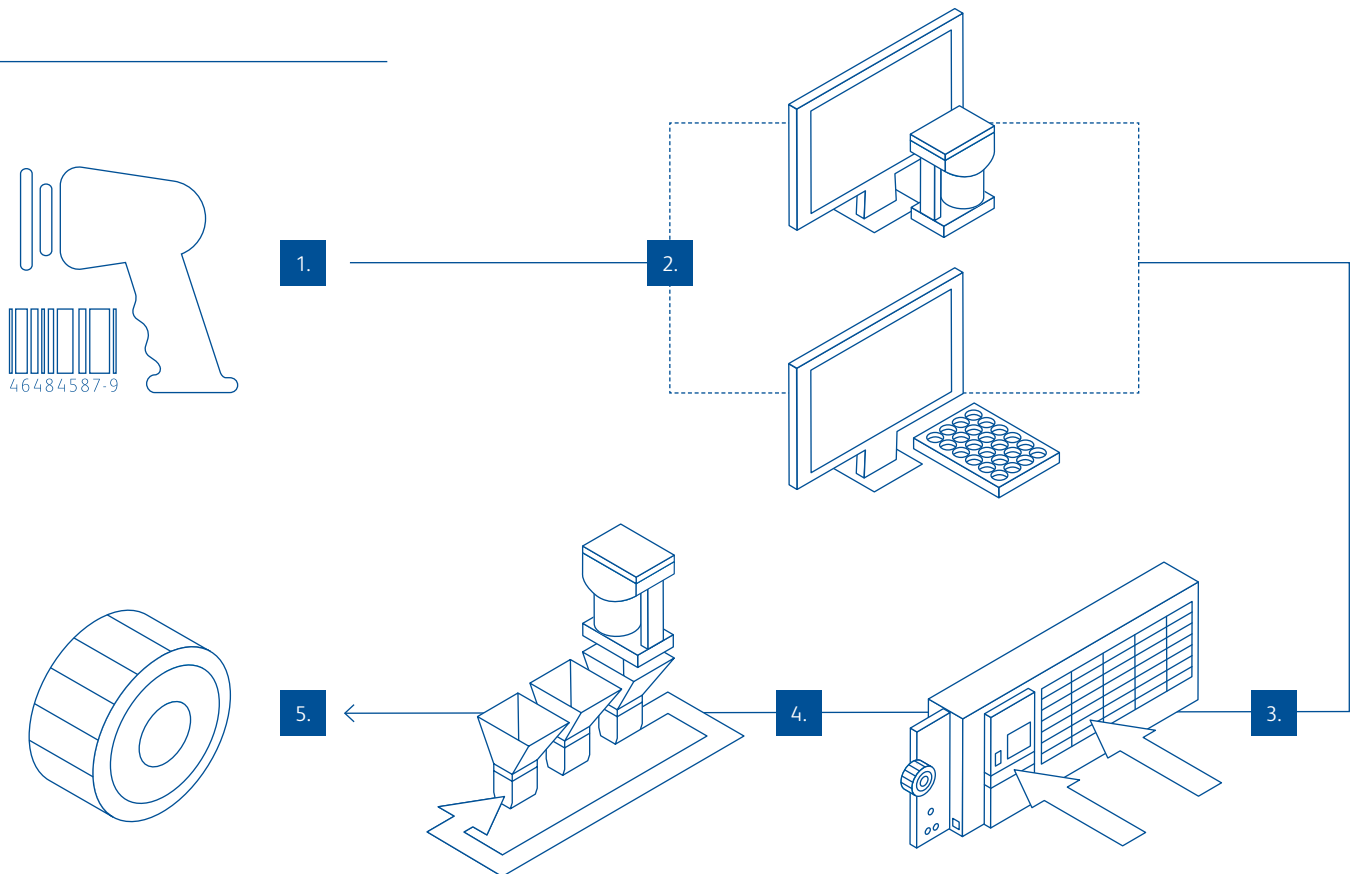




## Rowa® Dose

The Rowa Dose system packages solid oral medications in patient-specific blister pouches. The system can be expanded with modular components and offers the ultimate in medication safety.

# Blister packaging production workflow



## Steps

- 1.** Scanning and assignment of medication packagings / bottles and canisters / trays
- 2.** Medications are removed from blister packaging and filled into the assigned dispensing units
- 3.** Introduction into the production process
- 4.** Collection of medications through crossing down pipes and collection funnels
- 5.** Medications in blister pouches

## Technical data

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### Machine dimensions

Width	Min. 3.08m, max. 6.92 m (in 96 cm intervals per module)
Depth	1.14 m
Height	2.19 m

### Canister dimensions

Large canisters (DxWxH)	115 × 77 × 128 mm (515 ml)
Small canisters (DxWxH)	115 × 77 × 96 mm (407 ml)

### Canister positions in Rowa Dose (1 – 5 modules)

Canister module installed	Large canisters only	For combinations of large / small canisters or just small canisters
1	80	140 (of which max. 80 large canisters)
2	160	280 (of which max. 160 large canisters)
3	240	420 (of which max. 240 large canisters)
4	320	560 (of which max. 320 large canisters)
5	400	700 (of which max. 400 large canisters)




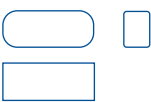

### Machine

Machine speed	Average 1.5 pouch / second	
Electrical Parameter	8 A, 230 V, 50 / 60 Hz	15 A, 120 V, 50 / 60 Hz

Power consumption	1 module	2 modules	3 modules	4 modules	5 modules
Utilization 100 %	750 W	875 W	1,000 W	1,125 W	1,250 W
Utilization 50 %	450 W	575 W	700 W	825 W	950 W
Utilization 0 %	200 W	300 W	400 W	500 W	600 W
Weight	1,349 kg	1,760 kg	2,172 kg	2,584 kg	2,996 kg

Color	White (RAL 9016)
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## Tablet shapes and sizes\*

Shape	Specification	Processing	Dimensions	Minimum (mm)	Maximum (mm)
Round and flat tablets	$\frac{\text{Thickness around edge}}{\text{Thickness in the center}} \geq 0,8$ 	Canister	Diameter	3	18
			Thickness	1.5	8
		Tray unit	Diameter	3	25
			Thickness	1.5	8
Round and convex tablets	$\frac{\text{Thickness around edge}}{\text{Thickness in the center}} < 0.8$ 	Canister	Diameter	3	18
			Thickness	1.5	8
		Tray unit	Diameter	3	25
			Thickness	1.5	8
Oval tablets	$\frac{\text{Width in the center}}{\text{Width at rounded corners}} \geq 1.5$ 	Canister	Diameter	3	18
			Thickness	1.5	8
		Tray unit	Diameter	3	25
			Thickness	1.5	8
Oblong tablets	$\frac{\text{Width in the center}}{\text{Width at rounded corners}} \leq 1.05$ 	Canister	Length or width	3	18
			Height	1.5	8
		Tray unit	Length or width	3	25
			Height	1.5	8
Spherical tablets	Length = Width = Diameter	Canister	Diameter	3	8
		Tray unit	Diameter	3	25
Capsules	Standard German dimensions: 21.6 × 7.5 mm 19.4 × 6.8 mm 17.6 × 6.2 mm 21.6 × 7.5 mm 15.7 × 5.7 mm 14.3 × 5.2 mm 	Canister	Diameter	3	8
			Length	3	25
		Tray unit	Diameter	1.5	8
			Length	3	25
Specific designs / Special sizes	All imaginable designs within the ranges of the minimum and maximum tablet sizes	Canister	–	On request	On request
		Tray unit	–	On request	On request

\* This overview is only intended as a reference and the specifications given are to be understood as guidelines.  
The processing of individual tablets must be verified by BD Rowa.





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