

CONVEGNO
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**L'EFFICIENZA
DELLA GESTIONE
DEI PROCESSI SANITARI**

Organizzazione / Management / Logistica



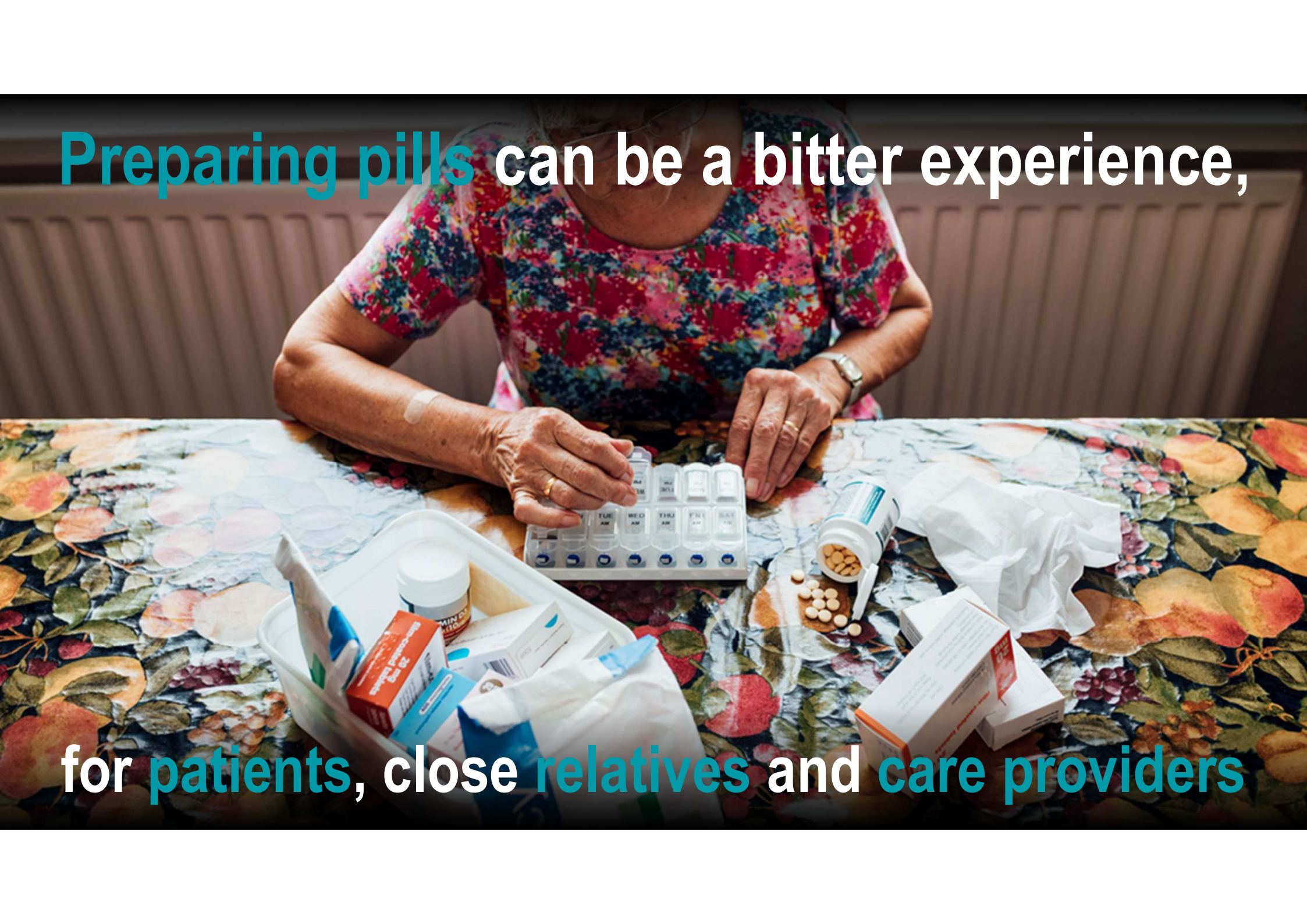
KNAPP D3 Daily Dose Dispenser: da blister a blister.
Una soluzione innovativa per la preparazione della terapia/paziente

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www.knapp.com

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Preparing pills can be a bitter experience,

for patients, close relatives and care providers



State of the art is

labour
intensive

prone to
errors

from a
pharmaceutical point,
critical



Out of the blister,

into the blister



No deblistering, no open tablets

Tablet carriers with RFID chip

- stabilize the original blisters for an automatic process,
- identify the contents unmistakably,
- store any additional data, such as lot, process data and current quantity.

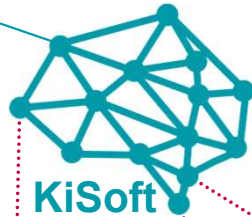
OBT - Original Blister Tray



The realization

KiSoft

Central intelligence which organizes and controls all kind of material, data and informations flow.



KNAPP-Store

Central buffer storage for the storage of handling devices and medication packages

Daily Dose Dispenser

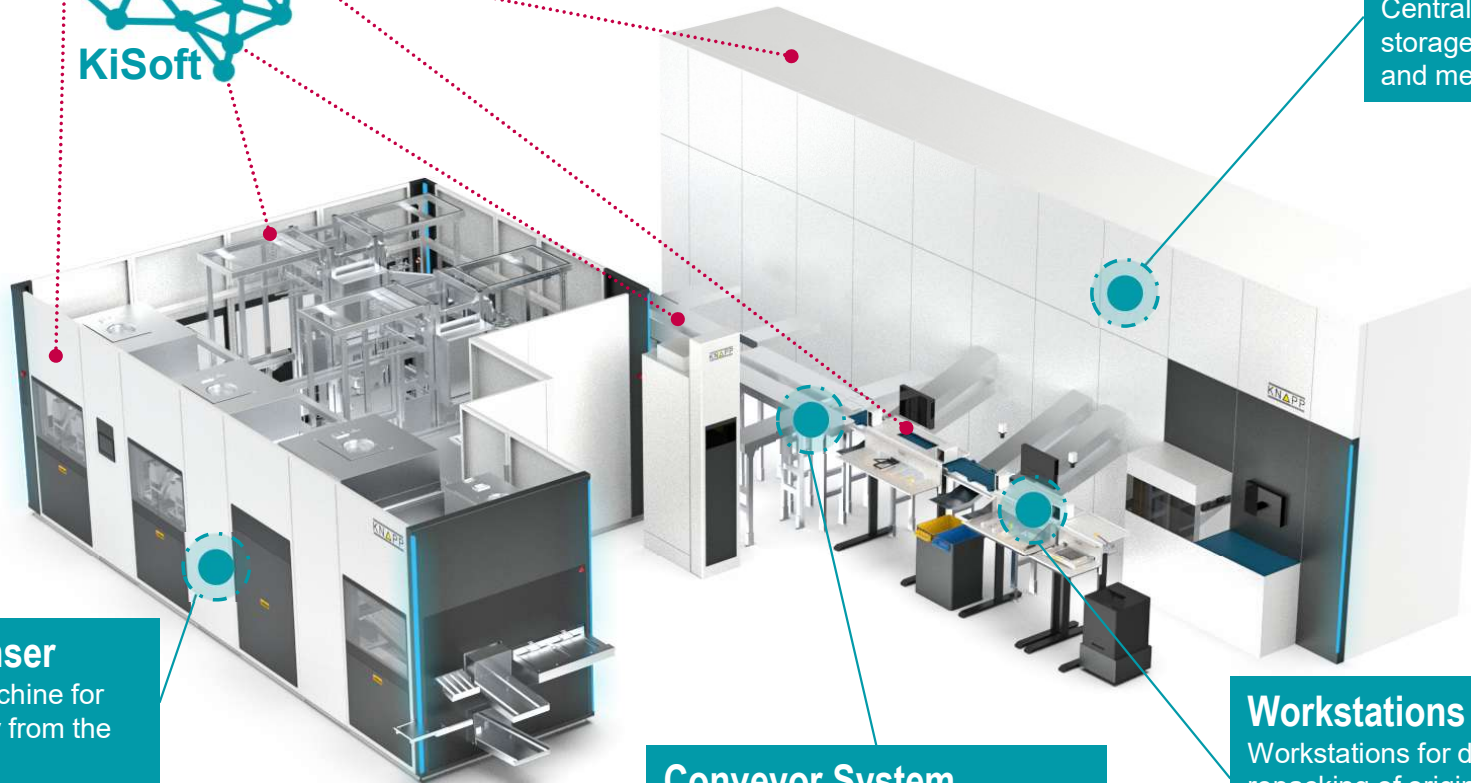
Innovative blistering machine for blistering tablets directly from the original blister.

Conveyor System

Central conveyor system for the allocation of the carrying units.

Workstations

Workstations for different tasks like repacking of original blisters into load handling devices or measurement stations to capture master data.

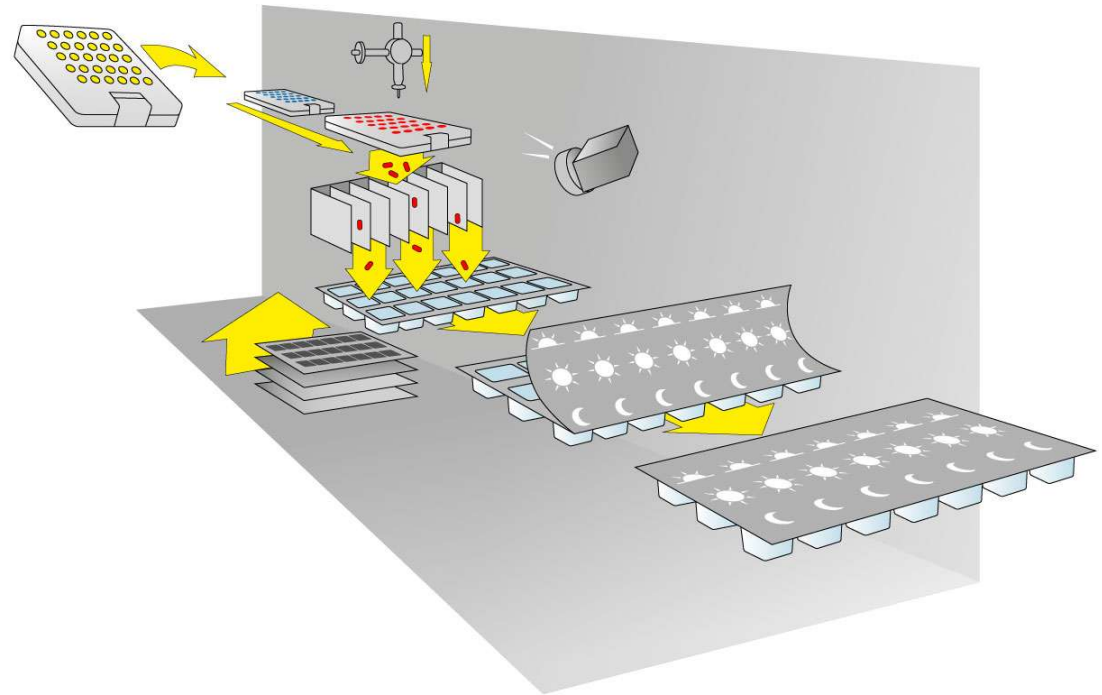


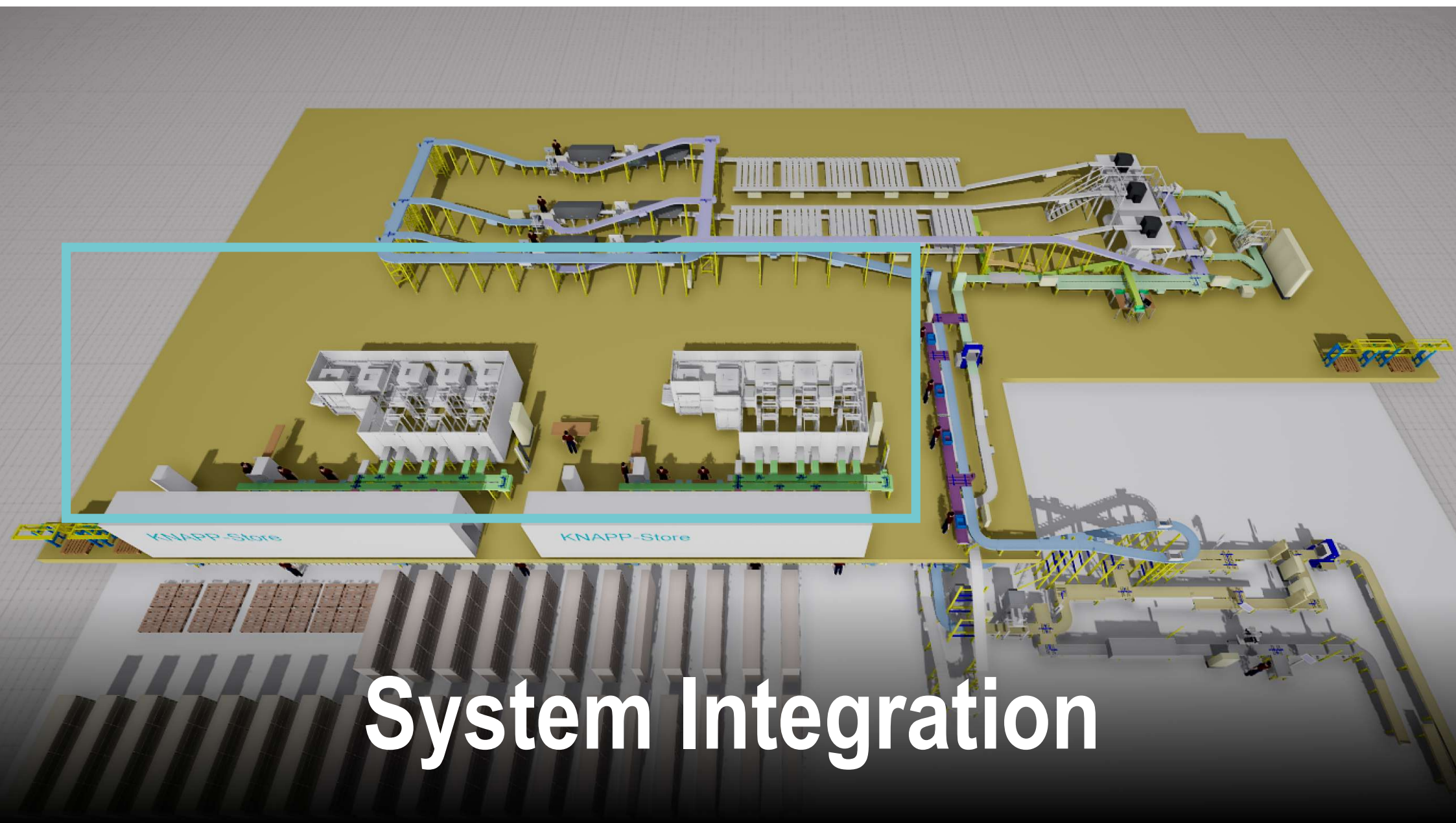
The process

- Original blisters are clearly identifiable by carriers and receive all desired data
- No cross-contamination
→ 100% control in the process
- Pushing individual tablets out of the blister into the blister with complete control
- Sealing and printing still in the machine
- Clean-Room inside the system (already approved on German & UK market)

(Air-Flow-System)

- Accurate tablet inventory
- No open pills in the workspace





System Integration

Blister Card – Key Features

Intake times

The single daily columns are structured in different intake times per day

für: Herr Mustermann, Max Station: F Askulap-Apotheke
Geb.Datum: 25.10.1956 Zimmer: 42 Auf dem Langos 1005
55270 Klein-Winternheim

Fertigarzneimittel	Bild	Beschreibung	Nüchtern	Morgens	Mittags	Abends	Zur Nacht	Bemerkung
ASS STADA® 100 mg magensaftresistente Tabletten, Tabl Achtstundentablette 254-9654-DE		Runde, weiße, bikonvexe Tablette mit einem Durchmesser von 7,2 mm.		1				
Vesikur 5 mg Tabl Solifenacin 800-3982-4-11		Runde, hellgelbe Tablette, die auf derselben Seite mit Logo und „150“ bedruckt sind.		1				
Pantoprazol-1A Pharma® 20 mg magensaftresistente Tabletten, Tabl Pantoprazol 585-6562-4-DE		Gelbe, ovale überzogene Tablette.		1				
MAGNO SANOL uno 243 mg Kapseln, Kaps Magnesium-L-Aspartat 368-8457-JM		Hartkapsel (dunkelgraues Oberteil und weißes Unterteil) gefüllt mit weißem bis cremefarbenem Pulver.			1			
Celintin Zentiva 10 mg Filmtabletten, Tabl Celintin 486-8653-E-I		Weiße bis cremefarbene, längliche Filmtablette mit Bruchkerbe auf einer Seite.			1			
Metformin HEXAL 1000 mg Filmtabletten, Tabl Metformin 759-9552-G-I		Weiße, ovale Filmtablette mit Kerbe und der Prägung M1G auf einer Seite.		1	1			
JANUVIA 50 mg Filmtabletten, Tabl Sitagliptin 789-5236-Z-Q		Runde, hellgelbe Filmtablette mit der Aufschrift „112“ auf einer Seite.			1			
Mirtazapin-1A Pharma® 15 mg Filmtabletten, Tabl Mirtazapin 729-9347-JM		Gelbe, runde, bikonvexe Filmtablette mit einseitiger Bruchkerbe.				1		
HCT Hexal 25 mg Tabl Hydrochlorothiazid 375-9561-QM		Weiße bis cremefarbene, runde, biconvexe Tablette mit einseitiger Kreuzbruchkerbe.			1			
Pipamperon 40-1A Pharma® 40 mg Tabletten, Tabl Pipamperon 635-9528-PA		Weiße, runde, teilbare Tablette mit einseitiger Bruchkerbe.				1		
Trevilor retard 150 mg Kapseln, Kaps Venlafaxin 759-9246-QM		Opake, dunkel orangefarbene Hartgelatinekapsel.					1	

Usage information

The cover sheet can be used for different kind of information and is template based.

Sonntag, 09.10.24 Mustermann, Max	Samstag, 08.10.24 Mustermann, Max	Freitag, 07.10.24 Mustermann, Max	Donnerstag, 06.10.24 Mustermann, Max	Mittwoch, 05.10.24 Mustermann, Max	Dienstag, 04.10.24 Mustermann, Max	Montag, 03.10.24 Mustermann, Max
Nüchtern	Nüchtern	Nüchtern	Nüchtern	Nüchtern	Nüchtern	Nüchtern
Morgens	Morgens	Morgens	Morgens	Morgens	Morgens	Morgens
Mittags	Mittags	Mittags	Mittags	Mittags	Mittags	Mittags
Abends	Abends	Abends	Abends	Abends	Abends	Abends
Zur Nacht	Zur Nacht	Zur Nacht	Zur Nacht	Zur Nacht	Zur Nacht	Zur Nacht

Sober

Morning

Noon

Evening

Night

Sun

Sat

Fri

Thu

Wed

Tue

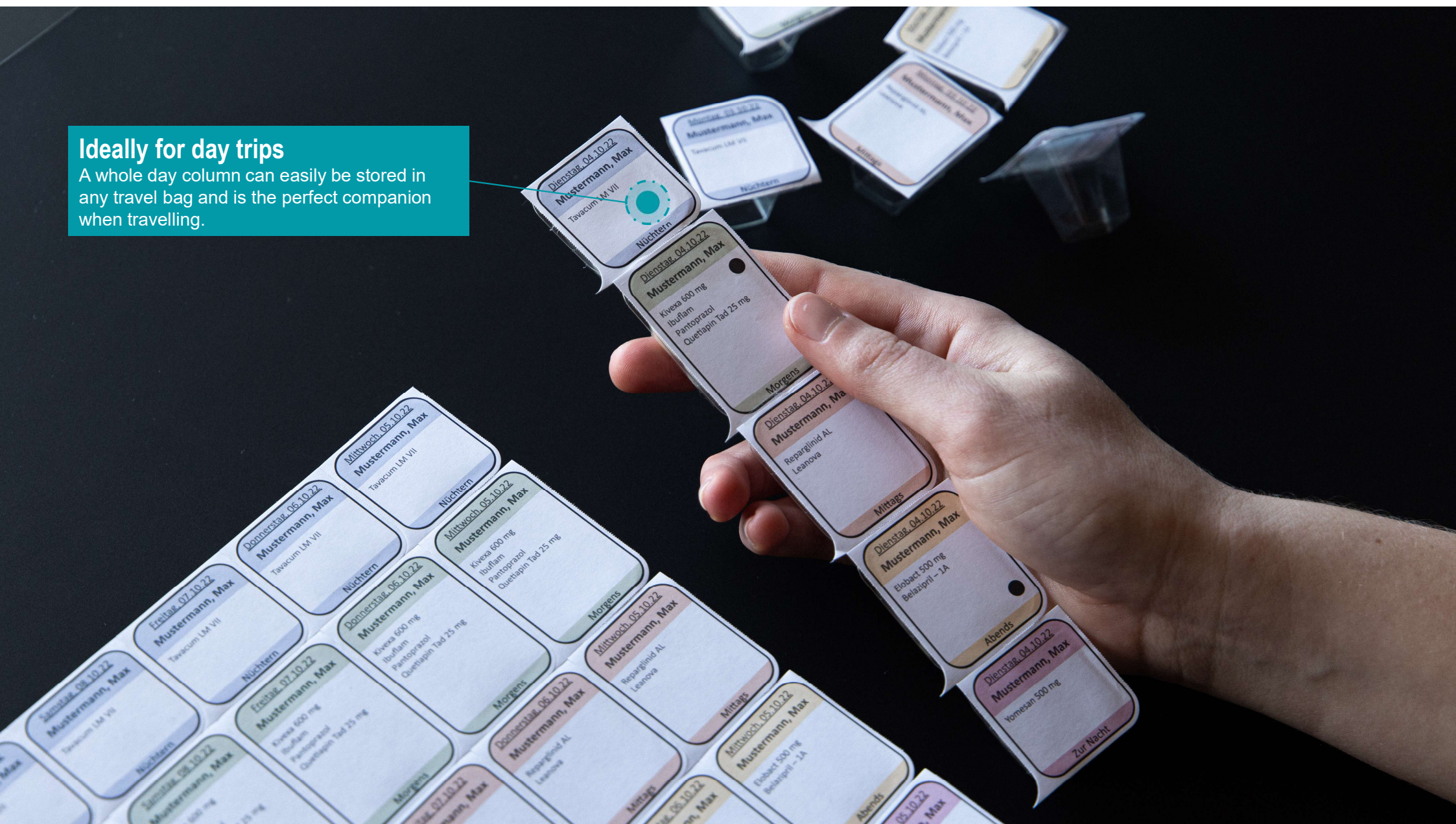
Mon

Clearly arranged intake days

Arrangement of the intake days from right to left

Ideally for day trips

A whole day column can easily be stored in any travel bag and is the perfect companion when travelling.



Intake Cup

Samstag, 08.10.22 Mustermann, Max Tavacum LM VII	Freitag, 07.10.22 Mustermann, Max Tavacum LM VII	Donnerstag, 06.10.22 Mustermann, Max Tavacum LM VII	Mittwoch, 05.10.22 Mustermann, Max Tavacum LM VII	Dienstag, 04.10.22 Mustermann, Max Tavacum LM VII
Nüchtern	Nüchtern	Nüchtern	Nüchtern	Nüchtern
Samstag, 08.10.22 Mustermann, Max Kivexa 600 mg Ibuprofen Pantoprazol Quetiapin Tad 25 mg	Freitag, 07.10.22 Mustermann, Max Kivexa 600 mg Ibuprofen Pantoprazol Quetiapin Tad 25 mg	Donnerstag, 06.10.22 Mustermann, Max Kivexa 600 mg Ibuprofen Pantoprazol Quetiapin Tad 25 mg	Mittwoch, 05.10.22 Mustermann, Max Kivexa 600 mg Ibuprofen Pantoprazol Quetiapin Tad 25 mg	Dienstag, 04.10.22 Mustermann, Max Kivexa 600 mg Ibuprofen Pantoprazol Quetiapin Tad 25 mg
Morgens	Morgens	Morgens	Morgens	Morgens
Samstag, 08.10.22 Mustermann, Max Reparglinid AL Leanova	Freitag, 07.10.22 Mustermann, Max Reparglinid AL Leanova	Donnerstag, 06.10.22 Mustermann, Max Reparglinid AL Leanova	Mittwoch, 05.10.22 Mustermann, Max Reparglinid AL Leanova	Dienstag, 04.10.22 Mustermann, Max Reparglinid AL Leanova
Mittags	Mittags	Mittags	Mittags	Mittags
Samstag, 08.10.22 Mustermann, Max Elobact 500 mg Belazipril – 1A	Freitag, 07.10.22 Mustermann, Max Elobact 500 mg Belazipril – 1A	Donnerstag, 06.10.22 Mustermann, Max Elobact 500 mg Belazipril – 1A	Mittwoch, 05.10.22 Mustermann, Max Elobact 500 mg Belazipril – 1A	Dienstag, 04.10.22 Mustermann, Max Elobact 500 mg Belazipril – 1A
Abends	Abends	Abends	Abends	Abends
Samstag, 08.10.22 Mustermann, Max Yomesan 500 mg	Freitag, 07.10.22 Mustermann, Max Yomesan 500 mg	Donnerstag, 06.10.22 Mustermann, Max Yomesan 500 mg	Mittwoch, 05.10.22 Mustermann, Max Yomesan 500 mg	Dienstag, 04.10.22 Mustermann, Max Yomesan 500 mg
Zur Nacht	Zur Nacht	Zur Nacht	Zur Nacht	Zur Nacht



Easy to handle

The intake cup is small but mighty and serves as a multifunctional aid for taking medicines.

Patient
information

Content
information

Intake time
information

Flap
for easy opening
of the intake cup





Comfortable and smooth

The round edges are makes it very comfortable and smooth to take pills trough the blister cup. No additional cup is needed.



Daily Dose Dispenser **USPs**



Simplified, lean processes

- No de-blistering of pills needed
- No manual storing, sorting and picking of pills
- No mandatory final inspection, only random checks



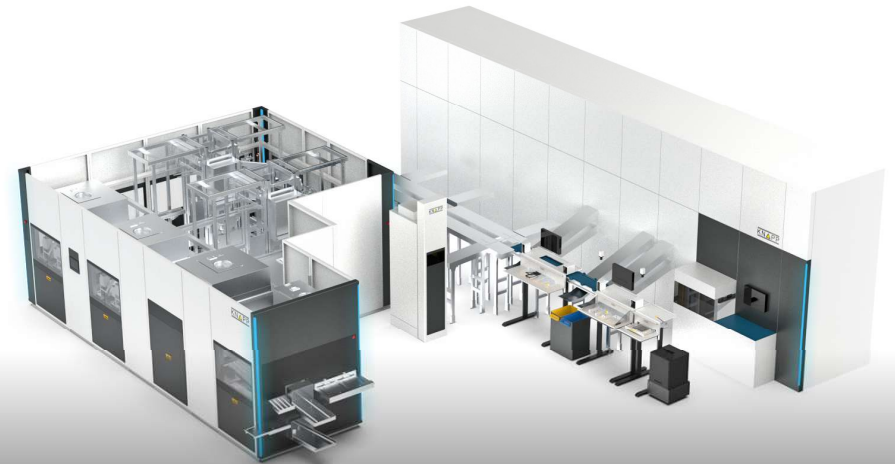
No separate clean room

- Use of original blisters, no bulk material, no dust.
- Minimum tablet drop height
- Integrated dust extraction in the production units



Integrated system solution

- Out of ONE hand
- Proven and reliable technology from KNAPP
- No need for additional subsystems suppliers





In a world where everything
is constantly changing,
strong values
and trust matter.
Partnership matters.

KNAPP

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making complexity simple