AT 50

SOTAX

The AT50 sets new standards for highly efficient testing of multiple batches in the lab – or fully integrated online testing with your tablet press. Robust and fast with reliable precision.

AT 50

Automatic Tablet Testing System

AT50 —
One for All.

For all your tablets

Fast testing of
5 parameters

Small footprint

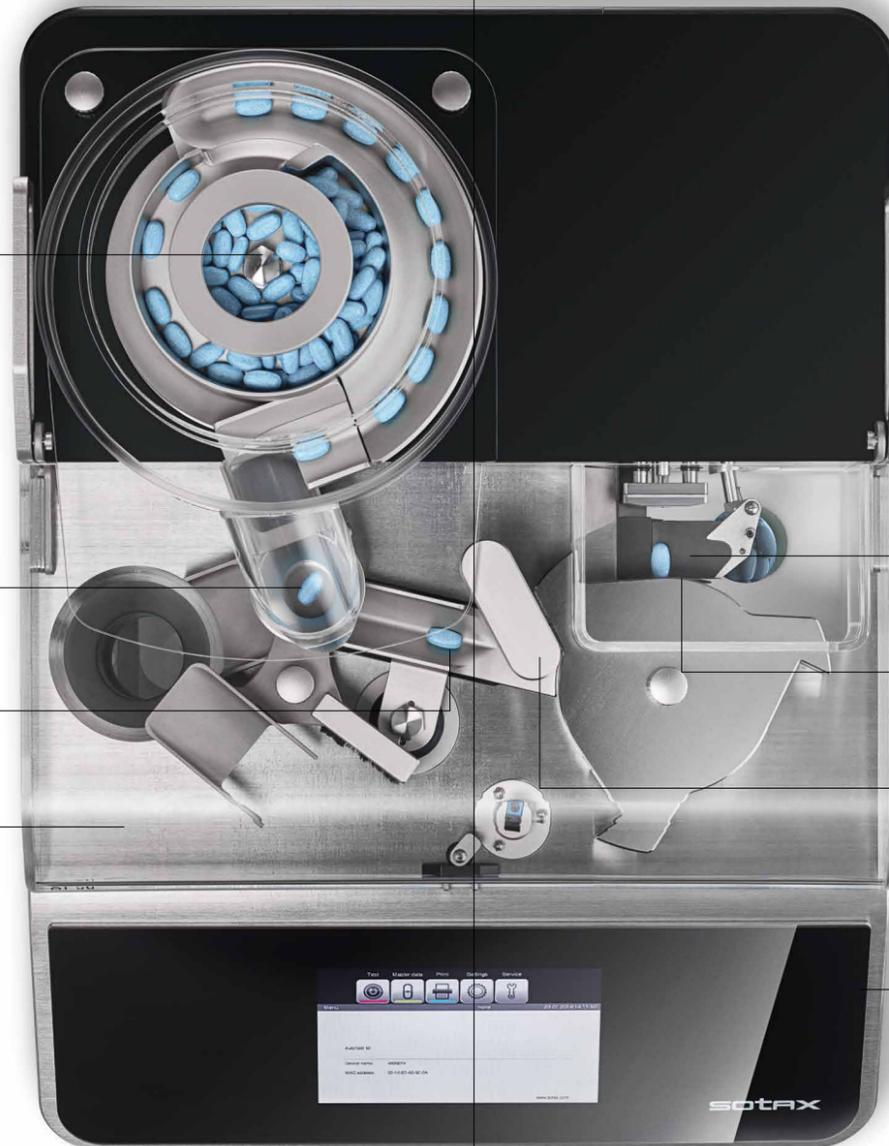Online with your
tablet press

Benchtop in R&D, QC,
and IPC labs

Universal high-speed separator
for reliable feeding of all
shapes & sizes

Weight measuring station
with fast "weight only" mode

Linear feeder prevents convex
tablet shapes from rolling

High visibility and very easy
cleaning of entire test area

Capsuled Width / Length (Diameter) /
Hardness measuring station

Reliable orientation of all tablet shapes
with AutoAlign™ and SmartAlign™

Thickness measuring with integrated
TouchControl™ sensor

Networking with q-doc® data integrity
management or online integration
with your tablet press

sotax

sotax.com/AT50

For all *your* products.

CONVEX

OBLONG

OVAL

ALMOND

HEXAGON

All tablets.
All environments.

Reliable positioning of samples for repeatable results is at the very heart of the AT50. Knowing that some tablet shapes pose different automation challenges for separation, transport, and correct alignment, our engineers combined proven features of existing SOTAX and Dr. Schleuniger® testers with new innovations. The result is an extremely flexible, robust, and fast automatic testing system. Equipped with both AutoAlign™ and SmartAlign™, the AT50 simply handles all your tablets – including difficult-to-orient oblongs, oval tablets, and even unconventional convex or flat shapes.

Make testing continuous.

Up to 10 different products can be loaded concurrently using an integrated magazine feeder. Once started, the AT50 executes complete sequences of test runs without requiring any change-over. You can even make your testing continuous by adding new sample sets to empty magazines anytime.

ROUND

TRIANGLE

AT 50

sotax

Five Parameters.
Three Stations.
One Tester.

Universal separator.

The self-adjusting high-speed feeder reliably separates all sizes and shapes – from very small samples to large effervescent tablets.

SmartAlign™

A flap with tilting mechanism reliably positions all standard shapes and unconventional dosage forms such as hexagonal tablets.

AutoAlign™

Two counter-rotating rollers accurately align even the most convex shapes for width / length (diameter) / hardness measuring.

Trouble-free weighing.

Tablets are automatically centered on the vibration-resistant weighing platform. Fragments or double tablets are immediately discharged.
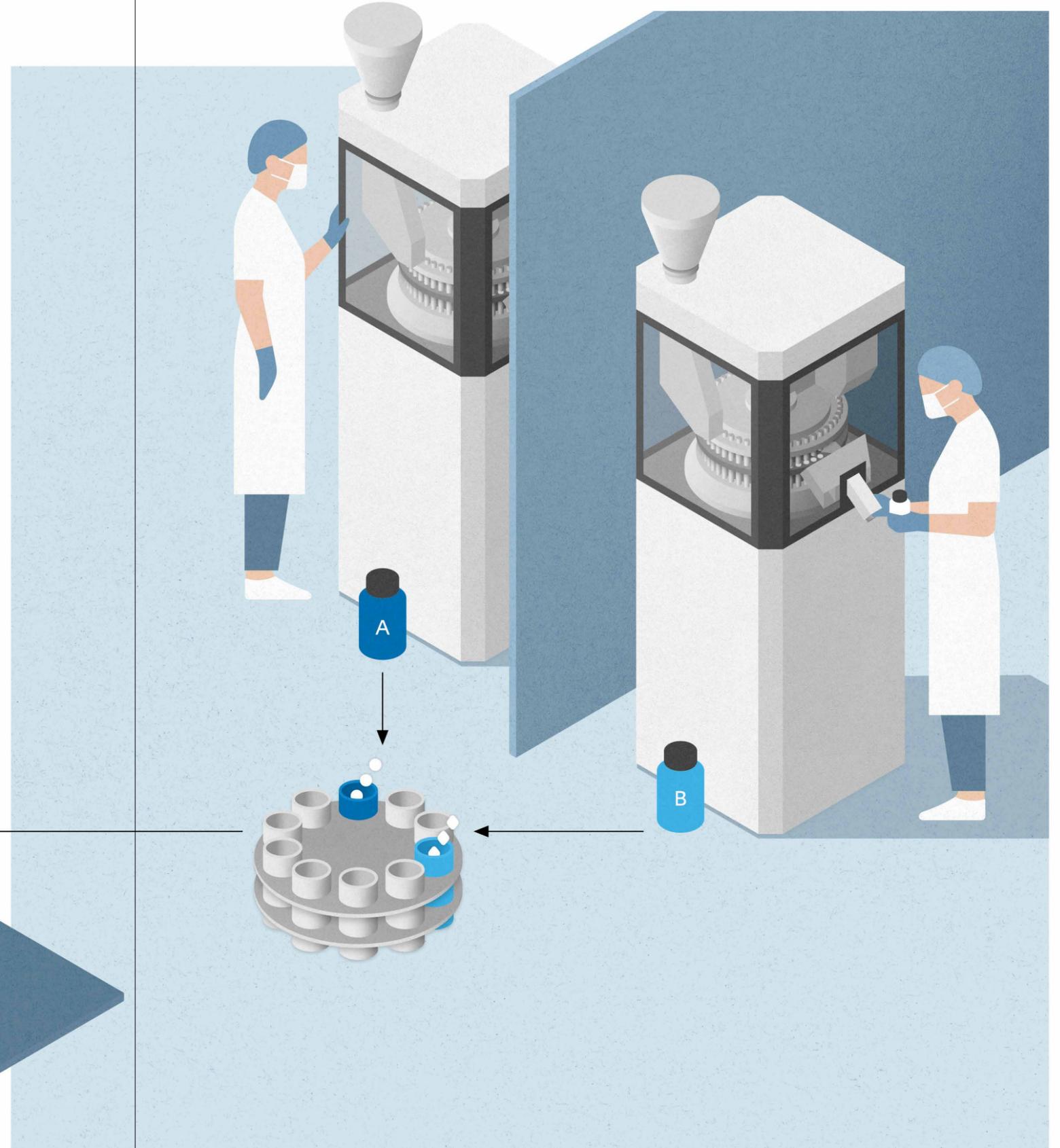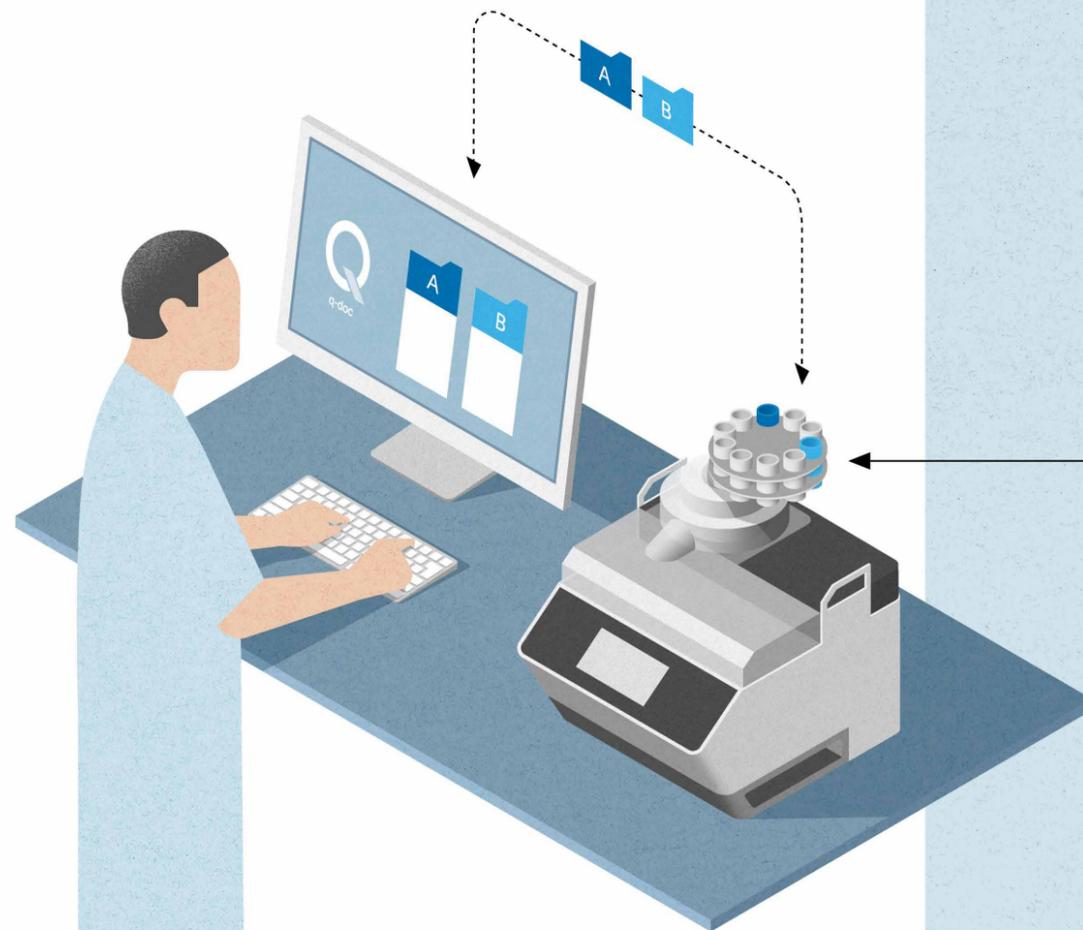
Highly accurate thickness.

A linear feed track ensures that tablets always arrive on their convex side for correct thickness measuring. An integrated TouchControl™ sensor prevents compression during measuring.

For the *lab.*

Automatically execute multiple test runs for different products and batches. Simplify DOE studies in R&D and maximize testing efficiency in QC and IPC laboratories. Benefit from built-in data integrity and network your AT50 with powerful q-doc® data management software to automatically protocol all results in full compliance with 21 CFR part 11 requirements.
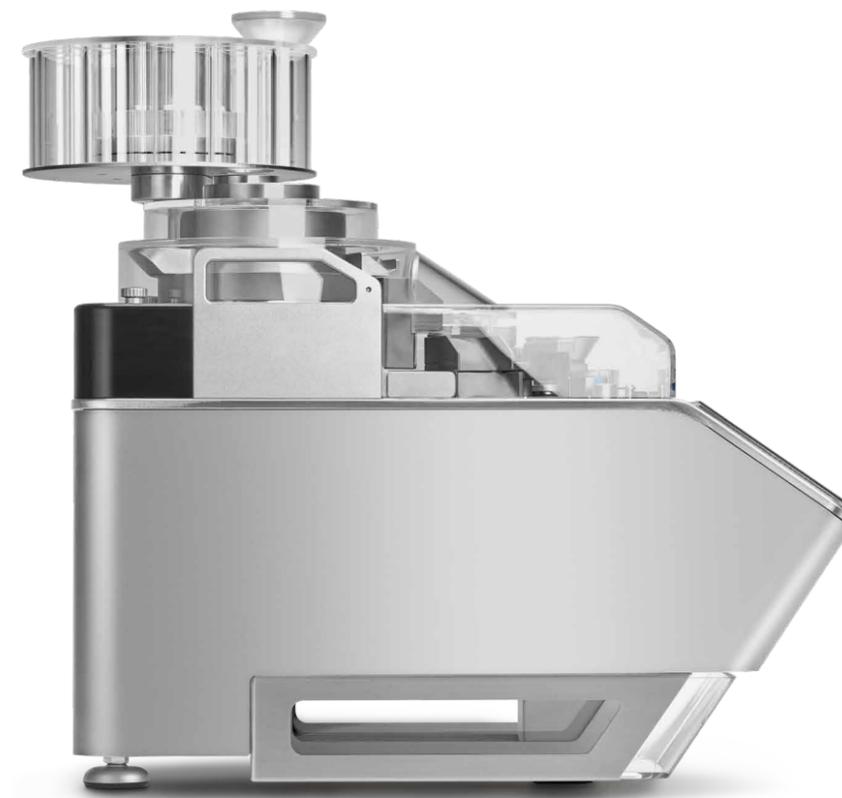
SmartAdd™ –
Keep on running.

Short cycle times and multi-batch handling make the AT50 a true workhorse for your laboratory. Receive a new lot from production for urgent testing or a new stability timepoint comes into the lab? No problem, the SmartAdd™ magazine feeder allows flexible interaction and avoids downtime.

Minimum bench space.

Compact and robust, the AT50 has a small footprint and fits on a standard laboratory bench. The open test area ensures that measuring processes remain fully visible at all times and that operators can easily perform routine cleaning of the stations.

Load up to 10 different products

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Continuous testing

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Add new sample sets anytime
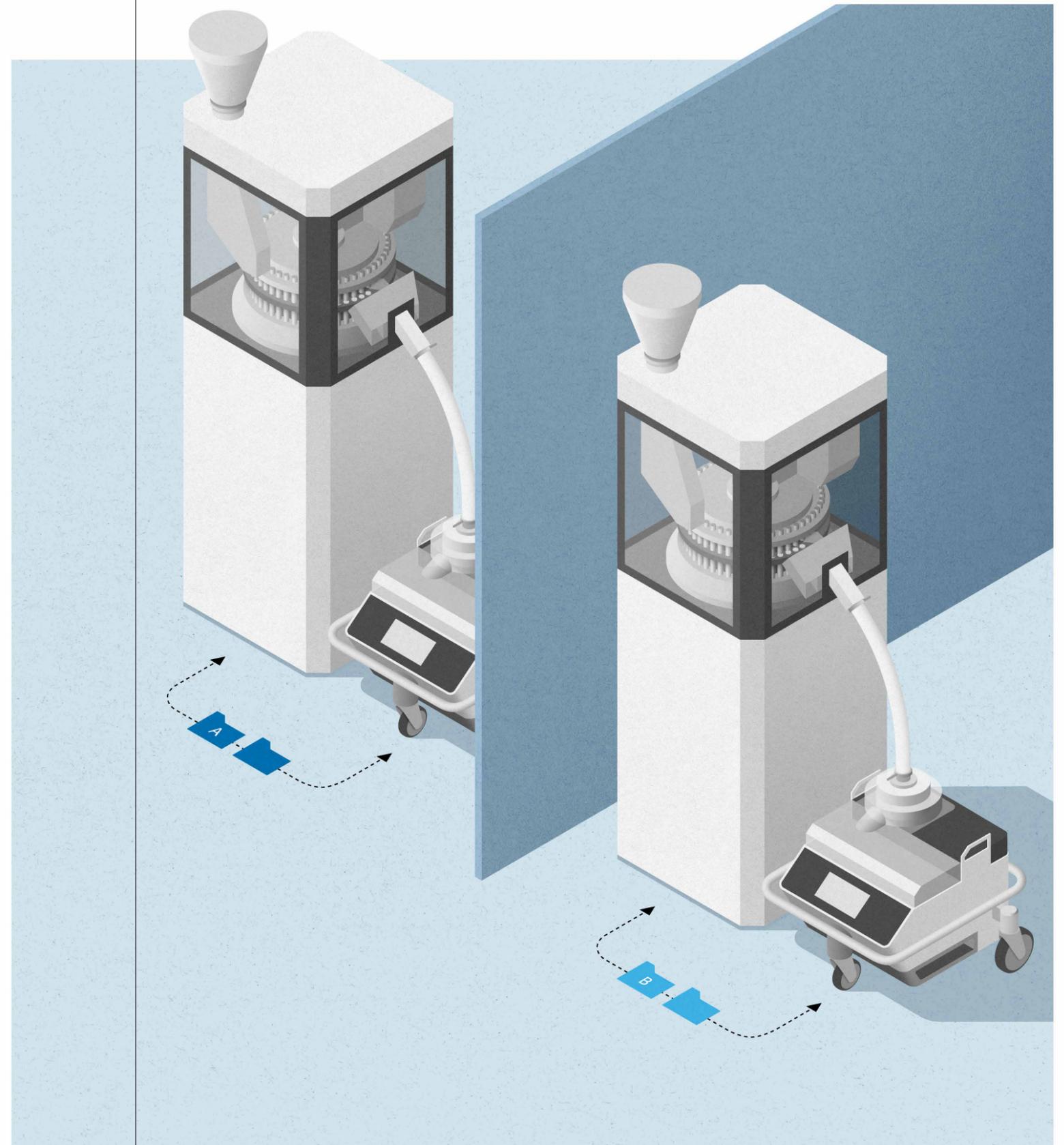
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No change-over

———

Excellent visibility of all processes

For *your* tablet press.

Designed for demanding environments such as compression rooms, the AT50 can be connected online with your tablet press for 100 % unattended in-process control (IPC). Tablet samples are automatically diverted and tested in regular time intervals – without any operator required. Based on measured results, the tablet press self-adjusts compression parameters if needed.

Automated sample collection.

Collect samples at regular time intervals for future reference or for further testing in the lab. Tested, non-broken tablets are automatically diverted into individual bins. Different collection modes for double-sided presses and bulk collection are readily available.

No dust inside the tester.

Prevent dust from entering the AT50 using our unique DustX™ brake cyclone. Diverted samples are gently decelerated as they arrive at the tester and dust is completely removed. Ideal for both single and double-sided tablet presses with venturi system.

AT50 Technical Specifications

Weight (Mass)	Integrated weighing module	Mettler Toledo®
	Units of measure	mg / g
	Resolution	0.1 mg
	Measuring range	up to 60 g
	Repeatability (typically)	0.15 mg
	Linearity deviation (typically)	0.3 mg
Thickness	Units of measure	mm / inch
	Resolution	0.01 mm
	Measuring range	2 – 20 mm
	Repeatability	± 0.03 mm
Width / Length (Diameter)	Units of measure	mm / inch
	Resolution	0.01 mm
	Measuring range	2 – 25 mm
	Repeatability	± 0.03 mm
Hardness	Units of measure	N / Kp / Sc
	Measuring range	2 – 800 N
	Repeatability	± 1 N
	Dr. Schleuniger® S-beam load cell	99.98 % linearity, over entire measuring range
	Calibration (Adjustment / Verification)	Static with reference weights / Dynamic with DQD™
Measuring principle	Constant speed	0.01 – 5 mm/s, programmable
	Linear force increase	10 – 200 N/s, programmable
Power supply		115 – 230 V / 50 – 60 Hz
CE Conformity	The AT50 fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.	

		Benchtop	Online
Configuration	10-magazine feeder, with SmartAdd™	○	–
	DustX™ brake cyclone	–	○
	Sample collector, with 10 collection bins	–	○
	Integrated wheels	–	●
	Integrated feet	●	–
Tablet alignment	SmartAlign™ with flap	●	●
	AutoAlign™ with rollers	○	○
Controller	q-doc® data management software	●	○
	Tablet press[1]	–	●
Ingress protection	(against dust and water)	IP52	IP52
Weight	(without packaging)	70.5 kg (156 lbs)	76 kg (168 lbs)
Dimensions	Width	450 mm (17.8 inch)	580 mm (22.8 inch)
	Depth	600 mm (23.7 inch)	730 mm (28.7 inch)
	Height	475 mm (18.7 inch)	527 mm (20.8 inch)

[1] Different communication protocols available for various tablet press models

● included / required
○ optional

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