

Hardness
Automatic

AT 50

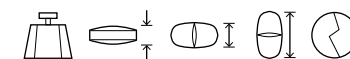
The AT50 sets new standards for highly efficient online testing with your tablet press – allowing for unattended operation with self-adjustment of compression parameters in real-time.

SOTAX



Automatic Online Hardness Tester

Hardness
Automatic



AT50 — One for All.



sotax.com/AT50

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

Short cycle times with minimal
distances between stations

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



Bi-directional press
communication

Robust & compact
IP52 standard

Low inlet height for
gravity feeding

Can be easily moved
on production floor

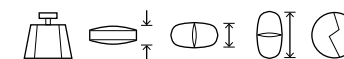
Integrated sample
collector

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
management or online integration
with your tablet press



For all your products.

Up to 5 parameters.

Depending on your tablet press model, the AT50 can measure up to 5 parameters (including width). Once started, a continuous series of tests is automatically executed at regular time intervals without requiring any change-over or operator attendance.



Convex



Oblong



Oval



Almond



Hexagon



Round



Triangle

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 with new innovations. The result is an extremely flexible, robust, and fast automatic testing system. The AT50 simply handles all your tablets – including difficult-to-orient oblongs, oval tablets, and even unconventional convex or flat shapes.





Short cycle times.



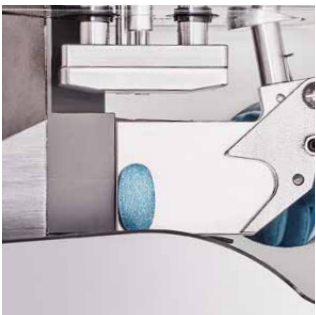
Universal separator.

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.

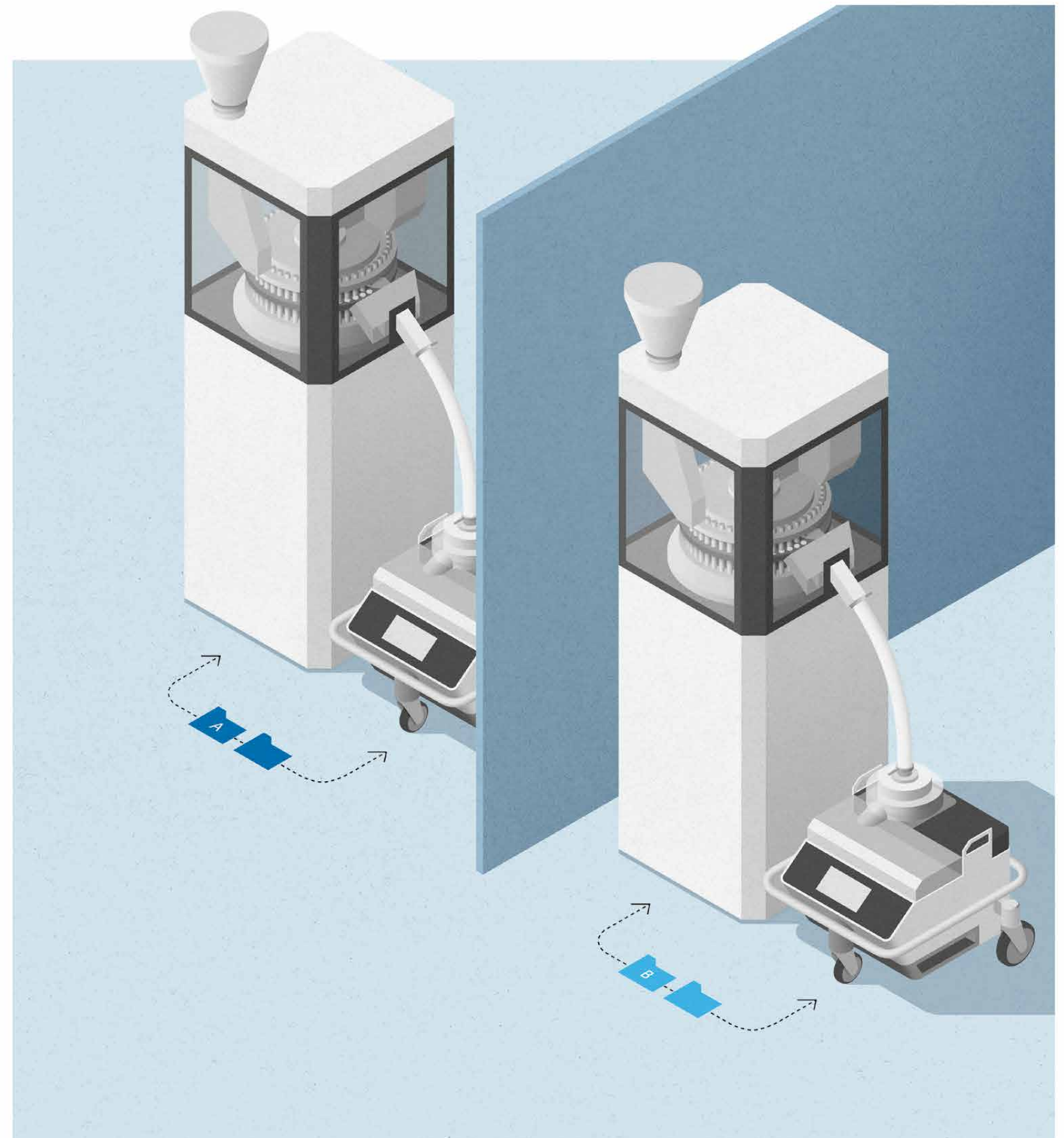


Highly accurate thickness.

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 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.





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	0.05 – 5 mm/s, programmable
	Linear force increase	10 – 200 N/s, programmable
Power supply	100 – 240 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.	

		Online
Configuration	DustX™ brake cyclone	○
	Sample collector, with 10 collection bins	○
	Integrated wheels	●
Tablet alignment	SmartAlign™ with flap	●
	AutoAlign™ with rollers	○
Controller	q-doc® data management software	○
	Tablet press *	●
Ingress protection	(against dust and water)	IP52
Weight	(without packaging)	76 kg (168 lbs)
Dimensions	Width	580 mm (22.8 inch)
	Depth	730 mm (28.7 inch)
	Height	527 mm (20.8 inch)

* Different communication protocols available for various tablet press models

● included / required
○ optional

Technical specifications are subject to change without prior notice. Products illustrated in this brochure may include options or modifications not fitted as standard. No liability for errors and omissions.

SOTAX Worldwide.

Europe

Switzerland (HQ Europe)

Aesch / Basel

P Tech Support +41 61 487 5460

P Office +41 61 487 5454

info@sotax.com

Czech Republic

Prague

P Tech Support +41 61 487 5460

P Office +420 246 039 260

sotaxcz@sotax.com

France

Saint-Louis

P Tech Support +41 61 487 5460

P Office +33 3 8970 0846

info@sotax.com

Germany

Lörrach

P Tech Support +41 61 487 5460

P Office +49 7621 16 5635

info@sotax.com

Great Britain

Foston, Derbyshire

P Tech Support +44 1332 981 571

P Office +44 1332 981 303

servicesGB@sotax.com

Italy

Milan

P Tech Support +41 61 487 5460

P Office +39 02 8363 2641

sotaxitalia@sotax.com

Ireland

Longford, Co. Longford

P Tech Support +353 43 334 7779

P Office +353 43 334 7779

servicesIE@sotax.com

Americas

USA (HQ Americas)

Westborough, MA

P Tech Support +1 508 544 4040

P Office +1 508 417 1112

sotaxusa@sotax.com

Canada

Westborough, MA

P Tech Support +1 508 544 4040

P Office +1 508 417 1112

sotaxcanada@sotax.com

Asia-Pacific

Thailand (HQ Asia-Pacific)

Bangkok

P Tech Support +91 99 202 11 211

P Office +66 26 42 68 62

sotaxasia@sotax.com

China

Shanghai

P Tech Support +41 61 487 5460

P Office +8621-6135 6268, ext. 205

sotaxchina@sotax.com

India

Mumbai

P Tech Support +91 99 202 11 211

P Office +91 22 4295 0191

sotaxindia@sotax.com

sotax.com