



Maximum Reliability in Tablet Production

In-process Control

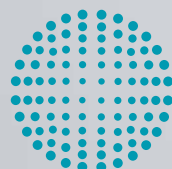
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TECHNOLOGY



COMPETENCE

SERVICE



**FETTE
COMPACTING**
be efficient

Checkmaster

The quality requirements for tablet production are constantly increasing. Process equipment from Fette Compacting ensures that your production fully complies with the applicable regulations and effectively reduces the workload of your staff. Extensive automation of all process steps reduces manual intervention and provides for excellent tablet quality.

Your advantages: maximum reliability, the highest quality and efficiency in tablet production.

The Checkmaster makes the automated measurement of the most important tablet parameters possible: weight, thickness, diameter and hardness – and completely integrates them into the in-process control concept.

FEATURES	BENEFIT
+ Fully automatic measurement of the four quality critical parameters: weight, thickness, hardness, diameter	+ Frequent sampling for seamless batch documentation
+ Automatic feedback to tablet weight control loop	+ Easy to clean, rapid availability after a product changeover
+ Precise control of tablet parameters within freely adjustable warning and stop limits	+ Guided validation and calibration process
+ Documented tablet inspection results in your batch report	+ Extremely accurate and reliable weight monitoring
+ 21 CFR Part11 compliant operation via Fette Compacting HMI (Human Machine Interface)	+ All common formats can be tested in standard configuration, customized star-wheels for non-standard formats available
+ GMP-compliant design	



EFFICIENCY GUIDE

TECHNOLOGY stands for everything we offer in production technology – from tablet presses and capsule filling machines through Process Equipment to tableting tools and format parts.

SERVICE covers all the services related to machines, Process Equipment and installations such as spare parts supply, plant modernization and technical field service department.

COMPETENCE is the overarching idea behind all our process-related services. This includes training, product trials, application and Performance Consulting as well as engineering.

**TECHNICAL DATA**

Measurement	Weight	Thickness	Diameter	Hardness
Measurement method	Precision weighing cell Sartorius WZ64S	Linear potentiometer	Pressure Load Cell (DMS)	Last Mess Cell (LMZ) with Pressure Load Cell (DMS)
Measuring unit	1 mg / 0.1 mg (adjustable)	mm or inch	mm or inch	N, Kp or Sc
Measuring range	0.01 g – 50 g	1–17 mm	3–18 mm (3–30 mm manuell)	4–400 N standard, optional 4–40 N / 8–800 N
Measuring accuracy	± 1 mg in stable environment, ± 2 mg in unstable environment	± 0.05 mm	± 0.05 mm	0,4–40 N (± 0,1 N) 4–400 N (± 1 N) 8–800N (± 2 N)
Dimensions W x D x H	590 x 400 x 530 mm			
Weight	50 kg (basic)			
Power supply	100–240 V, 50/60 Hz			

4-Parameter Tester

The flexible and modular 4-Parameter Tester is used for fully automated measurement of the four critical parameters: weight, thickness, diameter and hardness.



FEATURES	BENEFIT
+ Separation between the product area and the mechanical and electrical parts	+ CFR21 Part 11 operator-friendly software with reporting, including values / statistics / production tracking
+ Oval, square and rectangular shape centering device	+ New, stable weighing cell – less sensitive to production environments
+ File transfer via Ethernet, USB stick and Bluetooth printing	+ Easy cleaning, validation, calibration and maintenance
+ Local HMI display for parameter modification, fast test review and calibration	+ Extremely quiet test environment – no air turbulence

TECHNICAL DATA

Measurement	Weight	Thickness	Diameter	Hardness
Measurement method	Precision weighing cell Sartorius WZA224-L	Linear Potentiometer	Pressure Load Cell (DMS)	Last Mess Cell (LMZ) with Pressure Load Cell (DMS)
Measuring unit	1 mg / 0.5 mg / 0.1 mg (adjustable)	mm or inch	mm or inch	N
Measuring range	0.01 g – 50 g	3–18 mm	round (3–25 mm) shaped (5–22 mm)	4–400 N or 8–800 N
Measuring accuracy	± 1 mg in stable environment, ± 2 mg in unstable environment	± 0.05 mm	± 0.1 mm	± 2 N (800 N ± 4 N)
Dimensions W x D x H	500 x 580 x 990 mm			
Weight	45 kg			
Power supply	100–240 V, 50/60 Hz			

Tablet testing system that can be fully validated and automatically positions the tablet for measurement of weight, thickness, diameter and hardness.

Integrated Touch-Screen

The AT50 comes standard with an integrated touch screen (EasyTouch™). The EasyTouch™ Software enables easy adjustment of internal testing parameters to adjust to the exact shape of the tablet and speed up the measurement process.

Main features

- + Tests can be triggered fully automatically by the tablet press
- + CFR21 Part11 compliant control via Fette Compacting HMI
- + IP 52 protective housing
- + Mettler Toledo weighing cell
- + Optional rollers for precise tablet positioning on hardness/diameter station
- + Modular parts exchange
- + Possible integration into q-doc management software



BENEFIT

- + Automatic measurement of 4 physical parameters
- + Reliable orientation of complexly shaped tablets
- + Full integration with tablet press for self-regulation
- + Easy cleaning and parts exchange
- + Same measurement technology as Sotax laboratory devices
- + Robust design for production environment

TECHNICAL DATA

Measurement	Weight	Thickness	Diameter	Hardness
Measuring range	0.1 mg – 60 g	2–20 mm	2–25 mm	2–800 N
Resolution	0.1 mg	0.01 mm	0.01 mm	1 N
Dimensions W x D x H	580 x 730 x 527 mm			
Weight	76 kg			
Power supply	100–240 V, 50/60 Hz			

NIR Checkmaster

NIR analysis of tablets can significantly cut release times. This technology enables to shorten time and costs on the batch release procedures.

FEATURES

- + Fully automatic measurement of the critical parameters during the production
- + The patented NIRCAL-Software enables a robust and extremely precise calibration

BENEFIT

- + Higher process reliability, test cycles on production process and quality specifications
- + Reduction of production time and costs
- + Shorter release times (Real-Time-Release)
- + Precise positioning for reproducible results



TECHNICAL DATA*

Interferometer type (NIR-Unit)	Polarization interferometer
Detector type	InGaAs, fitted with thermost
Spectral range	12,500–6,000 cm^{-1} (recommended 11,520 – 6,000 cm^{-1}), resp. 800–1,660 nm (recommended 870–1,660 nm)
Resolution	8 cm^{-1} (Boxcar-apodization)
Dynamic photometric range	0–6 AU
Wave number accuracy	$\pm 0.2 \text{ cm}^{-1}$
Typical signal-noise ratio (Rms for spectral segments of 300 cm^{-1} in range between 11.000–6.500 cm^{-1})	open beam: mean value: 2×10^{-5} AU measured with 5 mm spectralon: 10×10^{-5} AU
Lamp type	Tungsten-halogen with $2 \times 6,000$ h working life (double lamp module)
Laser type	HeNe
Dimensions W x D x H	586 x 740 x 581 mm
Weight	107 kg
Power supply	100–240 V, 50/60 Hz

* For the NIR Checkmaster the same technical data as for the Checkmaster apply.

Cost-optimized process equipment for in-process control of tablet weight.

FEATURES	BENEFIT
+ Fully automatic measurement of tablet weight	+ Frequent sampling for seamless batch documentation
+ Automatic feedback to tablet weight control loop	+ Easy to clean, rapid availability after a product changeover
+ Precise control of tablet parameters within freely adjustable warning and stop limits	+ Guided validation and calibration process
+ Documented tablet inspection results in your batch report	+ Extremely accurate and reliable weight monitoring
+ 21 CFR Part11 compliant operation via the Fette Compacting HMI (Human Machine Interface)	+ All common formats can be tested in standard configuration, customized star-wheels for non-standard formats available
+ GMP-compliant design	



TECHNICAL DATA	
Measurement method	Precision weighing cell Sartorius WZ64S
Gauge accuracy	1 mg / 0.5 mg / 0.1 mg (adjustable)
Measuring accuracy	± 1 mg in stable environment ± 2 mg in unstable environment
Measuring range	0.01 g – 50 g
Dimensions W x D x H	480 x 480 x 480 mm
Weight	30 kg
Power supply	100–240 V, 50/60 Hz

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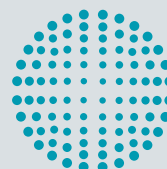
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