



MARViTECH

The Art of Measurement

EXPERTS IN SEED ANALYZING

Interview with Thomas Stumpe, owner of MARViTECH

Red: What is special about our devices?

TS: From my point of view, in addition to speed, reliability and precision, the following are the most important points...

You can analyze any kind of seeds and you are best prepared for future tasks.

The system is freely configurable and highly adaptable to your requirements.

Accessory equipment can be provided by you and integrated into the system. This minimizes your investment costs.

Red: Customers are often unsure about investing...

TS: I can imagine that you are unsure about choosing the right technology. And I can promise you that we are very good at what we do. We have the experience of more than 300 units that we support worldwide.

Red: Is your system able to fulfill all customer requirements?

TS: Of course, there are endless requirements for an analysis system. Let's talk together about what is possible or what maybe not yet. I'm looking forward to your call or e-mail.

Here my direct contact:

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Thomas Stumpe, owner of MARViTECH

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Datasheet MARViN ProLine

The MARViN ProLine seed analyzer is a measuring system to analyze samples of every kind of seed regarding size, shape and weight. It is a batch measuring. The seeds will be filled in the seed tray. The number of the seeds are depend of the seed size. After the optical measuring process the seed tray will be emptied and weight. The scale is connected to the MARViN system. The measured value appeared in the protocol. The MARViN software generate further parameter and is part of the MARViN system.



MARViN ProLine with scale

- MARViN precision system for daily laboratory use
- very fast measuring time < 3 sec.
- for grain sizes from 0,5 mm²
- Counting accuracy at least 99%
- large seed tray for a high number of seeds
- Easy filling and emptying of the seed tray
- group mode for higher numbers of samples
- fractionation of length, width, area
- Highest accuracy from 1 to 1000 (or more) seeds
- Computer with MARViN software necessary

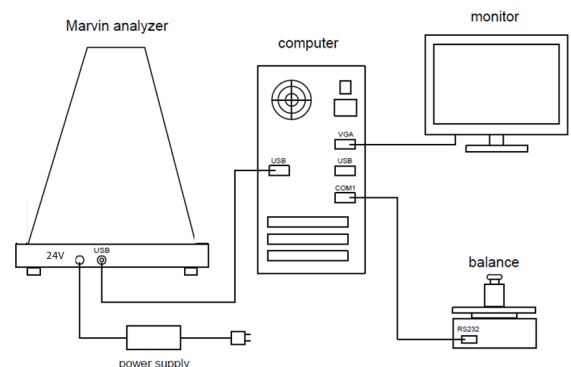
Operation device:

- dimensions (LxWxH): ca. 47x42x60cm
- power supply 100-240V (50-60Hz) with external power unit
- high resolution CMOS digital camera with USB interface
- stainless steel cover with powder coating (dark grey)
- tilt function for fast emptying
- underframe powder coated ca. 49x54x25cm

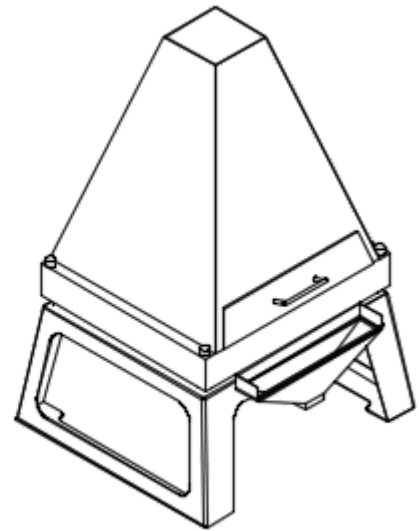
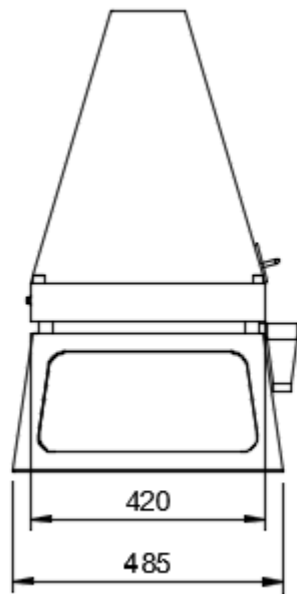
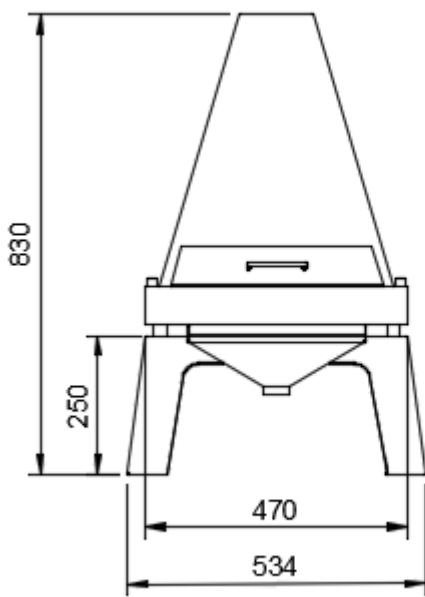
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Net Weight: 16kg / 3kg

Country of origin: GERMANY



Datasheet MARViN ProLine



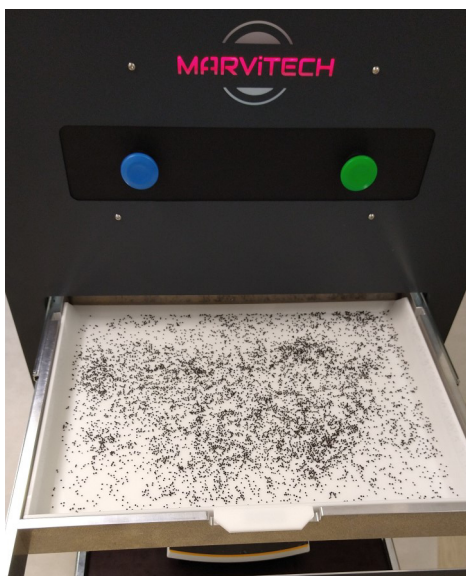
Datasheet MARViN XLine

The MARViN XLine seed analyzer is a measuring system to analyze samples of every kind of seed regarding size, shape and weight. It is a batch measuring. The seeds will be filled in the seed tray. The number of the seeds are depend of the seed size. After the optical measuring process the seed tray will be emptied and weight. The scale is connected to the MARViN system. The measured value appeared in the protocol. The MARViN software generate further parameter and is part of the MARViN system.



MARViN XLine with options

- MARViN precision system for daily laboratory use
- very fast measuring time < 3 sec.
- for grain sizes from 1 mm²
- Counting accuracy at least 99%
- large seed tray for a high number of seeds
- Easy filling and emptying of the seed tray
- group mode for higher numbers of samples
- fractionation of length, width, area
- Highest accuracy from 1 to 1000 (or more) seeds
- Computer with MARViN software necessary



Operation device:

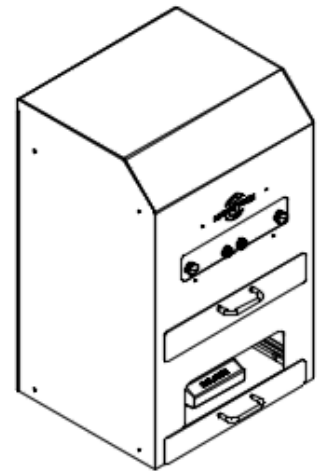
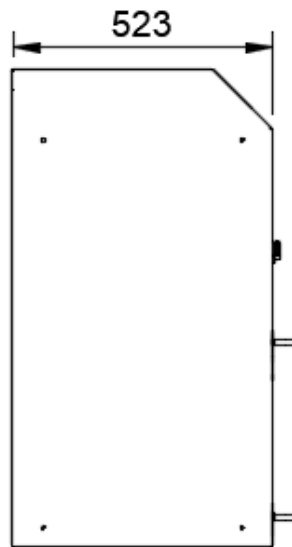
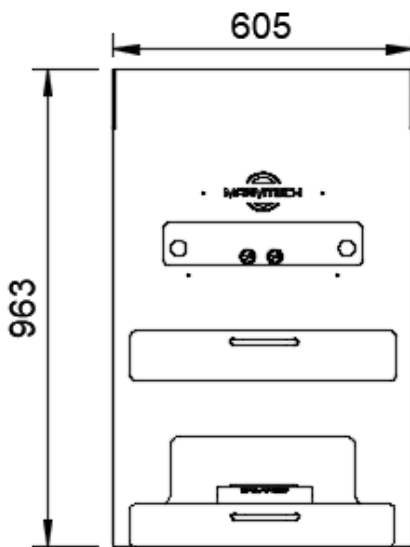
- dimensions (LxWxH): ca. 605x523x963cm
- power supply 100-240V (50-60Hz) with external power unit
- high resolution CMOS digital camera with USB interface
- stainless steel cover with powder coating
- tilt function for fast emptying

HS-CODE: 90314990

Net Weight: 70 kg

Country of origin: GERMANY

Datasheet MARViN XLine



Datasheet MARViN CompactLine

The MARViN CompactLine seed analyzer is a measuring system to analyze samples of every kind of seed regarding size, shape and weight. It is a batch measuring. The seeds will be filled in the seed tray. The number of the seeds are depend of the seed size. After the optical measuring process the seed tray will be emptied and weight. The scale is connected to the MARViN system. The measured value appeared in the protocol. The MARViN software generate further parameter and is part of the MARViN system.



- MARViN precision system for laboratory use
- very fast measuring time < 3 sec.
- for grain sizes from 0,25mm²
- Counting accuracy at least 99%
- group mode for higher numbers of samples
- fractionation of length, width, area
- Highest accuracy from 1 to 1000 (or more) seeds
- Computer with MARViN software necessary
- External scale is necessary

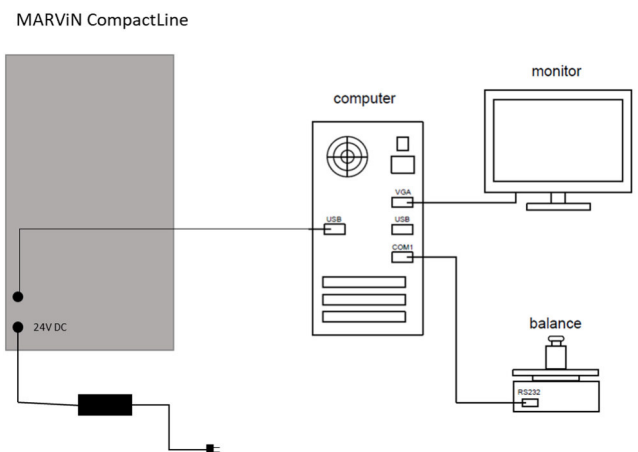
Operation device:

- dimensions (LxWxH): ca. 28x26x55cm
- power supply 100-240V (50-60Hz) with external power unit
- high resolution CMOS digital camera with USB interface
- cover with powder coating
- Seed tray 18x18cm

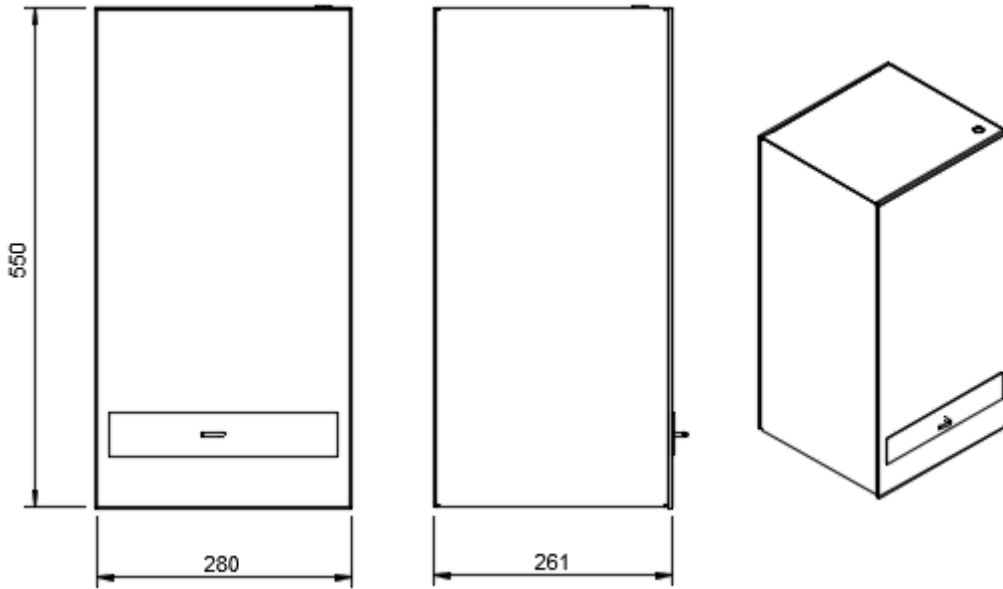
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Net Weight: 12kg

Country of origin: GERMANY



Datasheet MARViN CompactLine






Seed measuring with MARViN seed analyzers

MARViN CompactLine, MARViN ProLine, MARViN XLine

Name		Seed size in mm ²	Seeds per batch		
			Compact Line	Pro Line	X Line
Tomato		2-4 mm ²	500	1.500	3.000
Onion		3-7 mm ²	700	2.000	4.000
Pepper		8-12 mm ²	200	750	1.500
Porree		2-4 mm ²	500	1.500	3.000




Seed measuring with MARViN seed analyzers

MARViN CompactLine, MARViN ProLine, MARViN XLine

Cellary		0,5 – 1 mm ²	1.500	4.500	Not possible
Chicoree		2-3 mm ²	800	2.500	5.000
Parsnip		15-20 mm ²	100	300	600



Seed measuring with MARViN seed analyzers

MARViN CompactLine, MARViN ProLine, MARViN XLine

Name		Seed size in mm ²	Seeds per batch		
			CompactLine	ProLine	XLine
Wheat		10-15 mm ²	500	1.500	3.000
Barley		15-20 mm ²	350	1.000	2.000
Rapeseed / Canola		2-4 mm ²	1.300	4.000	8.000



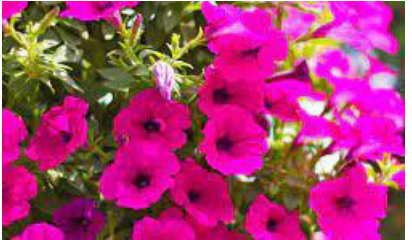
Seed measuring with MARViN seed analyzers

MARViN CompactLine, MARViN ProLine, MARViN XLine

Name		Seed size in mm ²	Seeds per batch		
			CompactLine	ProLine	XLine
Corn		40-60 mm ²	80	250	500
Pennycress		1,5-2,5 mm ²	500	1.500	3.000

Seed measuring with MARViN seed analyzers

MARViN CompactLine, MARViN ProLine, MARViN XLine

Name		Seed size in mm ²	Seeds per batch		
			CompactLine	ProLine	XLine
Antirrhinum		0,5 – 1 mm ²	1.200	3.000	Not possible
Begonia		< 0,5 mm ²	2.000	Not possible	Not possible
Petunia		0,5 – 1 mm ²	1.200	3.000	Not possible

Entris[®] II – Essential Line



Benefits

- Highly accurate results—guaranteed via monolithic weigh cell technology invented by Sartorius
- Fastest stabilization time in its class – using state-of-the-art weighing sensors
- High chemical resistance—ensured using parts made from hard-wearing polybutylene terephthalate (PBT), stainless steel and glass

Product Information

No matter what you're weighing, the new Entris[®] II is always the right choice. Offering unrivaled value at a budget price, this is the only balance in its class featuring isoCAL, LED touch technology and 12 built-in applications. Backed by almost 150 years of German engineering expertise, and available in 40 different models, you'll easily find an Entris[®] II balance that exactly meets your specific weighing needs.

Technical Specifications

General Technical Data

Ambient Conditions		Value
Installation site	For indoor use only, max. height above sea level	3000 m
Temperature	Environment (metrological data)*	+10 – +30 °C
	Environment	+5 – +40 °C
	Storage and transport	-10 – +60 °C
Relative humidity**	At temperatures up to 31° C, non-condensing, then linear decrease from max. 80 % at 31° C to max. 50 % at 40° C	15 – 80 %
No heat from heating systems or direct sunlight		
No electromagnetic fields		

Power Supply Device		Value
Input voltage		15 V _{DC} (±10 %)
Power consumption, max		4 W
Only by Sartorius power supply unit YEPS01-15V0W with interchangeable country-specific plug-in AC adaptors		

Power Supply Unit		Value
Type: Sartorius power supply unit YEPS01-15V0W		
Primary	Voltage	100 – 240 VAC (±10 %)
	Frequency	50 - 60 Hz
	Current consumption, maximum	0.2 A
Secondary	Voltage	15 VDC (±5 %)
	Current, maximum	0.53 A
Short-circuit protection		Electronic
Protection class according to IEC 60950-1		II
Pollution level according to IEC 61010-1		2
Overvoltage category according to IEC 60664-1		II
Other data: See label on the power supply unit		

Electromagnetic Compatibility	
Interference resistance: Suitable for use in industrial areas	
Transient emissions	Class B Suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings.

Materials	
Housing	Polybutylene terephthalate (PBT)
Control module	Glass
Draft shield	Glass polybutylene terephthalate (PBT)
Weighing pan	Stainless steel

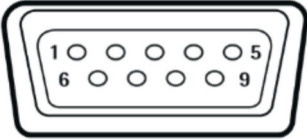
Warm-up Time		Value
Device, approx		2 h

* For conformity-assessed (verified) balances in accordance with EU requirements, refer to the information on the balance.

** For conformity-assessed (verified) balances in accordance with EU requirements, the legal regulations apply.

Interfaces

Specifications of the RS232 Interface

Type of interface	Serial interface
Interface operation	Full duplex
Level	RS232
Connection	D-sub connector, 9-pin
Maximum cable length	10 m
Pin assignment	 Pin 1: Not assigned Pin 2: Data output (TxD) Pin 3: Data input (RxD) Pin 4: Not assigned Pin 5: Internal ground Pin 6: Not assigned Pin 7: Clear to Send (CTS) Pin 8: Request to Send (RTS) Pin 9: Universal key

Specifications for the USB-C Interface

Communication	USB UTL
Connectable devices	Sartorius printers, Sartorius second display or PC

Calibration

Internal calibration isoCAL (models with marking i-1x)

External calibration

Selectable Weight Units*

Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China tael, mommes, Austrian carat, tola, baht, mesghal and Newton

Display

Intuitive, wear resistant LED screen with touch technology

Built-in Applications

- Weighing | Dosing
 - Counting
 - Percentage weighing
 - Mixing | Net total
 - Components | Totalizing
 - Animal weighing
 - Calculation | Free factor
 - Density determination
 - Underfloor weighing feature for bigger samples
 - Statistics
 - Peakhold
 - Checkweighing
 - Mass unit conversion
-

Languages

English, German, France, Italian, Spanish, Portuguese, Russian, Polish

Protection

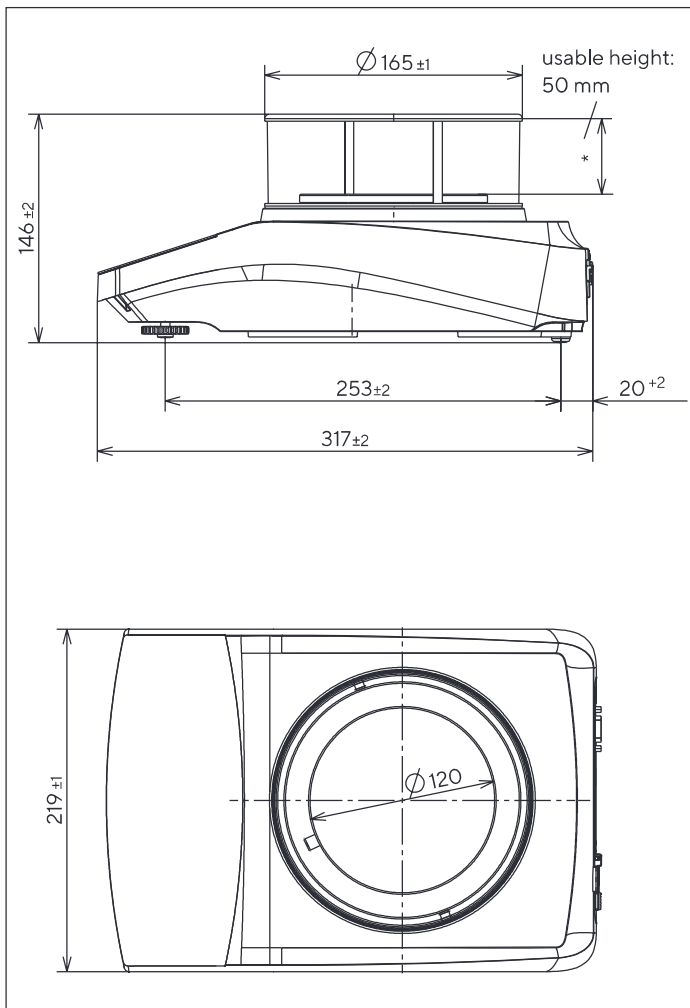
- Chemical resistant housing parts
 - Glass parts of the draft shield are coated to reduce electrostatic influences
 - Display foil (available as accessory)
 - Dust cover for balances with draft shield
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Anti-theft Lock

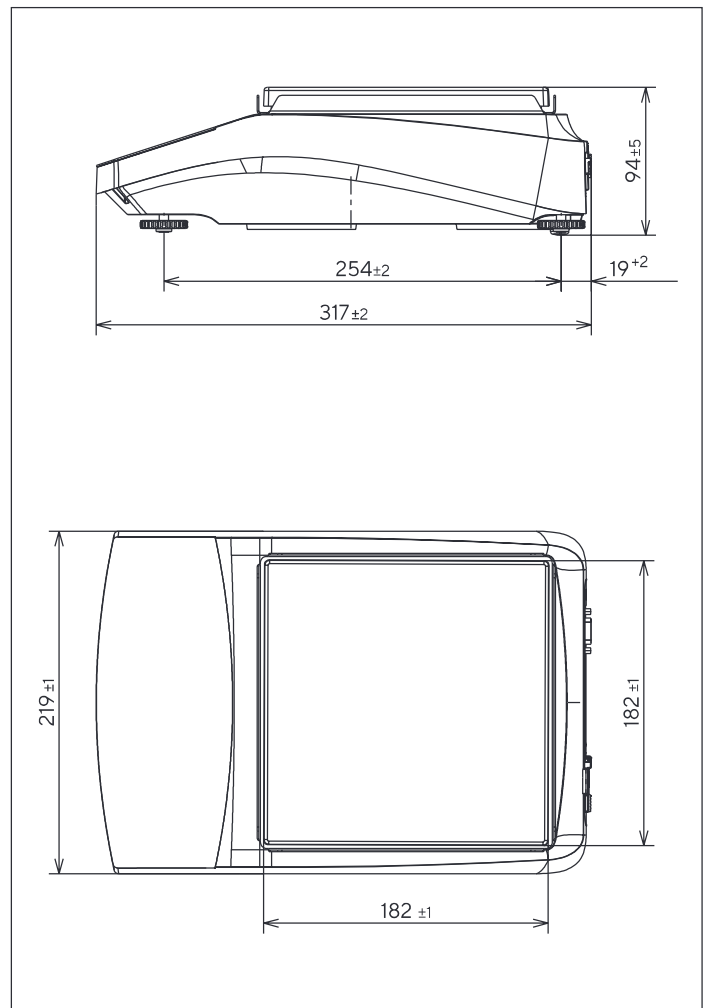
Kensington lock and lockdown capability for cable or chain

* The availability of units depends on national legislation and is therefore country-specific.

Models with a readability of 1 mg, with round glass shield
 All dimensions are given in millimeters

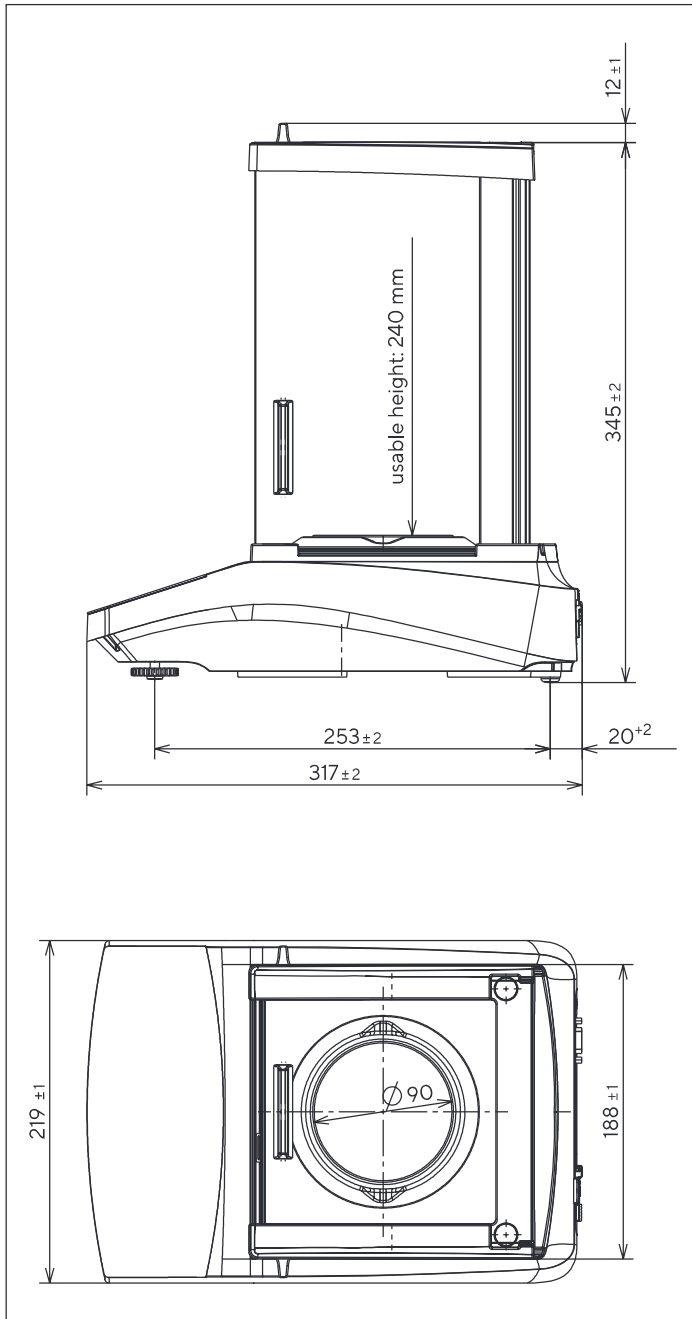


Models with a readability of ≥ 10 mg
 All dimensions are given in millimeters

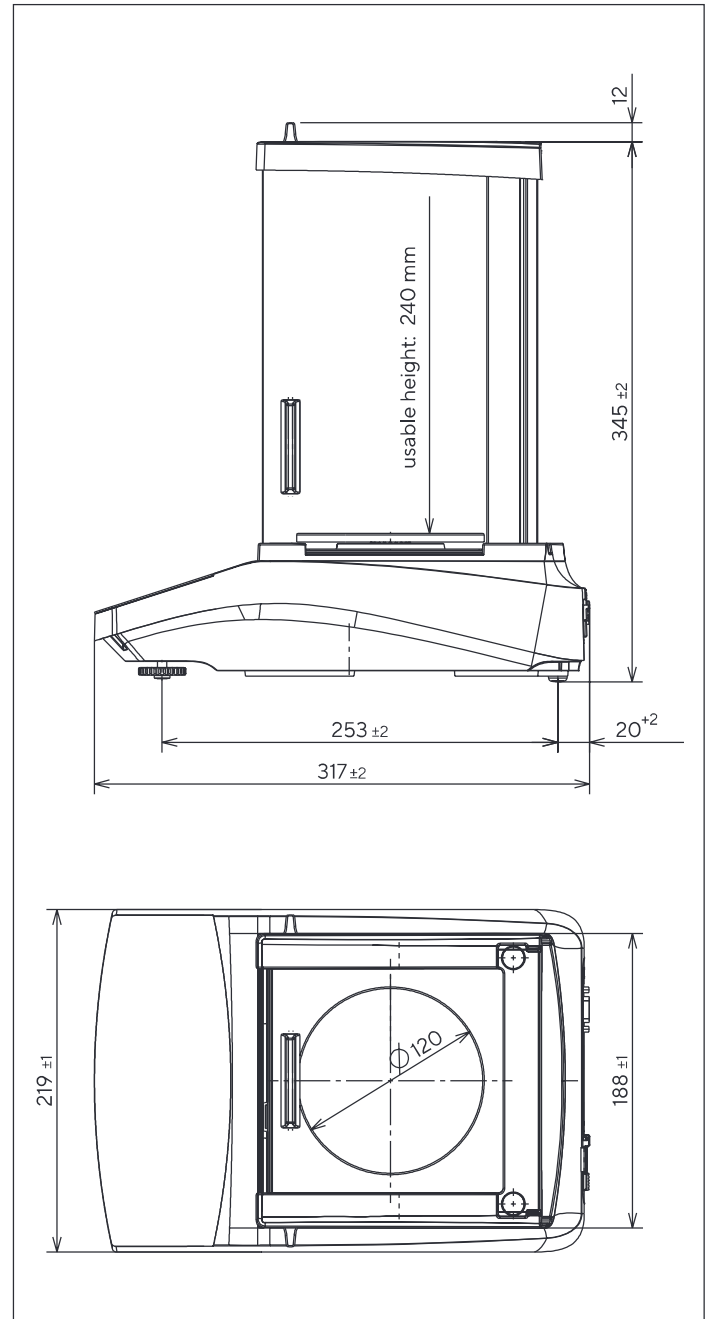


Technical Drawings

Models with a readability of 0.1 mg
All dimensions are given in millimeters



Models with a readability of 1 mg
All dimensions are given in millimeters



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