Our solutions.

These guidelines are intended to help you select the right balance for your process.



MinWeigh warns you when your sample weight is below the defined minimum weight. Small minimum weights increase the yield of the substance and are therefore cost-saving. Our recommendation for typical minimum weights: from 0.6 mg: UMX2

from 2.1 mg: XP26/56 from 24 mg: XP205

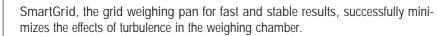
Models: UMX / MX / XP

from 1.5 mg: MX5

SmartSens, the sensor for hands-free operation.

Thanks to SmartSens, you can weigh without touching the balance. Tare, open the door, close the door, weigh, print: Everything is automatic and hands-free. You can focus completely on the sample, and weigh valuable or dangerous substances safely and without spilling.

► Models: UMX / MX / XP



The result: The display reacts like lightning, and you get measuring results fast. ErgoClip taring container holder for ergonomic weighing. The ErgoClip holder allows you to securely position any type of tare container

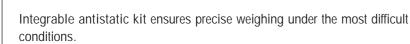
so that nothing goes wrong with your sample.

▶ Models: XP / XS



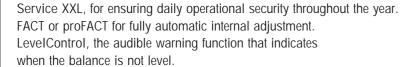
8 Users, to enter individual user profiles. Saves time and helps prevent mistakes. XP analytical balance together with User Management: Configuration of access rights, option to deactivate profiles and functions that are never used.

► Models: UMX / MX / XP



Thanks to the integrable ionizer, the electrostatically charged object is immediately neutralized. The forces that falsify the weighing are eliminated.

► Model: XP



BalanceCheck, automatically prompts to check the balance with external

Flexible interface system for fast and reliable data management, and

LabX balance, the PC software for instrument and data management in accordance with 21 CFR Part 11 Minimum Sample Weights for maximum profitability!

If you are able to weigh in smaller sample amounts with the same level of confidence, this raises the yield of your substance and reduces costs - sometimes dramatically. And if you are able to weigh the same amount of sample with even greater accuracy, the quality of your weighing results is enhanced. Both of these factors are critical when dealing with precious substances. For these types of application, be sure to choose a balance that offers a very low minimum sample weight as well as a large weighing range – so you can weigh in directly into the tare container placed on the balance!

### The right balance for your application

Choose a balance which meets your defined tolerances for minimum sample weight, as specified in the manufacturer's typical specifications.



52g capacity & 0.001mg resolution Typical minimum sample weight according to USP: 2.1mg



### On-site equipment qualification

Let our Service Technician perform IQ, OQ, even PQ qualifications of your balance in the exact location where it will be used – for maximum performance and minimum uncertainty.



- Determines measurement uncertainty for the smallest sample quantities
- Produces a certificate for documented weighing performance
- · Activates the MinWeigh function to ensure minimum weight values are always within specifications





Less cost

More safety



### such as the XP56, smaller sample quantities can be weighed with the same levels of accuracy and weighing confidence.

## Your benefits

The result

# Smaller sample quantities of valuable and hazardous substances

- Less sample material = cost savings
- Less waste disposal = cost savings
- Less risk for staff = more safety (hazardous substances)

Using a high-resolution microbalance

- Less environmental waste = more ecological (hazardous substances)
- Increased weighing range combined with maximum readability means:
- One can weigh directly into the tare container Spillage is prevented = cost savings
- Increased certainty of results
- Increased safety of users (hazardous substances)

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METTLER

**TOLEDO** 

METTLER TOLEDO Microbalances and **Analytical Balances** at the Excellence Level

Guidelines for Selecting

the Right Analytical Balance

Your requirements? Precise weighing is the backbone of many laboratory processes. Non-compliance with defined maximum limits can have disastrous consequences in regulated areas. Measurement sequences must be repeated, and valuable substances are lost. Invalid values can even cause production stops.

Correct and reliable data, weighing valuable substances Is high measurement certainty important for you? Are you required to weigh within defined tolerances? Is your substance expensive or difficult to obtain? Is it important for you to be able to weigh extremely small quantities with



For correct and reliable data: MinWeiah

Hazardous material

extremely high accuracy?

Do you work with toxic substances? Is it important for you that users are protected?

Would you like to avoid cross contamination?

Fast weighing to the target weight, even under difficult environmental

Is it important to you that the balance shows precise results fast? Do you weigh under difficult environmental conditions?

Is it important to you that the weighing process is as short as possible?

For the fastest measuring results:

SmartGrid and ErgoClips

For the protection of

users and samples:

SmartSens

User profiles and access rights

Do different users work on one balance?

Are you required to document what is weighed, when and how it is weighed, and who weighs it?



For secure operation through individual configurations 8 Users

Electrostatically charged samples

Are your samples electrostatically charged, making it difficult to obtain stable and exact weighing results?



For immediate neutralization of electrostatically charged samples: Antistatic Kit

Ensuring weighing performance Are you required to check your balance on a regular basis? Are you audited by external bodies?



For ensuring weighing performance: ServiceXXL FACT or proFACT LevelControl and BalanceCheck

Fully traceable documentation

Are you required to provide seamless documentation of your re-

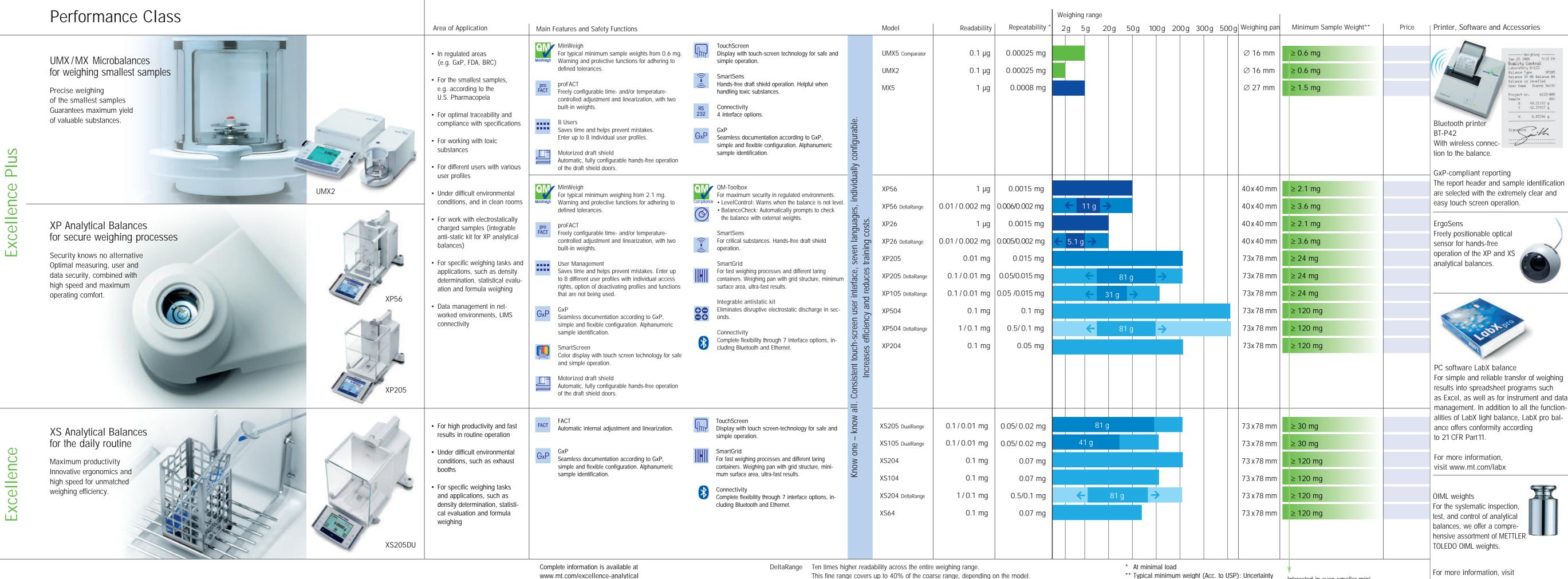
Is it important to clearly identify your samples?

Is the data integrated into a network (LIMS)?



For data management and data security: Flexible interface system and LabX balance software





For more information, visit www.mt.com/weights

Filter kits For MX and UMX. For weighing filters with a diameter of up to 110 mm.



49,21183 g 42,37937 g

N 6.83246 g

Density kit for XP/ XS For determining the density of liquids and solids. Fast and secure, together with the built-in density application software.



Holders for round-bottom flasks and graduated flasks, various test tubes and a wide variety of single-use positioning on all XP/XS models.

- For round-bottom flasks
- For graduated flasks
- For large taring containers, such as titration beakers

For weighing boats



MinWeigh Door Draft shield with adjustable opening. Combined with the ErgoClip Flask, it enables direct weighing into the tare container and shorter



Antistatic kit for XP analytical balances The fully integrable ionizer generates positive and negative ions which immediately eliminate disruptive electrostatic charge.

The system does not swirl any of the sample substances. Toxic substances no longer pose a threat to users, and cross contamination of samples is

The antistatic kit ensures the fastest possible weighing under the most difficult conditions.

This fine range covers up to 40% of the coarse range, depending on the model.

on the model.

mum sample weights? See backpage.

DualRange Dual-range balance. Fine range from 0 to up to 40% of the weighing range, depending

\*\* Typical minimum weight (Acc. to USP): Uncertainty of 0.1% and three standard deviations (3 sd) at low load using small tare containers.

Interested in even smaller mini-