



Application of Balances in the Pharmaceutical Industry



RADWAG Brand in Pharmacy

Pharmaceutical industry sets a range of numerous requirements for a weighing device. To comply with these requirements, the instruments used in pharmacy must be:

1. **precise in weighing** – the most precise weighing instruments by RADWAG offer readability $[d] = 0.1 \mu\text{g}$;
2. **safe in terms of measurements** – weighing modules in our devices may display prompts reminding the users about routine tests, which carried out regularly ensure the accuracy of weighing;
3. **compliant with regulations** (21 CFR Part 11, GMP, GLP and USP) - the weighing instruments must meet crucial legal requirements guaranteeing the accuracy of weighing, particularly in pharmacy.
4. **compatible with an external software** like LIMS or WERUM, i.e., software dedicated for processes in laboratory and pharmaceutical and biotechnological branches;
5. **economic** – since pharmaceutical companies weigh few hundred samples a day therefore solution allowing to cut one sample costs will provide profit on a global scale and ensure data integrity, which enables wide selection of easily accessible databases.

All the aforementioned requirements are met by RADWAG balances and scales, therefore these devices are willingly selected by our customers representing the pharmaceutical industry. Below we present the companies from all around the world which effectively operate in pharmacy and with which we have the honour to cooperate, right next to the weighing instruments manufactured by RADWAG they use.





Pharmstandard Ufavita, Ufa Russia

Farmstandart is the largest pharmaceutical company in Russia. The Ufa plant is one of the most important in the production structure of the holding.



MYA 21.4Y Microbalance & XA 210.4Y.A Analytical Balance

The main purpose of buying microbalances and analytical balances is to reduce the cost of purchasing equipment while maintaining quality. The main goal is to control the quality of manufactured products.



PUE 7.1.300.1.HRP, PUE 7.1.1100.HRP, PUE 7.1.2000.HRP, PUE 7.1.600.HRP, PUE HY10.1.300.HRP, PUE HY10.1.600.HRP, PUE HY10.1.2000.HRP High Resolution Scales

HRP platforms were bought as control platforms of biologically active additives production line.



**MOSCOW
ENDOCRINE PLANT**
Federal State Unitary Enterprise

**Moscow
Russia**

The leader of the pharmaceutical industry in Russia and the largest pharmaceutical enterprise in Moscow by the number of employees.



MYA 21.4Y Microbalance

The main purpose of purchasing of microbalances is the need to take the mass for HPLC and UHPLC analysis. The user is satisfied with the balances, since they solve the entire list of necessary tasks. The new Lefortovo workshop was equipped with 100% of Radwag balances.



XA 210.4Y.A Analytical Balance

Analytical balances are used for the quality control at the substance production stage.



Moscow, Rostov, Yaroslavl Russia

The company specializes in research, development and production of pharmaceuticals, laboratory equipment and medical devices. It focuses on the release of following medications: oncological, antiviral, autoimmune, orphan drugs, pulmonological and others.



MYA 21.4Y Microbalance

Microbalances are used in the production of oncological drug substances.



PM 35.4Y Precision Balance

The solutions from Radwag like PM balances are used in the production of oncological drug substances and were used in the production of the Sputnik-V vaccine against coronavirus.



HY10.16.HRP.M High Resolution Scale

The HRP platforms by Radwag were also used to manufacture the Sputnik-V vaccine.



**Kapaklı/Tekirdağ
Turkey**

The company offers the products thereof used in numerous different treatment fields such as Nephrology, Chest Diseases, Gastroenterology, Paediatrics, Urology, Dermatology, Ophthalmology, Oncology, Cardiology and Cardiovascular Surgery, Intensive Care, Anaesthesia to the service of Turkish medicine.



MYA 4Y Microbalance

In the quality laboratory (Penicillin), samples with high precision and accuracy are weighed using Radwag MYA microbalances.



AS 220.3Y Analytical Balance

In IPK weighing rooms (Inhaler IPC), samples are run in statistical mode with Radwag AS.3Y balances. In this way, values such as standard deviation, mean and statistical data of the samples are obtained from the printers.



MAS 1000.3Y Weighing Module

In the Oncology, weighings are recorded and reports are taken with 2 pcs MAS1000.3Y scales connected to E2R software.

They reach the net weighing values from the differences between the sequential weighing of all empty and full bottles in a lot, and statistically record and report the data.



PUE HY10 Terminal

The products are weighed and labelled at the inlet quality control section with Radwag HY10 scales in the warehouse.



**Istanbul
Turkey**

One of the oldest medicine companies in Turkey which exports its products to EU nations, New Zealand, Ukraine, CIS and other countries in total of 34 different nations.



XA 82/220.4Y & AS220.3Y Analytical Balances

With CFR21-compatible Radwag XA 82/220.4Y and AS220.3Y scales, measurements are made in SQC mode and statistical printouts are taken.



MA.R, MA.X2 & MA.3Y Moisture Analyzers

In the quality laboratory, moisture measurements of the samples are made with high accuracy using MA.R, MA.X2 and MA.3Y Radwag moisture analyzers.



PUE HY10 Terminal

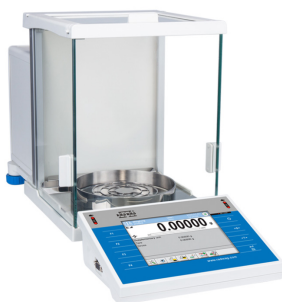
In the weighing rooms, they weigh the recipes with 3 scales connected to the Radwag HY10 terminal and get the detailed label printouts they want.



RECORDATI

**Istanbul
Turkey**

The biggest among Turkish manufactures of medications for cardiovascular and urological diseases.



XA 110.4Y Analytical Balance & HY10.300.HRP High Resolution Scale

These balances are used at solid production.



PS 1000.3Y Precision Balance

In quality and IPC laboratories, they get the desired outputs in statistical mode with Radwag PS1000.3Y scales. In addition, with CFR21 compliance, they provide user management without using any additional software. These balances perform high precision weighing both in solid and liquid production.



HY10.32.1.HRP High Resolution Scale

With HY10.32.HRP High Resolution Scale, they perform high precision weighing in liquid production with high accuracy.



Emcure Pune India
SUCCESS THROUGH INNOVATION

A fast growing Indian pharmaceutical company engaged in developing, manufacturing and marketing a broad range of pharmaceutical products globally.



MYA 2.4Y & MYA 5.4Y Microbalances

4Y balances were chosen to be used by Emcure due to the compliance with 21 CFR and the minimum weight meeting their criteria.



PS 1000.X2 Precision Balance

This X2 balance was chosen because of the user friendly nature for weighing samples in production floor.



PS 6100.R2.M Precision Balance

Simple but very reliable **RADWAG MONOBLOCK®** technology was extremely suitable for production floor due to its ruggedness.



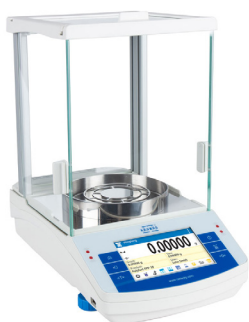
PUE HX5.EX Terminal

This was the requirement of Industrial production where the balance is used in Hazardous area, with the ATEX approvals; HX5.Ex was the best fit for them.



apex Mumbai India

A pharmaceutical manufacturing and marketing company, a leader in Nutraceuticals and Dietary Supplements product segments in India.



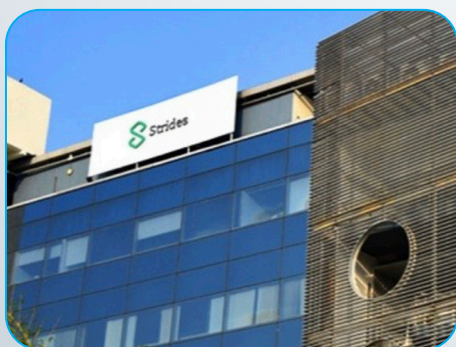
AS 220.R2 PLUS & AS 220.X2 PLUS Analytical Balances

The user-configurable printout fascinated the customer to buy the X2 series later in place of the R2 series.



PS 600.R2 Precision Balance & PUE 7.1 Terminal

The dispensing booth of their formulation plant has been connected to one PUE 7.1 Indicator with platform and one PS series Precision balance. The idea is to get a single print with the multiple compounds dispenses at different weighing balances.



A global company which offers niche and technically complex pharmaceutical products and is among the world's largest soft gelatin capsule manufacturers.



PM 10.4Y Precision Balance & HY10.HRP.H High Resolution Scale

The PM 10.4Y & HY10.HRP.H weighing balances connected together give a magnificent precision of 150 kg & 10 kg respectively. One of the best applications in the production floor given by us (150 kg/1 g & 10 kg/10 mg).



madras pharma

**Chennai
India**

A global company which offers niche and technically complex pharmaceutical products and is among the world's largest soft gelatin capsule manufacturers.



PS 600.3Y Precision Balance

Customer just selected PS.3Y for a specific area, as the area is regulatory in nature. User level passwords did the trick | for the customer.



PS 600.R2 Precision Balance

Used in tablet compression area, it gives pretty good GMP print when connected to a printer.



PUE 7.1 Terminal

50+ PUE 7.1 terminals along with Precision PS, Analytical AS balances used in their 3 formulation plants.



**Hyderabad
India**

In addition to being the market leader in Semi-Synthetic Penicillins, the company has a presence in key therapeutic segments such as neurosciences, cardiovascular, anti-retrovirals, anti-diabetics, gastroenterology and anti-biotics, among others.



XA 82/220.4Y PLUS & Autofeeder

The requirement from the customer is to get the Net weight of the capsule while doing capsule weight variation. Our 4Y with autofeeder with Preset Tare weight has given exactly the Net weight of the capsules for the customer application. Proud user of 5 pcs of 4Y + Autofeeder.



**Chennai
India**

The DML Group comprises of various companies into the areas like export of agro-commodities, infrastructure, etc. It is assisting the buyers worldwide in procuring the agro commodities they need with their demand in specifications of quality and price.



PS 1000.X2 Precision Balance

Used in inventory control along with their software.



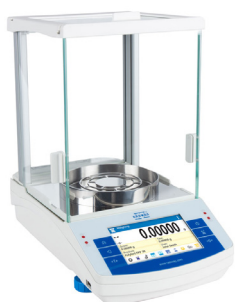
PUE 7.1 Terminal

50+ PUE 7.1 terminals along with Precision PS, Analytical AS balances used in their 3 formulation plants.



Softgel
HEALTHCARE PRIVATE LTD. **Chennai**
India

A leader in the manufacture of soft gelatin capsules for Rx, OTC and Nutraceuticals.



AS 220.X2 PLUS Analytical Balance

Manufacturer of capsules; the X2 series is highly suitable for capsule weight variation, it features easy to use compliance levels.



SG Chennai
Steril-Gene India

A leader in the manufacture of soft gelatin capsules for Rx, OTC and Nutraceuticals.



AS 510.3Y

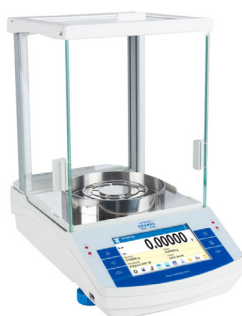
USFDA approved plant where they want controls at the QC and Production, customer relied on our 3Y & 4Y balances a lot.



CAPLIN PHARM
LABORATORIES LTD.

Sirupulalpettai
India

One of the fastest growing mid-cap pharmaceutical companies in India.



AS 220.X2 PLUS Analytical Balance

Caplin is a formulation plant, where they use majority of our X2 series balances. Due to the integrity and compliance, their choice was X2 with all the price advantages.



CAPLIN STERILES Sirupulalpettai
India

Caplin Steriles is a R&D driven company focused on the development and manufacturing of high quality Injectables and Ophthalmic products for Regulated Markets.



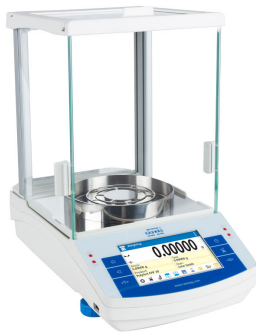
AS 220.3Y Analytical Balance

Initially, they were using 3Y balances for the same application, and now they've seen that X2 gives the same kind of reliability and switched to them.



Fourrts Chennai India

One of the fastest growing pharmaceutical companies in India. Its products are available all over India and in over 50 countries around the world.

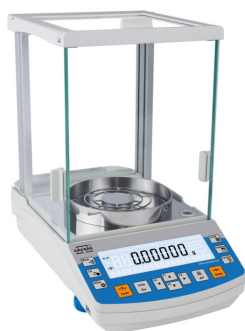


AS 220.X2 PLUS Analytical Balance

Tablet, capsules manufacturer found X2 as an easy tool for the production floor.



The company focuses on the manufacture of small volume and large volume parenterals, sterile ophthalmic preparations and marketing of pharmaceutical specialities catering to niche segments.



AS 82/220.R2 Analytical Balances

The user-configurable printout fascinated the customer to buy the X2 series later in place of the R2 series.



PUE HY10 Terminal

The products are weighed and labelled at the inlet quality control section with Radwag HY10 scales in the warehouse.



PL/30/H3 & PL/150/H3 High Resolution Scale platforms

The main purpose of purchasing the HRP platform – control of the quantity of incoming raw materials. The platform is installed and used for acceptance.



An innovative pharmaceutical enterprise with influential brand in the healthcare industry.



AS 220.X2 PLUS Analytical Balance

Used in QC and production floors.



PUE 7.1 Terminal

Injectible manufacturer, starting from QC to Production - everything is from Radwag... Filled with 60+ balances across all floors. It was a great view to walk into the factory and see Radwag everywhere.



PL/30/H3 & PL/150/H3 High Resolution Scale platforms

Used along with various Indicators, PUE 7.1 & C32 depending on the applications.



PEPTIDEUTICALS
Peptides | Antibodies | GMP Synthesis

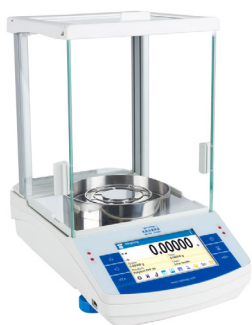
**Leicester
United Kingdom**

Peptideuticals has over 12 years commercial experience in peptide synthesis, and over 40 years expertise in synthetic peptide synthesis, and has developed novel technologies that allow them to prepare complex peptide molecules. The cutting-edge developments made by their Research Teams have led to shorter project delivery times, whilst maintaining the high quality of the products.



XA 210.4Y.A PLUS Analytical Balance with 21 CFR 11 module

Used by both QC and R&D laboratory to prepare small samples of peptides for synthesis and analysis. 21 CFR 11 module requested by the customer to conform with FDA compliance. The balance is connected to a wireless Epson TM-U220B receipt printer via the customer's WiFi network. Minimum sample weight was determined and programmed into the terminal. Full IQ/OQ/PQ performed on the balance.



AS 82/220.X2 Analytical Balance

Used as a back-up to the XA 210.4Y. The balance is connected to a wireless Epson TM-U220B receipt printer via the customer's WiFi network. Full IQ/OQ/PQ performed on the balance.



PS 1000.3Y Precision Balance with 21 CFR 11 module

Used by QC laboratory to weigh solvents in an extraction hood. The balance is connected to a wireless Epson TM-U220B receipt printer via the customer's WiFi network. Minimum sample weight was determined and programmed into the terminal. Full IQ/OQ/PQ performed on the balance.



MA 50/1.X2.A.WH Moisture Analyzer

Used by QC lab to determine % Moisture Content of raw materials prior to processing, to check they are within manufacturer's tolerances. The balance is connected to a wireless Epson TM-U220B receipt printer via the customer's WiFi network. Full IQ/OQ/PQ performed on the balance.



Stockport
Pharmaceuticals

**Stockport
United Kingdom**

Stockport Pharmaceuticals is a generic Pharmaceutical manufacturer specialising in Sterile, Non-sterile, Aseptic and Clinical Trial Special Products.



XA 210.4Y.A PLUS Analytical Balance

The XA Analytical Balance is used in Sterile Manufacturing, to precisely weigh the correct amount of API for tablet manufacture. The wireless terminal enables ease of operation, and the printer provides GLP printout evidence for each batch, which is signed off by the logged-in user for traceability.



PM 10.4Y Precision Balance

The PM Precision Balance is used in non-sterile manufacturing of tablets, to exactly weigh out the amount of excipient for tablet batches. The wireless terminal enables ease of operation inside an extraction cabinet. The printer provides GLP printout evidence for each batch, which is signed off by the logged-in user for traceability.



Balances & Scales

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