

# Jewelry Balances



## Gold & Carat Balances

Accurate Results

Durable Design

Space Saving



**The Value**  
Is in the Precision

**METTLER TOLEDO**

# Gold and Carat

## Balances with Swiss Technology

**Precious materials have commercial as well as perceived value. Which is why you need balances with a name that spells excellence: METTLER TOLEDO for balances made in Switzerland, built to last and to stay accurate and reliable in even the toughest working environments. You can be confident of highly reproducible weighing results, and so too can your customers.**

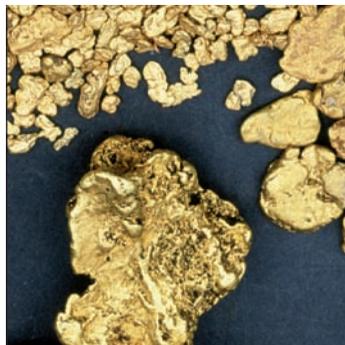
Gemstones and precious metals are costly, not only in price but potentially in terms of profit and reputation if weighing discrepancies give rise to disagreements. So weighing precision and reliability are paramount. Whatever the task in hand, from simple but crucial weighing, to assays and

density determinations, it definitely pays to go for quality. A balance bearing the METTLER TOLEDO name instills confidence in your business partners and customers. Choosing the right weighing instrument benefits your professional standing and peace of mind.



### **Jewelry Retailing**

In markets where jewelry is customarily priced by weight, a quality balance is one sign of reputation that no retailer or manufacturer can do without.



### **Precious Metal Assays**

Weighing and re-weighing results are critical in fire assays. Quality of analysis depends on having an accurate balance.



### **Gemstone Weighing**

Accurate, rugged and portable: that is what the gemstone trade expects in a carat balance. Impeccable results, regardless of location, are crucial to business.



Solutions Worth Their Weight in Gold and Diamonds

# Gold Balances

## Quality for all Needs

Weight is all-important in the gold trade, so a good, solid weighing instrument is essential: a balance that simply works as it should, delivering accurate and trustworthy results every time, under all operating conditions.

Designed to meet the needs of gold trade users, the range includes models intended for everyday use by goldsmiths, jewelry manufacturers and retailers, high-precision

models for assay offices and hall-marking, and a high-capacity line for weighing larger quantities in metal refining and inventory taking. METTLER TOLEDO offers a full range of gold balances that covers every need. Specifications differ between models, but the line shows consistent hallmarks: easy and straightforward operation, a large weighing pan, plus bright and clear display of weighing results.

Accurate. Durable. Compact.



#### Accurate and Fast

JP and JS models feature a robust and accurate MonoBloc weighing cell with internal weight, rapid settling and fast response times. JP models with FACT feature fully automatic self-adjustment; JS models have on demand one-key-stroke adjustment.



#### Designed to Last

A high-quality housing, overload protection and a protective cover provide resistance to rough treatment. The overall design is ridge-free, for quick cleaning and retrieval of inadvertently scattered items.



#### Space Saving

With a footprint not much larger than the actual weighing pan, there is more working space. The battery-operated balances are quick to set up and operate anywhere, for total portability.



JP32001G

## Designed for Heavy Duty Work



High capacity, outstanding precision, extra-wide weighing range, a generously sized weighing pan and convenient low-profile design are all ideal features for tasks like inventory control by check weighing. The large pan also comes in handy for weighing bigger items of jewelry, like an entire string of pearls.

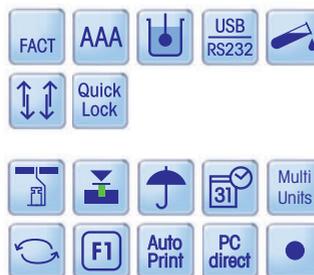


JP105DUG

## High Resolution for Maximum Accuracy



In fire assays for example, where every milligram matters, you need 0.01 mg accuracy and a draft shield to achieve the requisite precision. With a one-keypress changeover from grams to carats, as well as capability for measuring density, these balances are ideal for assessing gemstones as well.



**JP**

Readability	Model	Capacity	Repeatability	Pan Size	Interfaces	Calibration
0.01 mg / 0.1 mg 0.1 mct / 1 mct	<b>JP105DUG</b>	42 g / 120 g 210 ct / 600 ct	0.01 mg / 0.1 mg 0.1 mct / 1 mct	Ø 80 mm	RS232, USB	FACT
0.1 g	<b>JP16001G</b> <b>JP32001G</b>	16200 g 32200 g	0.1 g 0.1 g	351x245 mm 351x245 mm	RS232, USB RS232, USB	FACT FACT

All models are available as legal for trade versions, delivered ex factory verified.



JP1602G



JS8001G

## Classic Choices for Trading in Precious Metals

The JP and JS balances offer comparable performance and operational features, with differences in extras like applications, self-adjustment, display technology and connectivity options.



### JP Jewelry Plus

More features as standard: Fully automatic time- and temperature-controlled internal adjustment (FACT) for peace of mind. A high contrast LCD display for maximum readability. Two RS232 interfaces for simultaneous connection of an auxiliary display and printer or PC. Built-in density determination software.



### JS Jewelry Standard

Performance with value: Manual one-keypress adjustment, with built-in internal weight. Legible, backlit display. RS232 interface for connecting an auxiliary display, printer or PC.



#### JP

Readability	Model	Capacity	Repeatability	Pan Size	Interfaces	Calibration
0.001 g	<b>JP303G</b>	320 g	0.001 g	Ø 120 mm	2 x RS232	FACT
	<b>JP503G</b>	520 g	0.001 g	Ø 120 mm	2 x RS232	FACT
0.01 g	<b>JP802G</b>	820 g	0.01 g	170x190 mm	2 x RS232	FACT
	<b>JP2002G</b>	2200 g	0.01 g	170x190 mm	2 x RS232	FACT
	<b>JP3002G</b>	3200 g	0.01 g	170x190 mm	2 x RS232	FACT
	<b>JP4002G</b>	4200 g	0.01 g	170x190 mm	2 x RS232	FACT
	<b>JP6002G</b>	6200 g	0.01 g	170x190 mm	2 x RS232	FACT
0.1 g	<b>JP8001G</b>	8200 g	0.1 g	170x190 mm	2 x RS232	FACT

#### JS

Readability	Model	Capacity	Repeatability	Pan Size	Interfaces	Calibration
0.001 g	<b>JS303G</b>	320 g	0.001 g	Ø 120 mm	RS232	Int. Cal
	<b>JS503G</b>	520 g	0.001 g	Ø 120 mm	RS232	Int. Cal
0.01 g	<b>JS802G</b>	820 g	0.01 g	170x190 mm	RS232	Int. Cal
	<b>JS2002G</b>	2200 g	0.01 g	170x190 mm	RS232	Int. Cal
	<b>JS3002G</b>	3200 g	0.01 g	170x190 mm	RS232	Int. Cal
	<b>JS4002G</b>	4200 g	0.01 g	170x190 mm	RS232	Int. Cal
	<b>JS6002G</b>	6200 g	0.01 g	170x190 mm	RS232	Int. Cal
0.1 g	<b>JS8001G</b>	8200 g	0.1 g	170x190 mm	RS232	Int. Cal

All models are available as legal for trade versions, delivered ex factory verified.



JL1502-G/01



JL602-G/L01



## Accurate and Affordable

The JL balances are right at home in jewelry shops and other retail applications, where simplicity and ease of use matter most.

## JL Jewelry Light

Weighing reduced to essentials: METTLER TOLEDO quality and accuracy with a very affordable price tag.



JL	Readability	Model	Capacity	Repeatability	Pan Size	Interfaces	Calibration
	0.01 g	<b>JL602-G/L01</b>	610 g	0.01 g	Ø 120 mm	RS232	Ext. Cal
		<b>JL1502-G/01</b>	1510 g	0.01 g	Ø 160 mm	RS232	Ext. Cal
	0.1 g	<b>JL6001-G/L01</b>	6100 g	0.1 g	Ø 160 mm	RS232	Ext. Cal

Legal for trade versions in most countries available. Verification and sealing of balance by Weights and Measures inspector or authorized service engineer at place of use mandatory. Please contact your METTLER TOLEDO distributor for more information.

# Carat Balances

## Sparkling Performers



Working with diamonds and other gemstones requires absolute precision – a small weight discrepancy means loss of money. So it is essential to have a precise and reliable weighing instrument: a balance that simply works the way you expect it to, delivering accurate, trustworthy and repeatable results every time.

Carat balances from METTLER TOLEDO are designed to do just that, with a range designed for everyday use by traders and jewelers. All models feature easy and straightforward operation, fast settling time, high repeatability, plus bright and clear displays for highly visible weighing results.

Accurate. Durable. Compact.



#### Accurate and Fast

JP and JS models feature a robust and accurate MonoBloc weighing cell with internal weight, rapid settling and fast response times. JP models with FACT feature fully automatic self-adjustment; JS models have on demand one-keystroke adjustment.



#### Designed to Last

A high-quality housing, overload protection and a protective cover provide resistance to rough treatment. The overall design is ridge-free, for easy retrieval of inadvertently scattered items.

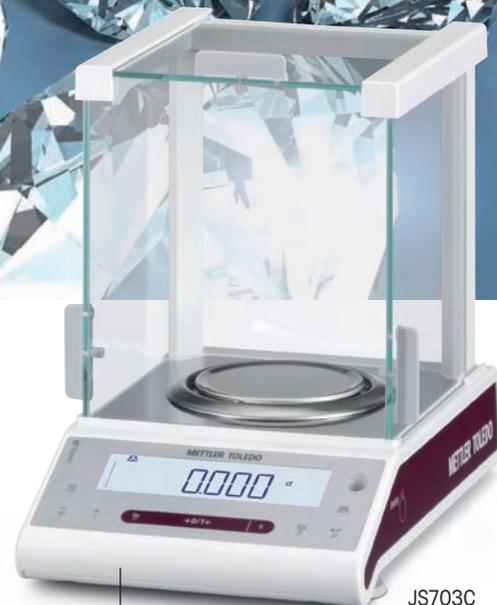


#### Space Saving

With a footprint not much larger than the actual weighing pan, there is more working space. The battery-operated balances are quick to set up and operate anywhere, for total portability.



JP1603C



JS703C

## Multifaceted Options for the Gem Trade



The JP and JS balances offer comparable performance and operational features, with differences in extras like applications, self-adjustment, display technology and connectivity options.

### JP Jewelry Plus

More features as standard: Fully automatic time- and temperature-controlled internal adjustment (FACT) for peace of mind. A high contrast HCD display for maximum readability. Two RS232 interfaces for simultaneous connection of an auxiliary display and printer or PC. Built-in density determination software.



### JS Jewelry Standard

Performance with value: Manual one-keypress adjustment, with built-in internal weight. Legible, backlit display. RS232 interface for connecting an auxiliary display, printer or PC.



JP	Readability	Model	Capacity	Repeatability	Pan Size	Interfaces	Calibration	Carat Pan supplied
	0.001 ct /	<b>JP703C</b>	700 ct / 140 g	0.001 ct / 0.1 mg	Ø 90 mm	2 x RS232	FACT	Small
	0.1 mg	<b>JP1203C</b>	1200 ct / 240 g	0.001 ct / 0.1 mg	Ø 90 mm	2 x RS232	FACT	Medium
		<b>JP1603C</b>	1600 ct / 320 g	0.001 ct / 0.1 mg	Ø 90 mm	2 x RS232	FACT	Large

JS	Readability	Model	Capacity	Repeatability	Pan Size	Interfaces	Calibration	Carat Pan supplied
	0.001 ct /	<b>JS703C</b>	700 ct / 140 g	0.001 ct / 0.1 mg	Ø 90 mm	RS232	Int. Cal	Small
	0.1 mg	<b>JS1203C</b>	1200 ct / 240 g	0.001 ct / 0.1 mg	Ø 90 mm	RS232	Int. Cal	Medium
		<b>JS1603C</b>	1600 ct / 320 g	0.001 ct / 0.1 mg	Ø 90 mm	RS232	Int. Cal	Large

All models are available as legal for trade versions, delivered ex factory verified.

## Optional Extras for More Versatility

Original METTLER TOLEDO accessories add to the versatility of your balance, so the initial investment becomes even more effective. You can have more ways of showing results to customers, independence from mains power, and better weighing performance under adverse conditions.

For more accessories, please visit [mt.com/jewelry](http://mt.com/jewelry) or contact your dealer.



**Auxiliary Display**  
AD-RS-J7 for all JP and JS balances  
Order No. 12122380



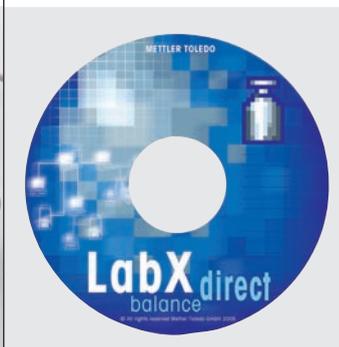
**Transport Case**  
For JP-G and JS-G without draft shield: 11124240  
For JP105DUG: 30006317  
For JL-G: 12102982



**Draft Shield**  
ML-DS-21, large draft shield.  
For JP-G and JS-G with pan size 170 x 190 mm: 12121015



**Auxiliary Display**  
RS-AD-7 for JL balances  
Order No. 72213564



**LabX Direct Balance**  
PC software for data management  
Order No. 11120340



**Carat Pans**  
(supplied in set of 10)

Model	Ø (mm)	Height (mm)	Order No.
XS	50	20	12102565
S	80	20	12102645
M	90	30	12102646
L	90	45	12102647



**Compact Printer**  
RS-P25 for simple printout  
Order No. 11124300



**PowerPac**  
PowerPac-M-12V, for mains-independent operation  
Order No. 12122363



**Weights and CarePacs**  
For routine testing and adjustment of balances, with guaranteed traceability

**Universal power adapter set**  
Order No. 11120270

# Density Determination for Sure Assessment

Density determination is an established test for the purity of gold, and also of gemstones. Gemologists, jewelers and traders in precious stones will appreciate the METTLER TOLEDO density determination kit for its ease of use and highly reproducible results. A density application already built-in to the JP balance guides you through the measurement procedure and calculates the result automatically.



JP1203C

#### Density Kit

ML-DNY-43 for JP503G, JP303G and all carat balances  
Order No. 11142144

MS-DNY-54 for JP105DUG  
Order No. 30004077



#### Easily mounted

The density kit is easily mounted on JP and JS balances in a few simple steps. In less than 1 minute, the weighing balance is transformed into a density balance.



#### Easy access

The design of the density kit supports easy weighing. Three big sample platforms allow sample placement with easy access from left, right or top.



#### User guided

The built-in density determination application in the JP gold balances provides a complete workflow for determining the density of solids and liquids. The application guides the user step-by-step through the process, collecting the results and calculating the density.

## Weight Is Money

Precious metals and gemstones have always been expensive. But at times of record high prices, weighing errors become yet more costly. Even a minor discrepancy can make the difference in customer satisfaction, and profiting or losing on a trade. With so much at stake, it more than pays to invest in a top-quality balance: it is good for business, and for your peace of mind.



## World's Largest Service Network

Working with METTLER TOLEDO balances gives you access to a worldwide network of local service. The service technicians help you to keep your balances operating reliably and accurately, visiting you to calibrate, check or repair your balance. You can be sure that help comes immediately, when you most need it.

[www.mt.com/jewelry](http://www.mt.com/jewelry)

For more information



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## Pictogramms Selection Helper



**FACT**  
Fully automatic time- and temperature controlled internal adjustment



**Internal Adjustment**  
On demand, at a key press with an internal weight



**External Adjustment**  
On demand, at a key press with an external weight



**Applications (JP)**  
Density, Check Weighing, Statistics, Totaling, Recall, Piece Counting, Percent Weighing, Free Factor, Diagnostics



**Applications (JS)**  
Check Weighing, Statistics, Totaling, Recall, Piece Counting, Percent Weighing, Free Factor, Diagnostics



**Applications (JL)**  
Piece Counting, Percent Weighing, Free Factor



**Density**  
Embedded measurement software for density determination of liquids and solids (JP only)



**Smart Key**  
Programmable keys for shortcut access to preferred applications



**Date and Time**  
Built-in time and date function



**17 Weighing Units:** ct, g, mg, kg, pound, ounce, troy ounce, grain, pennyweight, momme, mesghal, Hong Kong tael, Singapore tael, Taiwan tael, tical, tola, Baht (subject to country regulations)



**Toggle key**  
Switch between two preferred weighing units with just one key press



**PC direct**  
Transfer weighing data to a PC without additional software



**Standby Mode**  
Energy saving auto standby mode (can be deactivated)



**Auto Print**  
Data can be automatically output as each measurement is made

## Pictogramms Selection Helper



**Metal Housing**  
High-grade chemical-resistant die-cast aluminum housing



**Chemical resistant**  
Housing is resistant to most chemicals, incl. acetone



**Battery Operation**  
Full independence from power supply for 8 hours



**Below Weighing**  
Hook for weighing below the balance



**Overload Protection**  
Protects the weighing cell against excess weight overload



**Protective Cover**  
Protects the balances from stains and scratches



**Connectivity**  
RS232 interface to connect to PC, printer or an aux. display:  
USB to connect to PC (selected JP models)



**Connectivity**  
2 RS232 interfaces to connect simultaneously to an aux. display and printer or PC (JP models)



**Connectivity**  
RS232 to connect to PC, printer or aux. display (JS, JL models)



**QuickLock**  
Quick and comfortable dismantling of the draft shield (JP105DUG)



**ErgoDoor**  
The right door can be opened from the left side and vice versa (JP105DUG)



**IP54 in Use**  
Protection against dust and water (JP Large)