High-throughput Weighing
Made Easy

High Efficiency
The innovative MonoBloc[HighSpeed] weighing cell speeds up your weighing processes by delivering high measurement precision and fast weighing results. The overload protection safeguards the balance and ensures durability.

Guided Operation
Step-by step instructions on the balance touchscreen guide users through the built-in simplifies operation and minimizes error.

Flexible Applications
Choose from an extensive range of interfaces and accessories to optimize your individual weighing tasks. Connect with LabX software for fully guided weighing processes, automatic data handling, and easy documentation.

Assured Testing
The embedded GWP® Excellence software ensures routine testing procedures are carried out in accordance with your SOPs. The built-in Fact Advanced programmable sensitivity test reduces the amount of external testing required.

Excellence XS-S
High Efficiency Precision Balances

The XS Precision Balance Line helps you get your work done faster by offering flexible solutions for high productivity with maximum accuracy.

These robust and reliable balances deliver fast and accurate results even in the toughest of workplaces. Whatever your working environment, XS Balances can accommodate your weighing application. With flexible connectivity options and a wide range of supporting accessories to choose from, weighing processes can be greatly simplified to increase efficiency.

Connecting your XS Balance to our LabX PC software offers ultimate flexibility with full data management options for fast and error-free processes.

XS-S Precision Balances –
focused on productivity and accuracy.

METTLER TOLEDO

Technical data
Excellence XS-S Precision Balances (Small Platform)
Fast and Efficient Workflows

Balance model	XS203S	XS403S	XS603S
Part no.	11130153	11130156	11130159
Limit values			
Maximum capacity; fine range	210 g; −	410 g; −	610 g; −
Readability; fine range	1 mg; −	1 mg; −	1 mg; −
Repeatability [1]; fine range	0.9 mg; −	0.9 mg; −	0.9 mg; −
Linearity deviation	2 mg	2 mg	2 mg
Sensitivity offset (test weight)	5 mg (200 g)	6 mg (400 g)	4.5 mg (600 g)
Typical values			
Repeatability; fine range	0.5 mg; −	0.5 mg; −	0.5 mg; −
Linearity deviation	0.7 mg	0.7 mg	0.7 mg
Sensitivity offset (test weight)	3.2 mg (200 g)	3.2 mg (400 g)	3 mg (600 g)
Minimum sample weight [2]; fine range	1.5 g; −	1.5 g; −	1.5 g; −
Minimum sample weight [3]; fine range	100 mg; −	100 mg; −	100 mg; −
Settling time	1.5 s	1.5 s	1.5 s
Dimensions			
Balance dimensions (WxDxH)	198x366x276 mm	198x366x276 mm	198x366x276 mm
Weighing pan dimensions (WxD)	127x127 mm	127x127 mm	127x127 mm

Balance model	XS603SDR	XS1003S
Part no.	11130162	11130165
Limit values		
Maximum capacity; fine range	610 g; 120 g	1010 g; −
Readability; fine range	10 mg; 1 mg	1 mg; −
Repeatability [1]; fine range	6 mg; 1 mg	0.8 mg; −
Linearity deviation	6 mg	2 mg
Sensitivity offset (test weight)	9 mg (600 g)	5 mg (1000 g)
Typical values		
Repeatability; fine range	4 mg; 0.6 mg	0.4 mg; −
Linearity deviation	0.7 mg	0.7 mg
Sensitivity offset (test weight)	6 mg (600 g)	3 mg (1000 g)
Minimum sample weight [2]; fine range	12 g; 1.8 g	1.2 g; −
Minimum sample weight [3]; fine range	800 mg; 120 mg	80 mg; −
Settling time	1.5 s	1.5 s
Dimensions		
Balance dimensions (WxDxH)	198x366x276 mm	198x366x276 mm
Weighing pan dimensions (WxD)	127x127 mm	127x127 mm

Balance model	XS802S	XS2002S	XS4002S
Part no.	11130168	11130171	11130174
Limit values			
Maximum capacity; fine range	810 g; −	2.1 kg; −	4.1 kg; −
Readability; fine range	10 mg; −	10 mg; −	10 mg; −
Repeatability [1]; fine range	8 mg; −	8 mg; −	8 mg; −
Linearity deviation	20 mg	20 mg	20 mg
Sensitivity offset (test weight)	60 mg (800 g)	50 mg (2 kg)	60 mg (4 kg)
Typical values			
Repeatability; fine range	4 mg; −	4 mg; −	4 mg; −
Linearity deviation	7 mg	7 mg	7 mg
Sensitivity offset (test weight)	32 mg (800 g)	32 mg (2 kg)	32 mg (4 kg)
Minimum sample weight [2]; fine range	12 g; −	12 g; −	12 g; −
Minimum sample weight [3]; fine range	800 mg; −	800 mg; −	800 mg; −
Settling time	1.2 s	1.2 s	1.2 s
Dimensions			
Balance dimensions (WxDxH)	194x366x96 mm	194x366x96 mm	194x366x96 mm
Weighing platform dimensions (WxD)	170x205 mm	170x205 mm	170x205 mm

[1] at nominal load; [2] acc. to USP; [3] U=1%, k=2

Balance model	XS4002SDR	XS6002S	XS6002SDR
Part no.	11130177	11130180	11130183
Limit values			
Maximum capacity; fine range	4.1 kg; 0.8 kg	6.1 kg; −	6.1 kg; 1.2 kg
Readability; fine range	100 mg; 10 mg	10 mg; −	100 mg; 10 mg
Repeatability[1]; fine range	60 mg; 8 mg	8 mg; −	60 mg; 8 mg
Linearity deviation	60 mg	20 mg	60 mg
Sensitivity offset (test weight)	60 mg (4 kg)	60 mg (6 kg)	150 mg (6 kg)
Typical values			
Repeatability; fine range	40 mg; 4 mg	4 mg; −	40 mg; 4 mg
Linearity deviation	7 mg	7 mg	7 mg
Sensitivity offset (test weight)	32 mg (4 kg)	30 mg (6 kg)	30 mg (6 kg)
Minimum sample weight[2]; fine range	120 g; 12 g	12 g; −	120 g; 12 g
Minimum sample weight[3]; fine range	8 g; 0.8 g	800 mg; −	8 g; 0.8 g
Settling time	1.2 s	1.2 s	1.2 s
Dimensions			
Balance dimensions (WxDxH)	194x366x96 mm	194x366x96 mm	194x366x96 mm
Weighing platform dimensions (WxD)	170x205 mm	170x205 mm	170x205 mm

Balance model	XS4001S	XS6001S	XS8001S	XS10001S
Part no.	11130186	11130189	11130192	30006900
Limit values				
Maximum capacity; fine range	4.1 kg; −	6.1 kg; −	8.1 kg; −	10.1 kg; −
Readability; fine range	100 mg; −	100 mg; −	100 mg; −	100 mg; −
Repeatability[1]; fine range	80 mg; −	80 mg; −	80 mg; −	80 mg; −
Linearity deviation	60 mg	60 mg	100 mg	100 mg
Sensitivity offset (test weight)	240 mg (4 kg)	240 mg (6 kg)	600 mg (8 kg)	500 mg (10 kg)
Typical values				
Repeatability; fine range	40 mg; −	40 mg; −	40 mg; −	40 mg; −
Linearity deviation	20 mg	19 mg	36 mg	34 mg
Sensitivity offset (test weight)	160 mg (4 kg)	140 mg (6 kg)	320 mg (8 kg)	300 mg (10 kg)
Minimum sample weight[2]; fine range	120 g; −	120 g; −	120 g; −	120 g; −
Minimum sample weight[3]; fine range	8 g; −	8 g; −	8 g; −	8 g; −
Settling time	0.8 s	0.8 s	1 s	1 s
Dimensions				
Balance dimensions (WxDxH)	194x366x96 mm	194x366x96 mm	194x366x96 mm	194x366x96 mm
Weighing platform dimensions (WxD)	190x223 mm	190x223 mm	190x223 mm	190x223 mm

[1] at nominal load; [2] acc. to USP; [3] U=1%, k=2

Features

MonoBloc Highspeed
High-performance technology for reliably accurate weighing results

Reliability
Built of solid metal and resistant to chemicals for smooth daily operation

Overload Protection
Protects the weighing cell against excess weight overload

IP54 In-Use
Robust construction protects against dust and splashing liquids

FACT Advanced
Automatic Internal adjustment with programmable sensitivity test

GxP Toolbox
Seamless documentation according to GxP: Balance Check, MinWeigh

GWP® Excellence
Integrated procedures for SOP compliant routine balance testing

Touchscreen display
Intuitive user interface with touchscreen operation

Connectivity
Built-in RS232, 7 options for second slot e.g. Bluetooth, Ethernet

DeltaTrac
Graphical functions show remaining capacity and make weighing-in easy

Weighing Settings
Optimal balance adjustment for difficult weighing conditions

LevelLock
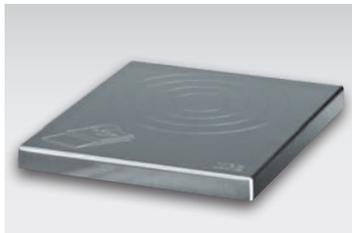Lockable rear feet for additional security

Applications

Piece counting, percent weighing, statistics, formulation, dynamic weighing, density, factor calculation

LabX balance: PC software providing full user guidance on the balance, central data management and automatic documentation for customer-specific applications **www.mt.com/LabX**

Selected Accessories

MPS Weighing Pan*
The Magnetic Protection Shield Weighing Pan (MPS) protects against interference from magnetic forces, ensuring reproducible and accurate results.

Protective Covers
Easy to change PET terminal and weighing pan covers provide effective protection against chemicals and difficult to clean samples without interfering with balance operation.

Terminal Stand
Mount the terminal on a stand at the rear of the balance to save space, protect it from contamination and make it easier to read – perfect ergonomics.

Density Kit**
Excellence Balances can be quickly and easily converted for density determination.

*For 10 mg and 0.1 g models only
**For 1 mg models only

BT-P42 Printer
Wireless printer with Bluetooth interface, for quick and error-free data transfer.

CarePac®
CarePac certified weight sets fully support routine testing to limit the risk of working outside process tolerances.

www.mt.com/XS-precision

For more information

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GWP®
Good Weighing Practice™

The global weighing guideline GWP® reduces risks associated with your weighing processes and helps to
• choose the appropriate balance
• reduce costs by optimizing testing procedures
• comply with the most common regulatory requirements

www.mt.com/GWP