High precision and safety in civil aviation: checkweighing jet engine turbine blades.

- ■ **Outstanding accuracy in weighing and piece counting**
  thanks to the MonoBloc weighing cell

- ■ **Rugged industrial quality**
  durable die-cast aluminum housing and stainless steel weighing pan

- ■ **Large product range**
  ensures you find the right model for your needs – and numerous accessories to optimize your application

- ■ **DeltaRange® models**
  The first part of the weighing range is divided into smaller increments. This makes the scale more accurate – and gives you two scales for the price of one.

- ■ **One standard and one optional interface**
  allow trouble-free connection of additional scales, displays, or computers

- ■ **Built-in AC adapter**
  integrated into the compact housing

- ■ **Backlit display**
  large easy-to-read LCD for clear results

- ■ **Mobile weighing**
  thanks to the battery pack integrated into the housing (option)

- ■ **Certified version**
  to OIML Class II (+10°C to + 30°C)

Overview of VIPER MB scales

Model		Small type	Large type
Weighing range	Readability	of construction	of construction
Viper MB 1.5 XS	0.01 g	☐ 21 203 307	
Viper MB 3 XS	0.01 g	☐ 21 203 308	
Viper MBL 3 XS	0.1 g	☐ 21 203 730	
Viper MBD 3 XS	0.01/0.1 g	☐ 21 203 789	
Viper MB 6 SM	0.1 g	☐ 21 203 309	
Viper MB 6 LA	0.1 g		☐ 21 203 310
Viper MBK 6 LA	0.1 g		☐ 21 203 897
Viper MB 15 LA	0.1 g		☐ 21 203 311
Viper MBK 15 LA	0.1 g		☐ 21 203 894
Viper MB 35 LA	0.1 g		☐ 21 203 312
Viper MBD 35 LA	0.1/1 g		☐ 21 203 790
Viper MBDK 35 LA	0.1/1 g		☐ 21 203 895
Viper MBK 35 LA	0.1 g		☐ 21 203 896
Applications			
SW weighing scale		standard	standard
BC counting scale		☐ 21 203 508	☐ 21 203 509
Scale protection			
Protection degree IP43		standard	standard
Protective cover			
Protective cover, mounted		☐ 21 203 497	☐ 21 203 498
Power supply			
AC line voltage		standard	standard
AccuPac/AC line voltage		☐ 21 203 335	☐ 21 203 337
Interfaces			
RS232		standard	standard
Second RS232 interface		☐ 21 203 345	☐ 21 203 348
Color			
Blue		standard	standard
Silver		☐ 21 203 368	☐ 21 203 369
Certified model		☐ 21 203 364	☐ 21 203 365

Accessories (optional, available for all models)	
Auxiliary display RS-PD/PASM	☐ 21 302 875
Spare protective cover for small platform	☐ 21 203 207
Spare protective cover for large platform	☐ 21 203 206
Antitheft device	☐ 00 229 175
Sprinter printer 1 (EURO)	☐ 21 253 399
Sprinter printer 1 (UK)	☐ 21 253 745
RS232 cable for aux. display, 1.8 m (9-pin, DSUB, m/m, parall.)	☐ 21 250 066
RS232 cable for printer, 1.8 m (25/9-pin, DSUB, m/m, crossed)	☐ 21 253 677
RS232 cable for 2nd scale, 1.8 m (9-pin, DSUB, m/m, crossed)	☐ 21 252 588
RS232 cable for PC, 1.8 m (9-pin, DSUB, m/m, parallel)	☐ 00 410 024

Sales/Services:

The culture of precision
Viper MonoBloc offers the combination of ruggedness, operational ease and measurement accuracy.
With the MonoBloc inside, you benefit from improved:
– readability
– linearity
– repeatability
– cornerload accuracy
– long-term stability
– temperature stability

Certification. Development and production facilities comply with ISO9001. Our environmental management system is to ISO14001.

Conformity. All METTLER TOLEDO products conform with the stringent EU directives.

Visit our website.
For fast information about our products, our services and our company at **http://www.mt.com**

Viper MonoBloc
High precision weighing

Viper MonoBloc. The fastest way to precise results.

The unique METTLER TOLEDO MonoBloc cell, combined with the new Viper High Speed Filter Technology (HSFT), maximises your productivity and accuracy of results.

Viper MonoBloc represents the top of the new Viper range of scales from METTLER TOLEDO.

Viper MonoBloc is available as a high-precision weighing or counting scale in 3 platform sizes and 5 weighing ranges from 1.5 to 35 kg. All models are also available in certified version to OIML Class II.

The rugged die-cast aluminum housing is specially designed for harsh industrial environments. The data interface built in as standard enables communication with a printer, a second scale, an auxiliary display or a computer. A second interface can be incorporated as an option.

The scale has an internal mains adapter. An integrated battery with a 4-segment discharge status display is available as an option for operation independent of mains power.

Furthermore, optional extras include a hard protective cover, an antitheft device, an auxiliary display and a printer.

Thanks to the unique configuration menu, the scale can be adjusted to suit your needs perfectly. Ask your METTLER TOLEDO salesperson or specialist scale dealer for more details.

As a reference scale, Viper MonoBloc with its platform of 165x165 mm delivers highly accurate piece counting through its integrated draft shield and extremely high weighing accuracy. A backlit display makes for easy readings anywhere.

MonoBloc
inside

Viper MB – MonoBloc inside.
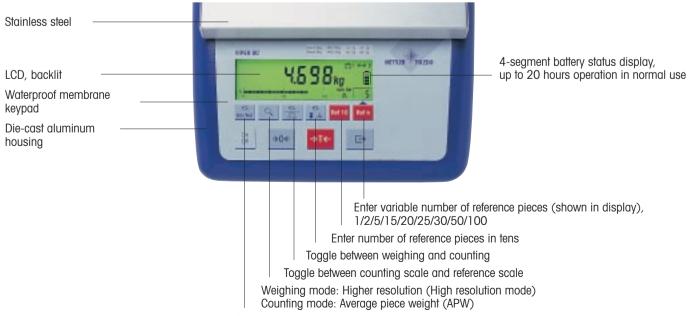Due to higher weighing precision, down to 0.01 g, you may work to closer limits.

MonoBloc inside.
Heavy duty aluminum alloys, as used in the aircraft industry, assure high accuracy of measurement results for years to come.

For random samples of fill quantity in the food industry, Viper MonoBloc is very well adapted. Mobile with its Accu-Pac, Viper is equipped with printer ports (Sprinter or SQC14 for statistical evaluation). The membrane keypad protects the front section against water and dust. Even better protection is available through the optional protective cover.

Model	VIPER MonoBloc SW (weighing scale)	VIPER MonoBloc BC (counting scale)
Application	Weighing, taring, data transfer	As for Viper SW, plus: Piece counting
Other functions	Dynamic weighing, dispensing mode, changing display accuracy, switching weighing units, automatic taring, automatic scale shutoff after three minutes, adjustment for ambient conditions	As for Viper SW, plus: - Gross weight - High resolution mode - Automatic reference optimization - Add mode
Resolution	Up to 35'000 e	Up to 35'000 e Internally 15'000'000 increments
Display	Easy-to-read backlit LCD (character height 16 mm), 4-segment battery status display	As for Viper SW, plus: - Bar graph weighing range display - Separate reference input display
Stabilization time	0.8 up to 1.2 seconds	0.8 up to 1.2 seconds
Keypad	Generously proportioned keys with action point for the on/off, zeroing, tare and data transfer functions	As for Viper SW, plus: - 6 function keys (see below)
Interfaces	RS232C bidirectional data interface with configuration facility; one additional data interface as an option	As for Viper SW
Housing	Die-cast aluminum	Die-cast aluminum
Weighing pan	Chrome-nickel steel	Chrome-nickel steel
Ingress protection	IP43	IP43

Model Viper	MB 1.5 XS	MB 3 XS	MBL 3 XS	MBD 3 XS	MB 6 SM	MB 6 LA	MB 15 LA	MB 35 LA	MBD 35 LA
Type of construction (b x d x h)	Small type, 265 x 335 x 100 mm					Large type, 360 x 370 x 115 mm			
Platform (mm)	165 x 165	165 x 165	165 x 165	165 x 165	200 x 240	240 x 350	240 x 350	240 x 350	240 x 350
Maximum capacity (g)	1600	3100	3100	600/3100	6100	6100	15100	35100	7000/35100
Readability (g)	0.01	0.01	0.1	0.01/0.1	0.1	0.1	0.1	0.1	0.1/1
Certifiable resolution (g)	0.1	0.1	0.1	0.1	1	1	1	1	1
Repeatability [s] (g)	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Linearity (g) [1]	±0.02	±0.02	±0.02	±0.02	±0.1	±0.2	±0.3	±0.3	±0.3
Adjustment weight (g) [2]	1500	3000	3000	3000	6000	6000	15000	35000	35000
Integrated calibration weight (option)	–	–	–	–	–	●	●	●	●

[1] In the temperature range 10....30°C, [2] May be reduced by software means for adjustment purposes

Stainless steel

LCD, backlit

Waterproof membrane keypad

Die-cast aluminum housing

4-segment battery status display, up to 20 hours operation in normal use

Enter variable number of reference pieces (shown in display), 1/2/5/15/20/25/30/50/100

Enter number of reference pieces in tens

Toggle between weighing and counting

Toggle between counting scale and reference scale

Weighing mode: Higher resolution (High resolution mode)
Counting mode: Average piece weight (APW)

Display gross weight