



High resolution robust bench base designed to give balance accuracy within an industrial environment.

Technical Specification

DESCRIPTION

The BSQ is a high resolution digital bench base with up to 1 billion internal count resolution. This digital bench base features the very latest, state of the art suspended Quartzell technology, guaranteeing repeatable balance accuracy at all times.

A rugged die cast, clam-shell case provides outstanding protection to the internally mounted Quartzell transducer.

Its spring suspension system protects the Quartzell transducer from damage and offers up to 1100% overload protection.

Weighing in oily environments:

Features built-in drip pathways to help channel all unwanted dirt and cutting fluids away from critical areas within the base.

Weighing hot items:

Offers an excellent thermal coupling barrier, enabling weighing of hot items while protecting against a thermal drift that could affect the accuracy of the base.

SPECIFICATIONS

GENERAL

| | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicator Compatibility | ZM400 Series indicators |
| Connectivity | Base connection to the indicator can be achieved by either RS232 to indicator or PC terminal (for custom application software only). 1 x RS232 (via a Keyed RJ45 socket). 1 x USB VCP |
| Base Communication | Count Data (SMA , 115200, 8 data bits, none, 1 stop bit) or PC terminal |
| Allowable Cable Length | RS232 up to 50 ft (15M) USB up to 10ft (3M) |
| Power | Base is powered from the indicator |
| Base Size & Max Capacity | 10 to 70 lb (5-35kg) Max 9" x 12" (230 mm x 305 mm) 10 to 70 lb (5-35kg) Max 12" x 14" (305 mm x 355 mm) 70 to 150 lb (35-80kg) Max 12" x 14" (305mm x 355 mm) |
| Displayed Resolution | Can resolve up to 10,000,000 divisions |
| Legal for Trade Resolution | 10,000 divisions with up to 3 ranges available |
| Non Legal for Trade Resolution | 100,000 divisions center of pan, stable room temperature |
| Readability | Up to 3,500,000 divisions |
| Internal Resolution | 1 billion counts (1,000,000,000 counts) |
| Filter Setting | Controlled within the ZM indicator |

GENERAL

| | |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Creep | 0.001% of 100,000 divisions over a 30 minute time span or 0.0005% of 200,000 divisions over a 5 minute time span |
| Minimum Recommended Non Verifiable Division Size | 0.00002 lb (0.01 g) for the 70 lb (35kg) BSQ base 0.00005 lb (0.02 g) for the 175 lb (80kg) BSQ Base |
| Minimum Allowed Verifiable Division Size (Class III) | 0.002 lb (1 g) for the 70 lb (35kg) BSQ Base (10,000d approved) 0.005 lb (2 g) for the 175 lb (80kg) BSQ Base (10,000d approved) |
| Metrology Data | Stored within the indicator |
| Base Construction | Robust die cast clam shell base design with a centrally positioned suspended digital QDT cell with built-in anti-shock spring suspension, 4 adjustable anti-slip feet and a lipped stainless steel weigh platter |
| Loadcell Technology | High accuracy digital Quartzell transducer |
| Overload Protection | 1100% overload protection based off the 80 kg / 150 lb base construction |
| Corner Loading | Spring breakaway system is activated at 120% full capacity or 60% corner only load |
| Operating Temperature | 41° F to 104° F / +5° C to 40° C (approvals) at 10 to 90% humidity -4° F to 140° F / -20° C to 60° C (industrial) at 10 to 90% humidity |
| Foot Adjustment | Hard wearing anti-slip rubber foot with finger grip locking ring to allow up to 0.75" (19 mm) height adjustment |
| IP Rating | Designed to meet IP42 |
| Carry Handles | Carry handles allow this scale base to be easily carried around |

DIMENSIONS (inches)

| Base Size | | | | | Max | Min | | | Weight |
|-----------|-------|-------|-------|-------|------|------|-------|-------|---------|
| | a | b | c | d | e | i | j | | |
| 9" x 12" | 13.00 | 12.00 | 9.00 | 9.50 | 5.75 | 5.02 | 10.00 | 7.00 | 11.2 lb |
| 12" x 14" | 14.50 | 13.50 | 12.00 | 12.50 | 5.86 | 5.12 | 11.50 | 10.00 | 15.5 lb |

DIMENSIONS (millimeters)

| Base Size | | | | | Max | Min | | | Weight |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | a | b | c | d | e | i | j | | |
| 230mm x 305mm | 330 | 305 | 228 | 241 | 146 | 128 | 254 | 178 | 5.1 kg |
| 305mm x 350mm | 368 | 343 | 305 | 318 | 149 | 130 | 292 | 254 | 7.0 kg |

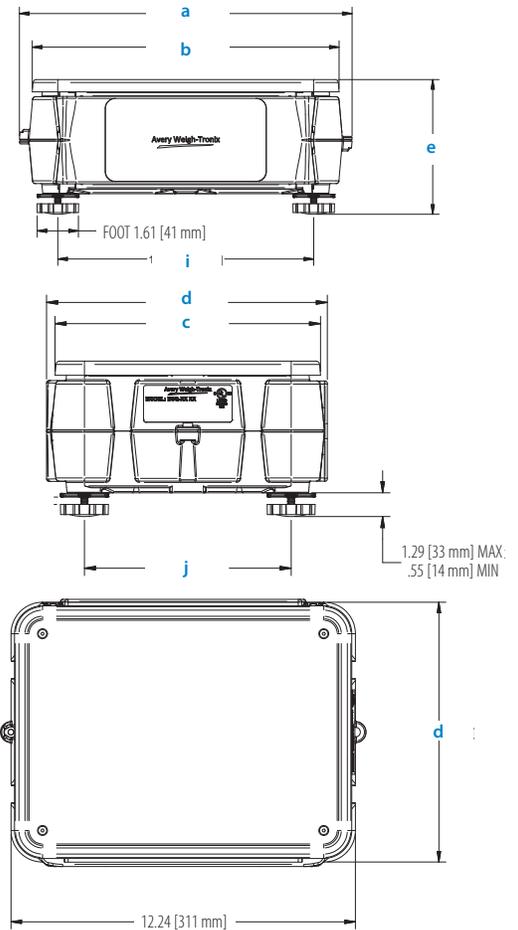
OPTIONS

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ball Top Option | Designed to fit on the 12" x 14" (305 mm x 355 mm) base this 10 ball stainless steel ball top makes it ideal to roll heavy boxes on and off the scale |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

APPROVALS

| | |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agencies | NTEP (US) Class III/IIIL 10,000 d (CC# 15-028) Measurement Canada (AM-5985) OIML (European and UK) Class III 10,000 d EC* UL/c-UL-US *Pending |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

Measurement
Canada Approved
AM-5985



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