

BenchMark[®] MS Mild Steel Bench Scale



As of: Friday, February 14, 2025



Standard Features

- Painted mild steel frame with 304 stainless steel cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Approvals



Measurement
Canada
Approved





WARNING:
Cancer
and
Reproductive
Harm
California
Proposition
65

Extremely Accurate Bench Scale

Ideal for dry environments, the BenchMark MS mild steel bench scale has a heavy-duty construction that provides ultimate durability, sensitivity and long life for a variety of weighing. Finished with a painted, mild steel tubular frame and 304 stainless steel cover, this model features aluminum, environmentally sealed load cells. Five standard platform sizes offer a wide variety of capacities. Custom platform sizes and capacities are available.

BenchMark Mild Steel Specifications

Load Cell, NTEP Certified:

IP66 aluminum, environmentally sealed

Output Impedance:

350 ohm

Maximum Overload:

150% to 200% depending on capacity

Overload Protection:

Five-point, independently adjusted

Scale Frame:

Mild steel powder coated black

Scale Cover:

AISI304L, straight line finish, Ra=45
±10

Cable Length:

10 ft (3 m)

Temperature:

Compensated:

14 °F to 104 °F (-10 °C to 40 °C)

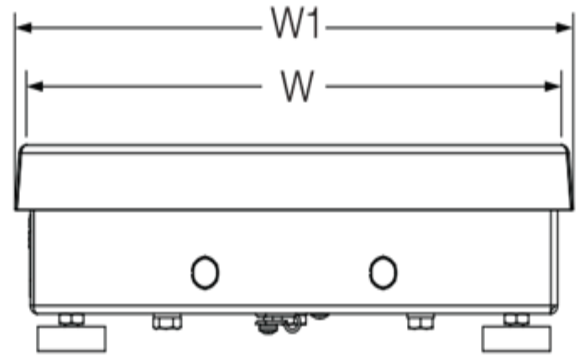
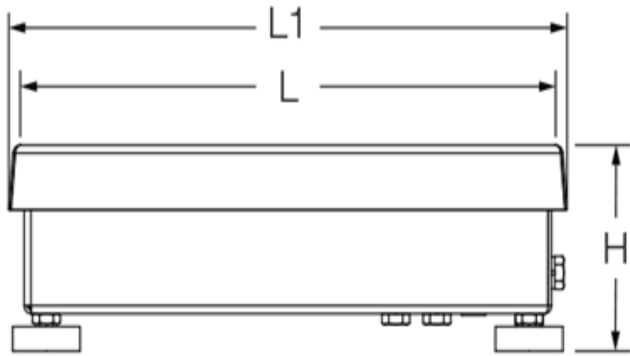
Warranty:

Two-year limited

Approvals:

NTEP 95-072, Class III, 5,000 d
Measurement Canada AM-5082

BenchMark Mild Steel Dimensions



12 × 12 in			
H	4.12 in	W	12.00 in
L	12.00 in	W1	12.50 in
L1	12.50 in		
12 × 18 in			
H	4.12 in	W	18.00 in
L	12.00 in	W1	18.50 in
L1	12.50 in		
18 × 18 in			
H	5.25 in	W	18.00 in
L	18.00 in	W1	18.75 in
L1	18.75 in		

24 × 18 in

H	5.25 in	W	18.00 in
L	24.00 in	W1	18.75 in
L1	24.75 in		

24 × 24 in

H	5.25 in	W	24.00 in
L	24.00 in	W1	24.75 in
L1	24.75 in		

Note: 1 in = 25.4 mm

Parts

Part #	Description
18580	Scale,BENCHMARK BM1212-30 12x12x4-1/8 30 lb 10ft NTEP III Steel Painted SST Cover
18582	Scale,BENCHMARK BM1212-50 12x12x4-1/8 50 lb 10ft NTEP III Steel Painted SST Cover
18584	Scale,BENCHMARK BM1212- 100 12x12x4-1/8 100 lb 10ft NTEP III Steel Painted SST Cover
18586	Scale,BENCHMARK BM1218-50 12x18x4-1/8 50 lb 10ft NTEP III Steel Painted SST Cover
18588	Scale,BENCHMARK BM1218- 100 12x18x4-1/8 100 lb 10ft NTEP III Steel Painted SST Cover
18590	Scale,BENCHMARK BM1818-50 18x18x5-1/4 50 lb 10ft NTEP III Steel Painted SST Cover
18592	Scale,BENCHMARK BM1818- 100 18x18x5-1/4 100 lb 10ft NTEP III Steel Painted SST Cover
18594	Scale,BENCHMARK BM1818- 150 18x18x5-1/4 150 lb 10ft NTEP III Steel Painted SST Cover
18596	Scale,BENCHMARK BM1818- 200 18x18x5-1/4 200 lb 10ft NTEP III Steel Painted SST Cover
18598	Scale,BENCHMARK BM1818- 250 18x18x5-1/4 250 lb 10ft NTEP III Steel Painted SST Cover
18600	Scale,BENCHMARK BM1818- 300 18x18x5-1/4 300 lb 10ft NTEP III Steel Painted SST Cover
18602	Scale,BENCHMARK BM1818- 500 18x18x5-1/4 500 lb 10ft NTEP III Steel Painted SST Cover
18604	Scale,BENCHMARK BM1818-1K 18x18x5-1/4 1,000 lb 10ft NTEP III Steel Painted SST Cover
18606	Scale,BENCHMARK BM1824-50 18x24x5-1/4 50 lb 10ft NTEP III Steel Painted SST Cover
18608	Scale,BENCHMARK BM1824- 100 18x24-5-1/4 100 lb 10ft NTEP III Steel Painted SST Cover
18610	Scale,BENCHMARK BM1824- 150 18x24x5-1/4 150 lb 10ft NTEP III Steel Painted SST Cover
18612	Scale,BENCHMARK BM1824- 200 18x24x5-1/4 200 lb 10ft NTEP III Steel Painted SST Cover
18614	Scale,BENCHMARK BM1824- 250 18x24x5-1/4 250 lb 10ft NTEP III Steel Painted SST Cover
18616	Scale,BENCHMARK BM1824- 300 18x24x5-1/4 300 lb 10ft NTEP III Steel Painted SST Cover
18618	Scale,BENCHMARK BM1824- 500 18x24-5-1/4 500 lb 10ft NTEP III Steel Painted SST Cover
18620	Scale,BENCHMARK BM1824-1K 18x24x5-1/4 1,000 lb 10ft NTEP III Steel Painted SST Cover
18622	Scale,BENCHMARK BM2424- 100 24x24x5-1/4 100 lb 10ft NTEP III Steel Painted SST Cover
18624	Scale,BENCHMARK BM2424- 150 24x24x5-1/4 150 lb 10ft NTEP III Steel Painted SST Cover
18626	Scale,BENCHMARK BM2424- 200 24x24x5-1/4 200 lb 10ft NTEP III Steel Painted SST Cover

Part #	Description
18628	Scale,BENCHMARK BM2424- 250 24x24x5-1/4 250 lb 10ft NTEP III Steel Painted SST Cover
18630	Scale,BENCHMARK BM2424- 300 24x24x5-1/4 300 lb 10ft NTEP III Steel Painted SST Cover
18632	Scale,BENCHMARK BM2424- 500 24x24x5-1/4 500 lb 10ft NTEP III Steel Painted SST Cover
18634	Scale,BENCHMARK BM2424-1K 24x24x5-1/4 1,000 lb 10ft NTEP III Steel Painted SST Cover

Options

Part #	Description
112044	Column,12 Inch SST Kit OPT Benchmark, Benchmark (SL/HE/HE-X), CW-80B, CW-90B, CW-90XB to IQ+210, CW-90I, CW-90XI, 480/482, 680/682, 380/380X
112045	Column,18 Inch SST Kit OPT Benchmark, Benchmark (SL/HE/HE-X), CW-80B, CW-90B, CW-90XB to IQ+210, CW-90I, CW-90XI,480/482, 680/682, 380/380X
64576	Bracket,Attachment Kit OPT, Benchmark for IQ+210, 480/482, 680/682, 380/380X
22125	LIT,Manual Benchmark Scale
196363	Column,12 Inch SST Kit OPT Benchmark, Benchmark (SL/HE), CW-80B, CW-90B, CW-90XB to 882IS/882IS PLUS with battery
196364	Column,18 Inch SST Kit OPT Benchmark, Benchmark (SL/HE), CW-80B, CW-90B, CW-90XB to 882IS/882IS PLUS with battery
197482	Column,12 Inch SST Kit OPT Benchmark, Benchmark (SL/HE), CW-80B, CW-90B, CW-90XB to 882IS/882IS PLUS with power supply option (power supply will not be mounted to the column), 880/880 Plus Universal
197484	Column,18 Inch SST Kit OPT Benchmark, Benchmark (SL/HE), CW-80B, CW-90B, CW-90XB to 882IS/882IS PLUS with power supply (power supply will not be mounted to the column), 880/880 Plus Universal
NA	Ball transfer and roller conveyor top

Replacement Parts

Part # **Description**

12 x 12 in and 12 x 18 in Mild Steel

22125 LIT,Manual Benchmark Scale

35128 Foot,Bench Scale 1/4-20NC x1-3/16 SST

14645 Nut,Jam 1/4-20NC HEX SST Width Across Flats=7/16 Thickness=5/32

32993 Frame,Bottom Bench Scale 12x12 Painted steel. (Goes with 19132)

32992 Frame,Bottom Bench Scale 12x18 Painted Steel. (Goes with 19134)

32993 Frame,Bottom Bench Scale 12x12 Painted steel. (Goes with 19132)

14739 Bolt,3/8-16NCx1/2 HEX Head Fully Threaded Grade 2 Steel Zinc Plated

19092 Cover,Top Bench Scale 12x 12 SST

19093 Cover,Top Bench Scale 12x 18 SST

26408 Bumper,Self Adhesive 3/4 DIAx0.16 Black Polyurethane (rubber)

15147 Washer,Lock 1/4 Regular Helical Spring Steel Zinc Plated ID=.254-.262 OD=.489max Thickness=.062

14962 Screw,Cap 1/4-20NC x 3/4 Hex Head Fully Threaded Grade 8 Steel Yellow Zinc Plated

19089 Shim,Load Cell .060x1x 1.34 SST

15410 Level,Spirit Bubble Plastic 15mm Press Fit

19132 Frame,Top Bench Scale 12x12 Steel Painted. (Goes with 32993)

19134 Frame,Top Bench Scale 12x 18 Steel Painted. (Goes with 32992)

16141 Cable Tie,8in Nylon

15409 Clamp,Cable NO 8 Hole Nylon

15418 Grommet,Rubber 3/16 ID x 7/16 OD x 3/8 H W/5/16 DIA x 1/4 Tall Groove Nitrile

14918 Screw, Set 8-32NC x 1/4 Hex Drive Cup Point Black Oxide Alloy Steel

19139 Insert,Glide Square 1 in. x 14g, Tubing Cap (plastic)

91732 Load Cell,SPT RLSP4-100kg 10ft 2mv/v 350 Ohm NTEP III 5S FM AL Potted

91730 Load Cell,SPT RLSP4-50kg 10ft 2mv/v 350 Ohm NTEP III 5S FM AL Potted

Part #	Description
188678	Load Cell, SPT RL42018A 30kg 10ft 2mv/v 350 Ohm NTEP III 5S AI FM IP66
188679	Load Cell, SPT RL42018A 50kg 10ft 2mv/v 350 Ohm NTEP III 5S AI FM IP66
188681	Load Cell, SPT RL42018A 100kg 10ft 2mv/v 350 Ohm NTEP III 5S AI FM IP66
18 x 18 in & 18 x 24 in & 24 x 24 in Mild Steel and Stainless Steel	
22125	LIT,Manual Benchmark Scale
19141	Foot, Leveling, Fixed, 3/8-16 x 1in Stem, 1-1/2in Wide SST Base
14649	Nut,Jam 3/8-16NC HEX Steel Zinc Plated Width Across Flats=9/16 Thickness=7/32
14653	Nut,Jam 3/8-16NC HEX SST Width Across Flats=9/16 Thickness=7/32
49766	Frame,Bottom Bench Scale 18x18 Mild Steel Painted
49768	Frame,Bottom Bench Scale 18x18 SST
49770	Frame,Bottom Bench Scale 18x24 Mild Steel Painted
49772	Frame,Bottom Bench Scale 18x24 SST
49774	Frame,Bottom Bench Scale 24x24 Mild Steel Painted
49776	Frame,Bottom Bench Scale 24x24 SST
19108	Frame,Bottom Bench Scale 18x18 Mild Steel Painted
19109	Frame,Bottom Bench Scale 18x18 SST
19110	Frame,Bottom Bench Scale 18x24 Mild Steel Painted
19111	Frame,Bottom Bench Scale 18x24 SST
19112	Frame,Bottom Bench Scale 24x24 Mild Steel Painted
19114	Frame,Bottom Bench Scale 24x24 SST
14742	Bolt,3/8-16NCx1 HEX Head Fully Threaded Grade 2 Steel Zinc Plated
19094	Cover,Top Bench Scale 18 X 18 SST
19095	Cover,Top Bench Scale 18 X 24 SST
19096	Cover,Top Bench Scale 24x 24 SST
26407	Bumper,Self Adhesive 1-1/4x1-1/4x0.24 Black
15153	Washer,Lock 5/16 Regular Helical Spring Steel Zinc Plated ID=.317-.326 OD=.586max Thickness=.078

Part #	Description
15154	Washer,Lock 5/16 Regular Helical Spring SST ID=.317-.326 OD=.586max Thickness=.078
26668	Screw,Cap 5/16-18NC x 3/4 Hex Head Fully Threaded Grade 8 Steel Yellow Zinc Plated
26669	Screw,Cap 5/16-18NC x 3/4 Hex Head 18-8 SST
26667	Screw,Cap 5/16-18NC x 1 Hex Head Fully Threaded Grade 8 Steel Yellow Zinc Plated
26670	Screw,Cap 5/16-18NC x 1 Hex Head 18-8 SST
49785	Washer,Plate Bench Scale Steel Zinc Plated For RL1260 Load Cell 3/8x2x2-1/2 **(INTERNAL MUTI LOC KANBAN ALSO STOCKED AT 050000)**
49786	Washer,Plate Bench Scale SST RL1260 Load Cell 3/8x2x2-1/2
19102	Plate,Washer Bench Scale Steel Zinc Plated
19103	Plate,Washer Bench Scale SST
15410	Level,Spirit Bubble Plastic 15mm Press Fit
19140	Square Plug Black Polyethylene Material, For 1.50 Inch Square Tubing. Wall Thickness .083-.134
49765	Frame,Top Bench Scale 18x18 Mild Steel Painted For RL1260 Load Cell. (Goes with 49766)
49767	Frame,Top Bench Scale 18x18 SST For RL1260 Load Cell. (Goes with 49768)
19116	Frame,Top Bench Scale 18x 18 Steel Painted. (Goes with 19108)
19117	Frame,Top Bench Scale 18x 18 SST. (Goes with 19109)
19118	Frame,Top Bench Scale 18x 24 Steel Painted. (Goes with 19110)
19119	Frame,Top Bench Scale 18x 24 SST. (Goes with 19111)
49769	Frame,Top Bench Scale 18x24 Mild Steel Painted For RL1260 Load Cell. (Goes with 49770)
49771	Frame,Top Bench Scale 18x24 SST For RL1260 Load Cell. (Goes with 49772)
49773	Frame,Top Bench Scale 24x24 Mild Steel Painted For RL1260 Load Cell. (Goes with 49774)
49775	Frame,Top Bench Scale 24x24 SST For RL1260 Load Cell. (Goes with 49776)
19120	Frame,Top Bench Scale 24x 24 Steel Painted
19121	Frame,Top Bench Scale 24x 24 SST. (Goes with 19114)
16141	Cable Tie,8in Nylon
15409	Clamp,Cable NO 8 Hole Nylon

Part #	Description
15418	Grommet,Rubber 3/16 ID x 7/16 OD x 3/8 H W/5/16 DIA x 1/4 Tall Groove Nitrile
49788	Screw,Cap 5/16-18NC x 1-1/4 Hex Head Fully Threaded Yellow Zinc Plated
49789	Screw,Cap 5/16-18NC x 1-1/4 Hex Head Fully Threaded 18-8 SST
49787	Shim Plate,Bench Scale SST 1/8x2x2-1/2 ** (INTERNAL MUTI LOC KANBAN ALSO STOCKED AT 050000)
22264	Shim Plate,Bench Scale SST
15045	Screw, Set 1/2-20NF x 1/2 Hex Socket Cup Point Alloy Steel Black Oxide
15047	Screw, Set 1/2-20NF x 1/2 Hex Socket Cup Point 18-8 SST
14858	Screw,Machine 8-32NC x 5/16 Phillips Pan Head Steel Zinc Plated
14862	Screw,Machine 8-32NC x 3/8 Phillips Pan Head Fully Threaded 18-8 SST
35316	Screw,Cap 1/4-20NC x 2 Hex Head Partially Threaded Grade 2 Steel Zinc Plated
35199	Screw,Cap 1/4-20NC x 2 Hex Head Partially Threaded 18-8 SST
15145	Washer,Plain 1/4 Type A Series N Steel Zinc Plated ID=.276-.296 OD .620-.640 Thickness=.051-.080
15149	Washer,Plain STD 1/4 SST ID=.266 OD=.625 Thickness=.050
14635	Nut,Lock 1/4-20NC HEX Nylon Insert Steel Zinc Plated Width Across Flats=7/16 Thickness= 5/16
14634	Nut,Lock 1/4-20NC HEX Nylon Insert SST Width Across Flats=7/16 Thickness=5/16
188682	Load Cell,SPT RL26018A- 50kg 10ft 2mv/v 350 Ohm NTEP III 5 S AL FM
188684	Load Cell,SPT RL26018A- 100kg 10ft 2mv/v 350 Ohm NTEP III 5 S AL FM
188686	Load Cell,SPT RL26018A- 200kg 10ft 2mv/v 350 Ohm NTEP III 5 S AL FM
188687	Load Cell,SPT RL26018A- 250kg 10ft 2mv/v 350 Ohm NTEP III 5 S AL FM
188689	Load Cell,SPT RL26018A- 500kg 10ft 2mv/v 350 Ohm NTEP III 5 S AL FM
191105	Load Cell, SPT RL1218A- 1000kg 10ft 2mv/v 350 Ohm AL Potted NTEP III 5 S FM IP67

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