





















Selection and ordering data	Article No.	Milltronics MSI belt scale	Article No.
<p>Milltronics MSI belt scale</p> <p>A heavy-duty, high-accuracy single idler belt scale for process and load-out control. For Milltronics MMI belt scale system, two or more MSI belt scales are required. Calibration weights are required and ordered as separate items.</p> <p>➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.</p>	<p>7MH7122-</p>	<p>Milltronics MSI belt scale</p> <p>A heavy-duty, high-accuracy single idler belt scale for process and load-out control. For Milltronics MMI belt scale system, two or more MSI belt scales are required. Calibration weights are required and ordered as separate items.</p>	<p>7MH7122-</p>
<p>Scale construction</p> <p>Standard duty, CE, RCM ➤ 1</p> <p>Hazardous Duty ➤ 2</p> <p>CSA/FM Class II, Div. 1, Groups E, F, G and Class III, ATEX II 2D, IECEx, CE, RCM</p>		<p>59 inch, 'A' = 68 inch (1 727 mm)</p> <p>60 inch, 'A' = 69 inch (1 753 mm)</p> <p>61 inch, 'A' = 70 inch (1 778 mm)</p> <p>62 inch, 'A' = 71 inch (1 803 mm)</p> <p>63 inch, 'A' = 72 inch (1 829 mm)</p> <p>64 inch, 'A' = 73 inch (1 854 mm)</p> <p>65 inch, 'A' = 74 inch (1 880 mm)</p> <p>66 inch, 'A' = 75 inch (1 905 mm)</p> <p>67 inch, 'A' = 76 inch (1 930 mm)</p> <p>68 inch, 'A' = 77 inch (1 956 mm)</p> <p>69 inch, 'A' = 78 inch (1 981 mm)</p> <p>70 inch, 'A' = 79 inch (2 007 mm)</p> <p>71 inch, 'A' = 80 inch (2 032 mm)</p> <p>72 inch, 'A' = 81 inch (2 057 mm)</p> <p>73 inch, 'A' = 82 inch (2 083 mm)</p> <p>74 inch, 'A' = 83 inch (2 108 mm)</p> <p>75 inch, 'A' = 84 inch (2 134 mm)</p> <p>76 inch, 'A' = 85 inch (2 159 mm)</p> <p>77 inch, 'A' = 86 inch (2 184 mm)</p> <p>78 inch, 'A' = 87 inch (2 210 mm)</p> <p>79 inch, 'A' = 88 inch (2 235 mm)</p> <p>80 inch, 'A' = 89 inch (2 261 mm)</p> <p>81 inch, 'A' = 90 inch (2 286 mm)</p> <p>82 inch, 'A' = 91 inch (2 311 mm)</p> <p>83 inch, 'A' = 92 inch (2 337 mm)</p> <p>84 inch, 'A' = 93 inch (2 362 mm)</p> <p>85 inch, 'A' = 94 inch (2 388 mm)</p> <p>86 inch, 'A' = 95 inch (2 413 mm)</p> <p>87 inch, 'A' = 96 inch (2 438 mm)</p> <p>88 inch, 'A' = 97 inch (2 464 mm)</p> <p>89 inch, 'A' = 98 inch (2 489 mm)</p> <p>90 inch, 'A' = 99 inch (2 515 mm)</p> <p>91 inch, 'A' = 100 inch (2 540 mm)</p> <p>92 inch, 'A' = 101 inch (2 565 mm)</p> <p>93 inch, 'A' = 102 inch (2 591 mm)</p> <p>94 inch, 'A' = 103 inch (2 616 mm)</p> <p>95 inch, 'A' = 104 inch (2 642 mm)</p> <p>96 inch, 'A' = 105 inch (2 667 mm)</p>	<p>BW</p> <p>CA</p> <p>CB</p> <p>CC</p> <p>CD</p> <p>CE</p> <p>CF</p> <p>CG</p> <p>CH</p> <p>CJ</p> <p>CK</p> <p>CL</p> <p>CM</p> <p>CN</p> <p>CP</p> <p>CQ</p> <p>CR</p> <p>CS</p> <p>CT</p> <p>CU</p> <p>CV</p> <p>CW</p> <p>DA</p> <p>DB</p> <p>DC</p> <p>DD</p> <p>DE</p> <p>DF</p> <p>DG</p> <p>DH</p> <p>DJ</p> <p>DK</p> <p>DL</p> <p>DM</p> <p>DN</p> <p>DP</p> <p>DQ</p> <p>DR</p>
<p>Belt width and 'A' dimension</p> <p>18 inch, 'A' = 27 inch (686 mm) ➤ AA</p> <p>19 inch, 'A' = 28 inch (711 mm) ➤ AB</p> <p>20 inch, 'A' = 29 inch (737 mm) ➤ AC</p> <p>21 inch, 'A' = 30 inch (762 mm) ➤ AD</p> <p>22 inch, 'A' = 31 inch (787 mm) ➤ AE</p> <p>23 inch, 'A' = 32 inch (813 mm) ➤ AF</p> <p>24 inch, 'A' = 33 inch (838 mm) ➤ AG</p> <p>25 inch, 'A' = 34 inch (864 mm) ➤ AH</p> <p>26 inch, 'A' = 35 inch (889 mm) ➤ AJ</p> <p>27 inch, 'A' = 36 inch (914 mm) ➤ AK</p> <p>28 inch, 'A' = 37 inch (940 mm) ➤ AL</p> <p>29 inch, 'A' = 38 inch (965 mm) ➤ AM</p> <p>30 inch, 'A' = 39 inch (991 mm) ➤ AN</p> <p>31 inch, 'A' = 40 inch (1 016 mm) ➤ AP</p> <p>32 inch, 'A' = 41 inch (1 041 mm) ➤ AQ</p> <p>33 inch, 'A' = 42 inch (1 067 mm) ➤ AR</p> <p>34 inch, 'A' = 43 inch (1 092 mm) ➤ AS</p> <p>35 inch, 'A' = 44 inch (1 118 mm) ➤ AT</p> <p>36 inch, 'A' = 45 inch (1 143 mm) ➤ AU</p> <p>37 inch, 'A' = 46 inch (1 168 mm) ➤ AV</p> <p>38 inch, 'A' = 47 inch (1 194 mm) ➤ AW</p> <p>39 inch, 'A' = 48 inch (1 219 mm) ➤ BA</p> <p>40 inch, 'A' = 49 inch (1 245 mm) ➤ BB</p> <p>41 inch, 'A' = 50 inch (1 270 mm) ➤ BC</p> <p>42 inch, 'A' = 51 inch (1 295 mm) ➤ BD</p> <p>43 inch, 'A' = 52 inch (1 321 mm) ➤ BE</p> <p>44 inch, 'A' = 53 inch (1 346 mm) ➤ BF</p> <p>45 inch, 'A' = 54 inch (1 372 mm) ➤ BG</p> <p>46 inch, 'A' = 55 inch (1 397 mm) ➤ BH</p> <p>47 inch, 'A' = 56 inch (1 422 mm) ➤ BJ</p> <p>48 inch, 'A' = 57 inch (1 448 mm) ➤ BK</p> <p>49 inch, 'A' = 58 inch (1 473 mm) ➤ BL</p> <p>50 inch, 'A' = 59 inch (1 499 mm) ➤ BM</p> <p>51 inch, 'A' = 60 inch (1 524 mm) ➤ BN</p> <p>52 inch, 'A' = 61 inch (1 549 mm) ➤ BP</p> <p>53 inch, 'A' = 62 inch (1 575 mm) ➤ BQ</p> <p>54 inch, 'A' = 63 inch (1 600 mm) ➤ BR</p> <p>55 inch, 'A' = 64 inch (1 626 mm) ➤ BS</p> <p>56 inch, 'A' = 65 inch (1 651 mm) ➤ BT</p> <p>57 inch, 'A' = 66 inch (1 676 mm) ➤ BU</p> <p>58 inch, 'A' = 67 inch (1 702 mm) ➤ BV</p>		<p>Load cell capacity</p> <p>Not specified¹⁾ ➤ 0</p> <p>25 lb (11.3 kg) ➤ 9 L 1 A</p>	

Selection and ordering data	Article No.	Milltronics MSI belt scale	Article No.
Milltronics MSI belt scale A heavy-duty, high-accuracy single idler belt scale for process and load-out control. For Milltronics MMI belt scale system, two or more MSI belt scales are required. Calibration weights are required and ordered as separate items.	7MH7122- 	Milltronics MSI belt scale A heavy-duty, high-accuracy single idler belt scale for process and load-out control. For Milltronics MMI belt scale system, two or more MSI belt scales are required. Calibration weights are required and ordered as separate items.	7MH7122- 
50 lb (22.7 kg)  1 100 lb (45.4 kg)  2 250 lb (113.4 kg)  3 500 lb (226.8 kg)  4 750 lb (340.2 kg)  5 1 000 lb (453.6 kg)  6 1 250 lb (567 kg) ²⁾  7 1 500 lb (680.4 kg) ²⁾  8 2 000 lb (907.2 kg)  9	L 1 B	System specification Standard MSI and MMI  A NTEP Certified MMI ⁽³⁾⁽⁴⁾⁽⁵⁾ B OIML/MID Certified ⁽⁴⁾⁽⁵⁾ C MSI for MMI-3 ± 0.125 % accuracy ⁽⁶⁾ D	
Fabrication		Further designs Please add "-Z" to article no. and specify order code(s).	Order code
C5-M rated polyester painted mild steel 	1 1	Stainless steel tag [69 x 38 mm (2.7 x 1.5 inch)], Measuring-point number / identification (max 27 characters), specify in plain text.  Y15	
<u>Electro-galvanized mild steel:</u>		Application Eng. reference number (max. 15 characters), specify in plain text.  Y31	
18 ... 29 inch (457.2 ... 736.6 mm)	1 2	Manufacturer's test certificate: According to EN 10204-2.2  C11	
30 ... 41 inch (762 ... 1 041.4 mm)	1 3	Factory calibration certificate  Y33	
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	1 4	OIML/MID approval additional nameplate (submit application data with order) ⁽⁵⁾ Y77	
54 ... 65 inch (1 371.6 ... 1 651 mm)	1 5	NTEP approval additional nameplate (submit application data with order) ⁽⁵⁾ Y78	
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	1 6	Extended cable length (For spare part pricing and part number consult factory) Load cell with 15 m (49.2 ft) cable length [standard is 3 m (9.8 ft)] A08	
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	1 7	High temp load cell (For spare part pricing and part number consult factory) Load cell suitable for high temp up to 175 °C (347 °F) [standard is 75 °C (167 °F)] ⁽⁷⁾ T50	
90 ... 96 inch (2 286 ... 2 438.4 mm)	1 8	Load cell with 316 (1.4401) cover (For spare part pricing and part number consult factory) Load cell cover is constructed from 316 (1.4401) stainless steel [standard is 304 (1.4301)] H53	
<u>Stainless steel 304 (1.4301), bead blast finish (1 ... 6 µm, 40 ... 240 µin) for belt width scales:</u>		FDA compliant version Conduit and fittings designed for food applications conforming to FDA/USDA standards K01	
18 ... 29 inch (457.2 ... 736.6 mm)	2 1	Custom paint colour Specify polyester powder coat paint RAL number Y50	
30 ... 41 inch (762 ... 1 041.4 mm)	2 2	Operating instructions <u>MSI Manuals</u>	Article No.
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	2 3	<ul style="list-style-type: none"> English German 	7ML1998-5CY04 A5E32007535
54 ... 65 inch (1 371.6 ... 1 651 mm)	2 4	<u>MMI Manuals</u>	7ML1998-5DR03
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	2 5	<ul style="list-style-type: none"> English German 	7ML1998-5DR34
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	2 6	 We can offer shorter delivery times for configurations designated with the Quick Ship Symbol 	
90 ... 96 inch (2 286 ... 2 438.4 mm)	2 7		
<u>Stainless steel 316 (1.4401), bead blast finish (1 ... 6 µm, 40 ... 240 µin) for belt width scales:</u>			
18 ... 29 inch (457.2 ... 736.6 mm)	3 1		
30 ... 41 inch (762 ... 1 041.4 mm)	3 2		
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	3 3		
54 ... 65 inch (1 371.6 ... 1 651 mm)	3 4		
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	3 5		
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	3 6		
90 ... 96 inch (2 286 ... 2 438.4 mm)	3 7		
C5-M rated polyester painted mild steel (compatible with MWL or flat bar weight calibration system) 	4 1		
<u>Galvanized, for belt width scales:</u> (compatible with MWL or flat bar weight system)			
18 ... 29 inch (457.2 ... 736.6 mm)	4 2		
30 ... 41 inch (762 ... 1 041.4 mm)	4 3		
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	4 4		
54 ... 65 inch (1 371.6 ... 1 651 mm)	4 5		
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	4 6		
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	4 7		
90 ... 96 inch (2 286 ... 2 438.4 mm)	4 8		

Selection and ordering data

Article No.

Article No.

Belt Scale Application Guidelines

- English
- German
- French
- Spanish
- Hazardous location certificates

Note: the operating instructions should be ordered as a separate item on the order.

All literature is available to download for free, in a range of languages, at

<http://www.siemens.com/processinstrumentation/documentation>

This device is shipped with the Siemens Level and Weighing manual DVD containing the complete operating instructions library.

Spare parts

Flat bar/MWL retrofit kit

Conduit replacement kit

FDA conduit replacement kit

MWL calibration weight support brackets galvanized

Stainless steel load cells

Standard load cell with 304 (1.4301) stainless steel cover

50 lb (22.7 kg)

100 lb (45.4 kg)

250 lb (113.4 kg)

500 lb (226.8 kg)

750 lb (340.2 kg)

1 000 lb (453.6 kg)

1 250 lb (567 kg)

1 500 lb (680.4 kg)

100 lb (45.4 kg), NTEP, OIML/MID

250 lb (113.4 kg), NTEP, OIML/MID

500 lb (226.8 kg), NTEP, OIML/MID

750 lb (340.2 kg), NTEP, OIML/MID

1 000 lb (453.6 kg), NTEP, OIML/MID

50 lb (22.7 kg), CSA/FM/ATEX/IECEX

100 lb (45.4 kg), CSA/FM/ATEX/IECEX

250 lb (113.4 kg), CSA/FM/ATEX/IECEX

500 lb (226.8 kg), CSA/FM/ATEX/IECEX

750 lb (340.2 kg), CSA/FM/ATEX/IECEX

1 000 lb (453.6 kg), CSA/FM/ATEX/IECEX

1 250 lb (567 kg), CSA/FM/ATEX/IECEX

1 500 lb (680.4 kg), CSA/FM/ATEX/IECEX

Load cell with 316 (1.4401) stainless steel cover

25 lb (11.3 kg)

50 lb (22.7 kg)

100 lb (45.4 kg)

250 lb (113.4 kg)

500 lb (226.8 kg)

750 lb (340.2 kg)

1 000 lb (453.6 kg)

1 250 lb (567 kg)

1 500 lb (680.4 kg)

2 000 lb (907.2 kg)

7ML1998-5GA01

7ML1998-5GA31

7ML1998-5GA11

7ML1998-5GA21

7ML1998-5KH81

7MH7723-1FW

7MH7723-1NA

7MH7723-1QL

7MH7723-1JT

7MH7725-1AC

7MH7725-1AD

7MH7725-1AE

7MH7725-1AF

7MH7725-1AG

7MH7725-1AH

7MH7725-1EA

7MH7725-1EB

7MH7725-1DB

7MH7725-1DC

7MH7725-1DD

7MH7725-1DE

7MH7725-1DF

7MH7725-1DT

7MH7725-1DU

7MH7725-1DV

7MH7725-1DW

7MH7725-1DX

7MH7725-1DY

7MH7725-1EE

7MH7725-1EF

PBD-25851-A8H53

PBD-25851-A0H53

PBD-25851-A1H53

PBD-25851-A2H53

PBD-25851-A3H53

PBD-25851-A4H53

PBD-25851-A5H53

PBD-25851-A6H53

PBD-25851-A7H53

PBD-25851-A9H53

100 lb (45.4 kg), NTEP, OIML/MID

250 lb (113.4 kg), NTEP, OIML/MID

500 lb (226.8 kg), NTEP, OIML/MID

750 lb (340.2 kg), NTEP, OIML/MID

1 000 lb (453.6 kg), NTEP, OIML/MID

Load cell, high temperature up to 175 °C (347 °F)

25 lb (11.3 kg)

50 lb (22.7 kg)

100 lb (45.4 kg)

250 lb (113.4 kg)

500 lb (226.8 kg)

750 lb (340.2 kg)

1 000 lb (453.6 kg)

1 250 lb (567 kg)

1 500 lb (680.4 kg)

2 000 lb (907.2 kg)

Load cell, high temperature up to 175 °C (347 °F) with 316 (1.4401) stainless steel cover

25 lb (11.3 kg)

50 lb (22.7 kg)

100 lb (45.4 kg)

250 lb (113.4 kg)

500 lb (226.8 kg)

750 lb (340.2 kg)

1 000 lb (453.6 kg)

1 250 lb (567 kg)

1 500 lb (680.4 kg)

2 000 lb (907.2 kg)

Load cell with 15 m (49.2 ft) cable length

25 lb (11.3 kg)

50 lb (22.7 kg)

100 lb (45.4 kg)

250 lb (113.4 kg)

500 lb (226.8 kg)

750 lb (340.2 kg)

1 000 lb (453.6 kg)

1 250 lb (567 kg)

1 500 lb (680.4 kg)

2 000 lb (907.2 kg)

100 lb (45.4 kg), NTEP, OIML/MID

250 lb (113.4 kg), NTEP, OIML/MID

500 lb (226.8 kg), NTEP, OIML/MID

750 lb (340.2 kg), NTEP, OIML/MID

1 000 lb (45.4 kg), NTEP, OIML/MID

Load cell with 15 m (49.2 ft) cable length and 316 (1.4401) stainless steel cover

25 lb (11.3 kg)

50 lb (22.7 kg)

100 lb (45.4 kg)

250 lb (113.4 kg)

500 lb (226.8 kg)

750 lb (340.2 kg)

1 000 lb (453.6 kg)

PBD-25851-B1H53

PBD-25851-B2H53

PBD-25851-B3H53

PBD-25851-B4H53

PBD-25851-B5H53

PBD-25851-A8T50

PBD-25851-A0T50

PBD-25851-A1T50

PBD-25851-A2T50

PBD-25851-A3T50

PBD-25851-A4T50

PBD-25851-A5T50

PBD-25851-A6T50

PBD-25851-A7T50

PBD-25851-A9T50

PBD-25851-A8TH

PBD-25851-A0TH

PBD-25851-A1TH

PBD-25851-A2TH

PBD-25851-A3TH

PBD-25851-A4TH

PBD-25851-A5TH

PBD-25851-A6TH

PBD-25851-A7TH

PBH-25851-A9TH

PBD-25851-A8A08

PBD-25851-A0A08

PBD-25851-A1A08

PBD-25851-A2A08

PBD-25851-A3A08

PBD-25851-A4A08

PBD-25851-A5A08

PBD-25851-A6A08

PBD-25851-A7A08

PBD-25851-A9A08

PBD-25851-B1A08

PBD-25851-B2A08

PBD-25851-B3A08

PBD-25851-B4A08

PBD-25851-B5A08

PBD-25851-A8AH

PBD-25851-A0AH

PBD-25851-A1AH

PBD-25851-A2AH

PBD-25851-A3AH

PBD-25851-A4AH

PBD-25851-A5AH

Selection and ordering data

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1 250 lb (567 kg)	PBD-25851-A6AH
1 500 lb (680.4 kg)	PBD-25851-A7AH
2 000 lb (907.2 kg)	PBD-25851-A9AH
100 lb (45.4 kg), NTEP, OIML/MID	PBD-25851-B1AH
250 lb (113.4 kg), NTEP, OIML/MID	PBD-25851-B2AH
500 lb (226.8 kg), NTEP, OIML/MID	PBD-25851-B3AH
750 lb (340.2 kg), NTEP, OIML/MID	PBD-25851-B4AH
1 000 lb (453.6 kg), NTEP, OIML/MID	PBD-25851-B5AH

Load cell, high temperature up to 175 °C (347 °F) with 15 m (49.2 ft) cable length

25 lb (11.3 kg)	PBD-25851-A8TA
50 lb (22.7 kg)	PBD-25851-A0TA
100 lb (45.4 kg)	PBD-25851-A1TA
250 lb (113.4 kg)	PBD-25851-A2TA
500 lb (226.8 kg)	PBD-25851-A3TA
750 lb (340.2 kg)	PBD-25851-A4TA
1 000 lb (453.6 kg)	PBD-25851-A5TA
1 250 lb (567 kg)	PBD-25851-A6TA
1 500 lb (680.4 kg)	PBD-25851-A7TA
2 000 lb (907.2 kg)	PBD-25851-A9TA

Load cell, high temperature up to 175 °C (347 °F) with 15 m (49.2 ft) cable length and 316 (1.4401) stainless steel cover

25 lb (11.3 kg)	PBD-25851-A8AHT
50 lb (22.7 kg)	PBD-25851-A0AHT
100 lb (45.4 kg)	PBD-25851-A1AHT
250 lb (113.4 kg)	PBD-25851-A2AHT
500 lb (226.8 kg)	PBD-25851-A3AHT
750 lb (340.2 kg)	PBD-25851-A4AHT
1 000 lb (453.6 kg)	PBD-25851-A5AHT
1 250 lb (567 kg)	PBD-25851-A6AHT
1 500 lb (680.4 kg)	PBD-25851-A7AHT
2 000 lb (907.2 kg)	PBD-25851-A9AHT

Idler clips

5 inch (127 mm) for 27 ... 62 inch (686 ... 1 575 mm) "A" dimensions	7MH7723-1BT
7 inch (178 mm) for 63 ... 74 inch (1 600 ... 1 880 mm) "A" dimensions	7MH7723-1DF

Calibration weights

6.0 lb/ 2.7 kg	7MH7724-1AB
18 lb/ 8.2 kg	7MH7724-1AA
18 lb/ 8.2 kg certified weight	A5E32423812

Milltronics flat bar calibration weights, see page 4/58

Note: calibration accessories should be ordered as a separate line order

◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆

- 1) Only for quotation purposes, not a valid ordering option.
- 2) Available with Fabrication options 11 ... 18 and 41 ... 48 only, and with System specification option A only.
- 3) Two MSI are required to make the NTEP approved MMI.
- 4) Approval available with load cell options 2 ... 6 only and applicable BW500.
- 5) Complete specification data sheet on page 4/3 and submit with order "legal for trade" version.
- 6) Includes metrological approved load cells.
- 7) Not available with construction option 2, or system specification options B, C, D.