

Accessories

Calibration weight lifter Milltronics MWL

Overview



Milltronics MWL weight lifter is a mechanical calibration weight lifter for MCS. MSI, MMI, and MUS belt scales.

Benefits

- Safe and easy application of belt scale reference weights with the operator remaining external to the conveyor
- Modular construction, easily adaptable to different conveyor widths
- · Low profile allowing easy fit into belt conveyor
- · Easy to install and apply
- Easy to store drive handle that can be applied to left or right side of MWL
- · Security pin used to ensure safe storage of weight
- · Can be used with new and existing applications

Application

Milltronics MWL mechanically raises and lowers the static weights and then stores the weights securely above the belt scale calibration arms, and allows the operator to lower and apply them safely without having to lean into the conveyor. The MWL is manually operated, and uses a high mechanical advantage to enable weights up to 340 kg (750 lb) to be applied with very limited effort. The crank handle uses twelve rotations for full range of motion, and can be removed and stored for safety with the locking ball-pin which secures the MWL when it is not in use.

Two lifting arms support a base-bar weight above the calibration (test) weight brackets of the belt scale: either flat bar or round bar style calibration weights are applicable. Locating notches in the base-bar weight engage the calibration weights securely on the lifting arms in the stored position, and the gear drive locks the lifting arms in place.

Installation is easy, just four bolt holes to drill after locating the MWL gear modules (LH and RH) on the conveyor with respect to the belt scale. After running the MWL empty to ensure proper alignment, and then tightening mounting bolts, you are ready for the loading of the calibration weights. This is the last time that they will have to be lifted by hand.

Technical specifications

Milltronics MWL weight lifter					
Mode of operation					
Principle of operation	Mechanical gear drive				
Typical application	Belt scale calibration				
Medium conditions					
Max. ambient temperature	75 °C (167 °F)				
Belt design					
Belt width	MCS: up to 1 600 mm (60 inch) CEMA width MUS-STD standard duty: up to 1 000 mm (42 inch) CEMA width MUS-HD heavy-duty: up to 1 600 mm (60 inch) CEMA width MSI: 18 96 inch CEMA belt width				
Conveyor incline	± 15° from horizontal				
Idlers	20° or more troughed idlers				
Idler spacing	Minimum of 610 mm (24 inch)				
Calibration weight capacity	Up to 340 kg (750 lb)				
Crank arm					
Mechanical advantage	20:1				
Number of revolutions required for raising or lowering	12				
Mounting dimensions	See reverse for standard and heavy-duty MUS, MCS, and MSI/MMI belt scales				
Approvals	The MWL is in compliance with directive 98/37/EC, CE, RCM				
Motorized option	CE, RCM, EAC, KCC, $\mathrm{CSA}_{\mathrm{C/US}}$				

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Selection and ordering data	Article No.		Article No.
Milltronics MWL Calibration weight lifter	7MH7218-	Milltronics MWL Calibration weight lifter	7MH7218-
Mechanical calibration weight lifter designed for use with MSI, MMI, MCS, and MUS belt scales		Mechanical calibration weight lifter designed for use with MSI, MMI, MCS, and MUS belt scales	
Click on the Article No. for the online Click on the		65 inch, 'A'=74 inch (1 880 mm)	CF
configuration in the PIA Life Cycle Portal.		66 inch, 'A'=75 inch (1 905 mm)	CG
Actuation	,	67 inch, 'A'=76 inch (1 930 mm)	СН
Manually	.1	68 inch, 'A'=77 inch (1 956 mm)	C 1
Belt width and 'A' dimension		69 inch, 'A'=78 inch (1 981 mm)	СК
18 inch, 'A'=27 inch (686 mm) 19 inch, 'A'=28 inch (711 mm)	A A A B	70 inch, 'A'=79 inch (2 007 mm)	CL
20 inch, 'A'=29 inch (717 mm)	AC	71 inch, 'A'=80 inch (2 032 mm)	CM
21 inch, 'A'=30 inch (762 mm)	A D	72 inch, 'A'=81 inch (2 057 mm)	CN
22 inch, 'A'=31 inch (787 mm)	AE	73 inch, 'A'=82 inch (2 083 mm)	CP
23 inch, 'A'=31 inch (813 mm)	AF	74 inch, 'A'=83 inch (2 108 mm)	CQ
24 inch, 'A'=33 inch (838 mm)	AG	75 inch, 'A'=84 inch (2 134 mm)	CR
25 inch, 'A'=34 inch (864 mm)	AH	76 inch, 'A'=85 inch (2 159 mm)	C S
26 inch, 'A'=35 inch (889 mm)	AJ	77 inch, 'A'=86 inch (2 184 mm)	СТ
27 inch, 'A'=36 inch (914 mm)	AK	78 inch, 'A'=87 inch (2 210 mm)	CU
28 inch, 'A'=37 inch (940 mm)	AL	79 inch, 'A'=88 inch (2 235 mm)	C V
29 inch, 'A'=38 inch (965 mm)	A M	80 inch, 'A'=89 inch (2 261 mm)	C W
30 inch, 'A'=39 inch (991 mm)	AN	81 inch, 'A'=90 inch (2 286 mm)	DA
31 inch, 'A'=40 inch (1 016 mm)	AP	82 inch, 'A'=91 inch (2 311 mm)	DB
32 inch, 'A'=41 inch (1 041 mm)	A Q	83 inch, 'A'=92 inch (2 337 mm)	DC
33 inch, 'A'=42 inch (1 067 mm)	AR	84 inch, 'A'=93 inch (2 362 mm)	D D D E
34 inch, 'A'=43 inch (1 092 mm)	AS	85 inch, 'A'=94 inch (2 388 mm)	DF
35 inch, 'A'=44 inch (1 118 mm)	AT	86 inch, 'A'=95 inch (2 413 mm) 87 inch, 'A'=96 inch (2 438 mm)	DG
36 inch, 'A'=45 inch (1 143 mm)	AU	88 inch, 'A'=97 inch (2 464 mm)	DH
37 inch, 'A'=46 inch (1 168 mm)	AV	89 inch, 'A'=98 inch (2 489 mm)	DJ
38 inch, 'A'=47 inch (1 194 mm)	AW	90 inch, 'A'=99 inch (2 515 mm)	DK
39 inch, 'A'=48 inch (1 219 mm)	ВА	91 inch, 'A'=100 inch (2 540 mm)	DL
40 inch, 'A'=49 inch (1 245 mm)	ВВ	92 inch, 'A'=101 inch (2 565 mm)	D M
41 inch, 'A'=50 inch (1 270 mm)	ВС	93 inch, 'A'=102 inch (2 591 mm)	DN
42 inch, 'A'=51 inch (1 295 mm)	B D	94 inch, 'A'=103 inch (2 616 mm)	DP
43 inch, 'A'=52 inch (1 321 mm)	BE	95 inch, 'A'=104 inch (2 642 mm)	DQ
44 inch, 'A'=53 inch (1 346 mm)	BF	96 inch, 'A'=105 inch (2 667 mm)	DR
45 inch, 'A'=54 inch (1 372 mm)	B G	No width parts ³⁾	хх
46 inch, 'A'=55 inch (1 397 mm)	ВН	Weight type	
47 inch, 'A'=56 inch (1 422 mm)	BJ	None	0 0
48 inch, 'A'=57 inch (1 448 mm)	вк	For use with flat bar weights (weights not ncluded)	1 1
49 inch, 'A'=58 inch (1 473 mm)	BL	Width based on belt width	
50 inch, 'A'=59 inch (1 499 mm)	ВМ	3 inch integrated round bar weight	3 1
51 inch, 'A'=60 inch (1 524 mm)	BN	(18 29 inch, 15.9 22.7 kg)	
52 inch, 'A'=61 inch (1 549 mm)	ВР	3 inch integrated round bar weight (30 41 inch, 26.8 33.6 kg)	3 2
53 inch, 'A'=62 inch (1 575 mm)	B Q	3 inch integrated round bar weight	3 3
54 inch, 'A'=63 inch (1 600 mm)	BR	(42 53 inch, 37.7 44.5 kg)	
55 inch, 'A'=64 inch (1 626 mm)	BS	3 inch integrated round bar weight (54 65 inch, 48.6 58.6 kg)	3 4
56 inch, 'A'=65 inch (1 651 mm)	BT	3 inch integrated round bar weight	3 5
57 inch, 'A'=66 inch (1 676 mm)	BU	(66 77 inch, 59.5 69.5 kg)	
58 inch, 'A'=67 inch (1 702 mm)	B V	3 inch integrated round bar weight	3 6
59 inch, 'A'=68 inch (1 727 mm)	BW	(78 89 inch, 70.4 80.4 kg)	2.7
60 inch, 'A'=69 inch (1 753 mm)	C A C B	3 inch integrated round bar weight (90 96 inch, 81.3 86.8 kg)	3 7
61 inch, 'A'=70 inch (1 778 mm)	CC	4 inch integrated round bar weight	4 1
62 inch, 'A'=71 inch (1 803 mm) 63 inch, 'A'=72 inch (1 829 mm)	CD	(18 29 inch, 23.3 34.3 kg)	
64 inch, 'A'=73 inch (1 854 mm)	CE		
	V -		

Belt Weighing Accessories

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Selection and ordering data	Article No.					
Milltronics MWL Calibration weight lifter	7MH7218-					
Mechanical calibration weight lifter designed for use with MSI, MMI, MCS, and MUS belt scales						
4 inch integrated round bar weight (30 41 inch, 42.7 53.7 kg)	4 2					
4 inch integrated round bar weight (42 53 inch, 62.1 73.1 kg)	4 3					
4 inch integrated round bar weight (54 65 inch, 81.5 99.3 kg)	4 4					
4 inch integrated round bar weight (66 77 inch, 100.9 118.6 kg)	4 5					
4 inch integrated round bar weight (78 89 inch, 120.3 138.0 kg)	4 6					
4 inch integrated round bar weight (90 96 inch, 139.6 149.3 kg)	4 7					
5 inch integrated round bar weight (18 29 inch, 32.9 49.3 kg)	5 1					
5 inch integrated round bar weight (30 41 inch, 63.2 79.6 kg)	5 2					
5 inch integrated round bar weight (42 53 inch, 93.5 109.9 kg)	5 3					
5 inch integrated round bar weight (54 65 inch, 123.7 151.5 kg)	5 4					
5 inch integrated round bar weight (66 77 inch, 154.0 181.8 kg)	5 5					
5 inch integrated round bar weight (78 89 inch, 184.3 212.1 kg)	5 6					
5 inch integrated round bar weight (90 96 inch, 214.6 229.7 kg)	5 7					
6 inch integrated round bar weight (18 29 inch, 44.5 67.6 kg)	6 1					
6 inch integrated round bar weight (30 41 inch, 88.2 111.2 kg)	6 2					
6 inch integrated round bar weight (42 53 inch, 131.8 154.8 kg)	6 3					
6 inch integrated round bar weight (54 65 inch, 175.4 215.3 kg)	6 4					
6 inch integrated round bar weight (66 77 inch, 219.0 258.9 kg)	6 5					
6 inch integrated round bar weight (78 89 inch, 262.6 302.5 kg)	6 6					
6 inch integrated round bar weight (90 96 inch, 306.2 328.0 kg)	6 7					
Fabrication						
Standard, C5-M rated polyester painted mild steel	1					
Electro galvanized mild steel	2					
Other materials available upon request.						

	Order Code
Further designs	
Please add "-Z" to article no. and specify order code(s).	
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
Manufacturer's test certificate: According to EN 10204-2.2	C11
Operating instruction	
All literature is available to download for free, in a range of languages, at	
https://www.siemens.com/weighing/documentation	
Spare parts	Article No.
MWL handle shaft extension, 3.75 inch (95 mm)	7MH7726-1AM
MWL module LH unit	7MH7723-1GU
MWL module RH unit	7MH7723-1GV
MWL handle	7MH7723-1GX
MWL retrofit kit (for Milltronics MSI, MMI belt scales)	7MH7723-1FW
MWL retrofit kit galvanized (for Milltronics MSI, MMI belt scales)	7MH7723-1JT
MWL retrofit kit (for Milltronics MCS belt scales)	7MH7723-1HA
MWL handle shaft extension galvanized [3.75 inch (95 mm)]	7MH7223-1JS
MWL module LH unit galvanized	7MH7723-1HK
MWL module RH unit galvanized	7MH7723-1HL
MWL handle galvanized	7MH7723-1HM
1) 0 1004	0.1.01.0.)

¹⁾ One MWL is required for each scale (MMI-2 requires 2 MWL).

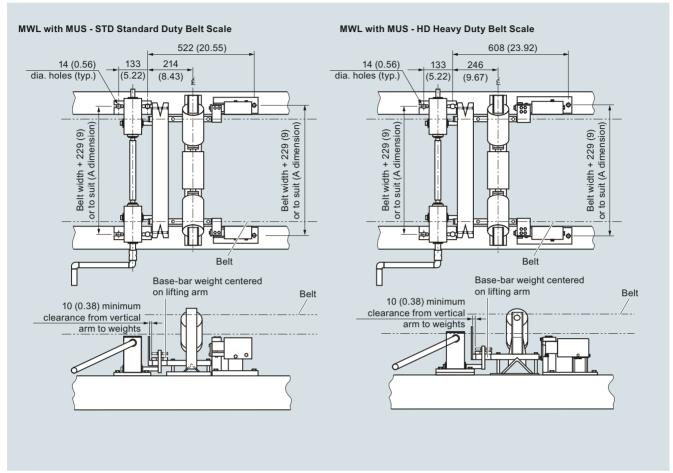
²⁾ Select motor mounting, order code options M30 or M31.

³⁾ Available with weight type option 00 only.

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Dimensional drawings

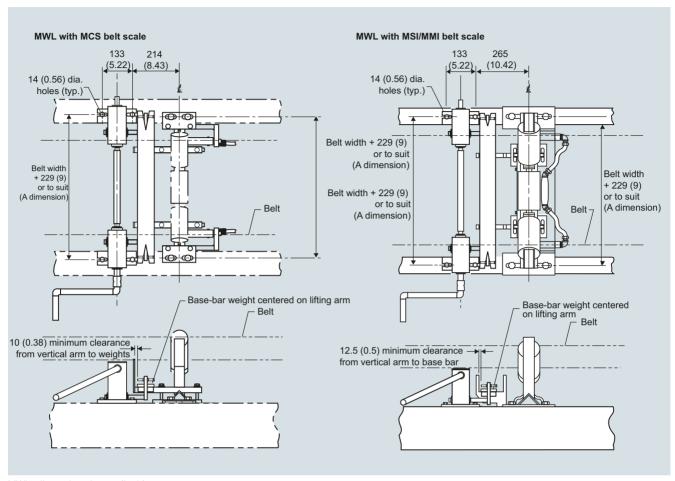


MWL, dimensions in mm (inch)

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Calibration weight lifter Milltronics MWL

Dimensional drawings (continued)



MWL, dimensions in mm (inch)

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Milltronics flat bar calibration weights

Overview

Roller test chains are used for belt scale calibration when material tests are not practical. All test chains are bushed. Minimum length is 4 feet (1.2 m).

Selection and ordering data		Article No.					
Milltronics Flat bar calibration weights.	7 7MH7127-						
Designed for use with Milltronics belt scales.							
∠ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.							
Bar width, belt width and A dimension, weight							
3 inch, 18 inch, A=27 inch (686 mm), 4.63 kg		1	ΑА				
3 inch, 24 inch, A=33 inch (838 mm), 5.78 kg		1	A G				
3 inch, 30 inch, A=39 inch (991 mm), 6.94 kg		1 4	A N				
3 inch, 36 inch, A=45 inch (1 143 mm), 8.10 kg		1	A U				
3 inch, 42 inch, A=51 inch (1 295 mm), 9.25 kg		1	B D				
3 inch, 48 inch, A=57 inch (1 448 mm), 10.41 kg		1	вк				
3 inch, 54 inch, A=63 inch (1 600 mm), 11.57 kg		1	B R				
3 inch, 60 inch, A=69 inch (1 753 mm), 12.73 kg		1 (CA				
3 inch, 66 inch, A=75 inch (1 905 mm), 13.89 kg		1 (C G				
3 inch, 72 inch, A=81 inch (2 057 mm), 15.05 kg		1 (C N				
3 inch, 78 inch, A=87 inch (2 210 mm), 16.21 kg		1 (c u				
3 inch, 84 inch, A=93 inch (2 362 mm), 17.37 kg		1	D D				
3 inch, 90 inch, A=99 inch (2 515 mm), 18.53 kg		1 1	D K				
3 inch, 96 inch, A=105 inch (2 667 mm), 19.69 kg		1 1	D R				
4 inch, 18 inch, A=27 inch (686 mm), 6.17 kg		2	A A				
4 inch, 24 inch, A=33 inch (838 mm), 7.71 kg		2	A G				
4 inch, 30 inch, A=39 inch (991 mm), 9.26 kg		2	A N				
4 inch, 36 inch, A=45 inch (1 143 mm), 10.80 kg		2	A U				
4 inch, 42 inch, A=51 inch (1 295 mm), 12.34 kg		2	B D				
4 inch, 48 inch, A=57 inch (1 448 mm), 13.89 kg		2	вк				
4 inch, 54 inch, A=63 inch (1 600 mm), 15.42 kg		2	B R				
4 inch, 60 inch, A=69 inch (1 753 mm), 16.97 kg		2 (CA				
4 inch, 66 inch, A=75 inch (1 905 mm), 18.52 kg		2 (C G				
4 inch, 72 inch, A=81 inch (2 057 mm), 20.07 kg		2 (C N				
4 inch, 78 inch, A=87 inch (2 210 mm), 21.62 kg		2 (C U				
4 inch, 84 inch, A=93 inch (2 362 mm), 23.17 kg		2	D D				
4 inch, 90 inch, A=99 inch (2 515 mm), 24.72 kg		2	DΚ				
4 inch, 96 inch, A=105 inch (2 667 mm), 26.27 kg		2	D R				
Fabrication							
Standard, C5-M rated polyester painted mild steel				1			

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