

Belt Weighing

Accessories

Test chain

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).

Benefits

- Heavy-duty design for rugged applications and long life
- Precision machined components for accurate calibration
- Bushed rollers to ensure rotation during calibration
- Alternative to material tests when they are not possible

Application

Milltronics calibration test chains provide simulated material flow on a conveyor belt for use with belt scale calibration. Designed for use in environments where material tests cannot be performed, test chains come in a variety of capacity options for use in any application. They ensure constant and uniform belt loading similar to material being conveyed, and can be stored on a storage reel for quick and easy application. The use of a calibration test chain ensures that production totals are guaranteed.

Selection and ordering data

Test chain	Article No.				
Roller test chains are used for belt scale calibration when material tests are not practical.	7MH7161-	0	●	●	●
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Test chain: roller test chains are used for belt scale calibration when material tests are not practical.					
<u>5 lb/ft (7.4 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			A	A	1
8 ... 11 ft (2.4 ... 3.4 m)			A	A	2
12 ... 15 ft (3.7 ... 4.6 m)			A	A	3
16 ... 19 ft (4.9 ... 5.8 m)			A	A	4
20 ... 23 ft (6.1 ... 7.0 m)			A	A	5
24 ... 27 ft (7.3 ... 8.2 m)			A	A	6
28 ... 31 ft (8.5 ... 9.4 m)			A	A	7
32 ... 35 ft (9.8 ... 10.7 m)			A	A	8
<u>7.5 lb/ft (11.2 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			B	B	1
8 ... 11 ft (2.4 ... 3.4 m)			B	B	2
12 ... 15 ft (3.7 ... 4.6 m)			B	B	3
16 ... 19 ft (4.9 ... 5.8 m)			B	B	4
20 ... 23 ft (6.1 ... 7.0 m)			B	B	5
24 ... 27 ft (7.3 ... 8.2 m)			B	B	6
28 ... 31 ft (8.5 ... 9.4 m)			B	B	7
32 ... 35 ft (9.8 ... 10.7 m)			B	B	8
<u>10 lb/ft (14.9 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			C	C	1

Selection and ordering data (Continued)

Test chain	Article No.				
Roller test chains are used for belt scale calibration when material tests are not practical.	7MH7161-	0	●	●	●
		0	●	●	0
8 ... 11 ft (2.4 ... 3.4 m)			C	C	2
12 ... 15 ft (3.7 ... 4.6 m)			C	C	3
16 ... 19 ft (4.9 ... 5.8 m)			C	C	4
20 ... 23 ft (6.1 ... 7.0 m)			C	C	5
24 ... 27 ft (7.3 ... 8.2 m)			C	C	6
28 ... 31 ft (8.5 ... 9.4 m)			C	C	7
32 ... 35 ft (9.8 ... 10.7 m)			C	C	8
<u>15 lb/ft (22.3 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			D	D	1
8 ... 11 ft (2.4 ... 3.4 m)			D	D	2
12 ... 15 ft (3.7 ... 4.6 m)			D	D	3
16 ... 19 ft (4.9 ... 5.8 m)			D	D	4
20 ... 23 ft (6.1 ... 7.0 m)			D	D	5
24 ... 27 ft (7.3 ... 8.2 m)			D	D	6
28 ... 31 ft (8.5 ... 9.4 m)			D	D	7
32 ... 35 ft (9.8 ... 10.7 m)			D	D	8
<u>20 lb/ft (29.8 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			E	E	1
8 ... 11 ft (2.4 ... 3.4 m)			E	E	2
12 ... 15 ft (3.7 ... 4.6 m)			E	E	3
16 ... 19 ft (4.9 ... 5.8 m)			E	E	4
20 ... 23 ft (6.1 ... 7.0 m)			E	E	5
24 ... 27 ft (7.3 ... 8.2 m)			E	E	6
28 ... 31 ft (8.5 ... 9.4 m)			E	E	7
32 ... 35 ft (9.8 ... 10.7 m)			E	E	8
<u>25 lb/ft (37.2 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			F	F	1
8 ... 11 ft (2.4 ... 3.4 m)			F	F	2
12 ... 15 ft (3.7 ... 4.6 m)			F	F	3
16 ... 19 ft (4.9 ... 5.8 m)			F	F	4
20 ... 23 ft (6.1 ... 7.0 m)			F	F	5
24 ... 27 ft (7.3 ... 8.2 m)			F	F	6
28 ... 31 ft (8.5 ... 9.4 m)			F	F	7
32 ... 35 ft (9.8 ... 10.7 m)			F	F	8
<u>30 lb/ft (44.6 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			G	G	1
8 ... 11 ft (2.4 ... 3.4 m)			G	G	2
12 ... 15 ft (3.7 ... 4.6 m)			G	G	3
16 ... 19 ft (4.9 ... 5.8 m)			G	G	4
20 ... 23 ft (6.1 ... 7.0 m)			G	G	5
24 ... 27 ft (7.3 ... 8.2 m)			G	G	6
28 ... 31 ft (8.5 ... 9.4 m)			G	G	7
32 ... 35 ft (9.8 ... 10.7 m)			G	G	8
<u>35 lb/ft (52.1 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			H	H	1
8 ... 11 ft (2.4 ... 3.4 m)			H	H	2
12 ... 15 ft (3.7 ... 4.6 m)			H	H	3
16 ... 19 ft (4.8 ... 5.8 m)			H	H	4
20 ... 23 ft (6.1 ... 7.0 m)			H	H	5
24 ... 27 ft (7.3 ... 8.2 m)			H	H	6
28 ... 31 ft (8.5 ... 9.4 m)			H	H	7
32 ... 35 ft (9.8 ... 10.7 m)			H	H	8
<u>40 lb/ft (59.5 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			J	J	1
8 ... 11 ft (2.4 ... 3.4 m)			J	J	2
12 ... 15 ft (3.7 ... 4.6 m)			J	J	3
16 ... 19 ft (4.9 ... 5.8 m)			J	J	4

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Selection and ordering data (Continued)

Test chain	Article No.				
Roller test chains are used for belt scale calibration when material tests are not practical.	7MH7161-	0	●	●	●
		0	●	●	0
20 ... 23 ft (6.1 ... 7.0 m)			J	J	5
24 ... 27 ft (7.3 ... 8.2 m)			J	J	6
28 ... 31 ft (8.5 ... 9.4 m)			J	J	7
32 ... 35 ft (9.8 ... 10.7 m)			J	J	8
<u>45 lb/ft (67.0 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			K	K	1
8 ... 11 ft (2.4 ... 3.4 m)			K	K	2
12 ... 15 ft (3.7 ... 4.6 m)			K	K	3
16 ... 19 ft (4.9 ... 5.8 m)			K	K	4
20 ... 23 ft (6.1 ... 7.0 m)			K	K	5
24 ... 27 ft (7.3 ... 8.2 m)			K	K	6
28 ... 31 ft (8.5 ... 9.4 m)			K	K	7
32 ... 35 ft (9.8 ... 10.7 m)			K	K	8
<u>50 lb/ft (74.4 kg/m), 4 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			L	L	1
8 ... 11 ft (2.4 ... 3.4 m)			L	L	2
12 ... 15 ft (3.7 ... 4.6 m)			L	L	3
16 ... 19 ft (4.9 ... 5.8 m)			L	L	4
20 ... 23 ft (6.1 ... 7.0 m)			L	L	5
24 ... 27 ft (7.3 ... 8.2 m)			L	L	6
28 ... 31 ft (8.5 ... 9.4 m)			L	L	7
32 ... 35 ft (9.8 ... 10.7 m)			L	L	8
<u>60 lb/ft (89.3 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			N	N	1
8 ... 11 ft (2.4 ... 3.4 m)			N	N	2
12 ... 15 ft (3.7 ... 4.6 m)			N	N	3
16 ... 19 ft (4.9 ... 5.8 m)			N	N	4
20 ... 23 ft (6.1 ... 7.0 m)			N	N	5
24 ... 27 ft (7.3 ... 8.2 m)			N	N	6
28 ... 31 ft (8.5 ... 9.4 m)			N	N	7
32 ... 35 ft (9.8 ... 10.7 m)			N	N	8
<u>70 lb/ft (104.2 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			P	P	1
8 ... 11 ft (2.4 ... 3.4 m)			P	P	2
12 ... 15 ft (3.7 ... 4.6 m)			P	P	3
16 ... 19 ft (4.9 ... 5.8 m)			P	P	4
20 ... 23 ft (6.1 ... 7.0 m)			P	P	5
24 ... 27 ft (7.3 ... 8.2 m)			P	P	6
28 ... 31 ft (8.5 ... 9.4 m)			P	P	7
32 ... 35 ft (9.8 ... 10.7 m)			P	P	8
<u>80 lb/ft (119.1 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			Q	Q	1
8 ... 11 ft (2.4 ... 3.4 m)			Q	Q	2
12 ... 15 ft (3.7 ... 4.6 m)			Q	Q	3
16 ... 19 ft (4.9 ... 5.8 m)			Q	Q	4
20 ... 23 ft (6.1 ... 7.0 m)			Q	Q	5
24 ... 27 ft (7.3 ... 8.2 m)			Q	Q	6
28 ... 31 ft (8.5 ... 9.4 m)			Q	Q	7
32 ... 35 ft (9.8 ... 10.7 m)			Q	Q	8
<u>90 lb/ft (133.9 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			R	R	1
8 ... 11 ft (2.4 ... 3.4 m)			R	R	2
12 ... 15 ft (3.7 ... 4.6 m)			R	R	3
16 ... 19 ft (4.9 ... 5.8 m)			R	R	4
20 ... 23 ft (6.1 ... 7.0 m)			R	R	5
24 ... 27 ft (7.3 ... 8.2 m)			R	R	6
28 ... 31 ft (8.5 ... 9.4 m)			R	R	7

Selection and ordering data (Continued)

Test chain	Article No.				
Roller test chains are used for belt scale calibration when material tests are not practical.	7MH7161-	0	●	●	●
32 ... 35 ft (9.8 ... 10.7 m)			R	R	8
<u>100 lb/ft (148.8 kg/m), 6 inch pitch</u>					
4 ... 7 ft (1.2 ... 2.1 m)			S	S	1
8 ... 11 ft (2.4 ... 3.4 m)			S	S	2
12 ... 15 ft (3.7 ... 4.6 m)			S	S	3
16 ... 19 ft (4.9 ... 5.8 m)			S	S	4
20 ... 23 ft (6.1 ... 7.0 m)			S	S	5
24 ... 27 ft (7.3 ... 8.2 m)			S	S	6
28 ... 31 ft (8.5 ... 9.4 m)			S	S	7
32 ... 35 ft (9.8 ... 10.7 m)			S	S	8

Selection and ordering data	Order Code
Further models	
Please add "-Z" to article no. and specify order codes(s)	
Total length	
Enter the total length in plain text description: Y01: Total length ... mm (must be equivalent to whole feet, e.g. 1 ft = 304.8 mm)	Y01
Operating instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/weighing/documentation	

Technical specifications

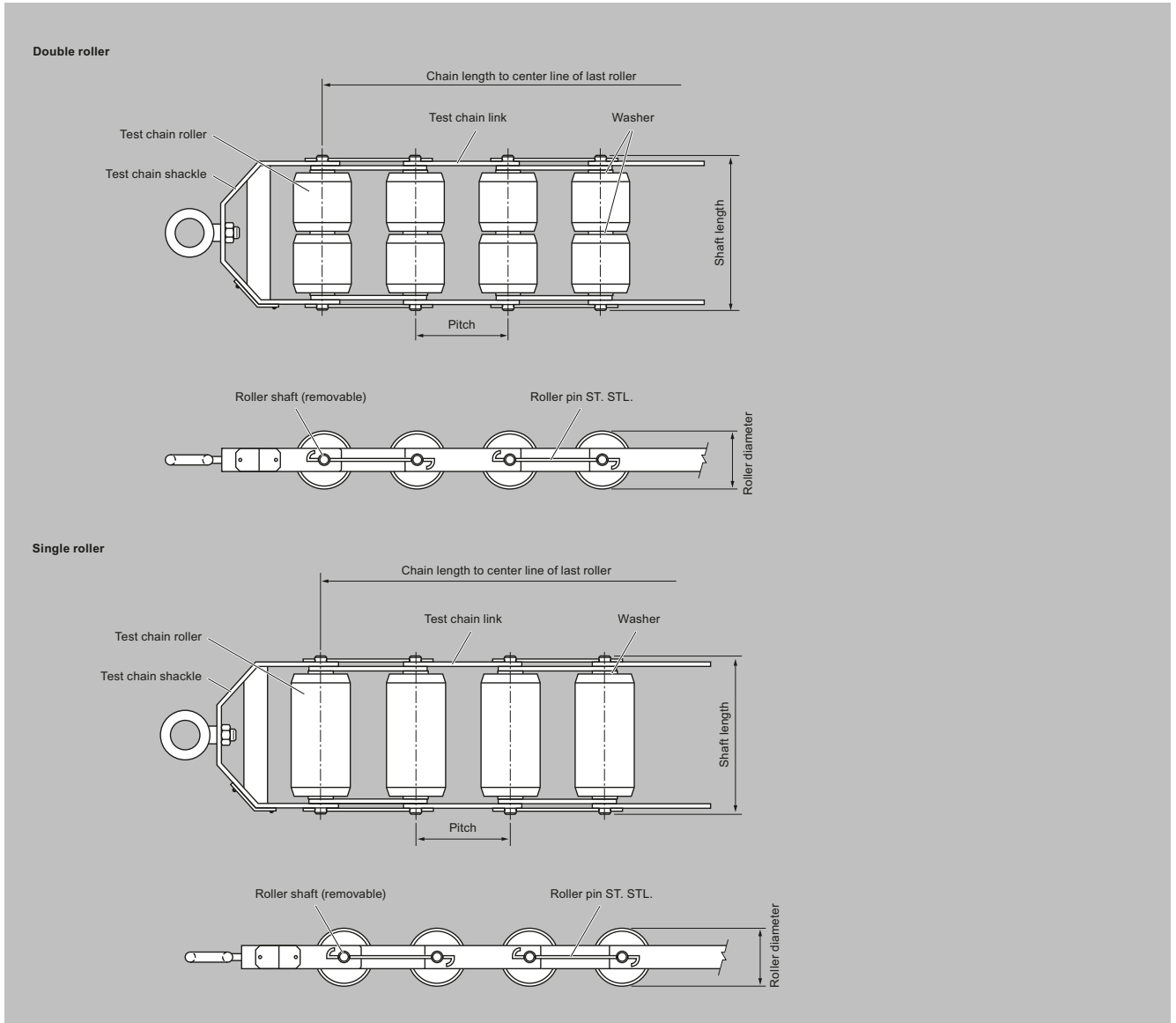
Test chain	
Mode of operation	
Principle of operation	Rides on carrying side of belt to simulate material loading
Medium conditions	
Max. ambient temperature	65 °C (150 °F)
Design	
Belt loading to meet any application	5 lb/ft (7.4 kg/m) ... 100 lb/ft (148.8 kg/m)
Length	Made to suit conveyor design
Idler	Flat to 45° troughed idlers
Max belt speed	5 m/s 1 000 fpm
Mounting	Connected to conveyor at start and end of chain at both sides for uniform loading. Storage and application with test chain storage reel.
Approvals	CE, UKCA, RCM, EAC, KC

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Dimensional drawings



Milltronics test chain dimensions