

5000M-WI

WIRELESS LOAD SHACKLES

Wireless load-measuring shackles designed to measure tension force.



Model 5000M-WI - 20 t



Features

- o Sturdy design
- o Protection class: IP65
- o Easy to install
- o Load pin material: stainless steel
- o Standard dimensions
- o Frequencies: from 2.4000 to 2.4835 GHz
- o Power: 10 mW, licence: exempted
- o Range: 500 m open field (antenna integrated)
- o Sleep mode, remote wake-up mode, remote control of batteries
- o Not appropriate for overload protection

Most popular options



Ex i



Application(s)

SENSY's wireless load shackles 5000M-WI are perfectly designed for the following applications:

- Load display on hoisting devices and EOT cranes,
- Industrial weighing / force measurement on test benches,
- Theater rigging equipment,
- Mooring - tow forces measurement / Winches monitoring, agriculture machinery, general machinery, test benches.

Capacities

from 1 t to 400 t

Specifications	SL - FORCE	SL - HOIST	
Combined error (non-linearity + hysteresis)	0.25 - 1**	0.5 - 2**	% F.S.*
Repeatability error	<± 0.25	<± 0.25	% F.S.*
Creep error over 30 min.	<± 0.3	<± 0.3	% F.S.*
Reference temperature	23	23	°C
Compensated temperature range	-10...+45	-10...+45	°C
Service temperature range	-25...+70	-25...+70	°C
Storage temperature range	-50...+85	-50...+85	°C
Temperature coefficient of the sensitivity	<± 0.2	<± 0.2	% F.S./10°C
Temperature coefficient of zero signal	<± 0.2	<± 0.2	% F.S./10°C
Nominal sensitivity	± 1.5	± 1	mV/V
Reference excitation voltage	3 VDC (2 x AA batteries)	3 VDC (2 x AA batteries)	-
Consumption	65 mA	65 mA	-
Current @ stand-by mode	20	20	µA
Autonomy @ normal mode (2 batteries)	1 month	1 month	-
Autonomy @ 12 x 5mn/day mode (2 D batteries)	2	2	years
Safe load limit	150	200	% F.S.*
Breaking load	> 300	> 500	% F.S.*
Permissible dynamic loading	50	75	% F.S.*
Static lateral force limit	100	150	% F.S.*

* F.S. : Full Scale.

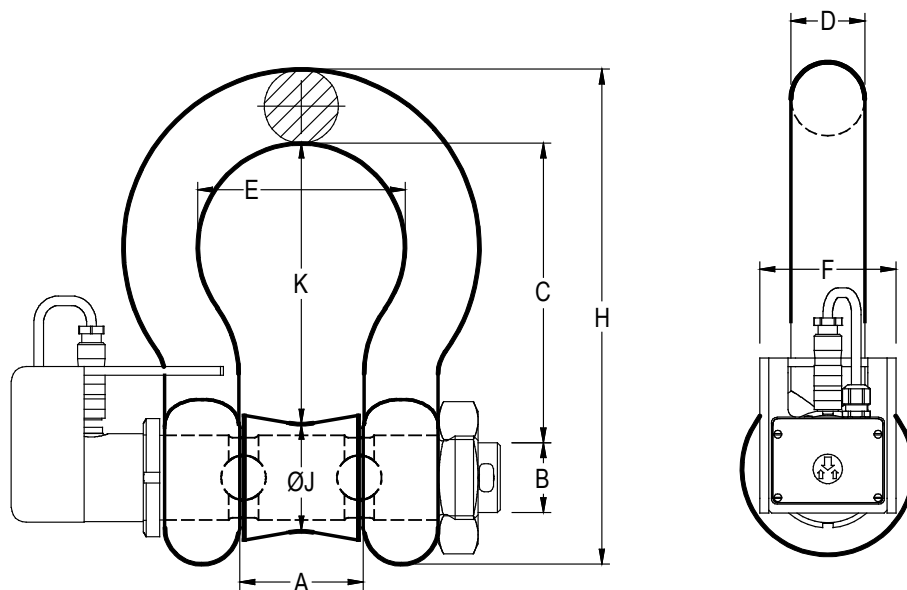
** Typical range of accuracy, depending on design and dimensions.

Specifications subject to change without notice.



ISO 9001 certified

5000M-WI > STANDARD DIMENSIONS



Ref. Item	Capacities			D		A	B	C	E	F	H	ØJ	K	Tolerances C & K	Total weight (kg)
	Force		Hoist	(mm)	(inch)										
	Standard > 300 %**	Extended capacity* > 300 %**	> 500 %**												
5000M-WI-3/4"	2.5 t	3 t	1.5 t	19	3/4"	31.8±2.2	22.5	71.5	51	93±3	126±8.6	34	65	±6.4	3
5000M-WI-7/8"	4 t	6 t	2.5 t	22	7/8"	36±2.2	25	83	58	93±3	143.5±8.6	35.5	78	±6.4	3.5
5000M-WI-1"	6 t	8 t	4 t	25	1"	43±2.4	28	95	68	93±3	163.5±8.6	37	90.5	±6.4	4
5000M-WI-1" 1/8	8 t	10 t	5 t	28	1 1/8"	47±2.4	32	108	75	93±3	185±8.9	40	104	±6.4	5
5000M-WI-1" 1/2	12 t	15 t	8 t	38	1 1/2"	60±4	42	146	99	93±3	249±9.9	54	140	±6.4	12
5000M-WI-1" 3/4	16 t	25 t	12 t	45	1 3/4"	74±4	50	178	126	106	299.5±11.2	65	171	±6.4	19
5000M-WI-2"	30 t	40 t	20 t	50	2"	83±4.2	57	197	138	122	331±17.5	72	189.5	±12.7	28
5000M-WI-2" 1/2	40 t	50 t	30 t	65	2 1/2"	105±4.7	70	260	180	145	432.5±18.7	90	250	±12.7	52
5000M-WI-3"	60 t	75 t	45 t	75	3"	127±5	83	329	190	165	526.5±26	105	318	±19	90
5000M-WI-3" 3/4	90 t	125 t	60 t	95	3 3/4"	147±5	95	400	238	208	647±25	117	389	±19	150
5000M-WI-4" 1/8	100 t	150 t	75 t	105	4 1/8"	169±5	108	410	275	240	688±18	130	399	±12	190
5000M-WI-5" 1/8	200 t	300 t	120 t	130	5 1/8"	205±6	140	554	305	308	904±22	165	541.5	±14	320
5000M-WI-6" 11/16	300 t	400 t	200 t	170	6 11/16"	231±6	175	668	325	387	1114±27	200	655	±18	585

* Very resistant load cell, special design

** Breaking load (% full scale)

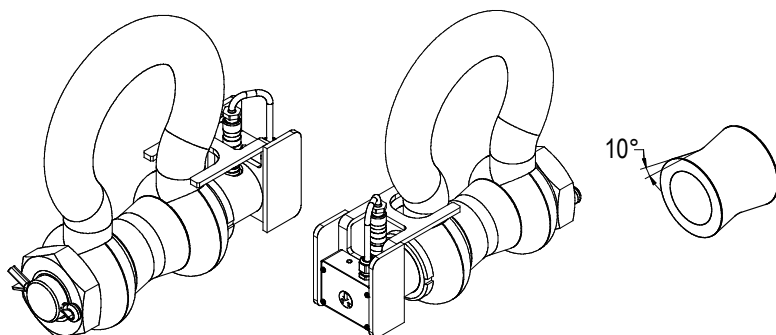
→ Other capacities and dimensions available on request

Dimensions in mm

Other views

Wiring

Not applicable



Load direction

