

# LOAD LINK



#### Features:

- 13 Load Link designs from 5Te to 500Te as standard other capabilities on request.
- Robust, Lightweight, High Tensile aluminium design using high grade material.
- Wireless and cabled options available.
- Internal Antenna on all wireless models.
- Fits all major shackle manufacturers including Van Beest, Crosby and GN Rope.
- Load Links designed to be rigged & operational with a Working Load Link (WLL) of the same capacity.
- Safety Factor of 5:1
- Accuracy <0.5% of applied load.
- · Matched handheld telemetry display.
- Data logging software available.
- ATEX versions available for Zones 0, 1, & 2.
- Subsea variants available on request.
- · Every unit load tested and certified.
- Designed & Manufactured at Power Jacks in the UK.



Accurate and reliable tensile load monitoring for lifting applications.

Suitable for all industry sectors including Marine, Offshore and Subsea.

Ideal for mobile applications and services.

Retro-fit load monitoring to existing applications where shackles already available

Wireless and Cable versions

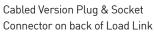
## **Applications**

For lifting and static systems in:

- Under-hook crane weighing
- Cable Tension monitoring
- Crane / Hoist Load Testing
- Water Weight/Bag Calibration
- Warehouse despatch weighing
- Beam Proof Load Testing
- Towing load monitoring
- Mooring load monitoring
- Crane safe load monitoring
- Anchor line tension monitoring
- Static wireline tension
- Crane Load Calibration
- Subsea Vehicle Lifting
- Onshore and Offshore wind turbine installation



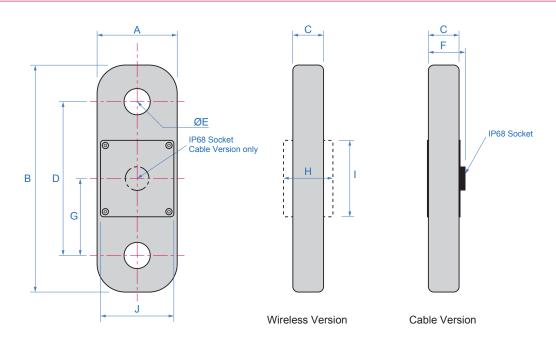






Removable battery access panel on rear of Wireless Load Link

Overload Tested (Proof Load)         150% Rated Load           Mnimm Breaking Load (MBL)         500Te         450% Rated Load           Dead Load Offset         47-0.1 mV           Accuracy         47-0.1 mV         450 Applied Load           Repeatability         - x7-0.1% of applied load         450 Applied Load           Hysteresis up to FS         Minimal         000 Applied Load           Operating temperature         - 20°C to +70°C         150 Applied Load           Environmental Rating         1867         1867           Range         200m         1867           Antenna (Wireless Version)         1867         1860           Cabled Version Output Signats         2.4 Ghz; Worldwide Licence Free           Cabled Version Output Signats         4-20mA in 2 or 3 wire output with 10-30VDC supply           Cable Version Connection Type         Load Link with Plug-in Socket and 15m, 4-core screened PUR cable with matched plug-in connector fitted. Other types available on request.           Batteries: 2 x L. 1.5 Vor 12.5 Fe-500TL Load Link (2000+ hours (continuous)         Provides 1 year of use based on 8 hour per day, Reducing the requirement to change batteries between calibrations.           Calibration         12 months (calibration service available)           Material         12 months (calibration service available)           Material         Hard Anod	Main Features						
Minimum Breaking Load (MBL)   500Te	Overload Tested (Proof Load)		150% Rated Load				
Softe   A50% Rated Load   A50% of Applied Load   A	Minimum Deselli I I (MDL)	5Te to 400Te	500% Rated Load				
Accuracy	Minimum Breaking Load (MBL)	500Te	450% Rated Load				
Repeatability  - +/- 0.1% of applied load  Hysteresis up to FS	Dead Load Offset		+/- 0.1mV				
Hysteresis up to FS Operating temperature - 20°C to +70°C Environmental Rating - 20°C to +70°C Environmental Rating - 20°C to +70°C Environmental Rating - 20°C m Transmit rate - 20°C	Accuracy		< 0.5% of Applied Load				
P67   P70°C	Repeatability		< +/- 0.1% of applied load				
Environmental Rating Range 200m Range 200m Transmit rate Antenna [Wireless Version] Radio [Wirel	Hysteresis up to FS		Minimal				
Range   200m  Transmit rate   900ms (standard)  Antenna [Wireless Version]   1.1 Internal  Radio [Wireless Version]   2.4 Ghz; Worldwide Licence Free    Cabled Version Output Signals   2.2 Ghz; Worldwide Licence Free    Analogue Signals   4.20mA in 2 or 3 wire output with 10-30VDC supply   0.5VDC or 0-10VDC 3-wire output with 10-30VDC supply   0.5VDC 3-wire output with 10	Operating temperature		-20°C to +70°C				
Transmit rate 900ms (standard)  Antenna [Wireless Version] 2.4 Ghz; Wortdwide Licence Free  Analogue Signals 4-20mA in 2 or 3 wire output with 10-30VDC supply 0-5VDC or 0-10VDC 3-wire output	Environmental Rating		IP67				
Antenna (Wireless Version) Radio (Wireless Version) Cabled Version Output Signals Cabled Version Output Signals Cabled Version Output Signals Analogue Signals RS232 with a protocol of your choice with 5-20VDC supply Digital Signals RS232 with a protocol of your choice with 5-20VDC supply RS485 with a protocol of your choice with	Range		200m				
Radio (Wireless Version)  2.4 Ghz; Wortdwide Licence Free  Cabled Version Output Signals  Analogue Signals  4-20mA in 2 or 3 wire output with 10-30VDC supply 0-5VDC or 0-10VDC 3-wire output with 10-30VDC supply RS485 with a protocol of your choice with 5-20VDC supply RS485 with	Transmit rate		900ms (standard)				
Cabled Version Output Signals  Analogue Signals  4-20mA in 2 or 3 wire output with 10-30VDC supply 0-5VDC or 0-10VDC 3-wire output with 10-30VDC supply Digital Signals R5232 with a protocol of your choice with 5-20VDC supply R5485 with a protocol of your choice with 5-20VDC supply R5485 with a protocol of your choice with 5-20VDC supply R5485 with a protocol of your choice with 5-20VDC supply Load link with Plug-in Socket and 15m, 4-core screened PUR cable with matched plug-in connector fitted. Other types available on request.  Batteries: 2 x AAA 1.5V for 5Te Load Link @ 500+ hours (continuous) Batteries: 2 x C 1.5V for 12.5Te-500Te Load Link @ 200+ hours (continuous) Provides 1 year of use based on 8 hour per day. Reducing the requirement to change batteries between calibrations.  Display  2 x AA1.5V batteries @ 40 hours (continuous)  12 months (calibration service available) Lightweight, High Tensile Grade Aluminium Finish  Hard Anodised for Marine Environments  Traceability and Safety Compliance  BS EN 150 75001-12004 BS 8422:2004 BS 8422:2004 BS 8422:2004 BS 8422:2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest  G-4163, P6036 Safety bow  GN Rope  H9 & H10 Safety Bow  Crosby  G2130, G2140  ATEX Options	Antenna (Wireless Version)		Internal				
A-20MA in 2 or 3 wire output with 10-30VDC supply	Radio (Wireless Version)		2.4 Ghz; Worldwide Licence Free				
Battery Type / Lifespan  Load Cells  Batteries: 2 x AAA 1.5V for 5Te Load Link @ 500+ hours (continuous)  Batteries: 2 x C 1.5V for 12.5Te-500Te Load Link @ 2000+ hours (continuous)  Provides 1 year of use based on 8 hour per day. Reducing the requirement to change batteries between calibrations.  Display  2 x AA1.5V batteries @ 40 hours (continuous)  12 months (calibration service available)  Material  Finish  Hard Anodised for Marine Environments  Traceability and Safety Compliance  BS EN ISO 7500-1:2004  BS 8422:2003  Loler Statutory Instrument 1998, No. 2307  Machinery Directive 2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest  G-4163, P6036 Safety bow  GN Rope  H9 & H10 Safety Bow  Crosby  ATEX Options	Cabled Version Output Signals		4-20mA in 2 or 3 wire output with 10-30VDC supply 0-5VDC or 0-10VDC 3-wire output with 10-30VDC supply Digital Signals RS232 with a protocol of your choice with 5-20VDC supply				
Battery Type / Lifespan  Load Cells  Batteries: 2 x C 1.5V for 12.5Te-500Te Load Link (d 2000+ hours (continuous) Provides 1 year of use based on 8 hour per day. Reducing the requirement to change batteries between calibrations.  Display  2 x AA1.5V batteries @ 40 hours (continuous)  12 months (calibration service available)  Material  Lightweight, High Tensile Grade Aluminium  Finish  Hard Anodised for Marine Environments  Traceability and Safety Compliance  BS EN ISO 7500-1:2004 BS 8422:2003 Loler Statutory Instrument 1998, No. 2307 Machinery Directive 2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest  G-4163, P6036 Safety bow  GN Rope  H9 & H10 Safety Bow  Crosby  ATEX Options	Cable Version Connection Type		, ,				
Battery Type / Lifespan    Codd Cetts   Provides 1 year of use based on 8 hour per day. Reducing the requirement to change batteries between calibrations.   Display   2 x AA1.5V batteries @ 40 hours (continuous)			Batteries: 2 x AAA 1.5V for 5Te Load Link @ 500+ hours (continuous)				
Calibration 12 months (calibration service available)  Material Lightweight, High Tensile Grade Aluminium  Finish Hard Anodised for Marine Environments  Traceability and Safety Compliance BS EN ISO 7500-1:2004 BS 8422:2003 Loler Statutory Instrument 1998, No. 2307 Machinery Directive 2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest G-4163, P6036 Safety bow GN Rope H9 & H10 Safety Bow Crosby G2130, G2140  ATEX Options	Battery Type / Lifespan	Load Cells	Provides 1 year of use based on 8 hour per day. Reducing the requirement to change				
Material Lightweight, High Tensile Grade Aluminium  Finish Hard Anodised for Marine Environments  Traceability and Safety Compliance BS EN ISO 7500-1:2004 BS 8422:2003 Loler Statutory Instrument 1998, No. 2307 Machinery Directive 2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest G-4163, P6036 Safety bow GN Rope H9 & H10 Safety Bow Crosby G2130, G2140  ATEX Options		Display	2 x AA1.5V batteries @ 40 hours (continuous)				
Finish Hard Anodised for Marine Environments  Traceability and Safety Compliance  BS EN ISO 7500-1:2004 BS 8422:2003 Loler Statutory Instrument 1998, No. 2307 Machinery Directive 2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest  G-4163, P6036 Safety bow  GN Rope  H9 & H10 Safety Bow  Crosby  G2130, G2140  ATEX Options	Calibration		12 months (calibration service available)				
Traceability and Safety Compliance  BS EN ISO 7500-1:2004 BS 8422:2003 Loler Statutory Instrument 1998, No. 2307 Machinery Directive 2006/42/EC (SI 2008/1597)  Shackle Compatibility (include):  Van Beest G-4163, P6036 Safety bow GN Rope H9 & H10 Safety Bow Crosby G2130, G2140  ATEX Options	Material		Lightweight, High Tensile Grade Aluminium				
BS 8422:2003 Loler Statutory Instrument 1998, No. 2307 Machinery Directive 2006/42/EC [SI 2008/1597]  Shackle Compatibility (include):  Van Beest G-4163, P6036 Safety bow GN Rope H9 & H10 Safety Bow Crosby G2130, G2140  ATEX Options	Finish						
Van Beest         G-4163, P6036 Safety bow           GN Rope         H9 & H10 Safety Bow           Crosby         G2130, G2140   ATEX Options	Traceability and Safety Compliance		BS 8422:2003 Loler Statutory Instrument 1998, No. 2307				
GN Rope H9 & H10 Safety Bow Crosby G2130, G2140  ATEX Options	Shackle Compatibility (include):						
Crosby G2130, G2140 ATEX Options	Van Beest		G-4163, P6036 Safety bow				
ATEX Options	GN Rope		H9 & H10 Safety Bow				
	Crosby		G2130, G2140				
Zone 2 Standard Ontions (Wireless and Cabled)	ATEX Options						
Standard Options (Windless and Oabled)	Zone 2		Standard Options (Wireless and Cabled)				
Zone 1 Cabled Options - Consult LMS for more details	Zone 1		Cabled Options - Consult LMS for more details				
Zone 0 Stainless Steel Construction, Cabled Options – Consult LMS for more details	Zone 0		Stainless Steel Construction, Cabled Options – Consult LMS for more details				



Capacity (Tonne)	5	12.5	25	35	50	75	100	150	200	250	300	400	500
Dimensions (mm)													
А	84	143	143	157	183	198	220	272	331	395	472	550	570
В	238	366	382	436	470	518	590	695	769	879	977	1037	1137
С	32	45	62	70	75	104	124	150	165	177	182	182	225
D	162	256	238	256	286	310	350	395	419	469	517	547	607
ØE	27	40	55	61	75	86	100	118	135	145	158	180	190
F	50	63	80	88	93	122	142	168	173	195	200	200	243
G	81	128	119	128	143	155	175	197.5	209.5	234.5	258.5	273.5	303.5
Н	52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
To fit Shackle Size (Tonne)	6.5	13.5	25	35	55	85	120	150	200	250	300	400	500
Weight (kg)	1.5	6	8	12	15	23	37	63	93	135	186	228	322
Suggested Safety Bo	Suggested Safety Bow Shackles												

Suggested Safety Bow Shackles						
Van Beest	G4163	P6036				
GN Rope	Н9	H10				
Crosby	G2130 to G2140					

### **Cable Version Plug Details**

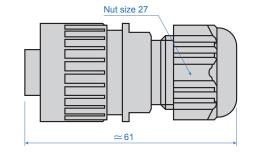
IP68 Plug Connector

Pin 1 = Power +ve

Pin 2 = Power -ve

Pin 3 = Signal +ve

Pin 4 = Signal -ve





### Handheld Load Cell Telemetry Display



- Matched for use with our load link.
- Simple to use keypad with multidigit, 9mm LCD display
- Calibrated in Tonne with kg resolution accuracy (alternative weighing units on request e.g. kg, lb, kN)
- Worldwide licence exempt 2.4GHz radio
- Low power consumption for longer battery life
- 2 x AA 1.5V batteries @ 40 hours (continuous)
- Enclosure: IP65
- RS232 output available on request.
- Displays for cabled load links available on request.

### **Data Logging**



- Monitor up to 100 load cells simultaneously.
- Data can be transmitted to Local PC for immediate display.
- Live logging and graph display
- Exportable to Excel
- User can plot graph, capture peak loads and analyse data for producing reports and presentations.
- MS Windows based
- Standard product uses discrete USB powered Base station so that no hardware installation required.
- Access your data anywhere on any device via the built in web server.

#### Load Link Carry Case



## Portable Made Easy with our Load Link Carry Case

- Rugged carry case with metal frame.
- Foam inserts to firmly hold load link, telemetry display and spare set of batteries.
- Space inside to store connecting cable for wired units and matched set of shackles.
- Lockable case.
- Available for 5Te to 100Te load link sizes.