



**AUSTRALIAN  
WEIGHING  
EQUIPMENT**

*Weigh ahead in Weighing*

PRODUCT GUIDE

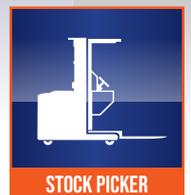
# CHAIN LOAD CELL SYSTEM



- High Accuracy  $\pm 0.5\%$  of machine capacity
- Load Cell integrated into the fork truck lifting chains
- Choice of indicators depending on your needs



Suitable for use with





## Chain Load Cell System

### ■ ABOUT THE “CHAIN LOAD CELL SYSTEM”

The ‘CHAIN LOAD CELL SYSTEM’ is a simple and versatile scale that is suitable for most forklifts, reach trucks, stock pickers and side loaders.

The system is capable of sensing weight with an amazing  $\pm 0.5\%$  accuracy of machine capacity. This information is displayed on your choice of indicator:

- **Safe Weigh Indicator** - our entry level digital indicator with basic functionality
- **Weight Master Totaliser** - our premium digital indicator with numerous functions such as add in, subtract out, total and auto add



Load Cell fitted to lifting chains in a forklift

Enjoy the benefits of installing the ‘Chain Sensor System’ to your machines, including:

- Improved safety and adhere to CoR & SOLAS standards
- Quicker and more efficient materials handling
- Eliminate overload fines on loaded trucks
- Check consignment weights and incoming/outgoing goods
- Avoid trips to the weighbridge or platform scales
- Prevent machinery and racking overloading

## High accuracy weighing system with a range of indicators and safety add-ons available.

### ■ FEATURES & BENEFITS

- $\pm 0.5\%$  accuracy of machine capacity
- No loss of lifting capacity
- Rubber-mounted bracket
- Rugged electronic design
- Australian designed and manufactured
- Digital backlit display
- Internal reeving kits included
- Suits most chain types, and custom designs are available
- Weatherproof housing
- Continuous weight read-out
- Proof loaded to 300% of capacity
- Compatible with ‘Weight Master Totaliser’ and ‘Safe Weigh’ indicators
- Wide range power supply designed for mobile equipment 9VDC to 70VDC



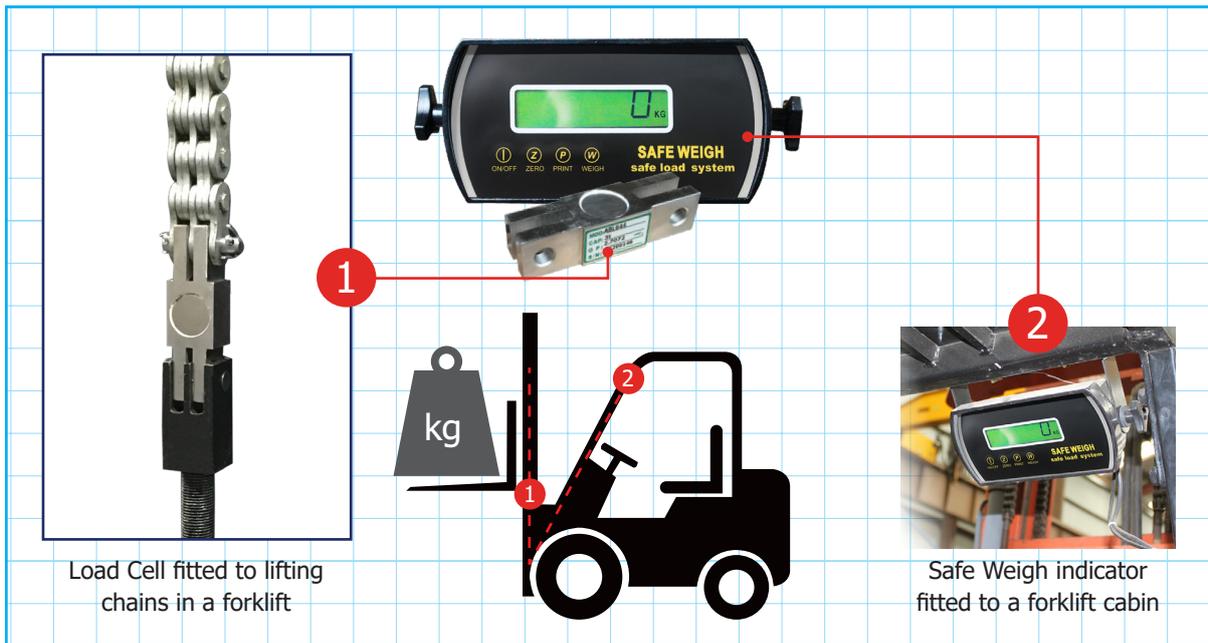
# Chain Load Cell System

## ■ HOW THE CHAIN LOAD CELL SYSTEM WORKS

The 'Chain Sensor System' load cell is fitted as a replacement link in the lifting chains of the forklift. When a load is lifted, the load cell senses the tension in the chain and sends data to the indicator mounted

near the controls. A weight reading is then displayed on the indicator for the operator to view.

This system can be paired with either a "Safe Weigh" indicator or a "Weight Master Totaliser" indicator.



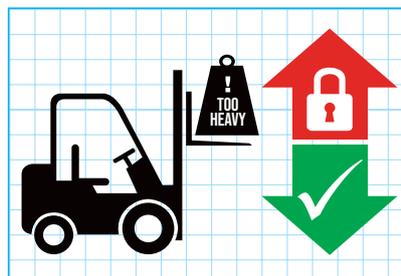
## ■ PRINTER AND ALARM OPTIONS

AWE offers a range of additional accessories which can be paired with the Safe Weigh instrument. These accessories help customise your scale to better suit your workplace applications. Our safety accessories are a great solution to

prevent machinery overloading by operators - an event which can have serious consequences to machinery and operators.

### Blue Tongue 2.0 Printer

Produce hard copies of your weight readings with this compact printer. Comes with a swivel mount allowing easy mounting in your cabin. It is hardwired to your machine so no need to ever change batteries.

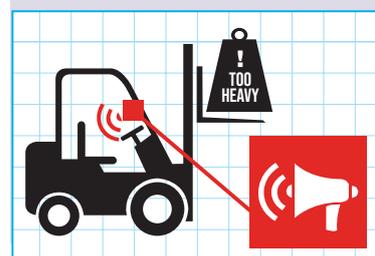


### Hydraulic Bypass

The ultimate safeguard against overloading your forklift. When a lifted load exceeds the forklift's capacity, the forklift will stop lifting - only allowing the load to be lowered. The capacity ratings are adjusted based on load centre principles.

### Red Light / Overload Alarm

A red light and/or audible alarm can be fitted to your scale as an extra safety device. These features are activated when the forklift exceeds the safe working load to alert an operator.





■ **SPECIFICATIONS**

Type	Digital load cell technology with microprocessor control	
Applications	Suitable for most forklifts, reach trucks, stock pickers and side loaders	
Accuracy	±0.5% of capacity (e.g if lift capacity is 1000kg then an accuracy of worst case ±5kg)	
Dimension (mm)	Safe Weigh	260 (W) x 140 (H) x 90 (D) including bracket 215 (W) x 106 (H) x 90 (D) instrument only
	Weight Master	250 (W) x 150 (H) x 125 (D)
Resolution	1, 2, 5, 10, 20, 50, 100, 200 (selectable to suit installation)	
Temperature	0°C to 40°C operating range	
Supply voltage	9VDC to 70VDC standard	
Supply current	Less than 200mA	
Housing rating	Weatherproof (IP65)	
Display	Safe Weigh	20mm (H) x 6 digits LCD extended temperature range. Plain message prompting
	Weight Master	10mm (H) x 32 digits supertwist alphanumeric LCD with extended temperature range
Backlight	LED fibre optic	
Warranty	12 months on instrument and sensors	
Fitting time	Typically four hours	
Recalibration	Six monthly (recommended) 12 monthly (standard)	
Printer (optional)	Characters: Supply:  Current:  Fields:	60mm plain paper 20 per line 12VDC 16 to 60v with optional adapter 200mA standby 1A peak printing Weight, date, time and gross weight
Pressure diversion system (When fitted)	Hydraulic pressure diversion system suitable for interlocking into main lift ram to stop forklift lifting and only lowering to ground when in overload status	
Other Options	Height sensor, height switch, audible alarm, red light alarm	

N.B. Not legal for trade use



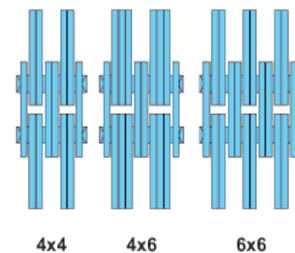
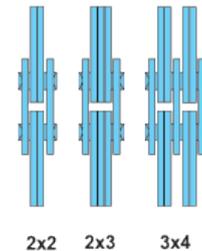
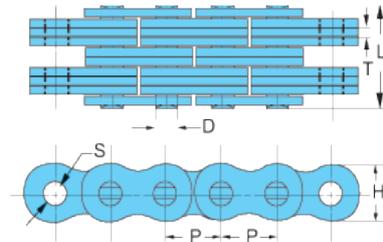


■ **LOAD CELL SELECTION CHART**

**BL Series**

Heavy Duty BL series leaf chains incorporate link from the next larger size pitch ANSI roller chains.

Chain No.	Pitch	Lacing	Min. Tensile Strength	Pin Dia	Pin Overall Length		Link Plate Thickness		Hole Dia. (min)	Approx. Weight
			kN (kgf) 16.7 (1,700)		L	T	H	S		
BL-422	12.70	2 x 2	23.5 (2,400)	5.08	10.85	2.00	12.00	5.13	0.68	
BL-423	12.70	2 x 3	23.5 (2,400)	5.08	12.95	2.00	12.00	5.13	0.84	
BL-434	12.70	3 x 4	35.3 (3,600)	5.08	17.20	2.00	12.00	5.13	1.13	
BL-444	12.70	4 x 4	47.1 (4,800)	5.08	19.41	2.00	12.00	5.13	1.28	
BL-446	12.70	4 x 6	47.1 (4,800)	5.08	23.60	2.00	12.00	5.13	1.65	
BL-466	12.70	6 x 6	69.6 (7,100)	5.08	27.80	2.00	12.00	5.13	1.96	
BL-522	15.875	2 x 2	39.2 (4,000)	5.94	12.65	2.40	15.00	6.00	1.07	
BL-523	15.875	2 x 3	39.2 (4,000)	5.94	15.10	2.40	15.00	6.00	1.27	
BL-534	15.875	3 x 4	58.8 (6,000)	5.94	20.10	2.40	15.00	6.00	1.69	
BL-544	15.875	4 x 4	78.5 (8,000)	5.94	22.56	2.40	15.00	6.00	1.89	
BL-546	15.875	4 x 6	78.5 (8,000)	5.94	27.50	2.40	15.00	6.00	2.40	
BL-566	15.875	6 x 6	118 (12,000)	5.94	32.45	2.40	15.00	6.00	2.80	
BL-622	19.05	2 x 2	63.7 (6,500)	7.90	16.38	3.20	18.10	7.97	1.68	
BL-623	19.05	2 x 3	63.7 (6,500)	7.90	19.75	3.20	18.10	7.97	2.04	
BL-634	19.05	3 x 4	95.6 (9,750)	7.90	26.45	3.20	18.10	7.97	2.83	
BL-644	19.05	4 x 4	127 (13,000)	7.90	29.80	3.20	18.10	7.97	3.18	
BL-646	19.05	4 x 6	127 (13,000)	7.90	36.50	3.20	18.10	7.97	4.01	
BL-666	19.05	6 x 6	191 (19,500)	7.90	43.20	3.20	18.10	7.97	4.73	
BL-822	25.40	2 x 2	103 (10,500)	9.48	20.17	4.00	24.10	9.57	2.59	
BL-823	25.40	2 x 3	103 (10,500)	9.48	24.20	4.00	24.10	9.57	3.20	
BL-834	25.40	3 x 4	155 (15,800)	9.48	32.55	4.00	24.10	9.57	4.44	
BL-844	25.40	4 x 4	190 (19,400)	9.48	36.90	4.00	24.10	9.57	5.04	
BL-846	25.40	4 x 6	206 (21,000)	9.48	45.00	4.00	24.10	9.57	6.32	
BL-866	25.40	6 x 6	286 (29,200)	9.48	53.30	4.00	24.10	9.57	7.54	
BL-1022	31.75	2 x 2	141 (14,400)	11.04	23.98	4.80	30.10	11.14	3.76	
BL-1023	31.75	2 x 3	141 (14,400)	11.04	28.90	4.80	30.10	11.14	4.69	
BL-1034	31.75	3 x 4	216 (22,000)	11.04	38.85	4.80	30.10	11.14	6.55	
BL-1044	31.75	4 x 4	282 (28,800)	11.04	43.39	4.80	30.10	11.14	7.48	
BL-1046	31.75	4 x 6	282 (28,800)	11.04	53.70	4.80	30.10	11.14	9.29	
BL-1066	31.75	6 x 6	424 (43,200)	11.04	63.85	4.80	30.10	11.14	11.16	
BL-1222	38.10	2 x 2	186 (19,000)	12.64	28.04	5.60	36.20	12.74	4.83	
BL-1223	38.10	2 x 3	186 (19,000)	12.64	33.90	5.60	36.20	12.74	6.54	
BL-1234	38.10	3 x 4	299 (30,500)	12.64	45.50	5.60	36.20	12.74	9.10	
BL-1244	38.10	4 x 4	373 (38,000)	12.64	51.30	5.60	36.20	12.74	10.39	
BL-1246	38.10	4 x 6	373 (38,000)	12.64	62.95	5.60	36.20	12.74	12.01	
BL-1266	38.10	6 x 6	559 (57,000)	12.64	74.57	5.60	36.20	12.74	14.58	
BL-1422	44.45	2 x 2	235 (24,000)	14.21	31.62	6.40	42.20	14.32	7.31	
BL-1423	44.45	2 x 3	235 (24,000)	14.21	38.20	6.40	42.20	14.32	9.06	
BL-1434	44.45	3 x 4	387 (39,500)	14.21	51.40	6.40	42.20	14.32	11.32	
BL-1444	44.45	4 x 4	471 (48,000)	14.21	58.05	6.40	42.20	14.32	12.96	
BL-1446	44.45	4 x 6	471 (48,000)	14.21	71.25	6.40	42.20	14.32	18.00	
BL-1466	44.45	6 x 6	706 (72,000)	14.21	84.46	6.40	42.20	14.32	22.51	
BL-1622	50.80	2 x 2	353 (36,000)	17.38	35.59	7.20	48.20	17.49	9.84	
BL-1623	50.80	2 x 3	353 (36,000)	17.38	43.25	7.20	48.20	17.49	12.16	
BL-1634	50.80	3 x 4	554 (56,500)	17.38	58.40	7.20	48.20	17.49	16.95	
BL-1644	50.80	4 x 4	706 (72,000)	17.38	65.86	7.20	48.20	17.49	18.97	
BL-1646	50.80	4 x 6	706 (72,000)	17.38	81.05	7.20	48.20	17.49	24.09	
BL-1666	50.80	6 x 6	1060 (108,100)	17.38	96.15	7.20	48.20	17.49	28.73	
BL-1688	50.80	8 x 8	1156 (118,000)	17.38	122.8	7.20	48.20	17.49	36.00	
BL-2022	63.50	2 x 2	530 (54,000)	23.73	47.94	9.50	60.30	23.84	14.43	
BL-2023	63.50	2 x 3	531 (54,100)	23.73	57.90	9.50	60.30	23.84	17.95	
BL-2034	63.50	3 x 4	795 (81,100)	23.73	77.82	9.50	60.30	23.84	24.95	
BL-2044	63.50	4 x 4	1062 (108,200)	23.73	87.78	9.50	60.30	23.84	28.45	
BL-2046	63.50	4 x 6	1062 (108,200)	23.73	107.70	9.50	60.30	23.84	35.44	
BL-2066	63.50	6 x 6	1592 (162,300)	23.73	127.62	9.50	60.30	23.84	42.01	



**Note:**

Load cells for chain systems come in all of the above standard configurations as standard. Should you require a custom design please let us know and we will manufacture to suit your requirements. Please specify model type when ordering loadcell chain systems.



# Chain Load Cell System

## ORDER CODES



Order Code	Product
CHAINLCSAFECB<5T	Below 5T
CHAINLCSAFECB>5T	5T & above
CHAINLCSAFECBKIT	Kit only
<i>(optional)</i>	
BLUETONGUEPRINT	Printer
SPRL	Red light alarm
SPAL	Audible alarm
SPHB	Hydraulic bypass



Order Code	Product
CHAINLCSWMTCB<5T	Below 5T
CHAINLCSWMTCB>5T	5T & above
CHAINLCSWMTCBKIT	Kit only
<i>(optional)</i>	
BLUETONGUEPRINT	Printer
SPRL	Red light alarm
SPAL	Audible alarm
SPHB	Hydraulic bypass



Order Code	Product
CHAINLCSAFERT<5T	Below 5T
CHAINLCSAFERTKIT	Kit only
<i>(optional)</i>	
BLUETONGUEPRINT	Printer
SPRL	Red light alarm
SPAL	Audible alarm
SPHB	Hydraulic bypass



Order Code	Product
CHAINLCSWMTRT<5T	Below 5T
CHAINLCSWMTRTKIT	Kit only
<i>(optional)</i>	
BLUETONGUEPRINT	Printer
SPRL	Red light alarm
SPAL	Audible alarm
SPHB	Hydraulic bypass



Order Code	Product
CHAINLCSAFESP	Below 5T
CHAINLCSAFESPKIT	Kit only
<i>(optional)</i>	
SPHS	Height sensor
SPSW	Height switch
SPRL	Red light alarm
SPAL	Audible alarm
SPHB	Hydraulic bypass



Order Code	Product
CHAINLCCSWMTSP	Below 5T
CHAINLCCSWMTSPKIT	Kit only
<i>(optional)</i>	
SPHS	Height sensor
SPSW	Height switch
SPRL	Red light alarm
SPAL	Audible alarm
SPHB	Hydraulic bypass





# Chain Load Cell System

## ■ AWE - THE BEST IN THE BUSINESS

AWE has built a reputation in providing world class products and services to customers from a wide range of industries for many unique applications. All the products come with AWE Quality Guarantee- giving you the assurance that they have been tested to meet or exceed the specifications and requirements of your application.

At AWE, it's more than just delivering perfectly-designed equipment, it also requires a team of dedicated people who will back you up with great service and support. Any servicing, installation and technical support issues you encounter can be addressed either onsite or remotely by our engineers and tradesmen who are qualified as:

- Licensed Tradesmen
- Mechanical Engineers
- Electrical Engineers
- Structural Engineers
- Draftsmen
- Fitter & Turners
- Boilermakers
- Fully Qualified Scale Makers
- Electronic Technicians
- Instrument Fitters
- Electricians
- Service Technicians
- Project Managers
- Formworkers
- Concreters



Call AWE today. We will find the right solution for your individual needs.

If you have questions about

- **weighing equipment**
- **packaging equipment**
- **bulk materials handling**
- **componentry**

call the sales team at *AWE Group* to find the right solution for your individual needs.

## ■ AWE PRODUCT RANGE



Weighbridges



Load Cells



Scales



Crane Scales



Indicators



Packaging Equipment



Onboard Weighing



Batching Consoles



Test Weight



Maintenance



## ■ WHO IS “AUSTRALIAN WEIGHING EQUIPMENT GROUP”

Jeff & Trevor Baillie started Australian Weighing Equipment (or AWE) in 1981, focusing on weighing solutions based on engineering principles. Over 40 years, AWE has built its reputation as a leading supplier of robust weighing, packaging & bulk handling equipment. Our innovative engineering and continuous product developments have led to designs that will stand up to the rigours and demands of your applications.

AWE has increased its investment in manufacturing facilities with a new 3,200sq/m factory in Sydney featuring:

- A CNC Machine Shop
- Heavy Metal Fabrication Shop
- Larger work areas for our team of qualified tradesman

Acquisitions of Bradwood Packaging and Dendy Packaging and Design Engineering has increased our packaging and engineering experience.

In 2008, AWE established a manufacturing facility in China - AWE Group Packaging and Bulk Materials Handling Equipment, a purpose-built 5,000sq/m factory in Suzhou China (70kms From Shanghai).

All of the products we offer are Australian designed and manufactured under our strict quality control system in our own factories both locally and internationally.

## ■ AUSTRALIAN WEIGHING EQUIPMENT OFFICE LOCATIONS



Australian Weighing  
Equipment - Sydney Office

8 Heald Road  
Ingleburn, NSW 2565



Australian Weighing  
Equipment - Brisbane Office

7 Darnick Street  
Underwood, QLD 4119



Australian Weighing  
Equipment - Melbourne Office

37 Barrie Road  
Tullamarine, VIC 3043



Australian Weighing  
Equipment - Melbourne Office

27 Rhur Street  
Dandenong South, VIC 3175

## ■ AUSTRALIAN WEIGHING EQUIPMENT ON SOCIAL MEDIA



@AustralianWeighingEquipment



[www.awe.com.au](http://www.awe.com.au)



[/company/awegrouppaustralia](https://www.linkedin.com/company/awegrouppaustralia)



[www.youtube.com/AustWeighing](https://www.youtube.com/AustWeighing)



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Dealer's Information:

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