MHEDN9

SuperLift
Industrial Lifting Equipment

MATERIALS HANDLING

SUPERLIFT is the number one rigging product brand in Australia. Whether working deep in an underground mine, an oil platform, or in defense and construction industries, there's a product to suit every job. And all combine SUPERLIFT's legendary reliability and strength with world-leading manufacturing technology. SUPERLIFT Clamps make heavy work easy.

DEFENCE RECOGNISED SUPPLIER
Department of Defence
AUSTRALIAN MANUFACTURED

SUPER LIFT ENGINEERING PTY LTD

About Us

From its establishment in 1988 SuperLift has built a solid reputation for high quality safe, strong reliable lifting equipment. We have rapidly become the world's largest and leading manufacturer of Australian made industrial lifting and rigging equipment. The satisfaction of our customers is our number one concern... and it's their number one concern as well. That's why they keep coming back to SuperLift. They won't accept anything but the best and you shouldn't either.

Our customers know... SuperLift provides superior products at competitive prices. Call today for the quality, reliability, competitive pricing, and full service you deserve.

Our manufacturing facility incorporates the latest in robotic manufacturing technology, computer aided design and manufacturing processes. With the latest in technology we would have the most advanced facility in Australia for the manufacture of industrial lifting equipment. Looking ahead, SuperLift's focus is clearly aimed at better serving the total needs of our customers. Further investment in manufacturing technology and equipment will expand our product offering, providing more solutions to our customers' lifting needs.

SuperLift's commitment is to continue to research and develop/manufacture high quality safe, strong reliable lifting equipment to meet the current and future needs of our customers. Meeting the demands of the increasingly complex, quality-conscious industrial world market is a challenge we gladly accept.

This Data book has been produced to assist the salesperson, engineer, draftsperson, or rigger in selecting correct equipment for their particular use. Do not hesitate to contact Superlift's technical advice department if you require any further information.

Our Facility

Our manufacturing facility incorporates the latest in robotic manufacturing technology, computer aided design and manufacturing processes. Product testing utilizing our vertical and horizontal testing machine. With the latest in technology we would have the most advanced facility in Australia for the manufacture of industrial lifting equipment.

Looking ahead, SuperLift's focus is clearly aimed at better serving the total needs of our customers. Further investment in manufacturing technology and equipment will expand our product offering, providing more solutions to our customers' lifting needs.

SuperLift
Industrial Lifting Equipment

Contents

Don't Risk it SuperLift it!
www.superlift.com.au

WARNING

LIFTING DEVICE - GENERAL PRECAUTIONS

LOAD RATINGS STATED ON ALL **SUPERLIFT** LIFTING DEVICES ARE APPLICABLE TO NEW OR AS NEW PRODUCTS ONLY AND APPLY TO THE MAXIMUM LOAD WHICH MAY BE SUPPORTED BY THE HEAD FITTING, UNDER NORMAL ENVIRONMENTAL CONDITIONS, SHOCK LOADINGS MUST BE TAKEN INTO ACCOUNT WHEN SELECTING LOAD RATINGS ON LIFTING DEVICES AS THESE LOADS ARE MUCH GREATER THAN STATIC LOADS. THE WORKING LOAD LIMIT (W.L.L.) OR SAFETY FACTOR ON ALL **SUPERLIFT** PRODUCTS MAY BE AFFECTED BY WEAR, MISUSE, OVERLOADING, DEFORMATION, CORROSION OR OTHER CONDITIONS, REGULAR INSPECTION MUST BE CARRIED OUT TO DETERMINE WHETHER USE CAN BE CONTINUED OR THE PRODUCT WITHDRAWN FROM SERVICE, **SUPERLIFT** LIFTING DEVICES SHOULD BE USED BY EXPERIENCED TRAINED PERSONNEL FAMILIAR WITH HOISTING SYSTEMS.

All the products manufactured by **SUPERLIFT** are sold with the express understanding that the purchaser is thoroughly familiar with the safe and proper use and application of the product.

Responsibility for the use and application of the products rests with the user.

SUPERLIFT products are generally intended for tension or pull loads, side loading must be never be applied, as it exerts additional force or loading which the product is not designed to accommodate.

Failure of the product can occur due to incorrect use, misapplication, abuse, or improper maintenance. Product failure could result in property damage, personal injury or death.

- **WORKING LOAD LIMIT** - The maximum load or force the product is authorized to support in a particular service.
- **PROOF LOAD** - The average force to which a product may be subjected to before deformation occurs.
- **SHOCK LOAD** - A force that results from the rapid acceleration of a static load e.g.; jerking, these loads add significantly to the static load.
- **STATIC LOAD** - A constantly applied force or load.

- **IMPROPER:** Use of lifting devices could result in death or serious injury to avoid this -
- **NEVER:** Exceed working load limit
- **NEVER:** Hoist loads over or near people
- **NEVER:** Work under or near hoisted loads
- **ALWAYS**: Operate, inspect and maintain lifting equipment in accordance with all relevant safety standards.

WHEN ATTACHING OR MOVING A LOAD, THE OPERATOR / RIGGER, MUST MAKE SURE OF ALL OF THE FOLLOWING:

- The hoisting rope is free of kinks or twists and not wrapped around the load.
- The load is attached to the Crane Hook by means of a sling or other approved device allowing for single or duplex (double ram horn) hooks.
- The sling and load will clear all obstacles or obstructions.
- The load is balanced and secured before lifting the load more than a few inches.
- Multiple lines are not twisted around each other.
- The hook is brought over the load in a manner to prevent swinging.
- There is no sudden acceleration or deceleration of the moving load.
- Do not allow anyone to ride on a load or hooks.
- Do not attempt lifts beyond the rated load capacity of a crane or slings.
- Do not lift a load from the side. Centre the crane directly over the load before hoisting to avoid swinging the load.
- Do not leave suspended loads unattended.

Spare parts are available from **SUPERLIFT** & authorized resellers; replace all worn or damaged parts.
USE ONLY GENUINE SUPERLIFT SPARE PARTS WHEN REPAIRING OR SERVICING SUPERLIFT PRODUCTS

Ph: +(613) 9357 0277 www.superlift.com.au Fax: +(613) 9357 0621

Drum Clamps (AS 4991-2004)

VERTICAL DRUM CLAMP For lifting 205 litre (44 Gallon) drums which are in the vertical position and have lids.			
Product Code	**WLL Kg**	**Headroom**	**U/W Kg**
VDC - 001	500	160mm	4.8
VDC - 002	1000	160mm	6.8
HORIZONTAL DRUM CLAMP For lifting 205 litre (44 Gallon) drums which are in the horizontal position and have lids.			
HDC - 001	500	420mm	4.8
HDC - 002	1000	420mm	6.8
VERTICAL DRUM TONG For lifting 205 litre (44 Gallon) drums which are in the vertical position with or without lids.			
VDT - 001	500 KG.	500mm	12
VDT - 002	1000 KG.	500mm	14

Tilting Coil Lift Hooks (AS 4991-2004)

SuperLift Tilting Coil lifting hooks are for the horizontal to vertical lifting and handling of steel coils.

Features:

- Special toe design to enable horizontal to vertical lifting
- Compact design for easy handling

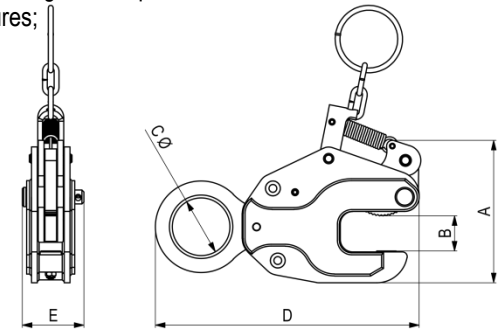
Product Code	WLL Kg	Max. Coil Width	Min. Hole Ø x Wall Height (mm)	U/W Kg
TIL-1	1000	203	305 x 406	16.2
TIL-2	2000	305	410 x 508	31.9
TIL-3	3500	360	500 x 508	57.4

Vertical Plate Clamps (AS 4991-2004)

SuperLift Vertical plate lifting clamps are for the lifting and handling of steel plates.
SuperLift Vertical plate clamps incorporate the following features;

Features:

- Anti release safety lock
- Compact design for easy handling
- Spare parts are always available
- Supplied painted Super Lift industrial grey enamel



Product Code	Jaw Opening	WLL Kg.	U/W Kg	A	B	C	D	E
VPC-001	0 - 30 mm	1000	4.4	140	30	60	326	64
VPC-002	0 - 30 mm	2000	6.6	158	30	60	339	75
VPC-003	0 - 35 mm	3000	12.4	188	35	65	409	89

Vertical Plate Clamp Spare Parts

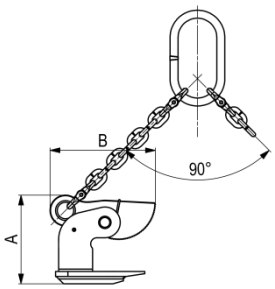
Jaw And Link Assembly	
Product Code	**To Suit Clamp**
VPC - 101	VPC - 001
VPC - 102	VPC - 002
VPC - 103	VPC - 003
Pressure Pin Bolt & Nut	
VPC - 111	VPC - 001
VPC - 112	VPC - 002
VPC - 113	VPC - 003
Spring Only	
VPC - 121	VPC - 001
VPC - 122	VPC - 002
VPC - 123	VPC - 003
Hanger Plate	
VPC - 131	VPC - 001
VPC - 132	VPC - 002
VPC - 133	VPC - 003

Horizontal Plate Clamps (AS 4991 – 2004)

SuperLift Horizontal plate lifting clamps are for the lifting and handling of steel plates.

Features:

- Non-marking.
- Compact design for easy handling.
- Painted SuperLift industrial grey enamel.
- Spare parts are always available.



Product Code	WLL kg. Pair @ 60 Degrees	Jaw Opening	Weight / Pair Kg	A	B	C	D
HPC - 001	1000	0 - 50 mm	5.6	151	187	50	110
HPC - 002	2000	0 - 60 mm	11.2	199	232	60	120
HPC - 003	3000	0 - 70 mm	19.2	243	296	70	130
HPC - 004	4000	0 - 150mm	39	350	530	150	200

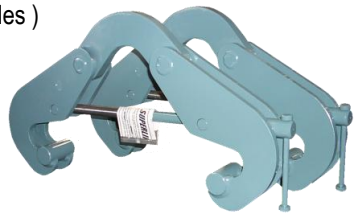
The above illustration is of clamps HPC-001, HPC-002 and HPC-003.
HPC-004 is of a different design. Consult superlift sales department for further details.

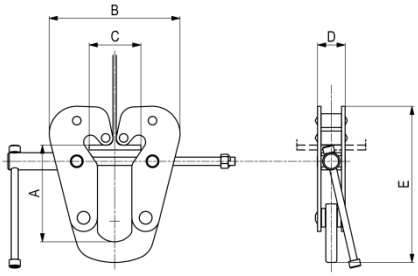
Girder Clamps (AS 4991 – 2004)

SuperLift manufactures an extensive range of girder clamps.
These clamps represent a quick, efficient and safe method of suspending chain blocks etc, from beams.

Features:

- Light weight heavy duty all steel construction
- Quick method of attaching clamp to beam
- Adjustable to suit most beam sizes
- Unique hanger arrangement (no need for shackles)
- Painted Superlift industrial grey enamel





Product Code	WLL kg	Girder Width (mm) C	Approx Headroom	U/W kg	A†	B‡	D	E
GC - 002	2000	64 - 203	125mm	5	140	190	44	225
GC - 003	4000	102 - 230	165mm	10.5	178	254	65	274
GC - 004	8000	114 - 304	250mm	20	250	300	88	365
GC - 006	10000	200 - 500	230mm	37.6	285	491	92	462
GC - 007	15000	200 - 500	240mm	42	290	550	96	535

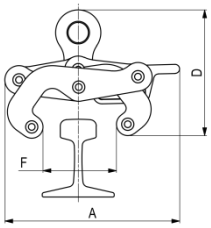
† This dimension is for the minimum width beam and decreases for wider beams.
‡ This dimension is for the minimum width beam and increases for wider beams.
Special girder clamps can be manufactured to suit customer requirements.

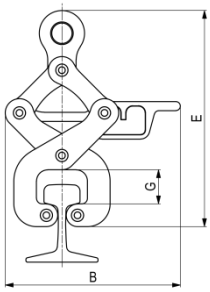
Rail Clamps (AS 4991 – 2004)

SuperLift Rail Clamps are designed for the lifting and placement of steel rails.

Features:

- Suitable for 30kg/MT to 73kg/MT Rails.
- Can be locked in the open or closed position.
- Lightweight heavy-duty steel construction.
- Supplied painted Super Lift industrial grey enamel.





WLL kg.	Product Code	U/W kg	A	B	C	D	E
2000	RC - 2000	7.5	305	305	66	271	380

Envelope Clamps (AS 4991 – 2004)

SuperLift Envelope clamps are used for lifting and transportation of heavy and large stacks of steel plate etc. The range covers from 1 Tonne to 10 Tonne.

Features:

- Designed and manufactured to AS 1418
- Heavy duty construction
- Supplied painted Super Lift industrial yellow enamel
- Wide clamp foot for stability when lifting long lengths of steel plate

Product Code	WLL Kg. Pair @ 90 Degrees	Maximum Thickness (mm)	Foot Width
EN - 1	1000	205	800
EN - 2	2000	205	800
EN - 3	3000	280	800
EN - 8	8000	280	800
EN - 10	10000	280	800

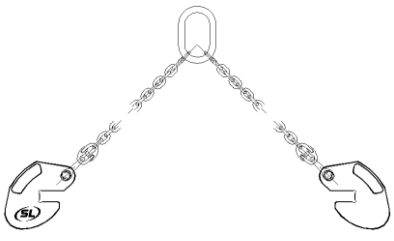
Envelope clamps exclude chains or slings
Chains Must Be Made To Have An Included Angle Of 90 Degrees.

Pipe Hooks (AS 4991 – 2004)

SuperLift Pipe Hooks are designed to be used in pairs with wire rope or chain slings for the easy lifting and transportation of metal pipes.

Features:

- Integral handles for easy handling
- Non Marking
- Painted industrial red enamel



Product Code	WLL Tonne	Pipe Wall Thickness (mm)	Weight / Pair Kg
PH - 2	2	20	9.65
PH - 3	3	26	13.20
PH - 5	5	32	22.00

Slings must be made to have an included angle of 90 Degrees.
Slings can be supplied P.O.A.

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CUSTOM CLAMPS

Fully automatic reel lifting clamp external

Fully automatic reel lifting clamp internal

Fully automatic lifting clamp external

Semi automatic heat resistant billet lifting clamp

Semi automatic bluestone block lifting clamp

Clam Shell drill rod lifting devices

Steel Coil lifting hook

Request for quotation forms for custom products are provided in the next few pages, fill in and return as indicated for prompt quotation.

CUSTOM SHEAVES

REQUEST FOR QUOTATION

CUSTOMER NAME		DATE
ADDRESS		CONTACT NAME
TELEPHONE	FAX	E-MAIL

SHEAVE

Rope Diameter (E) mm _____

Type of Rope (Please ☑ one only)

Fibre ☐

Wire ☐

Outside Diameter (A) mm _____

Boss Diameter (B) optional) mm _____

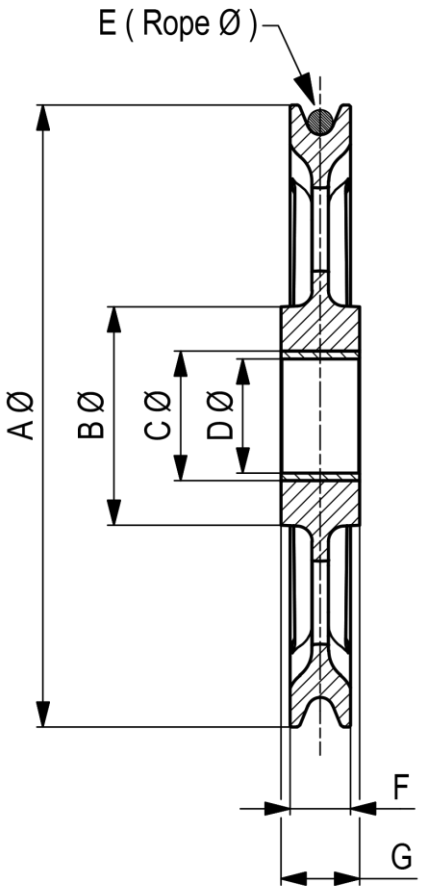
Rim Width (F) mm _____

Boss Width (G) mm _____

Material (if known) _____

Quantity _____

Shaft Diameter (D) mm _____



BEARINGS (Please ☑ one only)

High Capacity PTFE Bush ☐

Bronze Bush ☐

Roller Bearing ☐

Tapered Roller Bearing ☐

Bearing Part No. / Other (Please Specify) _____

Application / Environmental Conditions used. _____

SPECIAL REQUIREMENTS

Coating (Otherwise standard SuperLift coating system used) _____

Proof Load Testing (Please ☑ if required) ☐

Other (Please Specify) _____

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CUSTOM SHEAVE BLOCKS REQUEST FOR QUOTATION

CUSTOMER NAME		DATE
ADDRESS		CONTACT NAME
TELEPHONE	FAX	E-MAIL

BLOCK

Working Load Limit (At the Head Fitting) _____ Metric Tonnes

Application / Environmental Conditions used. _____

HEAD FITTING TYPE (Please ☑ one only)

Hook Single ☐

Duplex (Rams Horn) ☐

Swivel Eye ☐

Fixed Shackle ☐

Other (Please Specify) _____

SHEAVES

Number of Sheaves _____

Type of Rope (Please ☑ one only)

Fibre ☐

Wire ☐

Rope Diameter _____ mm

Becket ☐

BEARINGS (Please ☑ one only)

High Capacity PTFE Bush ☐

Bronze Bush ☐

Roller Bearing ☐

Tapered Roller Bearing ☐

Other (Please Specify) _____

SPECIAL REQUIREMENTS

Coating (Otherwise standard SuperLift coating system used) _____

Proof Load Testing (Please ☑ if required) ☐

Other (Please Specify) _____

SuperLift
Industrial Lifting Equipment

CUSTOM CRANE BLOCKS REQUEST FOR QUOTATION

CUSTOMER NAME		DATE
ADDRESS		CONTACT NAME
TELEPHONE	FAX	E-MAIL

TYPE OF CRANE (Please ☑ one only)

Over Head Travelling Crane (OHTC) ☐
Mobile Crane ☐
Application / Environmental Conditions used. _____

SHEAVES

Number of Sheaves _____
Outside Diameter _____mm
Rope Diameter _____mm

BEARINGS

High Capacity PTFE Bush ☐
Bronze Bush ☐
Roller Bearing ☐
Tapered Roller Bearing ☐
Other (Specify) _____

BLOCK CAPACITY, DIMENSIONS & WEIGHT

If multiple sheaves centre distance between all sheaves _____mm
Working Load Limit _____ Metric Tonnes
Design Class _____
If Replacement Weight _____ KG

HEAD FITTING TYPE (Please ☑ one only)

Hook Single ☐
Duplex (Rams Horn) ☐
Swivel Eye ☐
Fixed Shackle ☐
Other (Please Specify) _____
Motorized Hook ☐

SPECIAL REQUIREMENTS

Coating (Otherwise standard SuperLift coating system used)
Proof Load Testing (Please ☑ if required) ☐
Other (Please Specify) _____

Ph: +(613) 9357 0277 www.superlift.com.au Fax: +(613) 9357 0621

CUSTOM MACHINED HOOKS REQUEST FOR QUOTATION

CUSTOMER NAME		DATE
ADDRESS		CONTACT NAME
TELEPHONE	FAX	E-MAIL

HOOK

Working Load Limit (At the Head Fitting) _____ Metric Tonnes

Application / Environmental Conditions used. _____

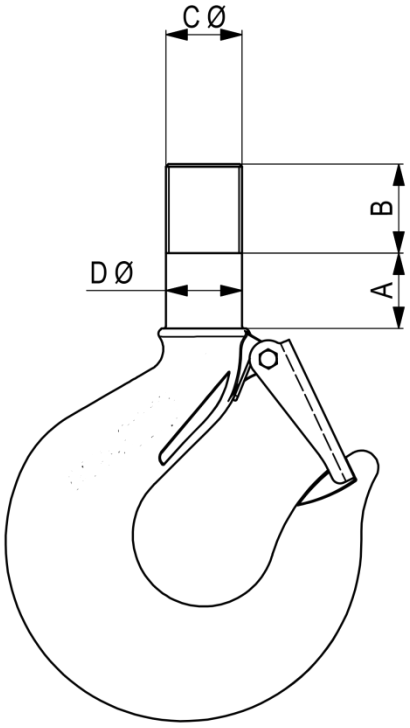
TYPE (Please ☑ one only)

Single ☐

Duplex (Rams Horn) ☐

Size (Din, Euro style) _____

Other (Please Specify) _____



DIMENSIONS

Shank length (A) _____

Thread length (B) _____

Thread Diameter (C) _____

Shank Diameter (D) _____

NUT (Please ☑ one only)

Round Nut ☐

Hexagon Nut ☐

Nut Locking, (Dim. A. must be exact to underside of nut ☑ if required) ☐

Other (Please Specify) _____

SPECIAL REQUIREMENTS

Coating (Otherwise standard SuperLift coating system used) _____

Proof Load Testing (Please ☑ if required) ☐

Other (Please Specify) _____

CUSTOM SAFETY LATCH KITS REQUEST FOR QUOTATION

CUSTOMER NAME		DATE
ADDRESS		CONTACT NAME
TELEPHONE	FAX	E-MAIL

HOOK

Working Load Limit (At the Head Fitting) _____ Metric Tonnes

Application / Environmental Conditions used. _____

TYPE (Please ☑ one only)

Single ☐

Duplex (Rams Horn) ☐

Size (Din, Euro style) _____

Other (Please Specify) _____

DIMENSIONS

Shank Diameter (A) _____ mm

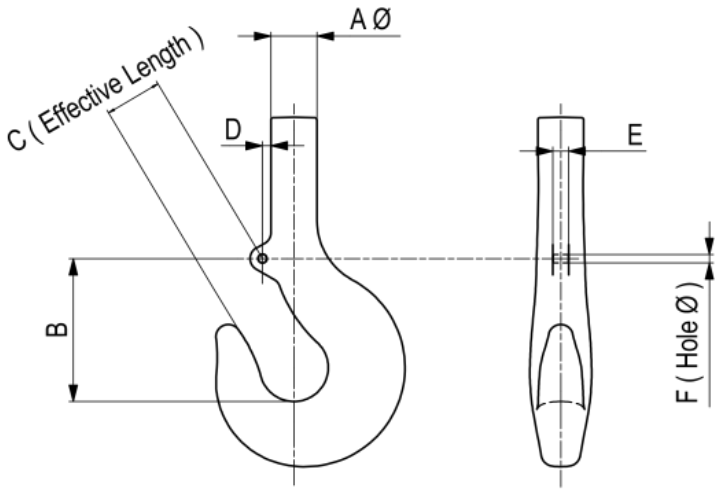
Length (B) _____ mm

Throat Opening (C) _____ mm

Distance (D) _____ mm

Lug Width (E) _____ mm

Hole Diameter (F) _____ mm



SPECIAL REQUIREMENTS

Coating (Otherwise standard SuperLift coating system used) _____

Other (Please Specify) _____

Ph: +(613) 9357 0277 www.superlift.com.au Fax: +(613) 9357 0621

TESTING AND INSPECTION

Mechanical Load Testing Facilities

Our laboratory testing facilities comply with the requirements of,

AS/NZS ISO/IEC 17020
AS/NZS ISO/IEC 17025

Class AA 250 tonne Horizontal Test Bed

Class AA 50 tonne Vertical Test Tower

Magnetic Particle Inspection (MPI)

Our laboratory testing facilities comply with the requirements of,

AS/NZS ISO/IEC 1171-1998
ASTM E1444

Magnetic Particle Inspection (MPI) is an extension of visual inspection. This critical technique for non-destructive testing (NDT) is used for the detection of surface and near-surface flaws (discontinuities) in ferromagnetic materials

Terms & Conditions of Sale

1. Exclusion of other terms and conditions.

The following terms and condition shall apply to the sale of all goods by Super Lift Engineering Pty Ltd to the exclusion of any and all terms and conditions in any documents submitted to Super Lift Engineering Pty Ltd by the customer.

2. Basis of acceptance of quotations.

All quotations are based on information provided by the customer (or by third parties on its behalf). Any extra cost or expense arising from incorrect information shall be paid by the customer.

3. Prices.
Any quotation submitted or any price set out in any price list is based on the cost of labour and materials at the date of the price list or quotation. Super lift Engineering Pty Ltd may at its discretion increase any such price to reflect changes in the price of labour and materials and manufacturing overheads.

4. Terms of payment.
Unless Super Lift engineering Pty Ltd in its discretion agrees to accept payment for goods on deferred terms, the customer shall pay for all goods delivered by Super Lift Engineering Pty Ltd within 30 days from the last day of the month in which the goods are so despatched.
Minimum invoice value of $75, all orders below this figure will result in a surcharge being applied. Title of goods remains the property of Super Lift Engineering Pty Ltd until paid for in full.

5. Literature.
Advertising and other literature provided by super lift engineering contains general information only and no such information is to form part of any contract between super lift engineering and the customer.

6. Guarantee.

6.1; Super Lift Engineering agrees to repair or replace any parts or equipment supplied by in which develop defects as a result of the use by super lift engineering of faulty material or workmanship within the period of three months after the date of delivery. Any parts that require repair or replacement shall be replaced at the works of Super lift engineering. The cost of freight both ways is to be borne by the customer. Any repaired parts shall become the property of Super Lift Engineering Pty Ltd.
6.2; This guarantee does not include liability for fair wear and tear, negligence or wilful default.
6.3; The benefits conferred by this guarantee are in addition to all other rights and remedies in respect of the goods which the customer has under the trades practices act 1974 ("the act") or any binding enactment of any state or territory which cannot be excluded by agreement.
6.4; In a case in which the goods are other than a kind ordinarily acquired for personnel, domestic or household consumption Super Lift Engineering's liability for any breach of a condition or warranty implied by division 2 of the act (other than a condition or warranty implied by section 69 of the act) is limited to any one or more of the following; (as determined by Super Lift Engineering Pty Ltd in its absolute discretion).
(i) the replacement of the goods or supply of equivalent goods; or
(ii) the repair of the goods; or
(iii) the payment of the cost of replacing of the goods or of acquiring equivalent goods; or
(iv) the payment of the cost of having the goods repaired.
6.5; if Super Lift Engineering becomes liable to indemnify a seller pursuant to section 74h of the act then such liability is limited to a payment of the of the sum equal to either;
(i) the cost of replacing the goods; or
(ii) the cost of obtaining equivalent goods; or
(iii) the cost of having the goods repaired, whichever the less.
6.6; the foregoing sets out the obligations of Super Lift Engineering Pty Ltd concerning the goods and all other conditions and warranties which may be lawfully excluded whether as to merchantable quality, fitness for any particular purpose, conformity with description or with a sample and whether express or implied by the law are hereby expressly negatived and excluded.
6.7; any alteration, modification or defacing of a Super lift product by any means will void all warranties and liabilities.

7. Delivery.
Any time for delivery which is given as an estimate only and super lift engineering will use all reasonable efforts to deliver by such time but in no case shall Super Lift Engineering be liable for any consequential damages in respect of any loss suffered by the customer as a result of any failure to deliver by any specified date.

8. G.S.T.
Super Lift Engineering shall be entitled to charge and recover from the customer the amount of any G.S.T. payable in respect of the sale of the goods to the customer.

9. Risk.
All goods supplied by Super Lift Engineering Pty Ltd to the customer will be at the customer's risk from the time of despatch.

10. Victorian law.
This contract shall be construed and take effect in accordance with the laws of the state of Victoria, Australia.

10. Credits
A restocking and handling charge of 20 % of the invoice value or $120.00 will apply to all returned goods, whichever the greater.
No credits or returns will be accepted unless claims are made within seven days of despatch, all goods returned must be freight paid and invoice and return authorisation number quoted. Specially manufactured or products not normally stocked or procured goods will not be accepted for credit.

11. Copyright

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SuperLift
Industrial Lifting Equipment

CONVERSION TABLES

Multiply	By	To Obtain
LENGTH		
centimetre	0.0328084	foot
centimetre	0.3937008	inch
fathom	1.8288	metre (m)
foot	0.3048	metre (m)
foot	30.48	centimetre (cm)
foot	304.8	millimetre (mm)
inch	0.0254*	metre (m)
inch	2.54	centimetre (cm)
inch	25.4	millimetre (mm)
kilometre	0.6213712	mile (U.S. statute)
metre	39.37008	inch
metre	0.5468066	fathom
metre	3.28084	foot
metre	0.1988388	rod
metre	1.093613	yard
metre	0.0006213712	mile (U.S. statute)
micrometre (micron)	39.37008	microinch
millimetre	0.00328084	foot
millimetre	0.03937008	inch
yard	0.9144*	metre (m)
AREA		
acre	4046.856	metre² (m²)
acre	0.4046856	hectare
hectare	2.471054	acre
metre²	1550.003	inch²
metre²	10.76391	foot²
metre²	1.19599	yard²
metre²	0.0002471054	acre
yard2	0.8361274	metre² (m²)
VOLUME (including CAPACITY)		
foot³	0.02831685	metre³ (m³)
foot³	28.31685	litre
litre	0.001*	metre³ (m³)
litre	0.2199692	gallon (U.K. liquid)
litre	0.264172	gallon (U.S. liquid)
litre	0.03531466	foot³
metre³	219.9692	gallon (U.K. liquid)
metre³	264.172	gallon (U.S. liquid)
metre³	35.31466	foot³
metre³	1.307951	yard³
metre³	1000.*	litre
metre³	61023.76	inch³
millimetre³	0.00006102376	inch³
yard3	0.7645549	metre³ (m³)
FORCE and FORCE/LENGTH		
kilogram-force	9.80665*	newton (N)
newton	0.1019716	kilogram-force
newton/metre	0.005710148	pound/inch
newton/metre	0.06852178	pound/foot
ounce/force	0.2780139	newton (N)
pound/force	4.448222	newton (N)
pound/inch	175.1268	newton/metre (N/m)
pound/foot	14.5939	newton/metre (N/m)
POWER		
foot-pound/hour	0.0003766161	watt (W)
foot-pound/minute	0.02259697	watt (W)
horsepower(electric)	746.*	watt (W)
horsepower (metric)	735.499	watt (W)
horsepower (U.K.)	745.7	watt (W)
horsepower(550 ft-lbs)	0.7456999	kilowatt (kW)
horsepower(550 ft-lbs)	745.6999	watt (W)
kilowatt	1.341022	horsepower(550 ft-lbs)
Btu (International Table)/hour	0.2930711	watt (W)

Multiply	By	To Obtain
MASS and DENSITY		
gram	15.43236	grain
gram	0.001*	kilogram (kg)
hundredweight (long)	50.80235	kilogram (kg)
hundredweight (short)	45.35924	kilogram (kg)
kilogram	1000.*	gram (g)
kilogram	35.27397	ounce (avoirdupois)
kilogram	32.15074	ounce (troy)
kilogram	2.204622	pound (avoirdupois)
kilogram	0.06852178	slug
kilogram	0.0009842064	ton (long)
kilogram	0.001102311	ton (short)
kilogram	0.001*	ton (metric)
kilogram	0.001*	tonne
kilogram	0.01968413	hundredweight (long)
kilogram	0.02204622	hundredweight (short)
kilogram/metre³	0.06242797	pound/foot³
kilogram/metre³	0.01002242	pound/gallon UK.liquid
kilogram/metre³	0.008345406	pound/gallon US.liquid
pound (avoirdupois)	0.4535924	kilogram (kg)
pound/foot³	16.01846	kilogram/metre³
pound/inch³	27.6799	gram/centimetre³
pound/gallon US.liquid.	119.8264	kilogram/metre³
pound/gallon UK.liquid.	99.77633	kilogram/metre³
slug	14.5939	kilogram (kg)
ton (long 2240lb	1016.047	kilogram (kg)
ton (short 2000lb)	907.1847	kilogram (kg)
ton (metric)	1000.*	kilogram (kg)
tonne	1000.*	kilogram (kg)
PRESSURE		
atmosphere (14.6959 lb/inch²)	101,325	pascal (Pa)
bar	100,000.*	pascal (Pa)
bar	14.50377	pound/inch²
bar	100,000.*	newton/metre² (N/m²)
kilogram/centimetre²	14.22334	pound/inch²
kilogram/metre²	9.806650*	newton/metre² (N/m²)
kilogram/metre²	9.806650*	pascal (Pa)
kilogram/metre²	0.2048161	pound/foot²
kilonewton/metre²	0.1450377	pound/inch²
newton/centimetre²	1.450377	pound/inch²
newton/metre²	0.00001	bar
newton/metre²	1.0*	pascal (Pa)
newton/metre²	0.0001450377	pound/inch²
newton/metre²	0.1019716	kilogram/metre²
newton/millimetre²	145.0377	pound/inch²
pascal	0.00000986923	atmosphere
pascal	0.00001*	bar
pascal	0.1019716	kilogram/metre²
pascal	1.0*	newton/metre² (N/m²)
pascal	0.02088543	pound/foot²
pascal	0.0001450377	pound/inch²
pound/foot²	4.882429	kilogram/metre²
pound/foot²	47.88026	pascal (Pa)
pound/inch²	0.06894757	bar
pound/inch²	0.07030697	kilogram/centimetre²
pound/inch²	0.6894757	newton/centimetre²
pound/inch²	6.894757	kilonewton/metre²
pound/inch²	6894.757	newton/metre² (N/m²)
pound/inch²	0.006894757	newton/millimetre²
pound/inch²	6894.757	pascal (Pa)

*** Where an asterisk is shown, the figure is exact.**