



















# WE'VE BEEN AT IT FOR MORE THAN 120 YEARS.

**Engineering Supplies**, having been in business since 1897, have an enviable reputation for being innovative and demanding in their desire for excellence. The company maintains a steadfast commitment to expanding and enhancing it's product range and service level to meet customers expectations. As one of the most specialised suppliers of lifting, lashing and rigging equipment country wide, our product ranges includes:

- Nitchi Chain Blocks, Lever Hoists & Electric Hoists
- Liftket Electric Chain Hoists
- **Donsa** Rope Winches, Chain Blocks and Lever Hoists
- Tsala Chain Blocks, Lever Hoists, Beam Clamps, Beam Crawls, and Rope Winches
- **✓ Donsa** Grade 80 and Grade 100 chain sling systems
- Carver Rack Clamps
- Loctite Adhesive and Sealants.

Engineering Supplies is the biggest seller of chain blocks to the mining industry and has been a market leader in providing long term cost effective solutions, backed up by engineering expertise to ensure Engineering Supplies remains specialists and leaders in their field.

In 2019 Marine Equipment Supplies became part of the Cooper & Cooper family.

Marine Equipment Supplies is a leading supplier in the marine, construction, transport, engineering and lifting industries.

Servicing industries such as general shipping, fishing, oil rigs, offshore demand mining, as well as commercial lifting industries, Marine Equipment Supplies workshops, manufactures webbing and engless round slings, cargo, gangway and beliconter nets





# Not only do we supply quality products but we offer the following services to our customers:





## **Service & Repair**

We have our own internal ISO approved workshops to service and maintain all the products we supply. Repairs to all makes of lifting equipment by certified LMI technicians



## **Safety Consulting**

We partner our customers in achieving safety standards that are meaningful and which enhance the methods to which our products are used.



## **Onsite Inspections**

We have field teams and LMI approved inspector with mobile test rigs to faciliate clients onsite and high security requirments.



## **Load Testing**

Within our organization we use the highest standard of calibrated testing equipment to supplement our efforts to ensure compliance with service standards.

# **Nitchi Lever & Chain Hoists**



#### NITCHI LEVER HOIST RB5

#### **DURABILITY**

The RB5 is manufactured with durable and robust construction.
The NITCHi products are renowned for durability and ruggedness ensuring long use with less maintenance and repair cost.

#### COMPACT AND LIGHTWEIGHT

The refined, well-balanced design of the RB5 is the result of high quality materials used together with the latest technology.

#### **ENCLOSED DESIGN**

The enclosed design of RB5 will prove higher protection against water, dirt and foreign matter.

#### 1. LOAD CHAIN

The super-tough heavy-duty load chains are exclusively heat-treated special alloy steel.

#### 2. HOOKS

The new large opening, deep pocketed hooks swivel in all directions and are made of high grade steel, drop forged and heat-treated for extra strength.

#### 3. LOAD CHAIN GUIDE

The super-tough forged steel load chain guides are longwearing and will provide increased protection against jamming of the load chain and load sheave.

Tested and conforms to SANS 1636

#### 4. TWO INDEPENDENT PAWLS (0.8T - 6.3T)

Two alternately functioning independent pawls give double safety and make fine adjustments possible.

# 5. OVERLOAD PROTECTION (Optional) Overload Protection is recommended for

additional safety to personnel and materials. When the setting is exceeded, the Precision Clutch Type Overload Protection will instantly prevent hoisting.

## 6. SINGLE HANDED

FREE WHEELING
The length of the load chain by merely switching the Change-over lever lo "Neutral (Free Wheeling)"

Ever thought why Proffesional Engineers & Mining Managers have chosen Nitchi for more than 30 Years?

## **NITCHI MODEL RB5 LEVER HOIST**

Standard Specifications

Item No.	Rated load (t)
RB50080 (F)	0.8
RB50160 (F)	1.6
RB50320 (F)	3.2
RB50630 (F)	6.3



#### **NITCHI MODEL H-50A HAND-OPERATED CHAIN HOIST**

Standard Specifications

Capacity (Ton)
1
1.6
2
3.2
5
10
16
20
25
32
40
50

· Low pulling effort required

Two independent Pawls

4: 1 Safety Factor

Ring Type Hooks available

 OLP Overload protection Models available (Optional)

Spare parts stocked







Tested and conforms to SANS 1594

# **Nitchi Electric Chain Hoists**



#### "The first choice for underground Battery Bays"

Model Type	Capacity	Hook to Hook Drawn Up Dimention	model MGT  With Geared crawl close coupled Drawn Up Dimention	model MGT  With Electric crawl close coupled Drawn Up Dimention	
MH5	2 ton	725mm	710mm	725mm	
MILIO	2 (011	72311111	7 10111111	72311111	
MH5	3 ton	765mm	770mm	805mm	
MH5	5 ton	925mm	955mm	975mm	
MH5	10 ton	1150mm	-	1200mm	
Ultra low MHUL	5 ton	-	-	450mm	

You can specify the length of lift required

# AVAILABLE WITH PLAIN, GEARED OR ELECTRIC TROLLEY

ULTRA LOW HEADROOM only 450mm BELOW THE BEAM

# STANDARD SPECIFICATIONS: EMT-MH-5 ELECTRIC CHAIN HOIST WITH ELECTRIC TROLLEY

				Hoist N	lotor				Trans versing			Trolley Motor				
Rated	Rated Speed 3 Phase			Load chain		Trans versing speed (m/min)			3-Phase		Breadth of Beams	Minimum	Minimum Headroom			
load (ton)	50	Hz	Outpu	ıt (kw)	ins	Rating		No's of	(,-	,			D-41		Radius Headroom	(Max.) G (mm)
	50 Hz		50 Hz		1 1 1 1 1 1 1 1 1		falls	50 Hz		Output (kw)	class	(min)	b (mm)	(m)		
2	6.7		2.5					1	20(10)		0.4			100, 125, 150	1.0	725
3	4.4		2.5		В	30		1	20(10)		0.4	Ε	30	100, 125, 150	1.5	765
5	2.6		2.5				2		10(20)		0.4 (0.7)			100, 150, 175	1.5	925

It's not just a hoist you are buying with Nitchi. You buy a product that has spare parts available for more than the past 30 years!

"Can every supplier say that?"





# **Star Liftket Electric Hoist**

# FTKE

#### **WORKS SINCE 1948**

Capacity	Version	Model	Speed Dual Speed Meter per Min	No Chain Falls	Drawn Up Hook to Hook	Hook To Liftket Electric Crawl
Liftket 380 vo For a full list	olt Single Three Phase Elec t of Models and Duty Ratin	tric Chain Hoist. <sup>-</sup> gs and Duty Grou	The list below is the mo-	st popular h	oist as stocked in engineeringsup	South Africa plies.co.za
125kg	125/1-8	020/52	8 mpm	1	432mm	401mm
125kg	125/1-24	020/50	24 mpm	1	432mm	401mm
125kg	125/1-24/6	051/50	24/6 mpm	1	462mm	436mm
250kg	250/2-4	020/52	4 mpm	2	485mm	454mm
250kg	250/1-8/2	021/51	8/2 mpm	1	432mm	401mm
250kg	250/1-12/3	051/52	3 mpm	1	462mm	436mm
250kg	250/1-24	050/52	24 mpm	1	462mm	436mm
500kg	500/2-6	030/50	6 mpm	2	485mm	454mm
500kg	500/2-6/1,5	051/52	6/1,5 mpm	2	515mm	489mm
500kg	500/1-8	030/52	8 mpm	1	432mm	410mm
500kg	500/1-10	070/51	10 mpm	1	492mm	460mm
800kg	800/1-8	070/54	8 mpm	1	492mm	460mm
1000kg	1000/2-4	030/52	4 mpm	2	485mm	463mm
1000kg	1000/2-5	070/51	5 mpm	2	582mm	570mm
1000kg	1000/1-6	070/55	6 mpm	1	492mm	460mm
1000kg	1000/1-6/1.5	071/55	6/1,5 mpm	1	492mm	460mm
1000kg	1000/1-10	070/53	10 mpm	1	492mm	460mm
1250kg	1250/1-8	070/56	8 mpm	1	492mm	480mm
1600kg	1600/2-4	070/54	4 mpm	2	582mm	570mm
1600kg	1600/1-8	090/55	8 mpm	1	616mm	550mm
2000kg	2000/2-3	070/55	3 mpm	2	582mm	570mm
2000kg	2000/2-3/0.75	071 /55	3/0,75 mpm	2	582mm	570mm
2000kg	2000/2-5	070/53	5 mpm	2	582mm	570mm
2500kg	2500/2-4	070/56	4 mpm	2	582mm	590mm
2500kg	2500/1	110/52	10 mpm	1	728mm	676mm
3200kg	3200/2-4	090/55	4 mpm	2	725mm	659mm
5000kg	5000/2-5	110/52	5 mpm	2	858mm	806mm
	Litk	et 220 volt Single	Phase Electric Chain He	oist		
250kg	250/1-8	020/01	8 mpm	1	432mm	401mm
500kg	500/2-4	020/01	4 mpm	2	485mm	454mm
1000kg	1000/1-6	070/01	6 mpm	1	492mm	460mm
2000kg	2000/2-3	070/01	3 mpm	2	582mm	570mm
		Lif	tket B1 Models			
500kg	500/1-10	4/00H	10 mpm	1	496mm	455mm
1 ton	1000/2-5	4/00H	5 mpm	2	589mm	548mm
1 ton	1000/1-5	4.1/00J	5 mpm	1	496mm	455mm
2 ton	2000/2-2.5	4.1/00J	2.5 mpm	2	589mm	548mm



#### **Star-Liftket. Models from** 125kg up to 25 Ton



**Tried and Tested** the most effective **Brick Yard Production Hoist** 

All STAR LIFTKET electric hoists incorporate a special safety clutch - brake system. The sliding clutch is located between motor and brake in such a way that the brake will hold the load safely even if the clutch is totally worn. All LIFTKET electric chain hoists can be suspended on suspension eyes or delivered with push or electric trolleys. For maximum lifting height all LIFTKET hoists can be mounted on the top of the steel construction (foot assembly).

LIFTKET electric chain hoists are completely produced in Germany.

Up to 240 starts per Hour, Very Low Headrooms

Liftket produce a full range of hoists to meet exact criteria for any job. The hoists are built to perform to the specifications of the FEM Duty Group in which they are selected

For more information & specs on the full range of hoists please visit www.engineeringsupplies.co.za

Engineering Supplies and Marine Equipment Supplies
Can send a Hoist specialist to help you make the correct decision when selecting a hoist. By selecting the correct hoist, not only will you save money,

Can send a Hoist specialist to help you make the correct decision when selecting a hoist. By selecting the correct hoist, not only will you save money,

If you need to repair, test and re-certify any type of lifting equipment, we have a specialist repair facility. Engineering Supplies and Marine Equipment Supplies are registered with the department of Labour as a LME and we have certified LMI Staff. The test Certificates we issue are fully compliant, We Do It Right!

# **Power Liftket Electric Hoist**



# 25 tons With only 2 Falls of Chain!

#### Applications:

- load centre does not move, therefore simple single point suspension will be possible - advantage versus wire rope winches
- suitable for construction business and maintenance work with variable lifting heights - including mobile applications
- for special cranes with very low headroom foot mounting available

Model	235/50	235/50
Туре	12500/1 -6.4/1 .6	25000/2-3.2/0.8
Capacity	12500kg (12.5 Ton)	25000kg (25 Ton)
Numbers of load falls	1	2
Lifting speed (m/min)	6.4/1.6	3.2/0.8
Lifting motor (kW)	12.5	12.5
Duty rate (%), starts/hour	25/10/150	25/10/150
Dimension of load chain (mm)	23.5 x 66	23.5 x 66
Duty group hoist FEM	1 Bm	1 Bm

#### **TECHNICAL DATA**

Mode of control: 24 V low voltage control

other voltages optional

Overload protection: sliding clutch

Limitation of lifting movements: electric limit switches

Insulation class: IP 55

Stationary suspension: suspension eye Type of trolley: electric trolley N 140-230 Flange width (mm): S1 220-310

Travelling speed (m per min): 4 + 16

**Suitable for: Trackless Mining Workshops** Shaft Slinging Operations
Process Plant

THE PERFECT HOIST FOR HEAVY INDUSTRY & MINING
If you need the load point to remain fixed . The Liftket Heavy Lift 12 & 25 Ton Units using chain will

Suitable for Mine Shaft Slinging operations, heavy duty steel fabrication, power plants & process plants. lift in a straight line. Cable hoists tend to move the rope and hook across the width of the drum.

• 25 Ton - Only 2 falls of Chain • 12 Ton - Single Fall of Chain

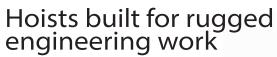




# **Donsa Lever & Chain Hoists**

# ONSA





	Diminesion	lift rated capacity	Falls of Chain
750 kg	295mm	16kg	1
1,5 ton	325mm	18kg	1
3 ton	395mm	33kg	1
6 ton	590mm	35kg	2

You can specify the length of lift required

- Korean Manufactured
- Two Independent Pawls
- All units load tested and certified prior to despatch in South Africa
- F.O.S Min 4:1
- Locally assembled

Tested and conforms to SANS 1636



Spare parts stocked across the full range at **Engineering Supplies** 

Capacity	Drawn Up Diminesion	Hand chain Effort to lift rated capacity	Falls of Chain
500 kg	315mm	21kg	1
1 ton	315mm	24kg	1
1.5 ton	340mm	30kg	1
2 ton	380mm	34kg	1
3 ton	475mm	36kg	2
5 ton	635mm	38kg	3
10 ton	790mm	43kg	3
15 ton	1040mm	47kg	5

**FULL TRACEABILITY** ON BOTH UNIT AND **LOAD CHAIN.** 

Tested and conforms to SANS 1594



# THINGS DON'T LIFT THEMSELVES

# **Donsa-X Electric Hoist**



# **DONSA**ELECTRIC HOIST

Available from **0.5 to 5T** 

# Donsa-X Electric Hoists 500Kg – 5 000Kg

Donsa-X IP 54 electric chain hoists suitable for mining and industrial applications.

#### Features Include

- Mechanical brake
- High performance durable motor
- Calibrated case hardened load chain
- Bottom hook with a built-in thrust bearing that ensures smooth rotation of the bottom hook
- Available with motorized trolley
- 380 Volt / 525 Volt
- Full range of spares available









# **Tsala Lever & Chain Hoists**

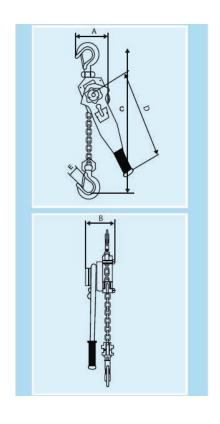
# **TSALA**

# Available from **0.5 to 6T**

## Tsala Lever Blocks HSH-A

- Top and Bottom hook safety latches.
- Low pulling effort required for lifting and lowering
- Designed for grade 80 chain with good elongation
- · Heat treated gears.
- Double pawl and load activated mechanical brake.
- High factor of safety.
- Individual serial number for each unit.
- Static and dynamic load tested.
- Test certificate issued.

Capacity	Standard Lift	Load Chain Dia	Falls of Chain	Handle Pull	Nett Weight	Dimentions mm				
Ton	М	mm		kg	kg	Α	В	C	D	Е
0.75	3	6.0	1	14.3	7.2	136	148	325	280	30
1.5	3	8.0	1	22.4	11.8	160	172	380	410	35
3	3	10.0	1	32.6	23.0	180	200	480	410	40
6	3	10.0	2	34.7	33.0	235	200	620	410	50





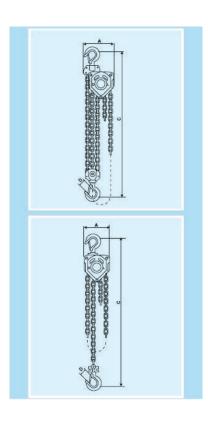


# Available from **0.5 to 20T**

#### Tsala Chain Blocks HSZ-A

- Compact Design
- Low pulling effort
- Traceability and serial numbered
- Dynamic and static load testing
- Serial number stamped on
- Test certificate issued
- Dual brake pawls

Capacity	Standard Lift	Load Chain Dia	Falls of Chain	Test Load	Nett Weight	Dimentions mm			1
Ton	М	mm		Ton	kg	Α	В	C	D
0.5	3	6.0	1	0.75	10	127	131	270	25
1.0	3	6.0	1	1.50	12	158	140	317	27
1.5	3	8.0	1	2.25	18	187	161	399	30
2.0	3	8.0	1	3.0	24	187	161	414	30
3.0	3	8.0	2	4.5	32	210	161	465	40
5.0	3	10.0	2	7.5	46	253	184	363	50
10.0	3	10.0	4	12.5	71	271	184	760	76
20.0	3	10.0	8	25.2	145	271	184	865	90







# **Tsala Plain & Geared Crawls**





# Tsala Plain Crawls **0.5 to 10T**

#### Plain crawls (push / pull)

- The load on the chain block suspended from the crawl is moved by pulling on the load to move the load backwards and forwards.
- The crawl wheels are shaped to fit on both "I" beams and RSJ beams.
- The crawl width is adjustable to get it to fit on a range of beams applicable to the weight of the load.
- The suspension point is an eye in the adjustment rod.
- The crawls come complete with anti-tilting lugs to prevent the crawl from dislodging from the beam under load.
- The crawls come with lock nuts to retain the width set when fitted to the beam.
- The crawl capacity range from 500kg to 10ton



# Tsala Geared Crawls 1 to 10T

# Geared crawls (Chain operated to move the load backward and forward)

- The load on the chain block suspended from the crawl is moved by pulling on the hand chain affixed to the hand wheel attached to the crawl.
- ${}^{\bullet}$  The crawl wheels are shaped to fit on both "I" beams and RSJ beams.
- The crawl width is adjustable to get it to fit on a range of beams applicable to the weight of the load.
- The suspension point is an eye in the adjustment rod.
- The crawls come complete with anti-tilting lugs to prevent the crawl from dislodging from the beam under load.
- The crawls come with lock nuts to retain the width set when fitted to the beam.
- The crawl capacity range from 1ton to 10ton



# **Tsala Beam & Plate lifting Clamps**

# Tsala Beam Clamps (1 000kg to 10 000kg) Steel beam clamps that accommodate

a range of beam sizes.

- Adjustable jaw opening
- · Lightweight and compact
- Built out of high-tensile steel, resistant to cracks
- Available from 1 000kg to 10 000kg
- · Baked epoxy finish
- Test certificate issued





# Tsala Plate Lifting Clamps

- Dependable latch type safety lock. (spring type clamping mechanism)
- · Automatic powerful clamping mechanism, clamps securely in proportion to the weight of the load.
- Clamps with force of more than twice the lifting load, yet leaves the materials free from unnecessary scars.
- Induction-hardened, special alloy steel cam.
- Main body made of high-tensile steel with a precision forged construction resistant to cracks.
- Round swivel jaw to grip steel plates securely
- Easy-to-handle, large-sized lifting shackle.
- Baked epoxy finish.
- Test certificate issued.

#### Capacity

1 ton 2 ton

3 ton

5 ton

#### **TSALA VERTICAL PLATE CLAMP**





#### Capacity

750kg

1.5 ton

2 ton

#### TSALA HORIZONTAL PLATE CLAMP



# **Donsa Drum Lifting Clamps**



# Drum Lifting Clamps All rated 500Kg - suitable for 210 litre drums

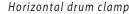
- · Made of high tensile steel
- 500kg safe working load
- · Suitable for 210 litre drums
- Available in 3 variants to suit various applications :

Vertical drum clamp



Vertical Ring type drum clamp



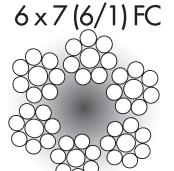




# **Donsa General Purpose Ropes**



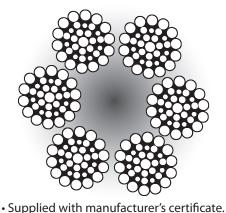




Nominal Rope Dia mm

> 1.5 2

 $6 \times 36 (14/7 + 7/7/1)$  FC

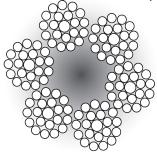


Nominal Rope Dia mm

Nominal Rope Dia  $\mathsf{mm}$ 

- Supplied with manufacturer's certificate.
- All ropes manufactured to JIS standard.
- Galvanised rope lubricated with light dry lubrication.
- Used where less flexibility is required.
- · Also available PVC covered for bell
- wire application.

6 x 19 (12/6/1) FC

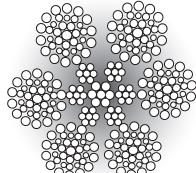


Nominal Rope Dia mm

 $6 \times 36 (14/7 + 7/7/1)$  IWRC

lubrication.

• All ropes manufactured to JIS standard. • Galvanised rope lubricated with light dry



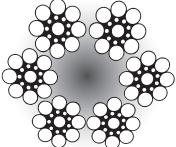
- - All ropes manufactured to JIS standard.
  - Galvanised rope lubricated with light dry lubrication.

6 x 19 (9/9/1) FC

• Supplied with manufacturer's certificate. • All ropes manufactured to JIS standard.

• Used where less flexibility is required. · Also used for the manufacture of slings.

• Galvanised rope lubricated with light dry lubrication.



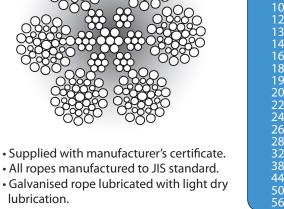
Nominal Rope Dia  $\mathsf{mm}$ 

13 16

22

- Supplied with manufacturer's certificate.
- All ropes manufactured to JIS standard.
- Galvanised rope lubricated with light dry lubrication.
- Also used for the manufacture of slings.

WE STOCK CRANE ROPES





# **Steel Wire Rope Slings**

# **DONSA**



S	⊂.	А	N	1	VI	€

				work	king load	d limit (W	/.L.L) of	wire rop	e slings	assemb	lies			
			1 leg	- 1 part	1 leg	- 1 part		2 leg	s - 1 Pai	ts each		2 legs - 2 Parts each	Endless	
The data supplied applies to hand and mechanically spliced slings in the more popular rope diameters and configurations.		8	Reeved	Reeved	<b>\$</b>		1			Reeved	\$		Max perm- itted angle 90°	
MINIMUM PERMITTED FAC	TOR OF	SAFETY	6:1	6:1	6:1	6:1	6:1	6:1	6:1	6:1	6:1	6:1	8:1	
ROPE CONSTRUCTION	Rope Diameter	Est. Breaking Force KN	Vertical Lift	Choker Hitch	Halshing Sling	Cradle Sling	30°	60°	90°	120°	Reeving Sling	Double Cradle Wrap Sling	Endless with Bright	Rope Diameter
6 x 19 (9/9/1)F 1800 MPa RH Ordinary Lay	10 13	59 101.8	1.00 1.73	0.75 1.3	1.50 2.59	1.41 2.44	1.93 3.34	1.73 2.99	1.41 2.44	10 10	1.06 1.83	2.84 4.89	1.13 1.95	10 13
6 x 36 (14/7 + 7/7/1)F	13 16	102.5 156.3	1.74 2.66	1.31 1.99	2.61 3.98	2.46 3.74	3.36 4.13	3.01 4.59	2.46 3.74	1.74 2.66	1.85 2.81	4.93 7.51	1.96 2.99	13 16
1800 MPa RH Ordinary Lay	19 20 22	221.4 242.4 297	3.76 4.12 5.08	2.82 3.09 3.78	5.64 6.18 7.57	5.30 5.81 7.11	7.26 7.95 9.74	6.51 7.12 8.73	5.30 5.81 7.11	3.76 4.12 5.05	3.99 4.37 5.35	10.64 11.65 14.28	4.23 4.63 5.68	19 20 22
	24 26	342.2 405.8	5.81 6.89	4.36 5.17	8.72 10.34	8.20 9.72	11.22 13.31	10.06 11.93	8.20 9.72	5.81 6.89	6.16 7.31	16.45 19.51	6.54 7.76	24 26
	28 32	479.7 627.2	8.15 10.66	6.11 7.99	12.22 15.98	11.49 15.02	15.73 20.57	14.10 18.43	11.49 15.02	8.15 10.66	8.64 11.30	23.06 30.16	9.17 11.99	28 32
	13 16 18	113.5 172.4 217.3	1.93 2.93 3.69	1.45 2.20 2.77	2.89 4.39 5.54	2.72 4.13 5.21	3.72 5.65 7.13	3.34 5.07 5.39	2.72 4.13 5.21	1.93 2.93 3.69	2.04 3.10 3.91	5.46 8.29 10.45	2.17 3.30 4.15	13 16 18
6 x 36 (14/7 + 7/7/1) WRC 1800 MPa RH Ordinary Lay	19 20	243.7 268.8	4.14 4.57	3.11 3.43	6.21	5.84 6.44	7.13 7.99 8.81	7.16 7.90	5.84	4.14 4.57	4.39 4.84	11.72 12.92	4.66 5.14	19 20
	22 24 26	326.8 393.2 449.4	5.55 6.68 7.64	4.16 5.01 5.73	8.33 10.02 11.45	7.83 9.42 10.77	10.72 12.89 14.74	9.61 11.56 13.21	7.83 9.42 10.77	5.55 6.68 7.64	5.89 7.08 8.09	15.71 18.91 21.61	6.25 7.52 8.59	22 24 26
	28 32	529 691.6	8.99 11.76	6.74 8.82	13.48 17.64	12.67 16.58	17.35 22.70	15.55 20.53	12.67 16.58	8.99 11.76	9.53 12.47	25.43 33.29	10.11	28 32

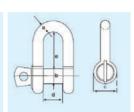


# **Lifting Shackles**









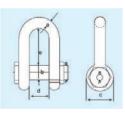
#### Screw Pin Dee Shackles with screw collar pin

: Bow: high tenstile, pin: alloy Material : Generally to US Fed. Spec. RR-C-2-71F. Standard : Hot dipped galvanised. Certificates : Certificates can be supplied on request.

FOS

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
a tons	b mm	C mm	d mm	e mm	mm	kg
0.50	6	8	16	12	22	0.05
0.75	8	10	19	13.5	26	0.08
1.00	10	11	23	17	32	0.13
1.50	11	13	27	19	37	0.20
2.00	13	16	30	20	41	0.27
3.25	16	19	38	27	51	0.57
4.75	19	22	46	32	60	1.19
6.50	22	25	53	36	71	1.43
8.50	25	28	61	43	81	2.16
9.50	28	32	68	46	90	3.06
12.00	32	35	76	51	100	4.11
13.50	35	38	84	57	111	5.28
17.00	38	42	92	60	122	7.24
25.00	45	50	106	73	146	12.14
35.00	50	57	119	83	171	16.86
55.00	65	70	145	105	203	32.65





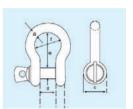
#### Safety Dee Shackles with safety bolt, nut & split pin

: Bow: high tenstile, pin: alloy Material Standard : Generally to US Fed. Spec. RR-C-271F. : Hot dipped galvanised. : Certificates can be supplied on request. : 6:1

Certificates FOS

FOS : 6							
working load limit		diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
	a tons	b mm	C mm	d mm	e mm	mm	kg
	2.00	13	16	30	20	41	0.34
	3.25	16	19	38	27	51	0.67
	4.75	19	22	46	32	60	1.14
	6.50	22	25	53	36	71	1.75
	8.50	25	28	61	43	81	2.52
	9.50	28	32	68	46	90	3.45
	12.00	32	35	76	51	100	4.91
	13.50	35	38	84	57	111	6.24
	17.00	38	42	92	60	122	8.40
	25.00	45	50	106	73	146	14.26
	35.00	50	57	119	83	171	18.53
	55.00	65	70	145	105	203	35.33





#### **Screw Pin Bow Shackles** with screw collar pin

: Bow: high tenstile, pin: alloy Material : Generally to US Fed. Spec. RR-C-271F. Standard

: Hot dipped galvanised.

Certificates : Certificates can be supplied on request.

FOS : 6:1

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
a tons	b mm	c mm	d mm	e mm	f mm	mm	kg
0.50	6	8	16	12	29	20	0.05
0.75	8	10	19	13.5	31	21	0.09
1.00	10	11	23	17	37	26	0.14
1.50	11	13	27	19	43	29	0.17
2.00	13	16	30	20	48	33	0.33
3.25	16	19	38	27	60	43	0.62
4.75	19	22	46	32	71	50	1.07
6.50	22	25	53	36	84	58	1.64
8.50	25	28	61	43	85	68	2.28
9.50	28	32	68	46	108	74	3.36
12.00	32	35	76	51	119	82	4.31
13.50	35	38	84	57	133	92	6.14
17.00	38	42	92	60	146	98	7.81
25.00	45	50	106	73	177	127	12.61
35.00	50	57	119	83	197	138	18.33
55.00	65	70	145	105	260	185	37.90







#### Safety Bow Shackles with safety bolt, nut & split pin

: Bow: high tenstile, pin: alloy Material : Generally to US Fed. Spec. RR-C-271F. Standard

Finish : Hot dipped galvanised. : Certificates can be supplied on request.

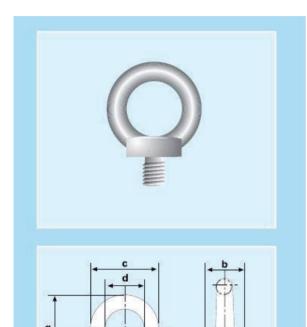
Certificates FOS : 6:1

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
a tons	b mm	C mm	d mm	e mm	f mm	mm	kg
0.75	8	10	19	13.5	31	21	0.10
1.00	10	11	23	17	37	26	0.16
1.50	11	13	27	19	43	29	0.22
2.00	13	16	30	20	48	33	0.36
3.25	16	19	38	27	60	43	0.76
4.75	19	22	46	32	71	50	1.23
6.50	22	25	53	36	84	58	1.79
8.50	25	28	61	43	95	68	2.57
9.50	28	32	68	46	108	74	3.75
12.00	32	35	76	51	119	82	5.32
13.50	35	38	84	57	133	92	7.19
17.00	38	42	92	60	146	98	9.44
25.00	45	50	106	73	177	127	15.40
35.00	50	57	119	83	197	138	20.06
55.00	65	70	145	105	260	185	41.40

# **Eyebolts & Eyenuts**

# (DONSA)





## **Eyebolts**

## Generally to DIN 580

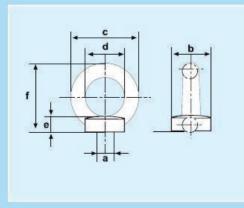
Material : Carbon steel, C15.
Standard Factor : MBL equals 4 x WLL.
Standard : Generally to DIN 580.
Finish : Electro-galvanised.

• Certificates : Certificates can be supplied on request.

working load limit	diameter pin	width base	diameter eye	diameter eye inside	length inside	thickness base	height	weight per 100 pcs
		b		d			g	
tonnes	mm	mm	mm	mm	mm	mm	mm	kg
0.07	6	20	36	20	13	6	36	6.0*
0.14	8	20	36	20	13	6	36	6.0
0.23	10	25	45	25	17	8	45	10.3
0.34	12	30	54	30	20.5	10	53	17.7
0.49	14	35	63	30	27	12	60	27.7*
0.70	16	35	63	35	27	12	62	28.0
0.90	18	40	72	35	30	14	71	40.5*
1.20	20	40	72	40	30	14	71	42.4
1.50	22	45	81	40	35	14	80	67.3*
1.80	24	50	90	50	36	18	90	83.4
2.50	27	50	90	50	36	18	90	122.0*
3.60	30	65	108	50	45	22	109	166.0
4.30	33	65	108	60	45	22	110	216.0*
5.10	36	75	126	70	54	26	128	265.0
6.10	39	75	126	70	54	26	130	334.0*
7.00	42	85	144	80	63	30	147	403.0
8.00	45	85	144	80	63	30	150	521.0*
8.60	48	100	166	90	68	35	168	632.0
11.50	56	110	184	100	78	38	187	0.088
16.00	64	120	206	110	90	42	208	1240.0

sizes marked  $\ensuremath{^*}$  are additional and proportional to the specification





# **Eyenuts**

#### Generally to DIN 582

Material : Carbon steel, C15.
 Standard Factor : MBL equals 4 x WLL.
 Standard : Generally to DIN 582.
 Finish : Electro-galvanised.

• Certificates : Certificates can be supplied on request.

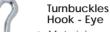
working load limit	diameter thread	width base	diameter eye outside	diameter eye inside	thickness base	height	weight per 100 pcs
tonnes	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.07	6	20	36	20	8.5	36	5.2*
0.14	8	20	36	20	8.5	36	5.2
0.23	10	25	45	25	10	45	9.4
0.34	12	30	54	30	11	53	16.0
0.49	14	35	63	30	13	60	22.0*
0.70	16	35	63	35	13	62	24.0
1.20	20	40	72	35	16	71	35.2
1.50	22	45	81	45	18	80	58.6*
1.80	24	50	90	40	20	90	70.6
2.50	27	50	90	50	20	90	102.0*
3.60	30	65	108	50	25	109	132.0
4.30	33	65	108	60	25	110	170.0*
5.10	36	75	126	70	30	128	208.0
6.10	39	75	126	70	30	130	260.0*
7.00	42	85	144	80	35	147	311.0
8.00	45	85	144	80	35	150	407.0*
8.60	48	100	166	90	40	168	502.0

sizes marked \* are additional and proportional to the specification

# **Turnbuckles - Rope Clamps - Thimbles**







- Material
- StandardFinish
- Drop forged
- mild steel

  DIN 1480
- Electro-galvanised

Diameter Thread
a mm
6 8 10 12 16 20 22 24



#### **TURNBUCKLES**

#### Turnbuckles Eye - Eye

- Material
- Standard Finish
- Drop forged
- mild steel DIN 1480
- Electro-galvanised

Diameter Thread
a mm
6 8 10
12 16
20 22 24



#### **Turnbuckles** Hook - Hook

- Material
- Standard Finish
- Drop forged mild steel DIN 1480
- Electro-galvanised

Thread	
a mm	
6 8 10 12 16 20 22 24	

Diameter

#### **WIRE ROPE CLAMPS**





_		_
	Wire Rope Dia	
	mm	
	3 5 6 8 10 13 16	

U.S Fed.Spec. FF-C-450 Type 1 Class 2 (Bulldog)

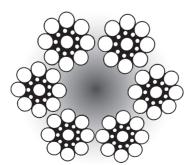
Wire	
Rope Dia	
mm	
3 5 6 8 10 13 16 20	

U.S Fed.Spec. FF-C-450 Type 1 Class 1









Thimbles British Standard B.S.464

Groove	Rope
Width	Dia.
mm	
6	1/4
8	5/16
10	3/8
11	7/16
13	1/2
14	9/16
16	5/8
18	11/16
20	3/4
22	7/8
24	15/16
25	1"
27	1 1/8
30	1 1/4
35	1 3/8
37	1 1/2
42	1 5/8
45	1 3/4
48	1 7/8
50	2"













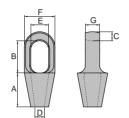
# **Sockets & Hooks**

# Sockets

# Closed spelter socket SO1 type

cast steel
US Federal Spec RR-S-550D, type C standards:

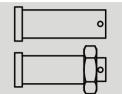
finish: painted / galvanised safety factor: 5:1



#### Pin types

Standard pins are used in non permanent and pick

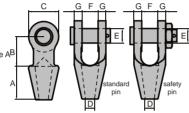
Safety pins are used for more permanent applications or where the load may slide on the pin causing rotation of the pin.



# Open spelter socket SO2 type

material: cast steel

standards: US Federal Spec RR-S-550D, type AB finish: painted / galvanised safety factor: 5 : 1







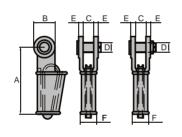


#### Open wedge socket

SO3 type

material

standards: cast steel
US Federal Spec RR-S-550D, type B
finish: painted / galvanised
safety factor: 5:1





Asymmetrical Wedge Sockets



In a pull test, wire rope in asymmetrical wedge sockets achieve between 80% to 95% of the breaking load of the wire used depending on the design of the

Resin or Metallic Spelter Sockets



In a pull test, resin or metallic spelter sockets transfer 100% of the breaking load of the wire used.

# Hooks



CODE 17144

HOOK **DOUBLE LOCKING S/S** 



1	SIZE	CODE	
	5mm	10364	
	8mm	16862	
	10mm	16863	
	12mm	16864	

HOOK **CARABINE W/SCREW S/S** + ELECTRO GALV



SIZE	CODE
50mm	85010- 01
70mm	85010- 02
100mm	85010- 03

**HOOK - SNAP SPRING** 





SIZE	CODE
5mm	10364/1
6mm	10365
8mm	10366
10mm	10367
12mm	10368



	SIZE	CODE
	12mm	16701
)	16mm	16701/3
	22mm	16701/1



SIZE	S.W.L. kg	WT/PC kg
M6	350	0,039
M8	650	0,150
M10	1000	0,295
M13	1400	0,667
M16	2500	1,205

**HOOK - CARABINE S/S** + ELECTRO GALV SHACKLE SWIVEL SNAP S/S

SWIVEL - S/S + ELECTRO GALV

# Fibre Ropes & Splicing Equipment



# Ropes



#### **Nylon Rope**

Specific gravity - 1.15 Melting point Elongtri. at breaking load - ± 20%



#### Polypropylene Rope

Melting point Elongtri. at breaking load - ± 20%



## **Polyester Rope**

Specific gravity Melting point - ± 260° Elongtri. at breaking load - ± 15%



#### Manilla Rope

Specific gravity Melting point Elongtri. at breaking load - ± 20%



## Polysteel Rope

Specific gravity - 0.91 Melting point Elongtri. at breaking load - ± 20%

# **Splicing Equipment**







**Caulking Cotton** 500g Ball

**Wooden Serving Mallet** 



200-8 Point 250-10 Point 300-12 Point 350-14 Point 400-16 Point 450-18 Point 500-20 Point

600-24 Point



300mm x 40mm 350mm x 50mm 400mm x 50mm 450mm x 60mm

500mm x 80mm 500mm x 100mm

# Rope Blocks, Pulleys & Iron Blocks





# **ROPE BLOCKS**

#### **Double Sheave**

Rope Dia (mm)	Sheave Dia SWL (mm) (kg)	
10	65	300
13	90	350
16	100	600
20	120	850
22	125	1200
24	150	1500



#### **Single Sheave**

Rope Dia (mm)	Sheave Dia (mm)	SWL (kg)
10	65	65
13	90	120
16	100	200
20	120	300
22	125	400
24	150	550



#### **Treble Sheave**

Rope Dia (mm)	Sheave Dia (mm)	SWL (kg)
10	65	350
13	90	400
16	100	700
20	120	1000
22	125	1300
24	150	2000





SINGLE

DOUBLE

SBPSB 50

SBPS 80

SBPSB 80

SBPDB 80

SBPSB 100



YES

NO

YES

YES

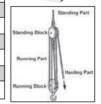
8-10

12-14





250



# **PULLEYS**

#### **SNATCH / CARGO BLOCK**

CODE		WIRE DIA mm	SHEAVE OUTSIDE DIA mm	BRACKET HOLD DIA mm	EYE SIZE INSIDE DIA mm
SBBS 1T 8/10	1	8 - 10	125	12	48 X 24
SBBS 2T 12/14	2	12 - 14	175	18	68 X 32
SBBS 3T 16/18	3	16 - 18	200	20	74 X 35
SBBS 5T 20/22	5	20 - 22	300	24	80 X 38
SBBS 8T 24/26	8	24 - 26	350	30	90 X 46
SBBS 10T 28/32	10	28 - 32	400	34	150 X 65



# **GALVANISED MALLEABLE IRON BLOCKS**

mm	INCH	FIBRE DIA mm	SINGLE	DOUBLE
76	3	12	0.2	0.4
102	4	16	0.4	0.9
127	5	18	0.5	1.1
152	6	24	1.0	2.0





# **Chain Sling Systems**





Engineering Supplies and Marine Equipment Supplies stock Grade 80 and Grade 100 chain slings that are manufactured according the EN818-2-8 International

Standard. When used in a sling the EN818-4-8 Standard applies to identify hazards and to prevent these during lifting of loads.

The OEM Certificates are kept on file for future use and to retain the details on the markings of each batch of chain received.

All the chain sling components are manufactured in line with:

- DIN EN 1677-1 Forged steel components requirements Gr8 DIN EN 1677-2 Forged steel lifting hooks with latch Gr8 DIN EN 1677-3 Forged steel self-locking hooks Gr8 DIN EN 1677-4 Links Gr8

Here again the OEM certificates with the traceability markings that were applied on each batch of components received are kept on file at our office.

All chain slings assembled at Engineering Supplies and Marine Equipment supplies are issued with distinct serial numbers and workload limits to ensure maximum safety for the users if applied correctly.





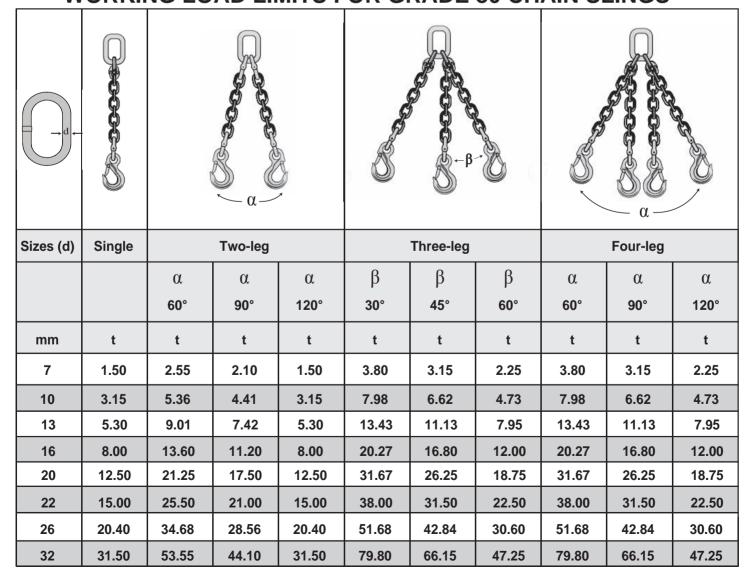








## **WORKING LOAD LIMITS FOR GRADE 80 CHAIN SLINGS**



# **Studlink Chain & Fittings**



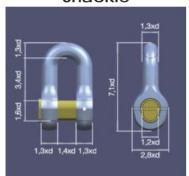
Stud link Chain also referred to as Anchor chain is strong chain and has a short cross-piece (Stud) across its middle which gives the chain extra rigidity and thus increase the lifespan based on fatigue.

Stud link chain is normally used as anchor cable chain, but can also serve the purpose of mooring chain.

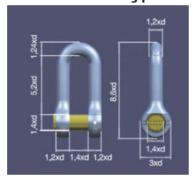
MES stud link chain normally comes in lengths of 27.5 metres and supplied with black bitumen coating and provided in grades U2 and U3.

Our Stud link chain can all be provided with chain link fittings such as Kenter Shackles or Joining shackles, our Studlink chain and fittings come with test certification to all the relevant class societies and Lloyds Approval if required.

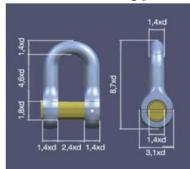
Marine Joining Shackle



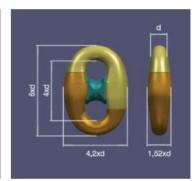
Marine End Joining Shackle D-Type



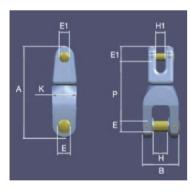
Marine Anchor Shackle D-Type



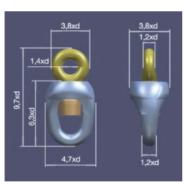
**Kenter Shackle** 



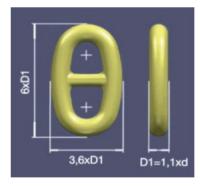
**Swivel Shackle** 



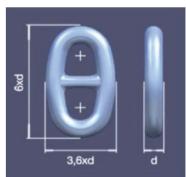
Swivel



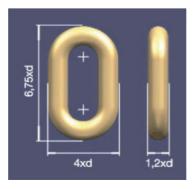
Stud Enlarged Link



**Stud Common Link** 



**End Link** 



# **Lashing Equipment**



# (DONSA)

## **Donsa Ratchet Webbing Load Restraints**

Safe and secure – meets all legal requirements Fast tensioning release and re-tensioning Durable, high visibility polyester webbing Corner protectors of various duties available







Ratchet Tensioner complete with strapping





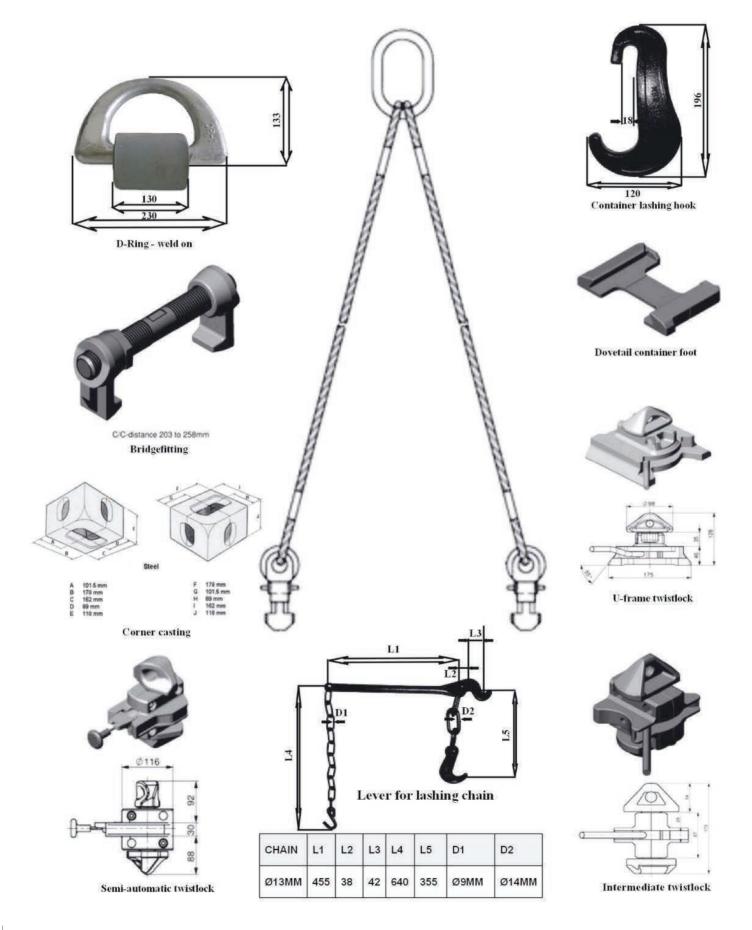


n clawhook J Hook

# **Container Securing Equipment**

# DONSA





# **Nets, Ship Ladders & Gangway Ladders**

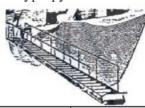


Polypropylene Rope Cargo Net Slings



Net Size	2.5m x 2.5m; 3m x 3m
Mesh Size	200mm x 200mm
Rim Rope Size	24mm dia
Mesh Rope Size	18mm dia

#### Gangway Safety Nets Polypropylene



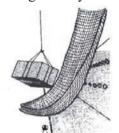
Net Size	5m x 10m; 4m x 16m
Mesh Size	150mm
Rim Rope Size	10mm dia
Mesh Rope Size	8mm dia

Wire Rope Cargo Net Slings



Net Size	2.5m x2.5m; 3m x 3m
Mesh Size	200mm x 200mm
Wire Rope Construction	6 x 24 Galv
Rim Rope Size	12mm dia
Mesh Rope Size	9mm dia

Cargo Safety Nets



Made to order, please specify:

- Name of synthetic rope Size of overall length and width Size of mesh opening Rope size of rim Rope size of mesh



#### **SPARES**

PRODUCT:	CODE:
Wooden steps (pilot ladder)	12592
Wooden steps spreader (pilot ladder)	12593
Wooden poppets (pilot ladder)	12594
Rubber steps (pilot ladder)	12591
Wooden round steps (Jacob's ladder)	12595
Pilot Ladder (per metre)	12589
Jacob's Ladder (per metre)	12590

ALL PILOT LADDER MADE TO THE ISO 799:2004(E) STANDARD









**ISO 7061** Shipbuilding - Aluminium shore gangways for seagoing vessels.







# **Wire Rope Winches**

# (DONSA)

# Affordable quality you can rely on.

# Newly improved Donsa Wire Rope Winch.

Versatile and robust, the Donsa wire rope winch is fast and easy to install and operate. The wire rope and Donsa winches insure continuous operation without snatching. Regular Lubrication and cleaning of the Donsa winch guarantees maintenance free operation. Overload protection provided as standard design.

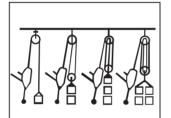


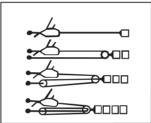
Increase the capacity of lifting and pulling power with multiple sheave blocks. By utilising multiple sheave blocks with the Donsa wire rope winch, the nominal capacity can be increased by ,3, or 4 times as illustrated in the diagram below. For most applications an allowance must be made for friction on the sheaves. Always ensure that the capacity of the blocks and fittings and anchor points are suitable for load.



MODEL No	D-15	D-35
Lifting Capacity	1.500kg	3.000kg
Pulling Capacity	2.500kg	5.000kg
Test to	3.000kg	6.000kg
Length of Handle	1.050mm	1.210mm
Steel wire Rope	IWRC 11.6mm dia	IWRC 16mm dia
Nett Weight without Wire Rope	22kg	31.5kg
External Dimentions	62 x 30 x 15cm	72 x 32 x 14cm
Material Casing	Pressed Steel	AL Casting
Transmission Speed Rate/Minute	3m/min	3m/min
Breaking Streght of Wire Rope	9.680 kg	17.200
SAfety Device	Safety Hooks	Safety Pins

- Infinite Rope Length
- Excellent Backup Service
- Test Certificate
- Value for Money
- Value With Safety
- Overload limits fitted
- Spare shear pin in handle





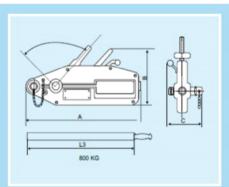
#### **DONSA CLIP 10mm - 12mm**

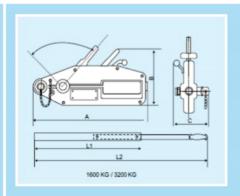
The efficient cost effective solution for the installation of wire mesh and lacing in underground development.











MODEL		800	1600	3200
Rated capacity (kg)		800	1600	3200
Rated forward hand power (N)		341	400	438
Rated forward travel (mm)		52	55	28
Rope diameters (mm)		>8.3	>11	>16
Wire rope safety factor load capacity		5	5	5
Safety factor & Static load capacity		4	4	4
Max pulling load (kg)		1200	2400	400
Net weight (kg)		6.4	12	23
	Α	426	545	660
Max overall size	В	238	284	325
С		64	97	116
L1 (mm)			692	692
L2 (mm)			1200	1200
L3 (mm)		800		

# **Heavy Duty Winches & Hooks**



# (DONSA)



#### **BURKHARD WINCH: RW-I**

- 380kg CAPACITY
- SINGLE GEAR SOLID STEEL
- GEAR RATIO 3:1
- RATCHET WINCH
- EASY REMOVABLE HANDLE



#### **BURKHARD WINCH: RW-IDS**

- 800kg CAPACITY
- DOUBLE GEAR SOLID STEEL
- RATCHET WINCH
- SELF ENGAGING BRAKE MECHANISM
- "SAFETY WINCH"



#### SHIPSBRAND WINCH

- 380kg CAPACITY
- SINGLE GEAR SOLID STEEL
- GEAR RATIO 3,5:1
- RATCHET WINCH

#### SWIVEL HOOK, CARBON STEEL



W.L.L. (ton)	INSIDE LENGTH (mm)	INSIDE WIDTH OF SWIVEL (mm)	NET MASS (kg)	CODE
1	134	38	0.56699	11035
11/2	153	44.45	1.02058	14358
2	162	44.45	1.16573	11036
3	188	50.8	2.15456	11037
5	244	63.5	4.66747	11038
71/2	283	69.85	7.37088	17173



#### **BURKHARD WINCH: RW-ID**

- 800kg CAPACITY
- DOUBLE GEAR SOLID STEEL
- GEAR RATIO 7:1
- · RATCHET WINCH
- EASY REMOVABLE HANDLE



#### **BURKHARD WINCH: RW-ISS 316**

- STAINLESS STEEL
- 308kg CAPACITY
- SINGLE GEAR SOLID STEEL
- GEAR RATIO 3:1
- RATCHET WINCH
- EASY REMOVABLE HANDLE



#### GENERAL PURPOSE WINCH

- 385kg
- 544kg
- 635kg
- 725kg
- 907kgSOLID GEAR DESIGN

#### EYE HOIST HOOK, CARBON STEEL



W.L.L. (ton)	INSIDE LENGTH (mm)	INSIDE DIA OF EYE (mm)	NET MASS (kg)	CODE
1	71	16	0.34019	14355
11/2	104	28.5	0.56699	17568
2	119	31.75	0.77111	14356
3	147	39.6	1.63293	14357
5	187	50.8	3.21143	14359
71/2	230	62	5.8967	17210

# **Anchors & Anodes**

## **Anchors**





Salar III	7	
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		- 4
SIZE	CODE	
SMALL	10106	
MEDIUM	10109	
LARGE	10111	
10kg	10112	
15kg	10113	
20kg	14553	
25kg	18400	
30kg	18401	

 SIZE	CODE
30kg	18849
 40kg	18856
50kg	14340/2
75kg	14342
100kg	18850
125kg	18851
150kg	18853
200kg	18854
300kg	18855
LARGER SI AVAILABLE	ZES E ON REQUEST

FLIP (BRUCE) ANCHOR

CODE 10114 2.5kg 10115 3.5kg 5kg 10116 10117 7.5kg 10kg 10118 15kg 10119 10120 20kg 30kg 13890 50kg 17813 75kg 17814

DANFORTH ANCHOR



SIZE	CODE
0.7kg	10107
1.5kg	10100
2.5kg	10101
3.2kg	10102
4kg	10103
6kg	10104

STOCKLESS ANCHOR

	SIZE	CODE
P	2.5kg	18835
	5kg	18836
	7.5kg	18837
	10kg	18838
	15kg	18839
	22kg	18924
	30kg	18842
	35kg	18834
	50kg	18840
	75kg	18841

SAND (DELTA) ANCHOR

SIZE

SIVIALL	10139
MEDIUM	10140
LARGE	10141

CODE

**GRAPNEL ANCHOR - ROCK** 

# **Anodes**

CAST IRON FOLDING ANCHOR

ZINC BULLNOSE W/O



CODE	SIZE/TYPE
16391	1.5kg
15113	7kg
14590	10kg



CODE	SIZE/TYPE		
17673	1.5kg		
10034	4kg		
18912	8kg		
17621	10kg		
17103	21kg		
17102	26kg		

ZINC SUGARLOAF W/O



CODE	SIZE/TYPE		
16323	3.5kg		

ZINC RECT BEVEL W/O



CODE	SIZE/TYPE	
16889	17kg	

ZINC PLATE W/O



CODE	SIZE/TYPE		
17839	4kg		

ZINC SHAFT



CODE	SIZE/ TYPE	
10159	25mm	
10160 30mm		
10161	35mm	
10143	40mm	
10162	45mm	
10163	50mm	

ZINC RECT LOAF W/O





CODE	SIZE/TYPE	
16392	3.5kg	
16664	10kg	

# Foam & Pneumatic Fenders



# **Foam Fenders**



# PUNCTURE-PROOF CONSTRUCTION, LONG LIFE PERFORMANCE

These fenders are filled with special micro-bubble foam that creates a 100 percent independent closed-cell structure, which will not

absorb water.

The fact that they are puncture proof and offer superior elasticity, assures users of the excellent durability of these fenders, even under extremely severe conditions

- Wire rope covered with pipe
- Synthetic rope
- Cham net with tyres

#### Securing:

• Chain, wire or rope to suite vessels or quay side

DIAMETER (metre)	LENGTH (metre)
0.4	1
0.6	1.2
0.9	1.5
1	2
1.2	2.5
1.5	3
2.4	3.5

# **Pneumatic Fenders**

DIAMETER (mm)	LENGTH (mm)	REACTION FORCE (kN)	ENERGY ABSORPTION (kJ)	BODY FENDER mass +- 10% (kg)
1500	3000	579	153	315
2000	3500	875	308	590
2500	4000	1381	663	1050
2500	5000	1835	857	1250
2500	5500	1902	927	1333
3000	5000	2000	1050	1880
3000	6000	2488	1312	2160
3000	6500	3015	1814	2700

Guarantee Energy Absorption at 60% deflation. (Initial internal pressure 0.05 MPa)



# **Buoys & Floats**



# A series



ART NO	GROSS BUOYANCY kg	MAX LOAD kg	HEIGHT mm	DIA mm	EYE mm	Mass kg
A1	13.0	7.8	380	395	22	1.15
A2	32.2	19.2	500	390	25	2.10
A3	52.0	31.2	575	460	28	3.10
A4	90.0	54.0	710	550	28	4.10
A5	215.0	129.0	940	710	28	8.30
A6	405.0	243.0	1120	850	35	11.30
A7	670.0	402.0	1420	1100	60	23.00

# F series



ART NO	VOLUME {	LENGTH mm	DIA mm	EYE mm	Mass kg
F 01	5.3	560	130	18	0.75
F 1	8.0	610	150	22	1.00
F 02	15.0	660	200	25	1.65
F 2	16.0	610	220	28	1.75
F 3	22.0	745	220	28	2.10
F 4	35.0	1040	220	28	2.90
F 5	35.0	775	290	28	3.00
F 6	60.0	1090	290	28	4.20
F 7	85.0	1020	375	28	5.30
F 8	135.0	1440	375	28	7.60
F 11	275.0	1455	590	28	10.60
F 13	700.0	1880	750	40	23.00

# Lifejackets



#### We supply 100N Lifejackets and 150N Lifejackets

#### 100N Lifejacket

These lifejackets are designed for both swimmers and non-swimmers and are suitable for use around inshore and coastal waters. They give a reasonable assurance of safety from drowning in relatively calm waters.

These products are NOT guaranteed to self-right an unconscious person wearing waterproof clothing and should not be expected to protect the airway of an unconscious person in rough water. Under EU regulations, these lifejackets must be constructed out of a bright colored fabric with SOLAS reflective tape stitched to the front and provided with a whistle for attracting attention. They are most commonly used on inland waterways and lakes or on the coast by craft operating reasonably close to shore in fair weather and fair sea conditions. These jackets are often constructed in a foam, making them simple to fit and relatively maintenance-free.

#### 150N Lifejacket

These lifejackets are suitable for both swimmers and non-swimmers, and are designed for use in inshore as well as offshore and in all but the most severe conditions.

They give reasonable assurance of safety from drowning, to a person not fully capable of helping themselves (ie someone unconscious). However they may not immediately self-right an unconscious

person wearing heavy waterproof clothing that might trap air that could counter-act the normal righting moment of the lifejacket's buoyancy.

These lifejackets can be constructed out of foam. Under EU regulations, these jackets must be constructed out of a bright colored fabric with SOLAS reflective tape stuck to the front and provided with a whistle for attracting attention.





- Also available in 150N
- All jackets manufactured at our premises
- Locally assembled at Marine Equipment Supplies Cape Town.



# **Personnel & Working Baskets**

Personnel transfer basket is intended for marine offshore and ship to ship transfers, which increase the safety levels of personnel being lifted between two vessels say ship to ship or ship to boat, between a tanker and a ship, between a vessel and a quayside, between installations and so on.

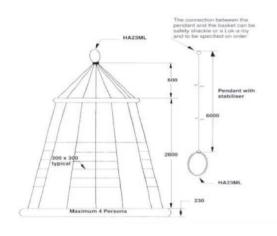


The transfer of personnel between vessels and installations using personnel baskets has been common practice in the offshore oil and gas industry for many years and the hazards are well known.

Safety and support at sea is paramount, Marine Equipment Supplies developed a basket with the highest possible safety standards, our basket is constructed to considerably enhance safety for personnel during transfers.

Our baskets are provided with a DNV certificate for the witness of load test. For additional information please contact info@coopergroup.co.za

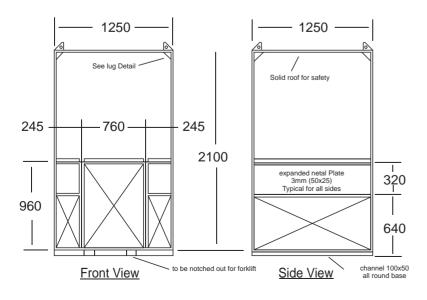
# **Personnel Basket**

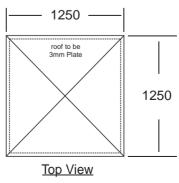


- Main lifting pendent with anti-twist stabiliser.
- Padded top spreader ring S/S.
- 18mm UV stable synthetic rope platform net with UV PVC cover.
- Access has been allowed for 1st aid stretcher.
- Closed cell foam buoyancy chamber to accommodate 5 persons, total of 250 kg buoyancy
- All stainless steel double ring framework.
- All components can be replaced and is available ex-stock for servicing and repairs.



# **Working Basket**





#### <u>Note</u>

- 1) All steel hot dip galv
- 2) Non-slip floor (vastrap 4.5mm)
- 3) Access gate
- 4) Safety rail for harness strap
- 5) Safe working load 450kg 4 Legged SWR sling with safety bow shackles fitted
- This basket would be certified for on-shore work

# **Donsa Flat & Endless Webbing Slings**



## Flat and Endless Round Webbing Slings

# DONSA

- Made from High quality industrial polyester
- Colour coded according to the safe working load
- Flat webbing slings soft eyes are reinforced to protect against damage
- Each sling has an individual serial number
- Supplied with certificate of conformance
- Duplex flat webbing slings comply to SANS94-1:2003
- Endless round slings comply to SANS94-2:2003
- Locally manufactured
- Available from 1 Ton over 125 Ton

		WLL (kg) with one endless roundsling, duplex flat strop and single leg sling					
		Staight lift	Choke lift	Up to 7°	From 7 to 45	From 45 up to 60	
Endless Roundslings			-	U			
Duplex Flat Slings		U	Ó	U	4		
Single or multi leg Slings							
Mode Factor		1.0	0.8	2.0	1.4	1.0	
1.000kg		1.000	800	2.000	1.400	1.000	
2.000kg		2.000	1.600	4.000	2.800	2.00	
3.000kg		3.000	2.400	6.000	4.200	3.000	
4.000kg		4.000	3.200	8.000	5.600	4.000	
5.000kg		5.000	4.000	10.000	7.000	5.000	
6.000kg		6.000	4.800	12.000	8.400	6.000	
8.000kg		8.000	6.400	16.000	11.200	8.000	
10.000kg		10.000	8.000	20.000	14.000	10.000	
15.000kg		15.000	12.000	30.000	21.000	15.000	
20.000kg		20.000	16.000	40.000	28.000	20.000	
25.000kg		25.000	20.000	50.000	35.000	25.000	
30.000kg		30.000	24.000	60.000	42.000	30.000	
40.000kg		40.000	32.000	80.000	56.000	40.000	
50.000kg		50.000	40.000	100.000	70.000	50.000	
60.000kg		60.000	48.000	120.000	84.000	60.8000	
80.000kg		80.000	64.000	160.000	112.000	80.000	
100.000kg		100.000	80.000	200.000	140.000	100.000	









# **Carver Clamps**

#### Rack clamps: These items are used for tough jobs in engineering which include:

- Fabrication
- Welding
- Machining
- Maintenance
- Tool room application
- The spring loaded jaws stay in position when pressure is removed
- Jaw moves to securely clamp on angle surface
- Working parts not exposed to welding splatter
- No long screws to bend
- Tightening action cannot rotate workpiece

The maximum clamping range is 1350mm

Bar clamps: As with the Rack clamps the bar clamp allows for clamping large work pieces.

The maximum clamping range is 2700mm with standard bar length, however the bars can be lengthened by using the applicable bar connectors.

#### T-Slot Clamps:

- Holds work securely on many machines including
- Horizontal and vertical boring machines
- Planers
- Millers
- Lathes
- Power presses
- Radial drills

This is quicker, more efficient and safer than using packers and bolts – no loose pieces

Can be used at any angle

Head creates a "push" action when reversed

Alternative positioning for fulcrum pin

Maximum clamping height 1500mm

#### Machine vices:

- Effortlessly handles work where conventional vices cannot
- When milling
- Grinding
- General surface operations
- Operate in two planes
- Horizontal-jaw tighten on work
- Vertical-bringing work firmly down onto machine table
- Heavy duty vice enables the full length of the machine bed to be used
- Rotatable fixing bosses allow 360° movement for accurate alignment
- Low profile gives maximum cutter access.

#### **Buttress clamps:**

• Holds work securely on many machines









**BAR CLAMP** 



T SLOT CLAMP



**MACHINE VICE** 



**BUTTRESS CLAMP** 







Engineering Supplies is a registered distributor for this range of Loctite products and are able to guide potential and existing customers in the use and application of the products.

#### The Loctite range covers:

- Threadlocking in various strengths: Loctite 222, Loctite 243, Loctite 270, and Loctite 277.
- Retaining of close fitting parts; Loctite 603.
- Retaining of cylindrical components: Loctite 638, Loctite 648.
- Quick metal: Loctite 660
- Gasketing: Loctite 518
- Sealing Hydraulic and pneumatic connectors: Loctite 542
- Sealing of pipe fittings: Loctite 572
- Rapid bonding of rubber and most plastics: Loctite 401
- Fast bonding of metals, rubber, plastics: Loctite 415, Loctite 480
- Glass to glass: Loctite CGA1
- Glass to metal/aluminium: Loctite 324 with primer
- China to china: Loctite 401
- Pottery repair: Loctite 496
- Earthenware repair: Loctite 496





PRODUCT	GENERAL USAGE			
272	Threadlocking 12 to 20mm High temp			
277	Threadlocking over 20mm High strength			
510	Replace gaskets High temperature			
518	Flexible gasket			
324	Adhesive for bonding metals, glass substrates high strength			
330	Adhesive for general purpose usage			
5920	Non corrosive, low odour, non-sagging copper silicone seal for high temperature gasketing			
542	Seals and locks high pressure fittings			
577	Seals and locks metal threaded pipes and fittings			
641	Retaining of cylindrical parts which require frequent disassembly medium strength			
2701	threadlocking 12 to 20mm high strength			
290	Locking of preassembled fasteners, weld sealing medium strength			
603	Retaining of bearings high strength			
638	Retaining of gears, pulleys very high strength			
648	Retaining in high temperature very high strength			
243	Threadlocking 6 to 12mm Medium strength			
222	Threadlocking under 6mm Mild strength			
480	Flexible rubber toughened cyanoacrylate with enhanced resistanceto shock loads			
593	Silicone sealer for gasketing			
660	Repairs to worn cylindrical parts			
767	Heavy duty, high temperature, anti seize compound that resists galling, cold welding and corrosion			
5699	Non corrosive, low odour, non-sagging gray silicone sealer for gasking			
55	Sealing threaded components such as pipe couplings and fittings up to a maximum of 120mm O.D, with either parallel or Tapered threads which seal against water			
401	Cyaboacrylate adhesive for bonding rubber, plastic, wood, paper and other materials			
406	Cyanoacrylate adhesive for difficult-to-bond rubbers and plastics			
409	Cyanoacrylate Adhesive Gel			
415	Cyanoacrylate shock resistant adhesive			
420	Low viscosity cyanoacrylate			
435	Rubber toughened cyanoacrylate adhesive for a wide range of products including metals, plastics, wood, paper and leather			
496	Cyanoacrylate adhesive for general purpose bonding			
572	Seals and locks taper threaded fittings			
594	Silicone sealer for gasketing			
595	Silicone sealer for gasketing			
770	Surface treatment for greater adhesion on polyethylene, PTFE,			