







**ISI is an Egyptian owned company provided a comprehensive package of inspection, repair and Operational Service to the Oil and Gas, Marine and General Industry.**

**Our Business today focuses on load Testing, Lifting Gear Inspection, NDT Inspection, Tubular Inspection and Training of lifting equipment operations.**

**Our services are used by Rig Contractors, International Oil Companies, Oil field Services Companies in Egypt and Middle East.**





## Management Vision

Our vision is to continue to exceed customer expectations by always seeking to improve, and by adhering to the highest quality & safety standards in the industry with most recent technology.

We focus on meeting our client's needs and requirements through a close working relationship, which we believe is the foundation for achieving a positive and long term partnership for success.

We are technology savvy and are always looking for ways to improve and offer more to our clients, there by increasing our clients potential benefit and saving.

Our experience, qualifications, people, methodologies and proven capability clearly sets us apart from our competitors.

**ISI** is committed to providing professional services to our clients satisfaction.





## Mission

We aim to be the most competitive and the most productive service organization in the world. Our core competencies in inspection, verification, testing and training are being continuously improved to be best-in-class. They are at the heart of what we are. Our chosen markets will be solely determined by our ability to be the most competitive and to consistently deliver unequalled service to our customers all over the world.









## Services :

### 1- Test & Inspection:

#### Load Testing :

is carried out by competent inspectors who, in addition to being LEEA / NSL approved, are certified to ASNT Level II in MPI/ UT.

**ISI** has its own range of CANFLEX(USA) Water Bags, and operators for the load testing of Cranes, BOP Hoists, Life Boats and Life Boat Davits etc

**ISI** utilizes different sized water bags for testing. They come in 25T, and 35T capacities and can be combined to achieve larger loads. Bags are fully rigged ready to hang and fill. Filling and emptying of bags is controlled and gradual. The load is measured accurately with a certified loadcell and read off a remote hand-held display.

We use calibrated load cells ranging from 25 Tonne, 50 Tonne allowing for an accuracy of +/-1%.

#### Inspection:

**ISI** provides comprehensive inspection of all hoisting and lifting gear aboard using BS and European guidelines as well as LOLER 98 and LEEA.

All the equipment, from the largest cranes to the smallest shackles and slings, are registered in our mobile database reporting system to ensure a systematic and thorough traceability process.

The database tracks the equipment by identification number, description, safe working load, test date and certificate number, and any previous inspection history.

Our clients can sign into our website with their password to view the results of the inspection on-line and we provide printed and CD-ROM versions of the report for off-line viewing and archival.

**ISI** is a service provider for the inspection of Drill Tools, Pipe-handling equipment, and Special Periodic Surveys.



## 2 - Hire:

In order to meet all our customer needs we are offering a wide range of load testing tools for hire.

**Water Bags** ISI utilizes different sized water bags for hire. They come in 25T, and 35T capacities and can be combined to achieve larger loads. Bags are fully rigged ready to hang and fill.

**Load cells** our calibrated load cells ranging from 25 Tonne, 50 Tonne allowing for an accuracy of +/-1% .

## 3 - Training:

ISI provides a wide range of training courses carried out by experienced and certified instructors.

The training courses include :

- \* Crane operator courses
- \* Forklift operator courses
- \* Banksman courses
- \* Appreciation of lifting equipment





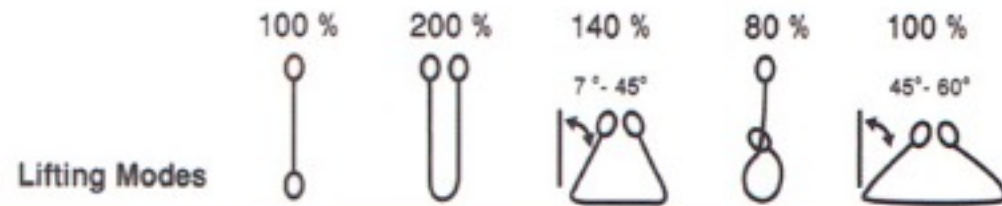
# Webbing Slings Manufacturing

is a manufacturer of flat lifting slings, polyester webbing slings up to four layers, endless round slings, ratchets and web lashings, all kind of truck nets with webbing belts, all our lifting materials are certified.





## Flat Polyester Slings type SP ( Single Ply )



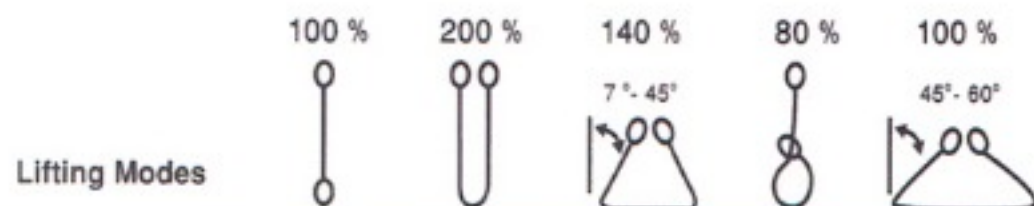
Ref.	SWL/WLL	Width	Colour	SWL/WLL in kg at different modes				
SP1.	0.5 T	1"/25 mm	Violet	500	1000	700	400	500
SP2	1 T	2"/50 mm	Green	1000	2000	400	800	1000
SP3	1.5 T	3"/75 mm	Yellow	15000	3000	2100	1200	1500
SP4	2 T	4"/100 mm	Grey	2000	4000	2800	1600	2000
SP5	2.5 T	5"/125 mm	Red	2500	5000	3500	2000	2500
SP6	3 T	6"/150 mm	Brown	8000	6000	4200	2400	3000
SP8	4 T	8"/200 mm	Blue	4000	8000	5600	3200	4000
SP10	5 T	10"/250 mm	Orange	5000	10000	7000	4000	5000
SP12	6 T	12"/300 mm	Orange	6000	12000	8400	4800	6000

## Flat Polyester Slings type IE ( Webbing width in inch )

Webbing from West Europe

(without black lines)

safety factor 7:1



Ref.	SWL/WLL	Width	Colour	SWL/WLL in kg at different modes				
IE1	1 T	1"	Violet	1000	2000	1400	800	1000
IE2	2 T	2"	Green	2000	4000	2800	1600	3000
IE3	3 T	3"	Yellow	3000	6000	4200	2400	3000
IE4	4 T	4"	Grey	4000	8000	5600	3200	4000
IE5	5 T	5"	Red	5000	10000	7000	4000	5000
IE6	6 T	6"	Brown	6000	12000	8400	4800	6000
IE8	8 T	8"	Blue	8000	16000	11200	6400	8000
IE10	10 T	10"	Orange	10000	20000	14000	8000	10000
IE12	10 T	12"	Orange	12000	24000	16800	9000	12000

## Flat Polyester Slings type ME ( Webbing width in mm )

In addition to the colour the number of black lines on these slings indicates its SWL/WLL



Me3 Sling ( 3 T )

( 3 Black Lines )

Webbing from West Europe - Safety factor 7:1

ME1	1 T	30 mm	Violet	1000	2000	1400	800	1000
ME2	2T	60 mm	Green	2000	4000	2800	1600	3000
ME3	3 T	90 mm	Yellow	3000	6000	4200	2400	3000
ME4	4 T	120 mm	Grey	4000	8000	5600	3200	4000
ME5	5T	150 mm	Red	5000	10000	7000	4000	5000
ME6	6 T	180 mm	Brown	6000	12000	8400	4800	6000
ME8	8 T	240 mm	Blue	8000	16000	11200	6400	8000
ME10	10 T	300 mm	Orange	10000	20000	14000	8000	10000



### Sling Angles

When lifting with multi-leg slings, they are rated at a certain tonnage **from** 0° to 90° and this SWL should **NOT** be exceeded even if the angle is less than 90°. When using single slings in **pairs** however, you must always be aware of the increased loadings in the slings when lifting at an angle.

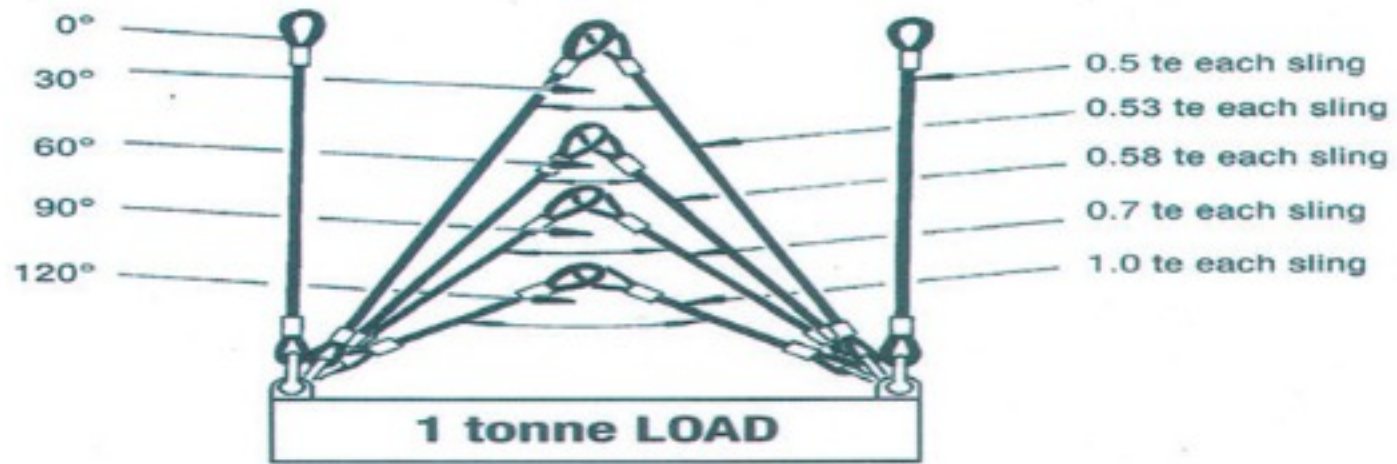


fig 24.8

For the above reason, the SWL of a **pair** of single slings decreases as the angle between them increases as shown below:

0°	:	SWL =	SWL of one sling x 2
30°	:	SWL =	SWL of one sling x 2 x 0.966
60°	:	SWL =	SWL of one sling x 2 x 0.866
90°	:	SWL =	SWL of one sling x 2 x 0.707
120°	:	SWL =	SWL of one sling x 2 x 0.5
<b>or</b>			
0°	:	SWL =	SWL of one sling x 2
30°	:	SWL =	SWL of one sling x 1.93
60°	:	SWL =	SWL of one sling x 1.73
90°	:	SWL =	SWL of one sling x 1.414
120°	:	SWL =	SWL of one sling only

### Mode Factor (M)

Always consider the variation in sling capacity when slinging in various configurations.

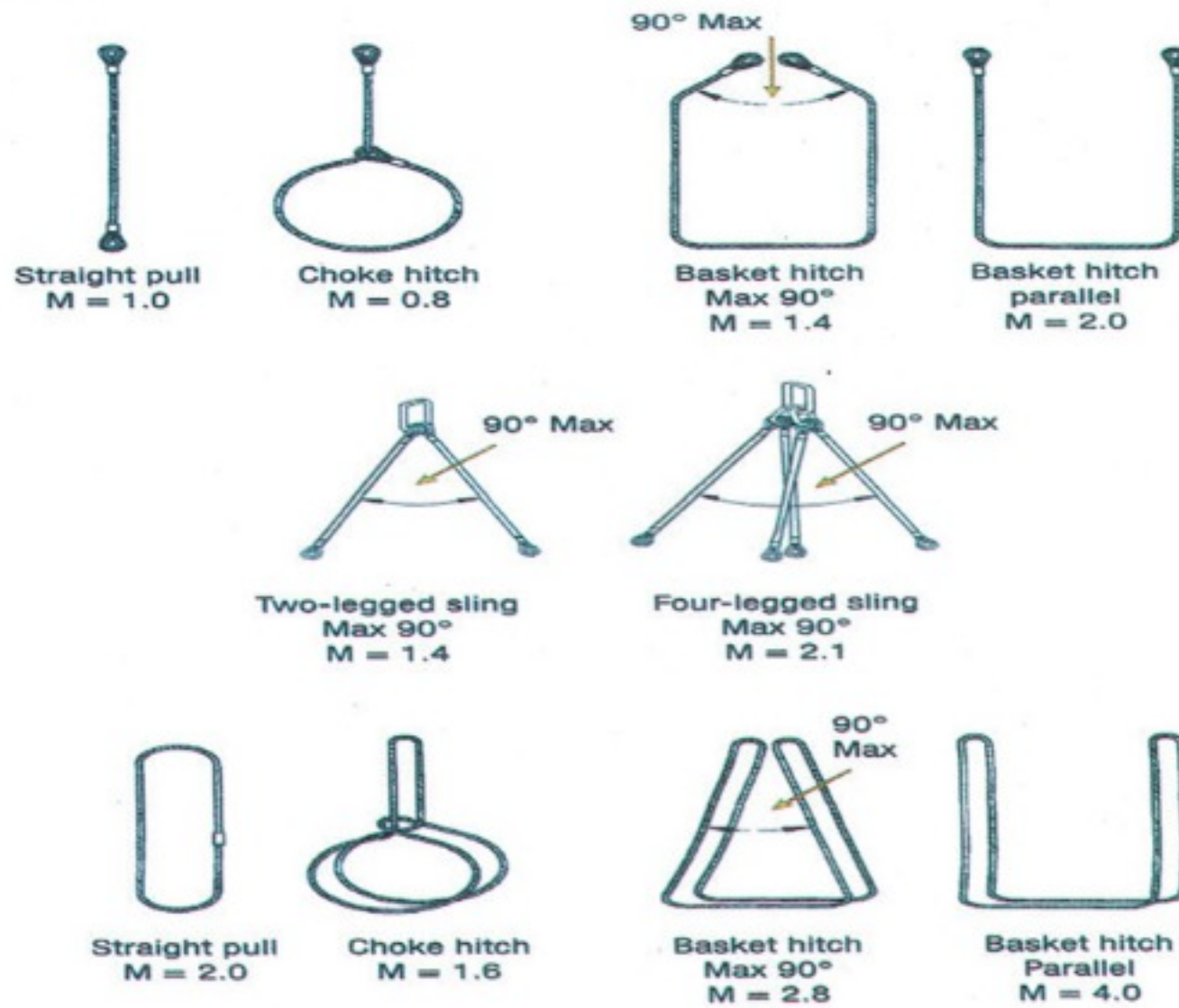


fig 24.9

Multiply the SWL of one leg by the mode factor - M to obtain the SWL of the configuration. (The last four modes / ratings do not apply to "round" slings - Refer to table 3 at back of handbook).





# Supplies

Crosby RIGGING HARDWARE													
Crosby SHACKLES <i>Flange Bolt</i> <i>Anchor Bolt</i>						Crosby SHACKLES <i>Flange Bolt</i> <i>Anchor Bolt</i>							
G 209 G2130 D.F. 5.4/1		G 209 A G2140 D.F. 5.4/1		CARBON & ALLOY SHACKLES QUENCHED AND TEMPERED				CARBON STEEL WLL (D.F. 5/4:1)		ALLOY STEEL WLL (D.F. 4/1)		O THERGAT OPENING	A - A INDICATOR
1	2	D	B	A	C	t	CODE	1	CODE	MM	MM		
1	2	9.85	11.20	16.80	26.60	0.75	DC	1.25	DA	22.9	22.9		
1.5	2.5	11.30	12.70	19.00	32.80	1	FC	1.6	FA	23.1	23.1		
2	3.3	12.70	16.00	20.60	47.80	1.8	GC	2.5	GA	28.4	28.4		
3.25	5	16.00	19.10	26.90	65.60	2	HC	3.2	HA	27.7	27.7		
4.75	7	19.10	22.40	31.80	71.50	3.2	IC	5.4	IA	34.5	34.5		
6.5	9.5	22.40	25.40	36.60	84.00	5	JC	8	JA	40.9	40.9		
8.5	12.5	25.40	28.70	42.90	98.90	7.5	KC	11.5	KA	52.8	52.8		
9.5	15	28.50	31.80	46.00	108.00	10	LC	16	LA	57.7	57.7		
12	18	32.80	35.10	51.50	119.00	15	NC	22	NA	75.7	75.7		
13.5	21	35.10	38.10	57.00	133.00	20	OC	30	OA	82.6	82.6		
17	23	39.10	41.40	60.50	146.00	25	PC	37	PA	76.2	76.2		
25	40	45.70	51.00	73.00	178.00	30	QC	45	QA	85.9	85.9		
35	55	63.00	67.00	82.50	197.00	TABLE MADE FOR 319 SHANK HOOKS 320 EYE HOOKS AND 322 SWIVEL HOOKS							
55	85	87.00	70.00	105.00	267.00								

WLL IS BASED ON IN-LINE LOADING. SIDE LOADING WILL REDUCE THE RATED WORKING LOAD LIMIT.  
 \*USE BOLT TYPE SHACKLE FOR PERMANENT INSTALLATION  
 \*WHERE THE LOAD MAY SLIDE ON THE SHACKLE PIN CAUSING THE PIN TO ROTATE, ONLY USE BOLT TYPE SHACKLES

90° MAXIMUM INCLUDED ANGLE

DO NOT TIP LOAD BACK LOAD SIDE LOAD

MAX INCLUDED ANGLE 120°

WIRE SLING CAPACITIES (t) ( refer to standard EN 13414 - 1 )								
WIRE ROPE IMPROVED FLOW STEEL - IWRC - 6 X 19, 6 X 36 AND 8 X 36 FITTED WITH TURNBACK TERMINATION TENSILE STRENGTH 1770 kN/mm <sup>2</sup> DESIGN FACTOR 6 / 1								
WIRE ROPE SIZE		Crosby G&T CARB. SHACKLE MIN. SHACKLE SIZE FOR A D <sub>rod</sub> = 1 AT LOAD CONNECTION	ANGLE 120°	Choker	TWO LEG SLINGS		THREE AND FOUR LEG SLINGS	
MM	MBL (kN)	shackle size (inch)	Vertical (single leg)	Choker	0° - 45°	β 45° - 60°	β 0° - 45°	β 45° - 60°
8	40.3	3/8	.75	.60	1.05	.75	1.85	1.10
10	63.0	7/16	1.15	.92	1.60	1.15	2.40	1.70
12	90.7	1/2	1.70	1.36	2.30	1.70	3.55	2.60
13	106	5/8	2.00	1.60	2.80	2.00	4.15	3.00
14	124	5/8	2.35	1.90	3.15	2.35	4.80	3.40
15	161	3/4	3.00	2.40	4.20	3.00	6.30	4.60
18	204	7/8	3.70	2.96	5.20	3.70	7.80	5.65
20	252	7/8	4.60	3.68	6.50	4.60	9.80	6.90
23	305	1	5.65	4.52	7.80	5.65	11.80	8.40
24	323	1-1/8	6.70	5.36	9.40	6.70	14.00	10.00
26	426	1-1/8	7.80	6.24	11.00	7.80	16.50	11.90
28	494	1-1/4	9.00	7.20	12.90	9.00	19.00	13.90
32	645	1-3/8	1.00	8.44	16.50	11.90	25.00	17.90
36	817	1-1/2	15.00	12.00	21.00	15.00	31.60	22.90

RATED CAPACITIES (t) BASED ON PIN DIAMETER OF HOOK NO LARGER THAN THE NATURAL EYE WIDTH ( 1/2 X EYE LENGTH ) OR LESS THAN THE NORMAL SLING DIAMETER. TURNBACK EFFICIENCY: k = 0.9 FLEMISH EYE TERMINATION OFFERS A HIGHER EFFICIENCY

REFER TO EN 13414-1 FOR FULL DETAILS  
 VERTICAL SLING ANGLES GREATER THAN 60° ARE NOT RECOMMENDED!

CHAIN SLING CAPACITIES (t) - GRADE 8 IN ACC. WITH EN 818-4 & GRADE 10												
Sling	Grade 80		Grade 100		Grade 80		Grade 100		Grade 80		Grade 100	
	Single leg sling	2 leg sling	2 leg sling	2 leg sling	3 and 4 - leg sling	3 and 4 - leg sling	3 and 4 - leg sling	3 and 4 - leg sling	Choker Hitch	Choker Hitch	Choker Hitch	Choker Hitch
WLL (t)	0° < β < 45°	45° < β < 60°	0° < β < 45°	45° < β < 60°	0° < β < 45°	45° < β < 60°	0° < β < 45°	45° < β < 60°	0° < β < 45°	45° < β < 60°	0° < β < 45°	45° < β < 60°
6	1.12	1.40	1.80	1.12	2.00	1.40	2.36	1.70	3.00	2.12	3.0	1.12
7	1.50	2.00	2.12	1.50	2.80	2.00	3.18	2.34	4.20	3.00	1.20	1.50
8	2.00	2.80	2.80	2.00	3.65	2.80	4.25	3.90	5.30	3.75	1.60	2.00
10	3.15	4.00	4.20	3.15	5.00	4.00	5.70	4.70	6.00	5.00	2.00	3.00
13	4.30	6.70	7.80	5.20	6.50	6.70	11.20	6.50	14.00	10.00	4.25	5.20
16	6.00	10.00	11.20	8.00	14.00	10.00	17.00	11.80	21.20	15.00	6.40	8.00
19	11.20	14.00	16.00	11.20	20.00	14.00	23.60	17.00	30.00	21.00	8.00	11.20
23	16.00	18.70	21.00	16.00	26.90	18.70	31.00	23.40	38.40	28.00	12.00	16.00
28	21.00	26.00	30.00	21.00	37.00	28.00	45.00	31.00	55.00	40.00	17.00	21.00
32	31.00	40.00	48.00	31.00	58.00	40.00	67.00	47.50	84.00	60.00	23.20	32.00

INSPECTION OF CHAIN SLINGS

ALL SLINGS AND ATTACHMENTS SHALL BE VISUALLY INSPECTED BY THE PERSON HANDLING THE SLING EACH DAY THEY ARE USED. IN ADDITION, A PERIODIC INSPECTION SHALL BE PERFORMED BY A COMPETENT PERSON, AT LEAST ONCE EVERY 6 MONTHS, AND SHALL INCLUDE A RECORD OF THE INSPECTION.

INSPECTION CRITERIA

WEAR: NICKS, CRACKS, BREAKS, GOUGES, STRETCH, BENDS

WELD SPLATTER: EXCESSIVE TEMPERATURE, THROAT OPENING OF HOOK

CHAIN LINKS: REMOVE SLING FROM SERVICE IF LINKS ARE WORN EXCESSIVELY ( MORE THAN 10% OF REFER TO MANUFACTURER'S INFORMATION ). SHARP TRANSVERSE NICKS AND GOUGES SHOULD BE ROUNDED OUT BY GRINDING ( DO NOT EXCEED WEAR ALLOWANCE ). CHAIN LINKS AND ATTACHMENTS SHOULD HINGE FREELY TO ADJACENT LINKS.

IDENTIFICATION: CHAIN SLINGS SHALL HAVE PERMANENTLY AFFIXED IDENTIFICATION STATING: SIZE, GRADE, RATED LOAD, VERTICAL SLING ANGLE, NAME OF MANUFACTURER AND CE ( EN 818 - 4 )

A CHOKER HAS 80% OF THE CAPACITY OF A SINGLE LEG ONLY IF THE CORNERS ARE SOFTENED AND THE VERTICAL ANGLE β IS SMALLER THAN 60°

USE BLOCKS TO PREVENT ANGLES GREATER THAN 60°

TRIPLE LEG SLINGS HAVE 50% MORE CAPACITY THAN DOUBLE LEG ONLY IF THE CENTER OF GRAVITY IS IN THE CENTER OF CONNECTION POINT AND THE LEGS ARE ADJUSTED PROPERLY ( EQUAL SHARE OF THE LOAD ). QUAD LEG SLING OFFER IMPROVED STABILITY BUT DO NOT PROVIDE INCREASED LIFTING CAPACITY





# Fabrication of Containers / Baskets / Skids

supplies the industry with purpose built offshore CCU's (Cargo Carrying Units designed and fabricated in our facility. We also manufacture container platform, lug (container lifter), bag lifters, tool stands, sleeper containers, workshop containers, spreader beams, fabrication steel parts and racking systems to client specifications.

- Repairing, cutting, welding, painting and sandblasting.
- Design is verified by a third party at client's request.
- The design and fabrication satisfies DNV 1-2.7 / EN 12079 and complete package including drawing, structural analysis and certification will be delivered with each fabricated unit.

## Portacabins



## Offshore Container



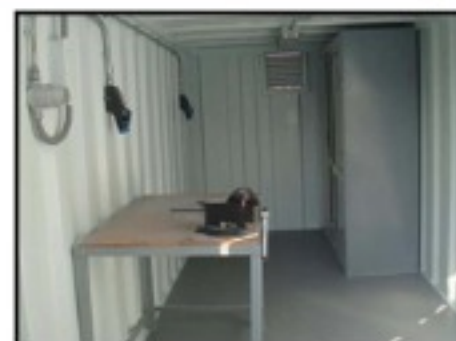
## Mini Offshore Container



## Cargo Baskets



## Workshop Containers



## Half Height Offshore Baskets





# Fabrication of Containers / Baskets / Skids

Gas Bottle Rack



Personal Baskets



Drum Lifter



Tool Box



Lug (C. Lifter)



Open Top Containers



Wire Rope Drum



Lifting Frame



Waste Skip



Machined Steel Parts



Spreader Beam



Diesel Tanks



Pipe Rack



Tool Trolley



Forklift Attachment



BOP Frame







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