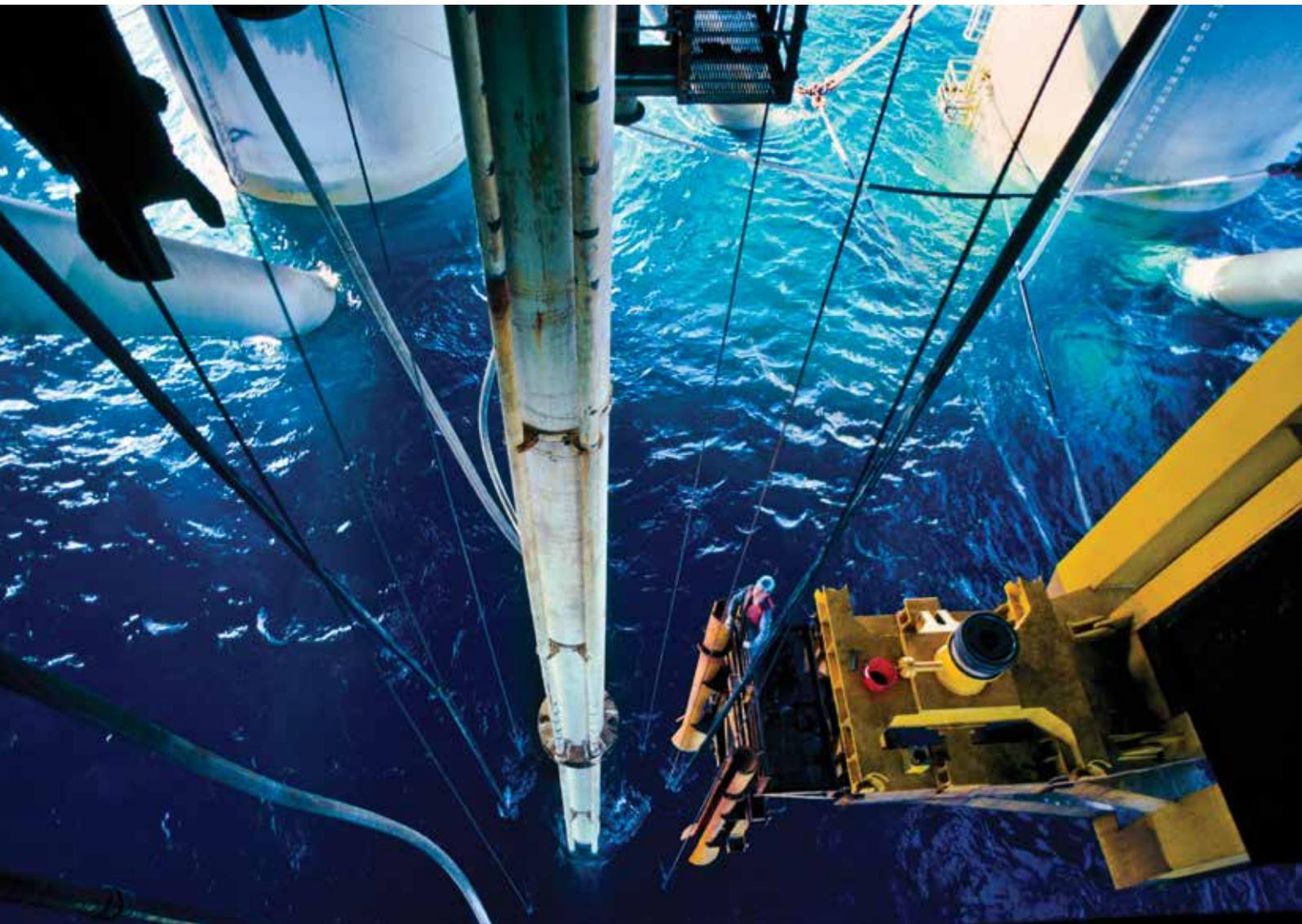




PETERSEN  
STAINLESS RIGGING LTD



INDUSTRIAL LIFTING, UTILITIES  
& OFFSHORE APPLICATIONS

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“THE DESIGN AND MANUFACTURE OF LIFTING EQUIPMENT,  
CABLE TERMINATION AND TENSIONING EQUIPMENT  
AND ANCILLARY COMPONENTS FOR THE MARINE, OIL & GAS,  
OFFSHORE, CONSTRUCTION, DEFENCE AND AEROSPACE INDUSTRIES.”

# ABOUT US

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PETERSEN HAVE BEEN MANUFACTURING SHACKLES FOR OVER 100 YEARS. WE HAVE DEVELOPED AN EXPERTISE IN THE MANUFACTURE OF STAINLESS STEEL SHACKLES, TURNBUCKLES AND WIRE ROPE TERMINATIONS. ALL OUR MANUFACTURING IS PERFORMED IN-HOUSE IN ENGLAND FROM EUROPEAN MATERIAL. THE QUALITY OF OUR PRODUCTS IS UN-RIVALED YET WE ALWAYS STRIVE TO MAKE THEM BETTER.

## AIRCRAFT INDUSTRY QUALITY

Our manufacturing and design quality system has been certified by Lloyds to both ISO9001:2008 and the aircraft industry AS9100:C Quality standard, ensuring full material traceability and continuous quality improvement.

The scope of approval covers:

“The design and manufacture of lifting equipment, cable termination and tensioning equipment and ancillary components for the marine, oil and gas, offshore, construction, defense and aerospace industries.”

## WHAT MAKES OUR SHACKLES SO STRONG?

The shackle will be stronger if there is less interruption to the grain flow of the raw material. It is always our goal to achieve the least amount of disruption to grain flow possible, resulting in a strong, high integrity shackle. Our special forging process is the best process for achieving minimal grain flow disruption.

## OUR TESTING PROCEDURES

Each lifting shackle is individually tested before it leaves our factory. The test involves loading the lifting shackle to its proof load. The proof load is always twice the working load limit (safe working load). Each lifting shackle is then individually engraved with the test batch reference, the material grade and the CE mark. The CE mark confirms that the equipment has been manufactured in accordance with the EU Machine Directive 2006/42/EC. Once testing is complete, a certificate of test is produced detailing the relevant product and test information. All CE marked products are supplied with an instruction leaflet detailing how the lifting shackles should be used, stored and inspected and a declaration of conformity.

## EXTRA SERVICES - SEQUENTIAL MARKING AND CUSTOMER REFERENCE NUMBERS

Many organisations require to have full product traceability back to their source. Due to our flexible manufacturing set up, we have the ability to sequentially mark shackles with customer specific information for easier tracing of product in the field. We will detail this information on the test certificate.

## SOME OF THE COMPANIES WE WORK WITH:

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"><li>• FMC Wellhead</li><li>• BAE Systems</li><li>• AMSafe</li><li>• Sonardyne</li><li>• Donut International Safety</li><li>• FMC Technologies Singapore</li><li>• Metocean Service</li></ul> | <ul style="list-style-type: none"><li>• SPX Houston</li><li>• Aeromexico</li><li>• A&amp;M Defence</li><li>• Aqualift</li><li>• Survitec</li><li>• Unique Seaflex</li><li>• RFD</li></ul> | <ul style="list-style-type: none"><li>• Zodiac Hurricane</li><li>• Bridon International</li><li>• Jackson Offshore</li><li>• Certex</li><li>• Gunnebo</li><li>• UK Ministry of Defense</li></ul> |
|--|---|--|

# HIGH TENSILE STAINLESS STEEL D SHACKLES

## PRODUCT FEATURES

Manufactured from 17/4PH precipitation hardening martensitic stainless steel

Excellent for general lifting applications - high tensile properties whilst avoiding work hardening

Corrosion resistance similar to 18/8 grade steels

Factor of Safety 6:1

Available with 4 pin types - Standard Screw Collar Pin (A Type), Extended Screw Collar Pin (AL Type), Countersunk Head (B Type), E Type Safety Pin (E Type)

Manufactured using the latest technology in electrical upset forging

All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All shackles are manufactured in accordance with the Machine Directive 2006/42/EC

Inspection certificate BS EN 10204 3.1 available on request

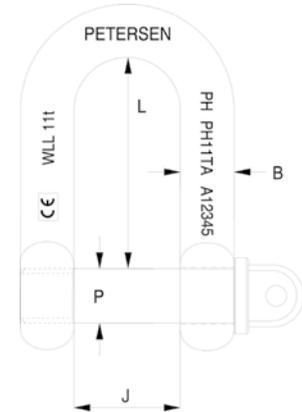
High quality finish and excellent polish

## TYPICAL APPLICATIONS

General lifting in off-shore applications

General lifting and tethering in leisure marine applications

General lifting purposes



TYPE A



TYPE AL



TYPE B



TYPE E

DIMENSIONS & WLL					PIN STYLES & PRODUCT NUMBERS					NOMINAL WEIGHT Per Shackle
WLL (kg)	Pin Dia (P)	Body Dia (B)	Jaw Gap (J)	Length (L)	A Type Pin	AL Type Pin	B Type Pin	E Type Pin	E Type Pin c/w Nylok	
1000	10.0	8.0	16.0	32.0	PH1TA	PH1TAL	PH1TB	PH1TE	PH1TE-NY	85g
2000	12.7	10.0	20.0	40.0	PH2TA	PH2TAL	PH2TB	PH2TE	PH2TE-NY	150g
3000	16.0	12.7	25.0	50.0	PH3TA	PH3TAL	PH3TB	PH3TE	PH3TE-NY	350g
5000	19.0	16.0	32.0	64.0	PH5TA	PH5TAL	PH5TB	PH5TE	PH5TE-NY	550g
7000	22.2	19.0	38.0	76.0	PH7TA	PH7TAL	PH7TB	PH7TE	PH7TE-NY	1000g
9000	25.4	22.2	44.0	88.0	PH9TA	PH9TAL	PH9TB	PH9TE	PH9TE-NY	1900g
11000	28.6	25.4	51.0	102.0	PH11TA	PH11TAL	PH11TB	PH11TE	PH11TE-NY	2900g
13000	31.8	28.6	57.0	114.0	PH13TA	PH13TAL	PH13TB	PH13TE	PH13TE-NY	3100g
15000	34.9	31.8	64.0	128.0	PH15TA	PH15TAL	PH15TB	PH15TE	PH15TE-NY	4350g
18000	38.0	34.9	70.0	140.0	PH18TA	PH18TAL	PH18TB	PH18TE	PH18TE-NY	5300g

# HIGH TENSILE STAINLESS STEEL BOW SHACKLES



## PRODUCT FEATURES

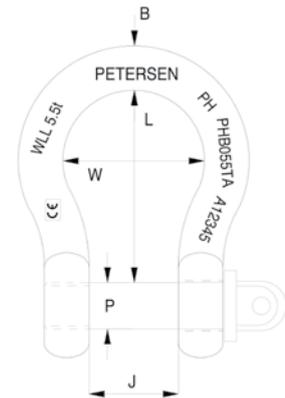
- Manufactured from 17/4PH precipitation hardening martensitic stainless steel
- Excellent for general lifting applications - high tensile properties while avoiding work hardening
- Corrosion resistance similar to 18/8 grade steels
- Factor of Safety 6:1
- Available with 4 pin types - Standard Screw Collar Pin (A Type), Extended Screw Collar Pin (AL Type), Countersunk Head (B Type), E Type Safety Pin (E Type)
- Manufactured using the latest technology in electrical upset forging
- All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

- Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England
- All shackles are manufactured in accordance with the Machine Directive 2006/42/EC
- Inspection certificate BS EN 10204 3.1 available on request
- High quality finish and excellent polish

## TYPICAL APPLICATIONS

- General lifting in off-shore applications
- General lifting and tethering in leisure marine applications
- General lifting purposes



TYPE A



TYPE AL



TYPE B



TYPE E

DIMENSIONS & WLL						PIN STYLES & PRODUCT NUMBERS					NOMINAL WEIGHT Per Shackle
WLL (kg)	Pin Dia (P)	Body Dia (B)	Jaw Gap (J)	Inside Bow (W)	Length (L)	A Type Pin	AL Type Pin	B Type Pin	E Type Pin	E Type Pin c/w Nylok	
800	10.0	8.0	16.0	24.0	32.0	PHB008TA	PHB008TAL	PHB008TB	PHB008TE	PHB008TE-NY	90g
1500	12.7	10.0	20.0	30.0	40.0	PHB015TA	PHB015TAL	PHB015TB	PHB015TE	PHB015TE-NY	158g
2500	16.0	12.7	25.0	38.0	50.0	PHB025TA	PHB025TAL	PHB025TB	PHB025TE	PHB025TE-NY	368g
4000	19.0	16.0	32.0	48.0	64.0	PHB040TA	PHB040TAL	PHB040TB	PHB040TE	PHB040TE-NY	578g
5500	22.2	19.0	38.0	57.0	76.0	PHB055TA	PHB055TAL	PHB055TB	PHB055TE	PHB055TE-NY	1050g
7500	25.4	22.2	44.0	66.0	88.0	PHB075TA	PHB075TAL	PHB075TB	PHB075TE	PHB075TE-NY	1995g
9000	28.6	25.4	51.0	76.0	102.0	PHB090TA	PHB090TAL	PHB090TB	PHB090TE	PHB090TE-NY	3045g
11000	31.8	28.6	57.0	86.0	114.0	PHB110TA	PHB110TAL	PHB110TB	PHB110TE	PHB110TE-NY	3255g
13000	34.9	31.8	64.0	95.0	128.0	PHB130TA	PHB130TAL	PHB130TB	PHB130TE	PHB130TE-NY	4568g
15000	38.0	34.9	70.0	105.0	140.0	PHB150TA	PHB150TAL	PHB150TB	PHB150TE	PHB150TE-NY	5565g

# HIGH CORROSION RESISTANCE STAINLESS STEEL D SHACKLES WITH SAFETY PIN

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)

Excellent for lifting applications where a high level of corrosion resistance is required.

Factor of Safety 6:1

Available with 2 pin types - E Type Safety Pin with Standard Nut (E Type) or Nylok Nut (E Type-NY)

Special design of bolt ensures the nut is positioned correctly allowing sufficient room for the cotter pin

All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All shackles are manufactured in accordance with the Machine Directive 2006/42/EC

Inspection certificate BS EN 10204 3.1 available on request

High quality finish and excellent polish

Manufactured using the latest technology in electrical upset forging

## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities

Pump chains and pump lifting

Chemical installations - Chlorine plants etc

General lifting in off-shore applications

General lifting and tethering in leisure marine applications

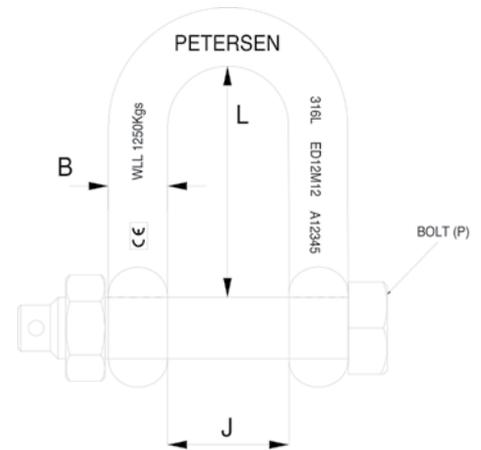
General lifting purposes



D SHACKLE



PIN



DIMENSIONS & WLL					PIN STYLES & PRODUCT NUMBERS		NOMINAL WEIGHT Per Shackle
WLL (kg)	Bolt Size (P)	Body Dia (B)	Jaw Gap (J)	Length (L)	E Type Pin	E Type Pin c/w Nylok	
350	M6 Bolt	6.0	13.0	25.0	ED6M6	ED6M6-NY	48g
500	M8 Bolt	8.0	16.0	32.0	ED8M8	ED8M8-NY	75g
800	M10 Bolt	9.5	19.0	38.0	ED10M10	ED10M10-NY	136g
1000	M12 Bolt	11.0	22.0	44.0	ED11M12	ED11M12-NY	212g
1250	M12 Bolt	12.7	26.0	52.0	ED12M12	ED12M12-NY	331g
1800	M16 Bolt	14.3	29.0	58.0	ED14M16	ED14M16-NY	585g
2800	M20 Bolt	16.0	32.0	64.0	ED16M20	ED16M20-NY	760g
3300	M22 Bolt	19.0	38.0	76.0	ED19M22	ED19M22-NY	1180g
4500	M24 Bolt	22.0	44.0	88.0	ED22M24	ED22M24-NY	1750g
5000	M27 Bolt	25.4	50.0	100.0	ED25M27	ED25M27-NY	2600g
7500	M33 Bolt	28.6	57.0	114.0	ED28M33	ED28M33-NY	3100g
10000	M36 Bolt	31.8	64.0	128.0	ED32M36	ED32M36-NY	4350g
12000	M39 Bolt	34.9	70.0	140.0	ED35M39	ED35M39-NY	5300g

Dimensions in millimeters

# HIGH CORROSION RESISTANCE STAINLESS STEEL BOW SHACKLES WITH SAFETY PIN

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)  
 Excellent for lifting applications where a high level of corrosion resistance is required  
 Factor of Safety 6:1  
 Available with 2 pin types - E Type Safety Pin with Standard Nut (E Type) or Nylok Nut (E Type-NY)  
 Special design of bolt ensures the nut is positioned correctly allowing sufficient room for the cotter pin  
 All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
 All shackles are manufactured in accordance with the Machine Directive 2006/42/EC  
 Inspection certificate BS EN 10204 3.1 available on request  
 High quality finish and excellent polish  
 Manufactured using the latest technology in electrical upset forging

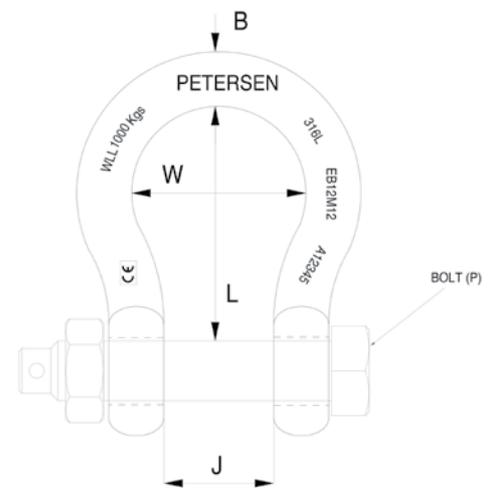
## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities  
 Pump chains and pump lifting  
 Chemical installations - Chlorine plants etc  
 General lifting in off-shore applications  
 General lifting and tethering in leisure marine applications  
 General lifting purposes



BOW SHACKLE

PIN



DIMENSIONS & WLL						PIN STYLES & PRODUCT NUMBERS		NOMINAL WEIGHT Per Shackle
WLL (T)	Bolt Size (P)	Body Dia (B)	Jaw Gap (J)	Inside Bow (W)	Length (L)	E Type Pin	E Type Pin c/w Nylok	
280	M6 Bolt	6.0	13.0	19.0	28.0	EB6M6	EB6M6-NY	52g
400	M8 Bolt	8.0	16.0	25.0	35.0	EB8M8	EB8M8-NY	81g
600	M10 Bolt	9.5	19.0	28.0	38.0	EB10M10	EB10M10-NY	147g
800	M12 Bolt	11.0	22.0	33.0	46.0	EB11M12	EB11M12-NY	221g
1000	M12 Bolt	12.7	26.0	38.0	52.0	EB12M12	EB12M12-NY	354g
1500	M16 Bolt	14.3	29.0	43.0	60.0	EB14M16	EB14M16-NY	635g
2500	M20 Bolt	16.0	32.0	50.0	68.0	EB16M20	EB16M20-NY	805g
3000	M22 Bolt	19.0	38.0	58.0	76.0	EB19M22	EB19M22-NY	1250g
4000	M24 Bolt	22.0	44.0	66.0	88.0	EB22M24	EB22M24-NY	1820g
4500	M27 Bolt	25.4	50.0	76.0	100.0	EB25M27	EB25M27-NY	2700g
5500	M33 Bolt	28.6	57.0	86.0	114.0	EB28M33	EB28M33-NY	3200g
7500	M36 Bolt	31.8	64.0	95.0	128.0	EB32M36	EB32M36-NY	4950g
10000	M39 Bolt	34.9	70.0	105.0	140.0	EB35M39	EB35M39-NY	5400g

Dimensions in millimeters

# 316 WLL SCREW PIN D SHACKLES

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)  
 Excellent for lifting applications where a high level of corrosion resistance is required  
 Factor of Safety 6:1  
 Available with 2 pin types - Standard Screw Collar Pin (A Type) and Countersunk Head (B Type)  
 All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
 All shackles are manufactured in accordance with the Machine Directive 2006/42/EC  
 Inspection certificate BS EN 10204 3.1 available on request  
 High quality finish and excellent polish  
 Manufactured using the latest technology in electrical upset forging

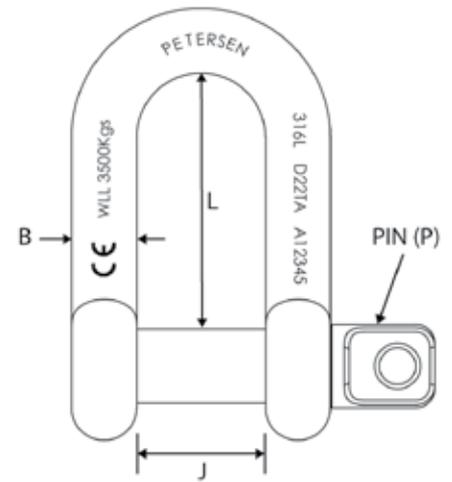
## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities  
 Pump chains and pump lifting  
 Chemical installations - Chlorine plants etc  
 General lifting in off-shore applications  
 General lifting and tethering in leisure marine applications  
 General lifting purposes



TYPE A

TYPE B



DIMENSIONS & WLL					PIN STYLES & PRODUCT NUMBERS		NOMINAL WEIGHT Per Shackle
WLL (kg)	Pin Dia (P)	Body Dia (B)	Jaw Gap (J)	Length (L)	A Type Pin	B Type Pin	
130	4.0	4.0	8.0	16.0	D04TA	D04TB	7g
200	5.0	5.0	10.0	20.0	D05TA	D05TB	13g
320	6.0	6.0	13.0	25.0	D06TA	D06TB	24g
500	8.0	8.0	16.0	32.0	D08TA	D08TB	53g
800	9.5	9.5	19.0	38.0	D10TA	D10TB	97g
1000	11.0	11.0	22.0	44.0	D11TA	D11TB	152g
1250	12.7	12.7	26.0	52.0	D12TA	D12TB	237g
1660	16.0	14.3	29.0	58.0	D16TA	D16TB	450g
2330	19.0	16.0	32.0	64.0	D19TA	D19TB	585g
3500	22.2	19.0	38.0	76.0	D22TA	D22TB	1000g
4500	25.4	22.2	44.0	88.0	D25TA	D25TB	1900g
5500	28.6	25.4	51.0	102.0	D28TA	D28TB	2900g
6500	31.8	28.6	57.0	114.0	D32TA	D32TB	3100g
7500	34.9	31.8	64.0	128.0	D35TA	D35TB	4350g
9000	38.0	34.9	70.0	140.0	D38TA	D38TB	5300g

Dimensions in millimeters

# 316 WLL SCREW PIN BOW SHACKLES

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)  
 Excellent for lifting applications where a high level of corrosion resistance is required  
 Factor of Safety 6:1  
 Available with 2 pin types - A standard screw pin type B counter sunk pin  
 All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
 All shackles are manufactured in accordance with the Machine Directive 2006/42/EC  
 Inspection certificate BS EN 10204 3.1 available on request  
 High quality finish and excellent polish  
 Manufactured using the latest technology in electrical upset forging

## TYPICAL APPLICATIONS

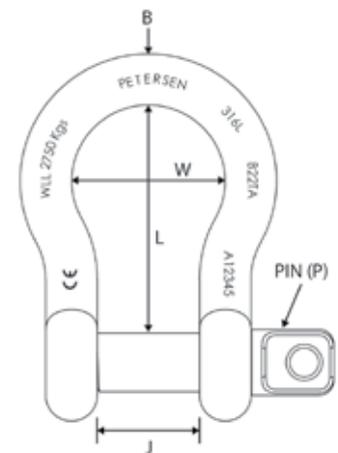
Water utility installations & other corrosive facilities  
 Pump chains and pump lifting  
 Chemical installations - Chlorine plants etc  
 General lifting in off-shore applications  
 General lifting and tethering in leisure marine applications  
 General lifting purposes



TYPE A



TYPE B



DIMENSIONS & WLL						PIN STYLES & PRODUCT NUMBERS		NOMINAL WEIGHT Per Shackle
WLL (kg)	Pin Dia (P)	Body Dia (B)	Jaw Gap (J)	Inside Bow (W)	Length (L)	A Type Pin	B Type Pin	
130	4.0	4.0	8.0	12.0	16.0	B04TA	B04TB	9g
200	5.0	5.0	10.0	16.0	22.0	B05TA	B05TB	14g
260	6.0	6.0	13.0	19.0	28.0	B06TA	B06TB	28g
400	8.0	8.0	16.0	25.0	35.0	B08TA	B08TB	59g
630	9.5	9.5	19.0	28.0	38.0	B10TA	B10TB	106g
800	11.0	11.0	22.0	33.0	46.0	B11TA	B11TB	161g
1000	12.7	12.7	26.0	38.0	52.0	B12TA	B12TB	270g
1330	16.0	14.3	29.0	43.0	60.0	B16TA	B16TB	500g
2000	19.0	16.0	32.0	50.0	68.0	B19TA	B19TB	630g
2750	22.2	19.0	38.0	57.0	76.0	B22TA	B22TB	1050g
3750	25.4	22.2	44.0	66.0	88.0	B25TA	B25TB	1995g
4500	28.6	25.4	51.0	76.0	102.0	B28TA	B25TB	3045g
5500	31.8	28.6	57.0	86.0	114.0	B32TA	B32TB	3255g
6500	34.9	31.8	64.0	95.0	128.0	B35TA	B35TB	4568g
7500	38.0	34.9	70.0	105.0	140.0	B38TA	B38TB	5565g

Dimensions in millimeters

# HIGH CORROSION RESISTANCE STAINLESS STEEL CHAIN LINK D SHACKLES

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)

Excellent for lifting applications where a high level of corrosion resistance is required

Factor of Safety 6:1

Unique design enabling the shackle to be made captive to a chain sling without the need for welding

The special Brace pin allows the shackle to be permanently attached to the chain on-site. This results in the shackle becoming part of the chain assembly

The extended load pin is fitted with a split pin to ensure that the load pin remains in position even under vibration

All shackles are CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All shackles are manufactured in accordance with the Machine Directive 2006/42/EC

Inspection certificate BS EN 10204 3.1 available on request

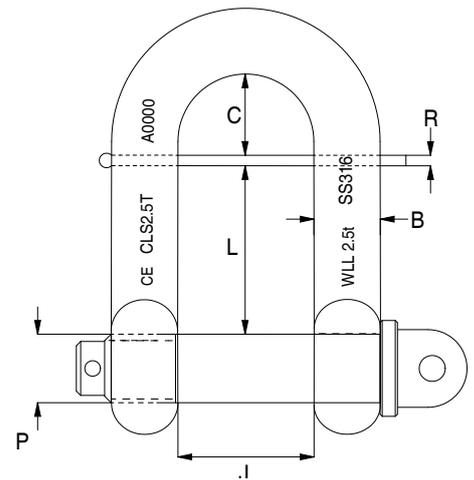
High quality finish and excellent polish

Manufactured using the latest technology in electrical upset forging

## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities

Pump chains and pump lifting



CHAIN LINK SHACKLE



SAFETY PIN



BRACE PIN

DIMENSIONS & WLL							PRODUCT NUMBER	NOMINAL WEIGHT Per Shackle
WLL (kg)	Pin Dia (P)	Body Dia (B)	Jaw Gap (J)	Inside L	R	C		
1200	12.5	9.5	20.0	25.0	2.0	15.0	CLS1.2T	150g
2500	19.0	16.0	32.0	40.0	3.0	22.0	CLS2.5T	550g
3200	22.0	19.0	38.0	45.0	4.0	28.0	CLS3.2T	1000g
5000	25.0	22.0	44.0	55.0	4.0	29.0	CLS5T	1900g
6300	28.0	25.0	51.0	65.0	4.0	34.0	CLS6.3T	2300g
9000	35.0	32.0	64.0	125.0	5.0	38.0	CLS9T	2800g
12000	38.0	35.0	70.0	137.5	5.0	50.0	CLS12T	3600g

Low magnetic permeability shackles manufactured from stainless steel grade 316, permeability < 1.05G/OE

Markings - Engraved with Test ID, Date of Manufacture, WLL in kN, Full Materials Traceability, Manufactured in the UK

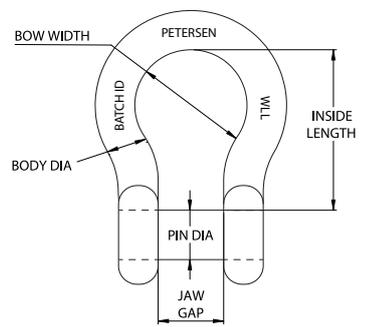
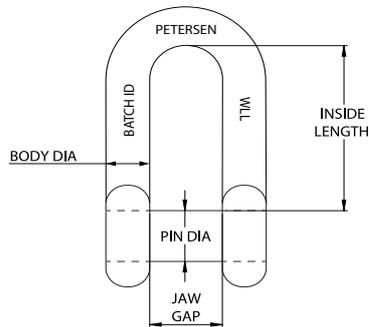
Tested to 2 x WLL prior to despatch

Dimensions in millimeters

# NSN LOW MAGNETIC PERMEABILITY D AND BOW SHACKLES

## LOW MAGNETIC PERMEABILITY SHACKLES D - STRAIGHT PATTERN

PRODUCT CODE	NSN EQUIVALENT	WLL (kN)	WLL (T)	PIN DIA	BODY DIA	JAW GAP	INSIDE LENGTH
LMD-6655	4030-99-149-6655	6.3	0.642	12.7	10.0	17.0	36.0
LMD-5777	0579-91-539-5777	5.6	0.575	12.7	10.0	16.0	38.0
LMD-6395	4030-99-820-6395	12.3	1.250	12.7	12.7	26.0	53.0
LMD-6657	4030-99-149-6657	10.0	1.019	16.0	12.7	21.0	49.0
LMD-5778	0579-91-539-5778	9.9	1.015	16.0	12.7	21.0	46.0
LMD-5604	4030-99-129-5604	16.0	1.632	19.0	16.0	27.0	61.0
LMD-5779	0579-91-539-5779	15.6	1.590	19.0	16.0	26.0	57.0
LMD-6509	4030-99-149-6509	20.0	2.094	22.0	19.0	30.0	68.0
LMD-6679	4030-99-149-6679	25.0	2.549	25.4	22.0	33.0	73.0
LMD-5780	0579-91-539-5780	30.5	3.110	29.0	22.0	36.0	81.0
LMD-9819	4030-99-137-9819	31.5	3.212	28.0	25.4	38.0	84.0
LMD-6500	4030-99-149-6500	40.0	4.079	32.0	28.0	42.0	91.0
LMD-1952	4030-99-151-1952	50.0	5.098	35.0	32.0	47.0	111.0
LMD-1065	0579-91-539-1065	50.5	5.150	35.0	29.0	46.0	103.0
LMD-6499	4030-99-149-6499	63.0	6.424	38.0	35.0	53.0	120.0
LMD-4700	0579-91-539-4700	89.7	9.150	48.0	38.0	61.0	138.0



## BOW - CURVED PATTERN

PRODUCT CODE	NSN EQUIVALENT	WLL (kN)	WLL (T)	PIN DIA	BODY DIA	JAW GAP	INSIDE LENGTH	BOW WIDTH
LMB-6785	4030-99-149-6785	10.0	1.019	16.0	12.7	22.0	52.0	36.0
LMB-5776	057-99-539-5776	6.6	0.635	16.0	12.7	24.0	51.0	38.0
LMB-6619	4030-99-149-6619	16.0	1.606	19.0	16.0	27.0	58.0	40.0
LMB-5775	057-91-539-5775	9.9	1.015	19.0	19.0	29.0	64.0	48.0
LMB-19		20.0	2.094	22.0	19.0	30.0	64.0	45.0
LMB-6637	4030-99-149-6637	25.0	2.549	25.4	22.0	33.0	73.0	49.0
	4030-12-166-2573	29.8	3.039	25.0	25.0	39.0	80.0	59.0
LMB-25		31.5	3.212	28.0	25.4	38.0	82.0	54.0
LMB-28		40.0	4.079	32.0	28.0	42.0	90.0	60.0
LMB-1061	057-91-537-1061	24.9	2.540	32.0	25.4	46.0	102.0	76.0
LMB-1962	4030-99-151-1962	50.0	5.098	35.0	32.0	47.0	110.0	70.0

Low magnetic permeability shackles manufactured from stainless steel grade 316, permeability < 1.05G/OE  
 Markings - Engraved with Test ID, Date of Manufacture, WLL in kN, Full Materials Traceability, Manufactured in the UK  
 Tested to 2 x WLL prior to despatch  
 Dimensions in millimeters

# SUPER DUPLEX WLL SCREW PIN D SHACKLES

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4501, S32760

Designed for use in high salinity, harsh chemical and sub-sea environments.

Factor of Safety 6.1

All shackles CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All shackles are manufactured in accordance with the Machine Directive 2006/42/EC

Inspection certificate BS EN 10204 3.1 available on request

High quality finish and excellent polish

## TYPICAL APPLICATIONS

Tethering of sea-state monitoring equipment

ROV and sonar array

Sub-sea tethering

Pump chains and pump lifting

Chemical installations

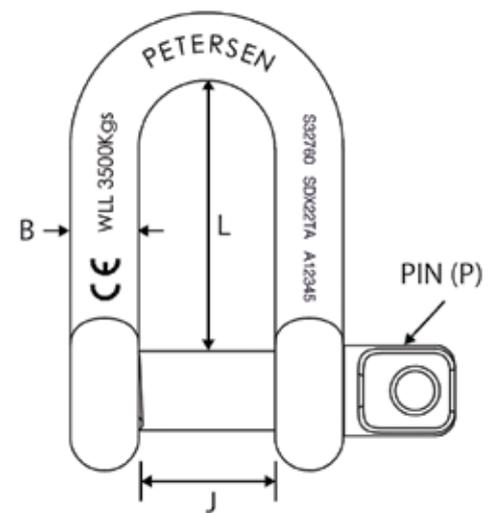
Desalination pumps

General lifting in tropical marine environments, e.g. Arabian Gulf



TYPE A

TYPE B



DIMENSIONS & WLL					PIN STYLES & PRODUCT NUMBERS		NOMINAL WEIGHT Per Shackle
WLL (kg)	Pin Dia (P)	Body Dia (B)	Jaw Gap (J)	Length (L)	A Type Pin	B Type Pin	
130	4.0	4.0	8.0	16.0	SDX04TA	SDX04TB	7g
200	5.0	5.0	10.0	20.0	SDX05TA	SDX05TB	13g
325	6.0	6.0	13.0	25.0	SDX06TA	SDX06TB	24g
500	8.0	8.0	16.0	32.0	SDX08TA	SDX08TB	53g
800	9.5	9.5	19.0	38.0	SDX10TA	SDX10TB	97g
1000	11.0	11.0	22.0	44.0	SDX11TA	SDX11TB	152g
1250	12.7	12.7	26.0	52.0	SDX12TA	SDX12TB	237g
1660	16.0	14.3	29.0	58.0	SDX16TA	SDX16TB	450g
2330	19.0	16.0	32.0	64.0	SDX19TA	SDX19TB	585g
3500	22.2	19.0	38.0	76.0	SDX22TA	SDX22TB	1000g
4500	25.4	22.2	44.0	88.0	SDX25TA	SDX25TB	1900g
5500	28.6	25.4	51.0	102.0	SDX28TA	SDX28TB	2900g
6500	31.8	28.6	57.0	114.0	SDX32TA	SDX32TB	3100g
7500	34.9	31.8	64.0	128.0	SDX35TA	SDX35TB	4350g
9000	38.0	34.9	70.0	140.0	SDX38TA	SDX38TB	5300g

Dimensions in millimeters

# STAINLESS STEEL SWING BOLTS / EYE BOLTS TO DIN 444 B

## PRODUCT FEATURES

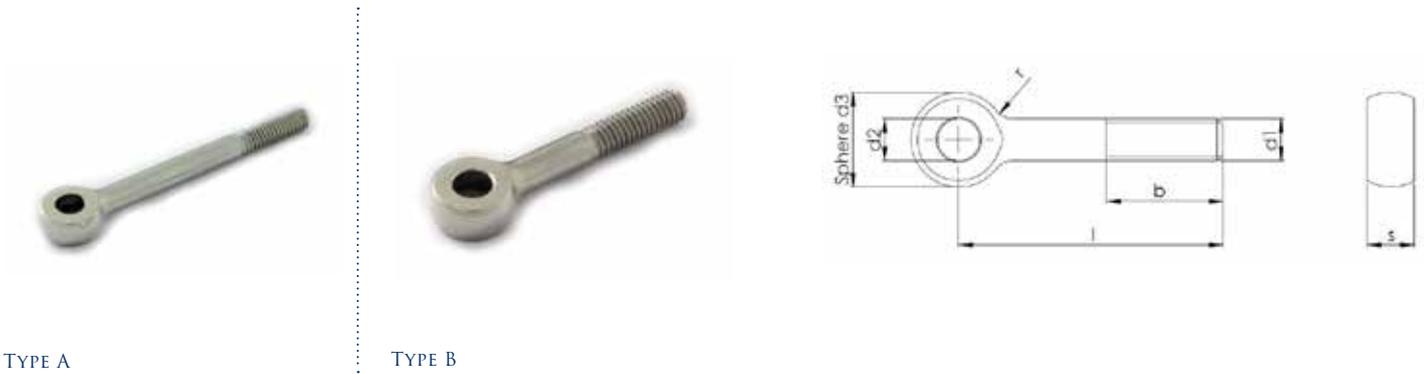
Stainless Steel Eye-bolts to DIN 444B pattern  
 Forged from 316L stainless steel (1.4404)  
 Available as standard from M6 up to M24  
 Other sizes and custom lengths on request  
 Available in other materials including duplex grades  
 Excellent grain structure resists corrosion and fatigue

## QUALITY FEATURES

Upset forged with rolled threads for high strength  
 Manufactured in England  
 Full materials traceability as standard - material and conformity certificates available on request

## TYPICAL APPLICATIONS

Swing-bolts on food storage and processing equipment  
 Chemical processing plants  
 Securing lids on centrifuge equipment  
 Paper and Wood-pulp mills



Thread Size	Length (L)	B	D2 (H9)	D3 (H14)	R	S (H12)	MBL (kN)	Item Code
M6 x 1.0	40.0	18.0	6.0	14.0	4.0	7.0	12.1	SWB444B-M6-40
M6 x 1.0	60.0	18.0	6.0	14.0	4.0	7.0	12.1	SWB444B-M6-60
M8 x 1.25	50.0	22.0	8.0	18.0	4.0	9.0	22.0	SWB444B-M8-50
M8 x 1.25	70.0	22.0	8.0	18.0	4.0	9.0	22.0	SWB444B-M8-70
M10 x 1.5	60.0	26.0	10.0	20.0	4.0	12.0	34.8	SWB444B-M10-60
M10 x 1.5	80.0	26.0	10.0	20.0	4.0	12.0	34.8	SWB444B-M10-80
M12 x 1.75	70.0	30.0	12.0	25.0	6.0	14.0	50.6	SWB444B-M12-70
M12 x 1.75	100.0	30.0	12.0	25.0	6.0	14.0	50.6	SWB444B-M12-100
M16 x 2.0	80.0	38.0	16.0	32.0	6.0	17.0	94.2	SWB444B-M16-80
M16 x 2.0	120.0	38.0	16.0	32.0	6.0	17.0	94.2	SWB444B-M16-120
M20 x 2.5	100.0	46.0	18.0	40.0	6.0	22.0	147.0	SWB444B-M20-100
M20 x 2.5	140.0	52.0	18.0	40.0	6.0	22.0	147.0	SWB444B-M20-140
M24 x 3.0	120.0	54.0	22.0	45.0	10.0	25.0	211.8	SWB444B-M24-120
M24 x 3.0	160.0	60.0	22.0	45.0	10.0	25.0	211.8	SWB444B-M24-160

Dimensions in millimeters

# INDUSTRIAL LIFTING BLOCKS TUFNOL & STAINLESS STEEL

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)

Excellent for lifting applications where a high level of corrosion resistance is required

Factor of Safety 6:1

All sizes are of a bolted construction and can simply be dismantled for replacement of sheaves or general maintenance

All blocks CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every block is proof load tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All blocks are manufactured in accordance with the Machine Directive 2006/42/EC

Inspection certificate BS EN 10204 3.1 available on request

High quality finish and excellent polish

## TYPICAL APPLICATIONS

High Towers and lines where weight carried is of prime importance

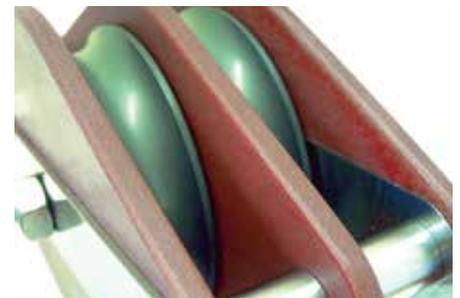
Double blocks are used in pairs by electricity boards for live line working

General lifting in off-shore application

General lifting purposes



BLOCK FITTING



SHEAVES



DOUBLE EYE



SINGLE EYE



SINGLE EYE VIEW



EYE DIMENSION

Block Size	Max Rope Diameter mm	Max Rope Circumference mm	Sheave Diameter mm	Sheave Width mm	EW Dimension mm	EL Dimension mm	Maximum WLL (kg)	Suggested Shackles
4	16.0	50.0	83.0	19.0	17.0	34.0	1000	ED12M12
6	19.0	62.0	95.0	22.0	20.0	40.0	1500	ED14M16
12	25.0	74.0	121.0	30.0	28.0	50.0	2800	ED16M20
14	32.0	103.0	144.0	36.0	30.0	60.0	3500	ED22M24

Block Size	Max Rope Diameter mm	PRODUCT CODES			PRODUCT WEIGHTS (kg)		
		Single	Double	Triple	Single	Double	Triple
4	16.0	BBSE4	BBDE4	BBTE4	1.06	1.50	1.80
6	19.0	BBSE6	BBDE6	BBTE6	1.90	2.40	2.90
12	25.0	BBSE12	BBDE12	BBTE12	4.80	5.70	9.10
14	32.0	BBSE14	BBDE14	BBTE14	6.80	7.67	12.25

# HIGH CORROSION RESISTANCE TESTED TURNBUCKLES/BOTTLE SCREWS JAW/JAW

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)  
 Excellent for lifting applications where a high level of corrosion resistance is required  
 Factor of Safety 6:1  
 All CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every turnbuckle is proof load tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
 All turnbuckles are manufactured in accordance with the Machine Directive 2006/42/EC  
 Inspection certificate BS EN 10204 3.1 available on request.  
 High quality finish and excellent polish

## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities  
 Chemical installations - Chlorine plants etc  
 General lifting in off-shore applications  
 General lifting and tethering in leisure marine applications  
 General lifting purposes



TURNBUCKLE



FORK END

DIMENSIONS & WLL									PRODUCT NUMBER
Thread	WLL (kg)	Wire Dia	Pin (P)	C	T	Min L	Max L	Weight	
1/4"unf	200	3.0	6.0	12.5	6.2	135	205	80g	RSFF03-WLL
5/16"unf	325	4.0	8.0	17.0	7.9	165	240	170g	RSFF04-WLL
3/8"unf	500	5.0	9.5	19.0	9.9	200	300	282g	RSFF05-WLL
7/16"unf	700	6.0	11.0	20.0	10.9	220	330	398g	RSFF06-WLL
1/2"unf	825	7.0	12.0	25.0	12.7	260	390	614g	RSFF07-WLL
5/8"unf	1325	8.0	14.0	28.0	13.5	325	480	1260g	RSFF08-WLL
5/8"unf	1325	10.0	16.0	32.0	15.8	345	500	1434g	RSFF10-WLL
3/4"unf	1825	12.0	19.0	38.0	17.8	400	570	2418g	RSFF12-WLL
7/8"unf	2500	14.0	22.0	45.0	22.0	450	640	3577g	RSFF14-WLL
1"unf	3300	16.0	25.0	50.0	25.0	520	760	5340g	RSFF16-WLL
1 1/8"unf	4300	19.0	28.0	58.0	28.2	585	855	8200g	RSFF19-WLL
1 1/4"unf	5500	22.0	32.0	64.0	31.5	635	920	10711g	RSFF22-WLL
1 3/8"unf	7600	26.0	35.0	70.0	34.8	715	1040	14085g	RSFF26-WLL

Dimensions in millimeters

# HIGH CORROSION RESISTANCE TESTED TURNBUCKLES/BOTTLE SCREWS JAW/EYE

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)

Excellent for lifting applications where a high level of corrosion resistance is required

Factor of Safety 6:1

All CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every turnbuckle is proof load tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All turnbuckles are manufactured in accordance with the Machine Directive 2006/42/EC

Inspection certificate BS EN 10204 3.1 available on request.

High quality finish and excellent polish

## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities

Chemical installations - Chlorine plants etc

General lifting in off-shore applications

General lifting and tethering in leisure marine applications

General lifting purposes



TURNBUCKLE



FORK END



DIMENSIONS & WLL										PRODUCT NUMBER
Thread	WLL (kg)	Wire Dia	Pin (P)	H	C	T	Min L	Max L	Weight	
1/4"unf	200	3.0	6.0	6.35	12.5	6.2	127.0	197.0	67g	RSFE03-WLL
5/16"unf	325	4.0	8.0	8.00	17.0	7.9	154.0	232.0	135g	RSFE04-WLL
3/8"unf	500	5.0	9.5	9.53	19.0	9.9	189.0	289.0	235g	RSFE05-WLL
7/16"unf	700	6.0	11.0	11.10	20.0	10.9	207.0	316.0	332g	RSFE06-WLL
1/2"unf	825	7.0	12.0	12.70	25.0	12.7	244.0	376.0	521g	RSFE07-WLL
5/8"unf	1325	8.0	14.0	14.30	28.0	13.5	300.0	456.0	1093g	RSFE08-WLL
5/8"unf	1325	10.0	16.0	16.00	32.0	15.8	325.0	380.0	1198g	RSFE10-WLL
3/4"unf	1825	12.0	19.0	19.05	38.0	17.8	373.0	544.0	1952g	RSFE12-WLL
7/8"unf	2500	14.0	22.0	22.20	45.0	22.0	415.0	610.0	3048g	RSFE14-WLL
1"unf	3300	16.0	25.0	25.40	50.0	25.0	485.0	724.0	4407g	RSFE16-WLL
1 1/8"unf	4300	19.0	28.0	28.58	58.0	28.2	548.0	818.0	4364g	RSFE19-WLL
1 1/4"unf	5500	22.0	32.0	32.00	64.0	31.8	595.0	879.0	5992g	RSFE22-WLL
1 3/8"unf	7600	26.0	35.0	35.00	70.0	34.8	672.0	996.0	12122g	RSFE26-WLL

Dimensions in millimeters

# HIGH CORROSION RESISTANCE TESTED TURNBUCKLES/BOTTLE SCREWS EYE/EYE

## PRODUCT FEATURES

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316L)  
Excellent for lifting applications where a high level of corrosion resistance is required  
Factor of Safety 6:1  
All CE marked and supplied with instruction leaflet on safe use and storage

## QUALITY FEATURES

Every turnbuckle is proof load tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
All turnbuckles are manufactured in accordance with the Machine Directive 2006/42/EC  
Inspection certificate BS EN 10204 3.1 available on request.  
High quality finish and excellent polish

## TYPICAL APPLICATIONS

Water utility installations & other corrosive facilities  
Chemical installations - Chlorine plants etc  
General lifting in off-shore applications  
General lifting and tethering in leisure marine applications  
General lifting purposes



TURNBUCKLE



TURNBUCKLE

DIMENSIONS & WLL								PRODUCT NUMBER
Thread	WLL (kg)	Wire Dia	H	T	Min L	Max L	Weight	
1/4"unf	200	3.0	6.35	5.0	120.0	190.0	54g	RSEE03-WLL
5/16"unf	325	4.0	8.00	6.5	143.0	221.0	100g	RSEE04-WLL
3/8"unf	500	5.0	9.53	7.8	177.0	277.0	188g	RSEE05-WLL
7/16"unf	700	6.0	11.10	9.5	193.0	301.0	266g	RSEE06-WLL
1/2"unf	825	7.0	12.70	11.5	221.0	363.0	428g	RSEE07-WLL
5/8"unf	1325	8.0	14.30	13.5	279.0	435.0	926g	RSEE08-WLL
5/8"unf	1325	10.0	16.00	15.0	303.0	459.0	962g	RSEE10-WLL
3/4"unf	1825	12.0	19.05	17.5	346.0	517.0	1486g	RSEE12-WLL
7/8"unf	2500	14.0	22.20	21.5	383.0	580.0	2519g	RSEE14-WLL
1"unf	3300	16.0	25.40	23.5	452.0	691.0	3474g	RSEE16-WLL
1 1/8"unf	4300	19.0	28.58	27.5	510.0	780.0	3710g	RSEE19-WLL
1 1/4"unf	5500	22.0	32.00	31.0	557.0	841.0	4273g	RSEE22-WLL
1 3/8"unf	7600	26.0	35.00	33.5	628.0	952.0	10159g	RSEE26-WLL

Dimensions in millimeters

## CE SWAGING SYSTEMS FOR LIFTING - SWAGING DIMENSIONS

The Petersen swaging system complies with EN13411-8 and has been tested accordingly. This European standard specifies the minimum requirements for swaged terminals and the securing of such terminals by a swaging process to wire rope conforming to EN12385-4 and EN12385-5 spiral strand rope conforming to EN12385-10 and stainless steel stranded rope. This European standard is applicable to swage terminations that have a terminal efficiency factor of at least 90% and are used as a part of a wire rope accessory such as a sling, or wire rope assembly that performs a raising, lowering, holding or supporting function on lifting machinery.

Swage terminals will be supplied marked 'CE' and with a unique traceability code. All Swage terminals are supplied with instructions for the correct fitting and safe usage.

The Petersen swaging and testing machine allows the correct securing of the Petersen swage terminals onto the wire rope. After securing the terminal, the wire-rope can be gripped and a proof-load applied all on the same machine. The convenient design means proof load tests can be carried out on lifting assemblies without the need for external equipment. The comparatively low weight and compact design of the Petersen swaging and testing machine means assembly can be done on-site. For example, using this equipment it is possible to re-terminate and proof-load test a crane cable which is still attached to the crane, at the worksite. This revolutionary system offers enormous savings to mobile and tower crane operators by minimising down time due to rope repairs.

WIRE SIZE (MM)	DIAMETER BEFORE SWAGING	DIAMETER AFTER SWAGING	WIRE SIZE (MM)	DIAMETER BEFORE SWAGING	DIAMETER AFTER SWAGING
1.6	4.06/3.94	3.50/3.40	12	21.44/21.32	19.05/18.82
2.5	5.53/5.41	4.82/4.70	14	25.00/24.88	22.23/22.00
3	6.35/6.22	5.58/5.44	16	28.17/28.05	25.40/25.15
4	7.54/7.42	6.35/6.23	19	34.52/34.40	31.75/31.44
5	9.12/9.00	7.95/7.83	22	40.46/40.21	36.50/36.20
5.5	10.84/10.72	9.50/9.35	25	46.02/45.77	41.28/40.97
6	12.54/12.42	11.12/10.95	28	50.0	44.00/44.50
7	14.30/14.18	12.70/12.50	32	58.0	51.00/51.50
8	16.13/16.01	14.30/14.07	36	65.0	57.00/57.80
9-10	17.85/17.73	15.90/15.70	38-40	72.0	63.20/64.00
11	19.83/19.63	17.47/17.27	42 - 44	75.0	66.00/67.00
12E	20.08/20.00	17.80/17.60			

Dimensions in millimeters

WIRE SIZE (INCH)	DIAMETER BEFORE SWAGING	DIAMETER AFTER SWAGING	WIRE SIZE (INCH)	DIAMETER BEFORE SWAGING	DIAMETER AFTER SWAGING
1/16"	0.160/0.155	0.138/0.134	9/16"	0.984/0.980	0.975/0.866
3/32"	0.173/0.213	0.190/0.185	5/8"	1.110/1.104	1.000/0.979
1/8"	0.250/0.245	0.220/0.214	3/4"	1.359/1.354	1.250/1.238
5/32"	0.297/0.292	0.247/0.245	7/8"	1.593/1.583	1.437/1.425
3/16"	0.359/0.354	0.313/0.380	15/16"	1.812/1.802	1.625/1.613
7/32"	0.427/0.423	0.374/0.368	1"	1.959	1.732/1.752
1/4"	0.494/0.489	0.438/0.431	1 1/8"	2.283	2.008/2.028
9/32"	0.563/0.558	0.472/0.492	1 3/8"	2.559	2.244/2.276
5/16"	0.635/0.630	0.563/0.554	1 1/2"	2.834	2.488/2.520
3/8"	0.703/0.698	0.626/0.618	1 5/8"	2.953	2.598/2.638
7/16"	0.780/0.773	0.688/0.680			
1/2"	0.844/0.839	0.750/0.740			

Dimensions in inches

# CE SWAGING SYSTEMS FOR LIFTING - PETERSEN SWAGING SYSTEM

## PETERSEN SWAGE & TEST MACHINES

The Petersen swage & test machines combine two functions into one small and portable package. The patented system uses a hydraulic cylinder to pull the socket between two roller dies, pressing it onto the cable. After swaging the cable can be gripped with the integrated non-marking wire-rope grips and a proof load applied to test the integrity of the termination. The machines can be supplied with either a calibrated pressure gauge or a load-cell to measure the proof-load. The compact size and comparatively low-weight of the Petersen swage & test machines means they can easily be loaded onto a truck for on-site fabrication and repairs of wire rope slings and crane ropes. The hydraulics can be operated by the means of a hand pump (more suited to the smaller machines) or a single or 3-phase electric pump



Image shows the Petersen P400 Swaging System, allowing proof load testing to be completed at time of swaging.

Petersen offers a range of swaging systems to suit different types of needs. See data below for technical data for wire swage dies and swage machine sizes.

	Part Numbers					
	P200 Swage Machine		P350 Swage Machine		P400 Swage Machine	
Swaging Range	1.6 - 8 mm	1/16" - 5/16"	2.5 - 16 mm	3/32" - 5/8"	8 - 28 mm	5/16" - 1 1/8"
Length	500 mm	19.75"	1117 mm	44.00"	990 mm	39.0"
Width	300 mm	11.75"	370 mm	14.75"	530 mm	20.86"
Height	140 mm	5.50"	210 mm	8.25"	370 mm	14.50"
Weight	19.5 kg	42 lb	66 kg	146 lb	142 kg	313 lb

## CRANE ROPE SWAGE BUTTON

Petersen manufacture crane rope buttons in a variety of different sizes for many different cranes. The buttons are specially designed to be pressed with the Petersen Swage & Test machines. After swaging, a reusable pulling eye or eye-swivel can be screwed in to the button to help with reeving. Used in conjunction with the Petersen Swage & Test machine, crane rope buttons can be fitted, pressed and proof load tested on-site without requiring the rope to be removed from the crane. We can also supply hydraulic wire-rope cutters to complete your portable crane-rope repair kit. Please contact us for details.



# CE SWAGING SYSTEMS FOR LIFTING - SWAGING MACHINE PUMPS

PUH-1 PUMP:



Swaging speeds vary depending on the type of cordless drilling machine.

Typically a mid size machine with 1500 Rpm will give about 10 mm/second of swage speed on a Wiretechnik A200 Swager.

PUH-1 fitted to Swaging Machine	Max Wire Size
P200	8mm
P250	10mm
P270	10mm
P300	12mm
P350	14mm

P59L - HAND PUMP:



HC2/HC4 & KA22 PUMPS:



	Type of Swaging Machine	Hydraulic Pump	Voltage	Swaging Speed
Single Phase	P200, P250, P270	HC2	230V/50Hz	9.0 mm/s
	P300, P350	HC2	230V/50Hz	6.5 mm/s
Three Phase	P200, P250, P270	KA22	400V/50/60Hz	15 mm/s
	P300	KA22	400V/50/60Hz	19 mm/s
	P350	KA22	400V/50/60Hz	13 mm/s
	P400	HC4	400V/50/60Hz	12 mm/s
	P500	HC4 X 2	400V/50/60Hz	12 mm/s

## SWAGING MACHINE DIES



WIRE SIZE (MM)	Part Numbers		
	P200 Swage Machine	P350 Swage Machine	P400 Swage Machine
2.5	P-200-2,5	P-350-2,5	
3	P-200-3,0	P-350-3	
4	P-200-4,0	P-350-4	
5	P-200-5,0	P-350-5	
5.5	P-200-5,5	P-350-5,5	
6	P-200-6,0	P-350-6	
7	P-200-7	P-350-7	
8	P-200-8	P-350-8	P-400-8
10		P-350-10	P-400-10
12		P-350-12	P-400-12
12E		P-350-12E	P-400-12E
1/2 (12.7)		P-350-1/2"	P-400-1/2"
14		P-350-14	P-400-14
16		P-350-16	P-400-16
19			P-400-19
22			P-400-22
26			P-400-26
28			P-400-28

# CE SWAGING SYSTEMS FOR LIFTING - SWAGING MACHINE PULLING TOOLS

## P200 SWAGING MACHINE:



Item Code: CHL-6  
Straight & Bent Link (SM)



Item Code: CHL-10  
Straight & Bent Link (MED)



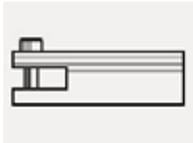
Item Code: OLIVES  
See table below for sizes



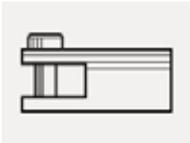
Item Code: PP6.2  
Fork Puller (SM)



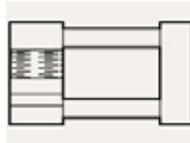
Item Code: PP10  
Fork Puller (MED)



Item Code: F2  
Fork - SM Pin (6 mm Diameter)



Item Code: F3  
Fork - MED Pin (10 mm Diameter)



Item Code: BP4-8  
Ball Puller (4 mm - 8 mm)

OLIVES	
	M10 - M5 / 1/4" - 7/16"
	M12 - M6 / 3/8" - 9/16"
	M14 - M8 / 1/2" - 5/16"
	M16 / 5/8"

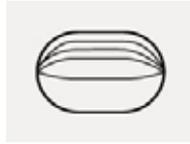
## P350 SWAGING MACHINE:



Item Code: CHL-6  
Straight & Bent Link (SM)



Item Code: CHL-10  
Straight & Bent Link (MED)



Item Code: OLIVES  
See table below for sizes



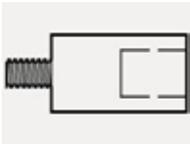
Item Code: PP6.2  
Fork Puller (SM)



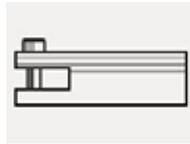
Item Code: PP10  
Fork Puller (MED)



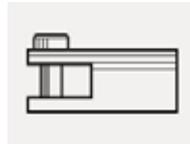
Item Code: PP20  
Fork Puller (LRG)



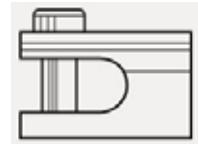
Item Code: M12M20ADAPTER  
Adapter M12 to M20 Thread



Item Code: F2  
Fork - SM Pin (6 mm Diameter)



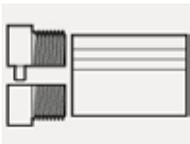
Item Code: F3  
Fork - MED Pin (10 mm Diameter)



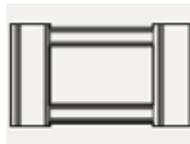
Item Code: F4  
Fork - LRG Pin (16 mm Diameter)



Item Code: BP4-8  
Ball Puller (4 mm - 8 mm)



Item Code: BP10-12  
Ball Puller (10 mm - 12 mm)



Item Code: MP1  
Multi-purpose Pulling Tool

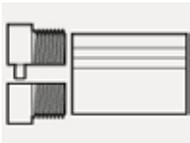


Item Code: NUT

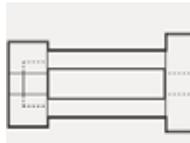
## P400 SWAGING MACHINE:



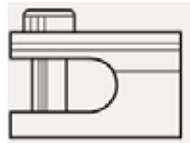
Item Code: CHL-13  
Straight & Bent Link (LRG)



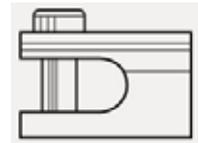
Item Code: BP10-12  
Ball Puller (10 mm - 12 mm)



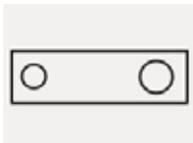
Item Code: SPA400  
Stud Puller



Item Code: F4  
Fork - LRG Pin (16 mm Diameter)



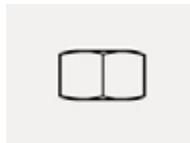
Item Code: F5  
Fork - X-LRG Pin (24 mm Diameter)



Item Code: PPA400  
Pulling Plate



Item Code: NUTA400



Item Code: N24NUT



Item Code: PP20  
Fork Puller (LRG)

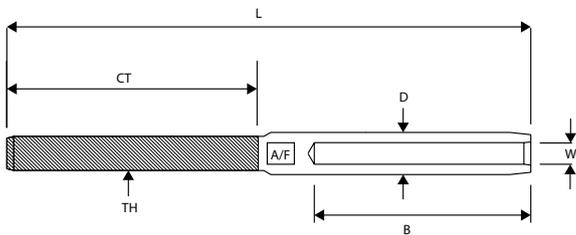
# STAINLESS STEEL SWAGE STUDS

## PRODUCT FEATURES

Stainless Steel Eye-bolts to DIN 444B pattern  
 Machined from 316L stainless steel (1.4404)  
 Available for standard wires sizes from 3mm up to 32mm  
 Other sizes and custom lengths on request  
 Excellent grain structure resists corrosion and fatigue  
 All CE marked and supplied with instruction leaflet on safe use and storage  
 Swage studs are available for imperial wire sizes, please contact us for the correct part codes.

## QUALITY FEATURES

Inspection certificate BS EN 10204 3.1 available on request  
 High quality finish and excellent polish  
 No casting or welding  
 Fatigue rated in accordance to EN13411-8  
 Each terminal individually engraved with the test batch reference  
 Safety factor 6:1



Components are available with left or right hand threads as well as UNF threads.

PRODUCT NUMBER	DIMENSIONS							WLL (kg)	
	Wire (W)	TH	D	B	L	CT	A/F	7X19 / 6X19-IWRC	6X36-IWRC
SCM6X3-EN	3mm	M6	6.3	39.0	97.0	47.0	5.0	70	
SCM6X4-EN	4mm	M6	7.5	45.0	105.0	47.0	6.0	125	
SCM8X4-EN	4mm	M8	7.5	45.0	113.0	54.0	6.0	125	
SCM8X5-EN	5mm	M8	9.1	52.0	122.0	54.0	8.0	200	
SCM10X5-EN	5mm	M10	9.1	52.0	135.0	64.0	8.0	200	
SCM10X6-EN	6mm	M10	12.5	65.0	154.0	75.0	11.0	285	300
SCM12X6-EN	6mm	M12	12.5	65.0	170.0	90.0	11.0	285	300
SCM12X7-EN	7mm	M12	14.3	70.0	177.0	90.0	12.0	390	
SCM12X8-EN	8mm	M12	16.0	80.0	190.0	90.0	14.0	510	545
SCM16X8-EN	8mm	M16	16.0	80.0	201.0	100.0	14.0	510	545
SCM16X10-EN	10mm	M16	18.0	100.0	223.0	100.0	16.0	795	855
SCM20X12-EN	12mm	M20	21.4	132.0	277.0	120.0	19.0	1150	1230
SCM22X14-EN	14mm	M22	25.0	156.0	325.0	140.0	22.0	1515	1675
SCM27X16-EN	16mm	M27	28.2	176.0	371.0	160.0	25.0	2040	2175

Dimensions in millimeters

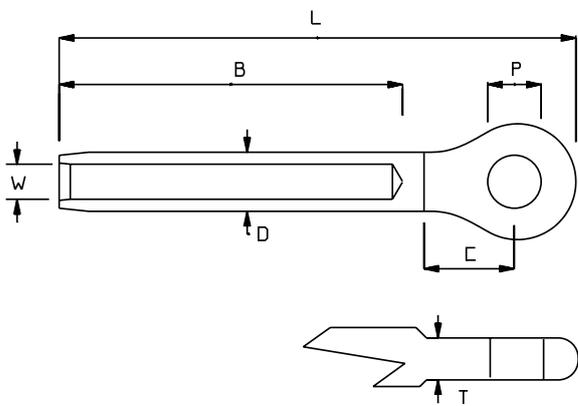
# STAINLESS STEEL SWAGE EYES

## PRODUCT FEATURES

- Forged from 316L stainless steel (1.4404)
- Available for standard wires sizes from 3mm up to 32mm
- Other sizes and custom lengths on request
- Manufactured using the latest technology in electrical upset forging
- Excellent grain structure resists corrosion and fatigue
- All CE marked and supplied with instruction leaflet on safe use and storage
- Swage eyes are available for imperial wire sizes, please contact us for the correct part codes.

## QUALITY FEATURES

- Inspection certificate BS EN 10204 3.1 available on request
- High quality finish and excellent polish
- No casting or welding
- Fatigue rated in accordance to EN13411-8
- lifting eyes are individually engraved with the test batch reference
- Safety factor 6:1



PRODUCT NUMBER	DIMENSIONS							WLL (kg)	
	Wire (W)	P	B	D	C	T	L	7X19 / 6X19-IWRC	6X36-IWRC
SE03-EN	3mm	6.3	39.0	6.3	11.0	5.0	60.0	70	
SE04-EN	4mm	8.0	45.0	7.5	14.0	6.5	72.0	125	
SE05-EN	5mm	9.5	52.0	9.1	17.0	7.8	84.0	200	
SE06-EN	6mm	11.1	64.0	12.5	20.0	9.5	102.0	285	
SE07-EN	7mm	12.7	70.0	14.3	23.0	11.5	113.0	390	
SE08DS-EN	8mm	12.7	80.0	16.0	23.0	11.5	125.0	510	
SE08-EN	8mm	14.3	80.0	16.0	24.0	13.5	128.0	510	545
SE08US-EN	8mm	16.0	80.0	16.0	29.0	15.0	136.0	510	545
SE10-EN	10mm	16.0	100.0	18.0	29.0	15.0	155.0	795	855
SE12-EN	12mm	19.1	132.0	21.4	34.0	17.5	197.0	1150	1230
SE14-EN	14mm	22.2	156.0	25.0	40.0	21.5	232.0	1515	1675
SE16-EN	16mm	25.4	176.0	28.2	46.0	23.5	232.0	2040	2175
SE19-EN	19mm	29.0	210.0	34.5	51.0	27.0	307.0		
SE22-EN	22mm	32.2	242.0	40.3	55.5	30.0	354.0		
SE26-EN	26mm	35.2	290.0	45.9	59.2	33.0	417.2		
SE28-EN	28mm	45.4	311.9	50.0	72.0	42.0	464.1		
SE32-EN	32mm	51.6	335.0	58.0	83.3	49.0	507.0		

Dimensions in millimeters

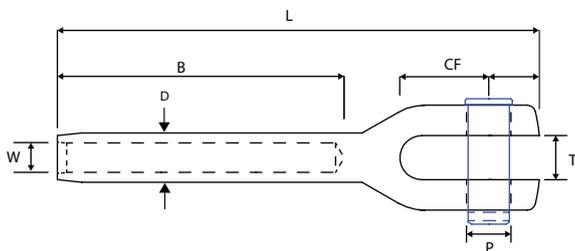
# STAINLESS STEEL SWAGE FORKS

## PRODUCT FEATURES

Machined from 316L stainless steel (1.4404)  
 Available for standard wires sizes from 3mm up to 32mm  
 Other sizes and custom lengths on request  
 Excellent grain structure resists corrosion and fatigue  
 All CE marked and supplied with instruction leaflet on safe use and storage  
 Swage forks are available for imperial wire sizes, please contact us for the correct part codes.

## QUALITY FEATURES

Inspection certificate BS EN 10204 3.1 available on request  
 High quality finish and excellent polish  
 No casting or welding  
 Fatigue rated in accordance to EN13411-8  
 lifting forks are individually engraved with the test batch reference  
 Safety factor



PRODUCT NUMBER	DIMENSIONS							WLL (kg)	
	Wire (W)	P	D	CF	T	B	L	7X19 / 6X19-IWRC	6X36-IWRC
SF03-EN	3mm	6.0	6.3	12.5	6.2	39.0	70.0	70	
SF04 EN	4mm	8.0	7.5	17.0	7.9	45.0	83.0	125	
SF05 EN	5mm	9.5	9.1	19.0	9.9	52.0	97.0	200	
SF06 EN	6mm	11.0	12.5	22.0	10.9	64.0	113.0	285	
SF07 EN	7mm	12.0	14.3	25.0	12.7	70.0	128.0	390	
SF08DS EN	8mm	12.0	16.0	25.0	12.7	80.0	140.0	510	545
SF08 EN	8mm	14.0	16.0	28.0	13.8	80.0	144.5	510	545
SF10 EN	10mm	16.0	18.0	32.0	15.8	100.0	174.0	795	855
SF12 EN	12mm	19.0	21.4	38.0	17.8	132.0	227.0	1150	1230
SF14 EN	14mm	22.0	25.0	45.0	22.0	156.0	258.0	1515	1675
SF16 EN	16mm	25.0	28.2	50.0	25.0	176.0	295.5	2040	2175
SF18 EN	19mm	28.0	34.5	58.0	28.2	210.0	342.0		
SF19 EN	19mm	28.0	34.5	58.0	28.2	210.0	342.0		
SF20 EN	22mm	32.0	40.3	64.0	31.8	242.0	391.0		
SF22 EN	22mm	32.0	40.3	64.0	31.8	242.0	391.0		4125
SF26 EN	26mm	35.0	45.9	70.0	34.8	290.0	451.5		5412
SF32-EN	32mm	51.1	58.0	108.5	52.0	335.0	598.0		

Dimensions in millimeters

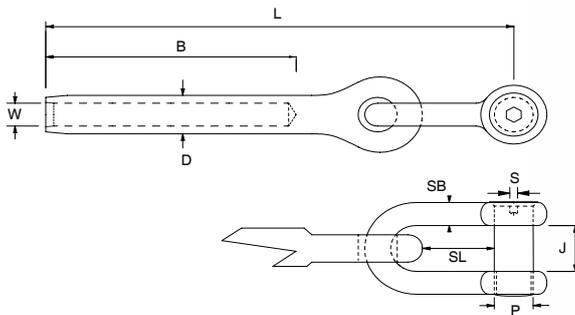
# STAINLESS STEEL SHACKLE TOGGLES

## PRODUCT FEATURES

- Forged from 316L stainless steel (1.4404)
- Available for standard wires sizes from 3mm up to 26mm
- Other sizes and custom lengths on request
- Manufactured using the latest technology in electrical upset forging
- Excellent grain structure resists corrosion and fatigue
- All CE marked and supplied with instruction leaflet on safe use and storage
- Swage shackle toggles are available for imperial wire sizes, please contact us for the correct part codes.

## QUALITY FEATURES

- Inspection certificate BS EN 10204 3.1 available on request
- High quality finish and excellent polish
- No casting or welding
- Fatigue rated in accordance to EN13411-8
- lifting shackle toggles are individually engraved with the test batch reference
- Safety factor 6:1



Also available with an E-pin.

PRODUCT NUMBER	DIMENSIONS									WLL (kg)	
	Wire	P	D	B	SB	SL	S	J	L	7X19 / 6X19-IWRC	6X36-IWRC
SST03-EN	3mm	6.0	6.3	39.0	5.0	14.0	3.0	14.0	82	70	
SST04-EN	4mm	8.0	7.5	45.0	6.0	16.0	4.0	20.0	101	125	
SST05-EN	5mm	9.5	9.1	52.0	8.0	22.0	4.0	22.0	118	200	
SST06-EN	6mm	11.0	12.7	64.0	9.5	27.0	5.0	25.0	141	285	300
SST07-EN	7mm	12.7	14.3	71.0	11.0	32.0	5.0	27.0	158		
SST08-EN	8mm	14.0	16.0	80.0	12.7	36.0	5.0	29.0	179	510	545
SST10-EN	10mm	16.0	18.0	100.0	14.3	42.0	6.0	29.0	216	795	855
SST12-EN	12mm	19.0	21.4	132.0	16.0	45.0	6.0	32.0	263	1150	1230
SST14-EN	14mm	22.0	25.0	156.0	19.0	63.0	8.0	38.0	309	1515	1675
SST16-EN	16mm	25.4	28.2	176.0	22.0	63.0	8.0	45.0	351	2040	2175

Dimensions in millimeters

# STAINLESS STEEL WIRE ROPES (AISI 316L)

## PRODUCT FEATURES

- Sold as bespoke lengths to suit application or in 250m and 500m reels
- Varying constructions and wire sizes
- Austenitic condition to give maximum corrosion resistance
- Dimensions and tensile grades conforming to BS MA 29
- Wire rope slings available, cut and manufactured to custom lengths
- Stainless Steel wire rope in accordance to EN 10264-1/4
- Stainless Steel wire rope with construction 7X19 in accordance to EN12385-4
- Material certificates on request

## QUALITY FEATURES

- High quality finish and excellent polish



	CONSTRUCTION 7X19				
	Product Code	Diameter (mm)	M.B.L (kN)	M.B.L (kg)	Weight kg/100m
	WR015(7x19)	1.5	1.25	128	0.90
	WR02(7x19)	2.0	2.08	212	1.49
	WR025(7x19)	2.5	3.26	332	2.33
	WR03(7x19)	3.0	4.69	478	3.35
	WR035(7x19)	3.5	6.39	652	4.56
	WR04(7x19)	4.0	8.34	850	5.95
	WR05(7x19)	5.0	13.00	1,330	9.30
	WR06(7x19)	6.0	18.80	1,920	13.40
	WR07(7x19)	7.0	25.50	2,600	18.20
	WR08(7x19)	8.0	33.40	3,410	23.80
	WR10(7x19)	10.0	52.10	5,310	37.20
	WR12(7x19)	12.0	75.10	7,660	53.60
	WR14(7x19)	14.0	102.00	10,100	72.90
	WR16(7x19)	16.0	133.00	13,600	95.50

## STAINLESS STEEL WIRE ROPES (AISI 316L)

	CONSTRUCTION 6X36WS + IWRC				
	Product Code	Diameter (mm)	M.B.L (kN)	M.B.L (kg)	Weight (kg/100m)
	WR06(6x36)-I	6.0	20.08	2,047	14.6
	WR08(6x36)-I	8.0	35.70	3,641	26.0
	WR10(6x36)-I	10.0	55.90	5,700	40.9
	WR12(6x36)-I	12.0	80.50	8,210	58.9
	WR14(6x36)-I	14.0	110.0	11,200	80.2
	WR16(6x36)-I	16.0	143.0	14,600	105.0
	WR18(6x36)-I	18.0	181.00	18,500	133.0
	WR20(6x36)-I	20.0	224.0	22,800	164.0
	WR22(6x36)-I	22.0	271.00	27,600	198.0
	WR24(6x36)-I	24.0	322.0	32,800	236.0
	WR26(6x36)-I	26.0	354.00	36,100	276.0
	WR28(6x36)-I	28.0	410.00	41,800	321.0
	WR30(6x36)-I	30.0	471.00	48,000	368.0

	CONSTRUCTION 18X7 + IWRC - ROTATION RESISTING				
	Product Code	Diameter (mm)	M.B.L (kN)	M.B.L (kg)	Weight (kg/100m)
	WR03(18x7)-I	3.0	4.66	475	4.8
	WR04(18x7)-I	4.0	8.50	867	6.4
	WR05(18x7)-I	5.0	12.90	1,320	10.0
	WR06(18x7)-I	6.0	18.50	1,890	14.4
	WR07(18x7)-I	7.0	25.20	2,570	19.6
	WR08(18x7)-I	8.0	33.0	3,370	25.7
	WR10(18x7)-I	10.0	51.50	5,250	40.1
	WR12(18x7)-I	12.0	74.20	7,570	57.7
	WR14(18x7)-I	14.0	100.90	10,289	75.2
	WR16(18x7)-I	16.0	129.30	13,179	101.5

We offer a wide range of Stainless Steel wire Ropes for all applications. Please contact us for other wire sizes and constructions.



# CERTIFICATION



Lloyd's Register  
LRQA

## CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

**Petersen Stainless Rigging Ltd  
Cowen Road, Blaydon-on-Tyne, Tyne & Wear,  
United Kingdom**

has been approved by Lloyd's Register Quality Assurance  
to the following Quality Management System Standard:

**ISO 9001:2008**

The Quality Management System is applicable to:

**The design and manufacture of lifting equipment, cable  
termination and tensioning equipment and ancillary  
components for the marine, oil and gas, offshore,  
construction, defence and aerospace industries.**

This certificate forms part of the approval identified by certificate number LRQ 4007162

Approval  
Certificate No: LRQ 4007162/B

Original Issue Date: 17 January 2013

Issue Date: 17 January 2016

Expiry Date: 14 September 2018

Issued by: Lloyd's Register Quality Assurance Limited



1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom

Lloyd's Register Quality Assurance Limited is a limited company registered in England and Wales.  
Registered number: 1879370. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A member of the Lloyd's Register group.

# CERTIFICATION



Lloyd's Register  
LRQA

## CERTIFICATE OF APPROVAL

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**Petersen Stainless Rigging Ltd**  
**Cowen Road, Blaydon-on-Tyne, Tyne & Wear,**  
**United Kingdom**

has been approved by Lloyd's Register Quality Assurance Limited, Birmingham, UK to the following Quality Management System Standard:

**AS 9100C**  
**(technically equivalent to EN 9100:2009)**

This certification has been performed  
in accordance with the requirements of EN 9104-001:2013

The Quality Management System is applicable to:

**The design and manufacture of lifting equipment, cable termination and tensioning equipment and ancillary components for the marine, oil and gas, offshore, construction, defence and aerospace industries.**

This certificate forms part of the approval identified by certificate number LRQ 4007162

Approval  
Certificate No: LRQ 4007162/A

Original ISO Issue Date: 17 January 2013

Original ASCS Issue Date: 17 January 2013

Issue Date: 17 January 2016

Expiry Date: 16 January 2019

Issued by: Lloyd's Register Quality Assurance Limited



aerospace  
sector  
certification  
scheme

1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom

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# TERMS AND CONDITIONS

1. Interpretation
- 1.1 In these Conditions "BUYER" means the person who accepts a quotation of the Seller for the sale of the Goods or whose order for the Goods is accepted by the Seller "GOODS" means the goods (including any instalment of the goods or any parts for them) which the Seller is to supply in accordance with these Conditions "SELLER" means PETERSEN STAINLESS RIGGING LIMITED [or any associated or subsidiary company of it] "CONDITIONS" means the standard terms and conditions of sale set out in this document and (unless the context otherwise requires) includes any special terms and conditions agreed in writing between the Buyer and the Seller "CONTRACT" means the contract for the purchase and sale of the Goods "WRITING" includes telex, cable, facsimile transmission and comparable means of communication
- 1.2 Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended, re-enacted or extended at the relevant time.
2. Basis of the Sale
- 2.1 The Seller shall sell and the Buyer shall purchase the Goods in accordance with any written quotation of the Seller which is accepted by the Buyer, or any order of the Buyer which is accepted by the Seller, subject in either case to these Conditions, which shall govern the Contract to the exclusion of any other terms and conditions subject to which any such quotation is accepted or purported to be accepted, or any such order is made or purported to be made, by the Buyer.
3. Orders and Specifications
- 3.1 No order submitted by the Buyer shall be deemed to be accepted by the Seller unless and until confirmed in Writing by the Seller's authorised representative.
- 3.2 The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any order (including any applicable specification) submitted by the Buyer, and for giving the Seller any necessary information relating to the Goods within a sufficient time to enable the Seller to perform the Contract in accordance with its terms.
- 3.3 The quantity, quality and description of and any specification for the Goods shall be those set out in the Seller's quotation (if accepted by the Buyer) or the Buyer's order (if accepted by the Seller).
- 3.4 If the Goods are to be manufactured or any process is to be applied to the Goods by the Seller in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Seller against all loss, damages, costs and expenses awarded against or incurred by the Seller in connection with or paid or agreed to be paid by the Seller in settlement of any claim for infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which results from the Seller's use of the Buyer's specification.
- 3.5 The Seller reserves the right to make any changes in the specification of the Goods which are required to conform with any applicable statutory requirements or EC requirements or, where the Goods are to be supplied to the Seller's specification, which do not materially affect their quality or performance.
- 3.6 No order which has been accepted by the Seller may be cancelled by the Buyer except with the agreement in Writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all loss (including loss of profit), costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Seller as a result of cancellation.
4. Price of the Goods
- 4.1 The price of the Goods shall be the Seller's quoted price or, where no price has been quoted (or a quoted price is no longer valid), the price listed in the Seller's published price list current at the date of despatch of the order. Where the goods are for export from the United Kingdom, the Seller's published export price list shall apply. All prices quoted are valid for 30 days only or until earlier acceptance by the Buyer, after which time they may be altered by the Seller without giving notice to the Buyer.
- 4.2 The Seller reserves the right, by giving notice to the Buyer at any time before delivery, to increase the price of the Goods to reflect any increase in the cost to the Seller which is due to any factor beyond the control of the Seller (such as, without limitation, any foreign exchange fluctuation, currency regulation, alteration of duties, significant increase in the costs of labour, materials or other costs of manufacture), any change in delivery date, quantities or specifications for the Goods which is requested by the Buyer, or any delay caused by any instructions of the Buyer or failure of the Buyer to give the Seller adequate information or instructions.
- 4.3 Except as otherwise stated under the terms of any quotation or in any price list of the Seller, and unless otherwise agreed in Writing between the Buyer and the Seller, all prices are given by the Seller on a delivered basis, but where the Seller agrees to deliver the Goods otherwise than at the Seller's premises, the Buyer shall be liable to pay the Seller's additional charges for transport, packaging and insurance.
- 4.4 The price is exclusive of any applicable value added tax, which the Buyer shall be additionally liable to pay to the Seller at the prevailing rate applicable at the time of despatch of the goods.
5. Terms of Payment
- 5.1 Subject to any special terms agreed in Writing between the Buyer and the Seller, the Seller shall be entitled to invoice the Buyer for the price of the Goods on or at any time after delivery of the Goods, unless the Goods are to be collected by the Buyer or the Buyer wrongfully fails to take delivery of the Goods, in which event the Seller shall be entitled to invoice the Buyer for the price at any time after the Seller has notified the Buyer that the Goods are ready for collection or (as the case may be) the Seller has tendered delivery of the Goods.
- 5.2 The Buyer shall pay the price of the Goods within 30 days of the date of the Seller's invoice, notwithstanding that delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.
- 5.3 If the Buyer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Seller, the Seller shall be entitled to cancel the contract or suspend any further deliveries to the Buyer; and charge the Buyer interest (both before and after any judgment) on the amount unpaid, at the rate of 3 per cent per annum above the base rate of Barclays Bank plc from time to time, until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest).
- 5.4 Where delivery is made by instalments each separate delivery shall constitute a separate order for the purposes of payment
6. Delivery
- 6.1 Any dates quoted for delivery of the Goods are approximate only and the Seller shall not be liable for any delay in delivery of the Goods howsoever caused. Time for delivery shall not be of the essence unless previously agreed by the Seller in writing. The Goods or any part of them may be delivered by the Seller in advance of the quoted delivery date upon giving reasonable notice to the Buyer.
- 6.2 Where the Goods are to be delivered in instalments, each delivery shall constitute a separate contract and failure by the Seller to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated.
- 6.3 If the Seller fails to deliver the Goods for any reason other than any cause beyond the Seller's reasonable control or the Buyer's fault, the Buyer shall give written notice to the Seller within 7 days of the expected date of delivery and the Seller's liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the price of the Goods.
- 6.4 If the Buyer fails to take delivery of the Goods or fails to give the Seller adequate delivery instructions at the time stated for delivery (otherwise than by reason of any cause beyond the Buyer's reasonable control or by reason of the Seller's fault) then, without prejudice to any other right or remedy available to the Seller, the Seller may store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of the storage; or sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) charge the Buyer for any shortfall below the price under the Contract.
7. Risk and Property
- 7.1 Risk of damage to or loss of the Goods shall pass to the Buyer:
- 7.1.1 in the case of Goods to be delivered otherwise than at the Buyer's premises at the time when the Seller notifies the Buyer that the Goods are available for collection; or
- 7.1.2 in the case of Goods to be delivered at the Buyer's premises, at the time of delivery or, if the Buyer wrongfully fails to take delivery of the Goods, the time when the Seller has tendered delivery of the Goods.
- 7.2 Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, the property in the Goods shall not pass to the Buyer until the Seller has received in cash or cleared funds payment in full of the price of the Goods and all other goods agreed to be sold by the Seller to the Buyer and previously invoiced whether or not actually delivered.
- 7.3 Until such time as the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Seller's fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured and identified as the Seller's property, but shall be entitled to re-sell or use the Goods in the ordinary course of its business.
- 7.4 Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold), the Seller shall be entitled at any time to require the Buyer to deliver up the Goods to the Seller and, if the Buyer fails to do so forthwith, to enter upon any premises of the Buyer or any third party where the Goods are stored and repossess the Goods.
- 7.5 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller, but if the Buyer does so all moneys owing by the Buyer to the Seller shall (without prejudice to any other right or remedy of the Seller) forthwith become due and payable.
8. Warranties and Liability
- 8.1 Subject to the conditions set out below the Seller warrants that the Goods will correspond with their specification at the time of delivery which specifications shall be determined by the terms of the Contract and not by any drawings, photographs, illustrations or other descriptive matter accompanying the Seller's estimates or contained in any advertising matter.
- 8.2.1 the Seller shall be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buyer;
- 8.2.2 the Seller shall be under no liability in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Seller's instructions (whether oral or in writing) misuse or alteration or repair of the Goods without the Seller's approval;
- 8.2.3 the Seller shall be under no liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the Goods has not been paid by the due date for payment;
- 8.2.4 the above warranty does not extend to parts, materials or equipment not manufactured by the Seller, in respect of which the Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer to the Seller.
- 8.3 Subject as expressly provided in these Conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.
- 8.4 Any claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with specification shall (whether or not delivery is refused by the Buyer) be notified to the Seller within 7 days from the date of delivery. If delivery is not refused, and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability for such defect or failure, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract.
- 8.5 Where any valid claim in respect of any of the Goods which is based on any defect in the quality or condition of the Goods or their failure to meet specification is notified to the Seller in accordance with these Conditions, the Seller shall be entitled to replace the Goods (or the part in question) free of charge or, at the Seller's sole discretion, refund to the Buyer the price of the Goods (or a proportionate part of the price) in respect of which liability arises, but the Seller shall have no further liability to the Buyer.
- 8.6 Except in respect of death or personal injury caused by the Seller's negligence, the Seller shall not be liable to the Buyer by reason of any representation, or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for any consequential loss or damage (whether for loss of profit or otherwise), costs, expenses or other claims for consequential whatsoever (and whether caused by the negligence of the Seller, its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods or their use or resale by the Buyer, and the entire liability of the Seller under or in connection with the Contract shall not exceed the price of the Goods, except as expressly provided in these Conditions.
- 8.7 The Seller shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations in relation to the Goods, if the delay or failure was due to any cause beyond the Seller's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Seller's reasonable control:
  - 8.7.1 Act of God, explosion, flood, tempest, fire or accident;
  - 8.7.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;
  - 8.7.3 acts, restrictions, regulations, by-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;
  - 8.7.4 import or export regulations or embargoes;
  - 8.7.5 strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Seller or of a third party);
  - 8.7.6 difficulties in obtaining raw materials, labour, fuel, parts or machinery;
  - 8.7.7 power failure or breakdown in machinery.
9. Insolvency of Buyer
- 9.1 This clause applies if:
  - 9.1.1 the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or
  - 9.1.2 an encumbrancer takes possession, or a receiver is appointed, of any of the property or assets of the Buyer; or
  - 9.1.3 the Buyer ceases, or threatens to cease, to carry on business; or
  - 9.1.4 the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly.
- 9.2 If this clause applies then, without prejudice to any other right or remedy available to the Seller, the Seller shall be entitled to cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer, and if the Goods have been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.
10. Export Terms
- 10.1 In these Conditions "Incoterms" means the international rules for the interpretation of trade terms of the International Chamber of Commerce as in force at the date when the Contract is made. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Conditions, but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.
- 10.2 Where the Goods are supplied for export from the United Kingdom, the provisions of this clause 11 shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply notwithstanding any other provision of these Conditions.
- 10.3 The Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties thereon.
- 10.4 Unless otherwise agreed in writing between the Buyer and the Seller, Goods shall be delivered to the air or sea port of shipment and the Seller shall be under no obligation to give notice under section 32(3) of the Sale of Goods Act 1979.
- 10.5 Payment of all amounts due to the Seller shall be made by irrevocable letter of credit opened by the Buyer in favour of the Seller and confirmed by a bank in England acceptable to the Seller or, if the Seller has agreed in Writing on or before acceptance of the Buyer's order to waive this requirement, by acceptance by the Buyer and delivery to the Seller of a current account cheque in sterling drawn on a Bank in England within 30 days of the invoice date.
11. General
- 11.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in Writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice.
- 11.2 No waiver by the Seller of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.
- 11.3 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.
- 11.4 The Contract shall be governed by the Laws of England and the parties agree to submit to the non-exclusive jurisdiction of the English Courts.

# CONTACT US

For any more information on our lifting products, please visit [www.liftingshackles.com](http://www.liftingshackles.com)  
Alternatively call us on +44 (0)191 414 0156 or email [sales@petersen-stainless.co.uk](mailto:sales@petersen-stainless.co.uk)



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