



#### EURO GROUND RELEASE SHACKLES

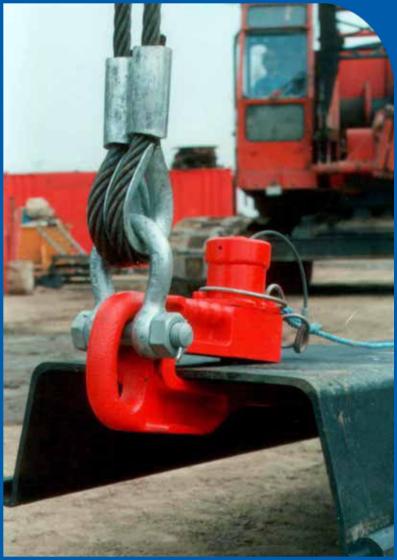
This robust pile lifting shackle was contractor designed and developed over many years of site use and abuse. The use of these shackles compliments the "Feet on the Ground" approach to piling. When used in conjunction with the Sheet Pile Threader, there is no need for site operatives to go above the safety of top frame level for interlocking sheet piles or releasing the lifting shackles. The shackles are suitable for lifting all steel piles up to 28 mm thick and within the safe working load of the shackle. The shackle is stiffened to resist spreading of the forks when lifting at 90° to the axis of the pile. (See "Safety Check List"). When lifting sheet piles in pairs or individual piles weighing more than the Safe Working Load of the shackle, it is necessary to use multiple shackles in order to keep within the safe working load. Pairs of shackles can be supplied mounted on a two legged steel wire rope sling. The advantage being that the standard pair of shackles with lifting sling can be fitted to any pair of Larssen 'U' piles, Frodingham 'Z' piles, pipe or box piles. No additional parts or change of components is necessary. The ring at the top of the sling can be hooked directly onto a standard crane hook block. 'D' shackle or fork anchor. Shackles can also be fitted onto a solid steel cross head according to customers requirements.

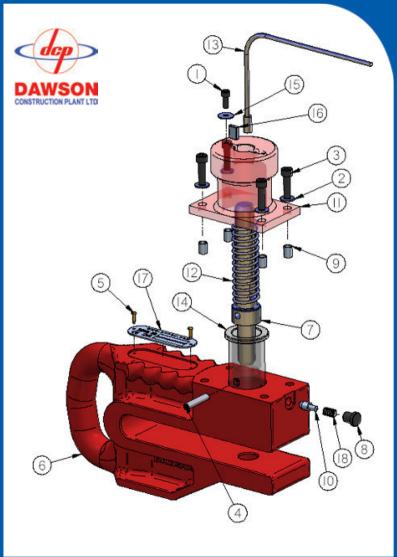
#### **FEATURES**

- . Robust High Strength cast steel body. High alloy steel plunger
- . Plunger mechanism concealed for maximum protection
- . Plunger mechanism easily detachable for maintenance
- . Heavy web stiffening to withstand side left (i.e. 90° to the axis) imposed when lifting piles from a stack (See "Safety Check List" for correct working practice)

Model No.	Description
5983	4T EGRS 150 Throat General Assembly
5984	7.5T EGRS 150 Throat General Assembly
5985	10T EGRS 150 Throat General Assembly
5986	7.5T EGRS 250 Throat General Assembly
5987	10T EGRS 250 Throat General Assembly
GRS-017 ISSA	Optional Remote Release Detent Kit









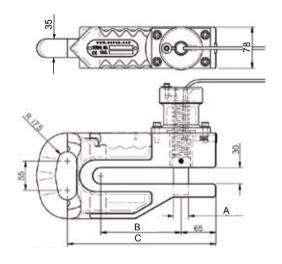
## **PARTS LIST**

	Euro Ground Release Shackle									
Item No.	Quantity	Part Name	5983	5984	5985	5986	5987			
1	1	Socket Head Cap Screw		0	M06.016.0	2				
2	4	Socket Head Cap Screw		0	M08-030-0	)2				
3	4	Washer		0	M08.000.2	:0				
4	1	Coiled Spring Pin		0	M08.040.3	6				
5	2	No6 x 1/2" Rivet		1	-204-00-0	1				
6	1	EGRS Throat	5903	5904	5905	5906	5907			
7	1	Plunger	5908	5909	5913	5909	5913			
8	1	M12 X 1.5 Plug	5915							
9	4	Dowel Bushing	5916							
10	1	Detent Pin	5919							
11	1	Tube Assembly			5922A-B					
12	1	Compression Spring			5926					
13	1	Safety Pull Wire Assy			5930A					
14	1	Sleeve	5931							
15	1	M6 x Ø19 Washer	5936							
16	1	Guide Key	5937							
17	1	Shackle ID Plate	5938							
18	1	Compression Spring			6935					





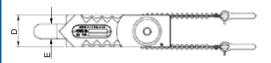
# GROUND RELEASE SHACKLE DIMENSIONS

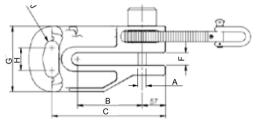


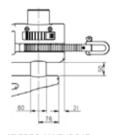
	Model No.						
	5983	5984	5985	5986	5987		
WEIGHT kg	17.5	17.5	17.5	21.5	21.5		
Α	Ø22	Ø28	Ø35	Ø28	Ø35		
В	150	150	150	250	250		
С	277	277	277	377	377		



#### RATCHET RELEASE SHACKLE DIMENSIONS







3.5T- 10T ERRS 150/250/300 THROAT

40T ERRS 250 THROAT

	Model No.										
	681	682	683	684	686	687	688	689	692A	693A	6962A
WEIGHT	15 kg	19 kg	15 kg	19 kg	19 kg	15 kg	19 kg	15 kg	22 kg	22 kg	67 kg
Α	Ø20	Ø20	Ø24	Ø24	Ø27	Ø35	Ø35	Ø27	Ø27	Ø35	Ø60
В	158	258	158	258	258	158	258	158	303	303	239
С	277	377	277	377	377	277	377	277	360	360	457
D	78	78	78	78	78	78	78	78	80	80	125
E	35	35	35	35	35	35	35	35	40	40	60
F	30	30	30	30	30	30	30	30	32	32	50
G	160	160	160	160	160	160	160	160	202	202	280
Н	55	55	55	55	55	55	55	55	60	60	80
J	R17.5	R17.5	R17.5	R17.5	R17.5	R17.5	R17.5	R17.5	R20	R20	R40







## EURO RATCHET RELEASE SHACKLES

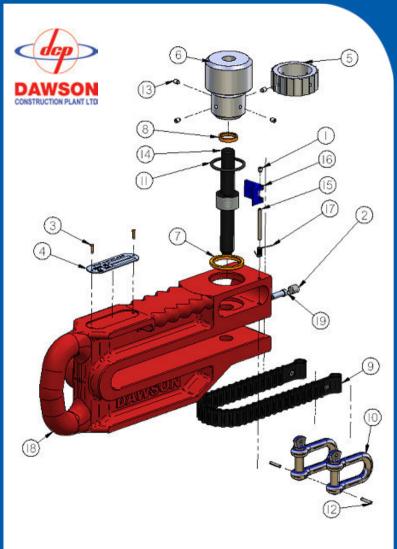
This robust lifting shackle was contractor designed and developed over many years of site use and abuse. The use of these shackles compliments the "Feet on the Ground" approach to steel erection and pile installation. There is no need for site operatives to go into a dangerous position to release the lifting attachment.

The shackle is stiffened to resist spreading of the forks when lifting at 90° to the axis of the lift (see "Safety Check List"). The Ratchet Shackle is designed for lifting steel through standard bolt holes or other units of lift having a suitable hole through which the pin can be conveniently and safely engaged. **FEATURES** 

- . Robust High Strength cast steel body
- . Pin mechanism concealed for maximum protection
- . Pin mechanism easily detachable for maintenance
- Can be used for lifting columns, pipe piles, sheet piles & steel fabrications
- Heavy web stiffening to withstand side lift (i.e. 90° to the axis) imposed when lifting from the horizontal.
   (See "Safety Check List for correct working practice)

Model No.	Description
681	3.5T ERRS 150 Throat General Assembly
682	3.5T ERRS 250 Throat General Assembly
683	5T ERRS 150 Throat General Assembly
684	5T ERRS 250 Throat General Assembly
686	7.5T ERRS 250 Throat General Assembly
687	10T ERRS 150 Throat General Assembly
688	10T ERRS 250 Throat General Assembly
689	7.5T ERRS 150 Throat General Assembly
692A	7.5T ERRS 300 Throat General Assembly
693A	10T ERRS 300 Throat General Assembly
6962A	40T ERRS 250 Throat General Assembly

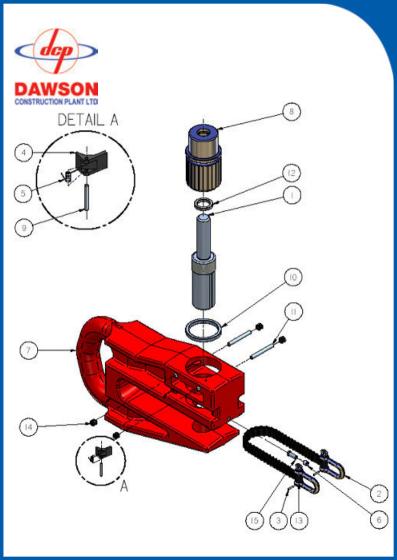






## PARTS LIST

	Euro Ratchet Release Shackle											
			Eur	o Ratc	het Re	elease	Shack	de				
Item No.	Qty	Part Name	681	682	683	684	686	687	688	689	692A	693A
1	1	Socket Set Screw M6 x 6					0M06.	006.05				
2	1	Socket Set Screw M12 x 12					0M12-	012-05				
3	2	No.6 x 1/2 " Rivet					1-204	-00-01				
4	1	Shackle ID Plate					59	38				
5	1	Ratchet Collar Machined			604			642	642	604	604	642
6	1	Release Nut			605			643	643	606	606	643
7	1	Nylon Ring	606	606	606	606	606	644	644	606	606	644
8	1	Nylon Buffer / Rubber Stop	607 / 607R									
9	1	Ratchet Belt Assy					60	8A				
10	2	Small D Shackle					60	09				
11	1	O-Ring					6	10				
12	2	Spring Pin					0M04.	020.22				
13	4	Dog P't Grub Screw	0M06.008.16									
14	1	Threaded Pin	621	621	671	671	601	641	641	601	601	641
15	1	Pivot Pin					62	26				
16	1	Pawl	627									
17	1	Pawl Spring	628									
18	1	ERRS Main Body	661/A	666/A	662/A	667/A	668/A	664/A	669/A	663/A	678	679
19	1	Guide Peg					6	72				

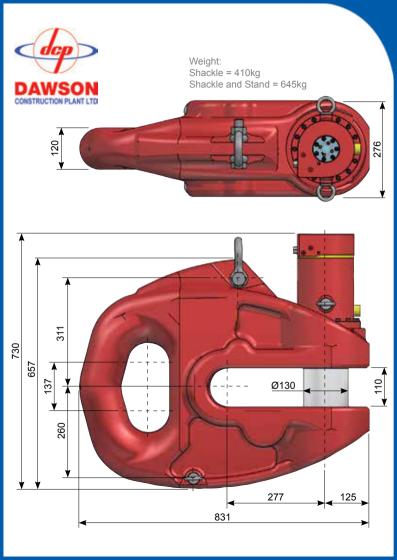




## PARTS LIST

	40T Ratchet Release Shackle							
Item No.	Quantity	Part Name	6962A					
1	1	Threaded Pin	6912					
2	2	Small D Shackle	609					
3	2	Spring Pin	0M04.020.22					
4	1	Pawl	627					
5	1	Pawl Spring	628					
6	1	M12x12 Flat Nose Grub Screw	0M12.012.05					
7	1	Main Body	6902/A					
8	1	Release Nut	6920					
9	1	Pivot Pin	6923					
10	1	Bearing Washer	6930					
11	2	Location Bar	6931					
12	1	Nylon / Rubber Buffer Stop	6932 / 6932R					
13	1	Ratchet Belt Assembly	6936A					
14	4	Plain Cup Point Set Screw	0M16.016.05					
15	1	Guide Pin	6942					







## 100T HYDRAULIC REMOTE RELEASE SHACKLE

The Dawson 100 ton release shackle has been specifically designed for use on large tubes, and when used as a pair, tubes weighing up to 200 tons can be lifted.

The pin size is 130mm Diameter and is retracted and engaged hydraulically with a hand pump mounted on the ground complete with spooler to keep the hose under control.

The hose length is 60mts allowing long piles to be positioned; because the pin is released hydraulically the operator does not need to be directly underneath the shackle.

The shackle and spooler are mounted into a fabricated frame so that loading and unloading or moving around the job site is just a single crane lift.

#### **FEATURES**

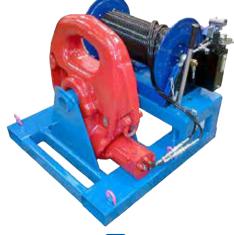
High strength cast steel body.

Pin and hydraulic ram are easily removed for easy maintenance.

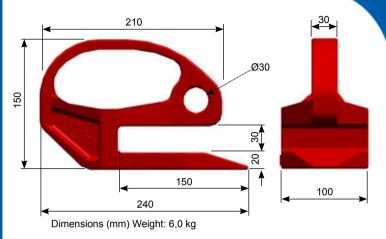
Main body tested to 5 times SWL

Each shackle is proof tested to 2 times SWL





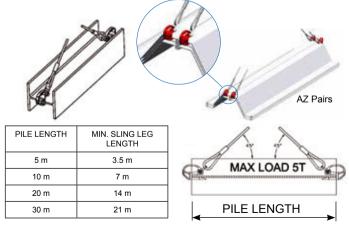




Critical Min. Lift Angle 45°

Lifting straps must be of equal length.

Angles less than 45° could result in an over loading of the equipment.



1/2 PILE LENGTH x 1.414 = MIN SLING LEG LENGTH



#### STEEL HANDLING SHOE



#### SWL 2.5 tonnes

For safe handling of steel sections and splitting from stacks.

The DCP Lifting Shoe is purpose designed for handling structural sections of steel in workshops, stockyards and on construction sites.

Shoes should be used in pairs on steel wire rope or chain slings or on a spreader beam.

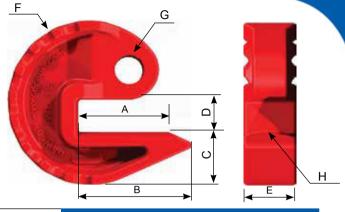
#### QUALITY ASSURANCE

Body - high quality alloy steel casting.

Inspection procedures:

- 20% batch x-ray
- 100% ultrasonic inspection
- 100% MPI





Model	Dimensions									
Woder	Α	В	С	D	E	F	G	Н		
12 tonne	140	175	80	50	80	R125	Ø45	R124		
16 tonne	164	190	88	60	100	R143	Ø54	R305		
24 tonne	235	260	122	80	120	187	Ø62	R305		

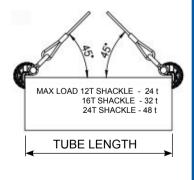
Critical Min. Lift Angle 45°

Lifting straps must be of equal length.

Angles less than 45° could result in an over loading of the equipment.



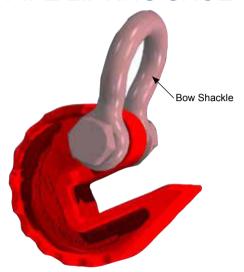
TUBE LENGTH	MIN. SLING LEG LENGTH
5 m	3.5 m
10 m	7 m
20 m	14 m
30 m	21 m



1/2 TUBE LENGTH x 1.414 = MIN SLING LEG LENGTH



#### PIPE LIFTING SHOE



#### 12 / 16 / 24 tonne

The 12 / 16 / 24 tonne pipe lifting shoes are made from a high grade cast steel allowing weight reduction to be made in the design. New features include a radial profile engagement face and all round grip handling ridges.

	12 tonne	16 tonne	24 tonne
Part Number	908	909	910
Total Weight of shoe & shackle	25 kg	38.5 kg	67.5 kg
Weight of Shoe	17.25 kg	25 kg	47.5 kg
SWL per pair	24 tonne	32 tonne	48 tonne
SWL Bow Shackle	17 tonne	25 tonne	35 tonne





## PRODUCT SUMMARY

WORLDWIDE DEALER NETWORK

SUPPLY, LOCAL SUPPORT.

**GLOBAL** 

Dawson Construction Plant Ltd Chesney Wold. Bleak Hall, Milton Keynes, MK6 1NE, England Tel: +44 (0) 1908 240300 Fax: +44 (0) 1908 240222

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