ROV SHACKLES & HOOKS



Applications

Green Pin® ROV shackles and hooks are used in sub-sea lifting operations. These products are more specialized than others. More fit to the extreme conditions under water. Like our subsea shackles and hooks for ROV operations. Green Pin® offers an ocean of possibilities with our range of specialized components. Designed and produced with the right subsea mindset. For more control. For more precision. And for more possibilities.

Range

Green Pin® offers a wide range of ROV shackles and hooks for a variety of applications. The range stretches from WLL 6.5 t to 300 t. This provides our customers with a very extensive range to choose a shackle or hook that suits their application best.

Design

Green Pin® offers four types of ROV release shackles and two types of combined release & retrieve shackles. Showpieces in this range are the Green Pin® Guided Pin ROV Shackle (for release and retrieve operations) and the Green Pin® Locking Clamp ROV (Sling) Shackle (for release operations only). ROV release shackles are available with spring pins, locking clamps or spring loaded.

Next to the shackles Green Pin® also offers two types of ROV hooks: the Green Pin® ROV Eye Hook and Green Pin® ROV Shank Hook. Both hooks can be used for release operations while the shank hook can be used for retrieve operations as well. Each hook has a wire rope attached to the latch to make operation with an ROV arm easier.

These shackles and hooks are generally marked with:

- Working Load Limit - e.g. WLL 25 T
- manufacturer's symbol - e.g. GP
- traceability code - e.g. HA indication a particular batch
- steel grade - e.g. 8
- CE conformity code (Conformité Européenne) - e.g. CE
- Origin - e.g. Holland or France

Finish

All shackle bodies and hooks are finished with a white coating for optimized visibility in poor light conditions. The pins are finished in the instantly recognizable and characteristic 'Green Pin®' colour.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

For instructions for use, assembly, etc. we refer to chapter 1 shackles for the ROV shackles, and chapter 3 for the ROV hooks. For shackles P-5363 and P-5367 the side load table is not applicable as these shackles are not allowed to be side loaded.

To keep stored ROV products in a good condition it is best to lightly oil the shackles and hooks after rinsing them with fresh water and drying.

ROV shackles and hooks must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months (follow the local rules in the country of use) and more frequently when the shackles and hooks are used in severe operating conditions.

For most ROV products is a specific user manual available, please find the digital user manuals on **greenpin.com/faq**.

Green Pin® ROV Shank Hook E GR8

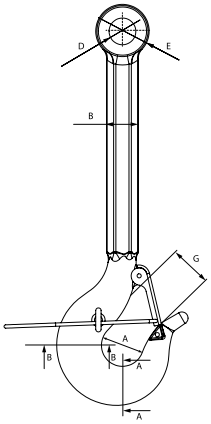
Release & retrieve ROV eye shank hook (grade 8)

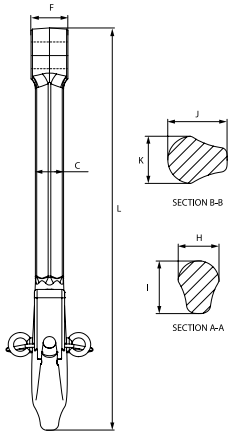
Scan for additional product details

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white
- **Temperature Range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] US [b] CE IIA
- **Article code:** scan QR code to see article codes



P-6740





working load limit	diameter	thickness shank	thickness shank	diameter eye inside	diameter eye outside	width eye	opening hook	thickness	width	thickness	width	length	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
12	63	47	42	40	80	38	52	45	58	67	53	600	10.2
16	71	56	50	45	90	45	61	53	67	80	63	650	14.7
22	80	63.4	56	55	110	51	69	60	75	90	74	682	31
32	90	73	64	60	120	54	77	67	90	110	82	812	32
55	125	102	90	75	150	74	105	95	118	140	112	919	70
80	140	115	101	90	180	94	118	106	137	175	125	1049	104

CAD RFID

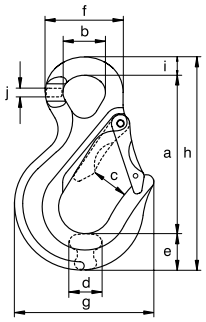
Green Pin® ROV Hook E GR8

Release ROV eye hook (grade 8)

Scan for additional product details



CSOROV



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white
- **Temperature Range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MPI [b]
- **Article code:** scan QR code to see article codes

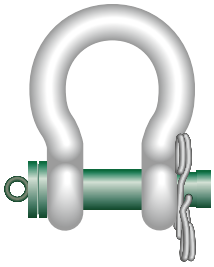
working load limit	length	diameter eye inside	opening hook	thickness	width	diameter eye outside	width outside	length outside	width	thickness	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
8.2	191	52	43	40	43	94	165	255	21	16.5	3.47
12.8	237	61	61	49	61	115	208	326	28	21	7.14
15.5	280	72	75	54	64	132	242	375	30	23	10.2

CAD RFID

Green Pin® Spring Pin ROV Shackle

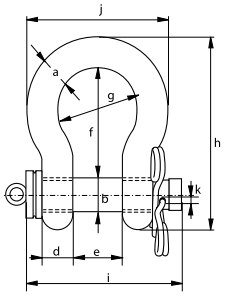
Release ROV shackle (grade 8) with spring pins

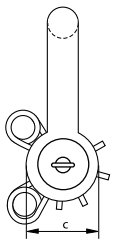
Scan for additional product details



P-5363

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for in-line use only.
  supplied without wires; design your own wiring plan





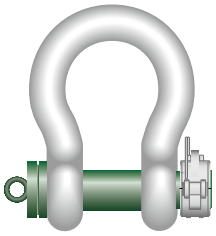
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
6.5	22	25	52	22	36	83	58	144	130	102	5.5	1.70
9.5	28	32	66	28	47	108	75	185	166	131	6.5	3.40
12	32	35	72	32	51	115	83	201	184	147	6.5	4.70
17	38	42	88	38	60	146	99	249	202	175	6.5	8
25	45	50	103	45	74	178	126	300	243	216	8.5	13.6
35	50	57	116	50	83	197	138	334	269	238	8.5	19.1
42.5	57	65	130	57	95	222	160	377	301	274	8.5	28.3
55	65	70	145	65	105	260	180	433	329	310	8.5	38
85	75	83	162	75	127	329	190	527	375	340	8.5	60

CAD RFID INFO

Green Pin® Locking Clamp ROV Shackle

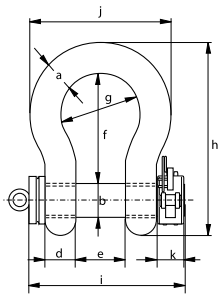
Release ROV shackle (grade 8) with locking clamp

Scan for additional product details



- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
  for shackles with WLL 120 t and up the MBL equals 5x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C (-40 °C up to +200 °C for WLL 120 t and up)
- **Certification:** 2.1 2.2 3.1 MTC [a] MTC [b] * LROS * CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires; design your own wiring plan

P-5365





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	width locking clamp	weight pin	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg	kg
6.5	22	25	52	22	36	83	58	164	140	102	45	0.9	2.17
9.5	28	32	66	28	47	108	75	200	172	131	48	1.6	4.25
12	32	35	72	32	51	115	83	213	184	147	48	1.9	5.36
17	38	42	88	38	60	146	99	266	209	175	48	3.4	9.27
25	45	50	103	45	74	178	126	309	243	216	48	5	14.6
35	50	57	116	50	83	197	138	350	269	238	48	6.5	20.7
42.5	57	65	130	57	95	222	160	377	301	274	48	10.2	28.3
55	65	70	145	65	105	260	180	440	329	310	48	12	41
85	75	83	162	75	127	329	190	527	375	340	48	17.5	61
120	95	95	208	91	147	400	238	647	440	428	60	29.6	110
150	105	108	238	102	169	410	275	688	490	485	60	38.6	160
200	120	130	279	113	179	513	290	838	520	530	60	60.6	235
250	130	140	299	118	205	554	305	904	560	565	60	74.9	285

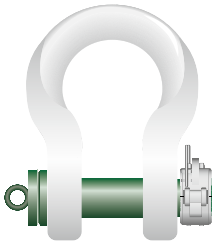
CAD RFID INFO

* For shackles ≥ WLL 150 t

Green Pin® Locking Clamp ROV Sling Shackle

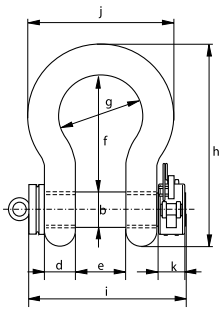
Release ROV Sling shackle (grade 8) with locking clamp

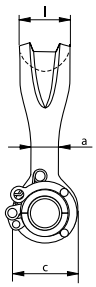
Scan for additional product details



P-6065

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Finish:** shackle bow painted white, pin painted green
- **Temperature Range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIA **Optional*:** LROS MPI [b] US [b]
- **Article code:** scan QR code to see article codes





working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	width locking clamp	bearing surface	weight pin	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg	kg
12.5	28	28	61	25	44	121	82	197	143	146	31	54	1.2	4.27
18	35	35	69	30	54	148	102	239	184	180	31	64	1.9	6.85
30	40	42	90	35	69	165	126	279	210	200	40	79	3.5	12.5
40	55	51	109	45	84	199	140	331	256	235	40	97	5.4	20.3
55	60	57	115	55	90	240	160	389	289	270	40	100	7	30.4
75	68	70	125	54	110	290	185	473	317	317	40	120	11.6	45
125	85	80	154	85	137	366	220	583	413	390	40	150	18.1	92
150	94	95	179	89	147	391	253	645	445	434	55	170	29.1	140
200	110	105	199	100	158	481	280	759	480	482	55	205	37	205
250	126	120	227	110	179	542	300	859	523	530	55	240	49.4	264
300	135	134	245	122	195	601	350	947	563	620	55	265	66.5	360

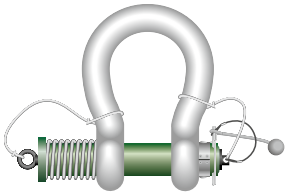
CAD RFID INFO

* With additional charges

Scan for additional product details

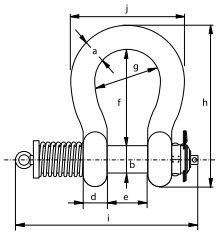
Green Pin® Spring Release ROV Shackle

Release ROV shackle (grade 8) with spring



P-5367

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MTC [b] * LROS * CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** for in-line use only.
  this shackle is assembled with wire rope slings and monkey's fist. For size starting from WLL 42.5 t up to and including 150 t a special compression tool (sold separately) is required to assemble the shackle.





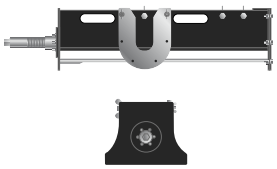
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight pin	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg	kg
12	32	35	72	32	51	115	83	201	291	147	2	5.24
13.5	35	38	80	35	57	133	92	227	301	162	2.4	7
17	38	42	88	38	60	146	99	249	360	175	3.5	9.25
25	45	50	103	45	74	178	126	300	370	216	5.2	15.5
35	50	57	116	50	83	197	138	334	400	238	7.1	20.4
42.5	57	65	130	57	95	222	160	377	460	274	11.3	39
55	65	70	145	65	105	260	180	433	490	310	13.8	42
85	75	83	162	75	127	329	190	527	587	340	23.3	67
120	95	95	208	91	147	399	238	646	687	428	37.4	123
150	105	108	238	102	169	410	275	688	727	485	49.2	168

* For shackles ≥ WLL 150 t

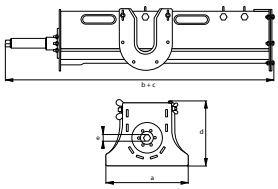
CAD RFID INFO

Green Pin® Compression Tool

Tool to wind up spring release shackle (sizes WLL 42.5 t and up)



P-5368



- **Material:** mild steel
- **Finish:** black painted
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes
- **Note:** required for ROV spring release shackle (type P-5367), for sizes WLL 42.5 t and up

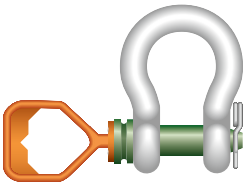
for shackle WLL	diameter bow	diameter pin	width	length closed position	length opened position	height	width	weight each
t	mm	mm	a mm	b mm	c mm	d mm	e mm	kg
42.5	57	65	300	1000	1500	225	24	34
55	65	70						
85	75	83						
120	95	95	340	1100	1750	285	24	42
150	105	108						

CAD INFO

Scan for additional product details

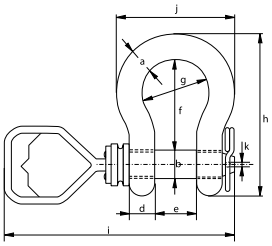
Green Pin® Tapered Pin ROV Shackle D

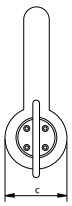
Release & retrieve ROV shackle (grade 8) with tapered pin and D-handle



P-5361D

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires; design your own wiring plan



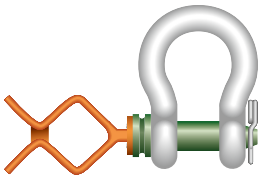


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
6.5	22	25	52	22	36	83	58	144	345	102	3.5	3.79
9.5	28	32	67	28	47	108	75	185	381	131	5.5	5.38
12	32	35	72	32	51	115	83	201	393	147	6.5	6.50
17	38	42	88	38	60	146	99	249	417	175	8.5	8.19
25	45	50	103	45	74	178	126	300	464	216	8.5	14.2
35	50	57	111	50	83	197	138	331	484	238	8.5	19.9
42.5	57	65	130	57	95	222	160	377	516	274	7.5	28.3
55	65	70	145	65	105	260	180	433	545	310	7.5	39.6

CAD INFO

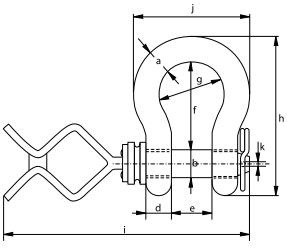
Green Pin® Tapered Pin ROV Shackle F

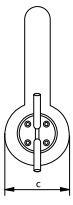
Release & retrieve ROV shackle (grade 8) with tapered screw pin and Fishtail handle



P-5361F

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** supplied without wires; design your own wiring plan





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
6.5	22	25	52	22	36	83	58	144	419	102	3.5	4.06
9.5	28	32	66	28	47	108	75	185	455	131	5.5	3.66
12	32	35	72	32	51	115	83	201	467	147	6.5	4.91
17	38	42	88	38	60	146	99	249	491	175	8.5	8.19
25	45	50	103	45	74	178	126	300	538	216	8.5	14.2
35	50	57	111	50	83	197	138	331	558	238	8.5	19.9
42.5	57	65	130	57	95	222	160	377	590	274	7.5	28.3
55	65	70	145	65	105	260	180	433	619	310	7.5	39.6

CAD INFO

Scan for additional product details

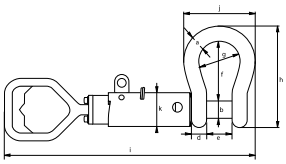
Green Pin® Guided Pin ROV Shackle D

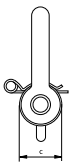
Release & retrieve ROV shackle (grade 8) with guiding tube and D-handle



P-5362D

- **Material:** shackle body and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



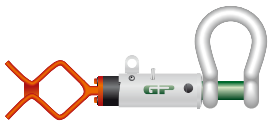


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt		width	guide diameter	weight each
									close	open			
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm		j mm	k mm	kg
12	32	35	72	32	51	115	83	201	569	652	147	83	10
17	38	42	88	38	60	146	99	249	612	710	175	83	13
25	45	50	103	45	74	178	126	300	683	802	216	83	19
35	50	57	111	50	83	197	138	331	711	844	238	83	24
55	65	70	145	65	105	260	180	433	824	994	310	102	45

CAD INFO

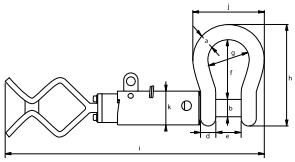
Green Pin® Guided Pin ROV Shackle F

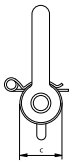
Release & retrieve ROV shackle (grade 8) with guiding tube and Fishtail handle



P-5362F

- **Material:** shackle body and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt		width	guide diameter	weight each
									close	open			
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm		j mm	k mm	kg
12	32	35	72	32	51	115	83	201	643	726	147	83	10
17	38	42	88	38	60	146	99	249	686	784	175	83	13
25	45	50	103	45	74	178	126	300	757	876	216	83	19
35	50	57	111	50	83	197	138	331	785	918	238	83	24
55	65	70	145	65	105	260	180	433	898	1068	310	102	45

CAD INFO

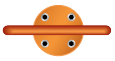
Scan for additional product details

Green Pin® D-handle

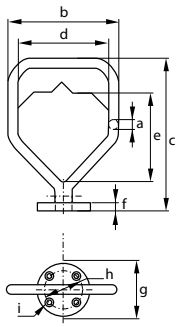
Accessory for Green Pin® ROV Shackle

- **Material:** cast steel
- **Finish:** painted orange
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes





P-5396D



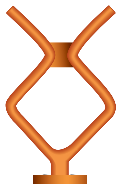
diameter	width	length	width	length inside	thickness	diameter	diameter	diameter	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
19	153	215	115	110	10	70	48	8.5	1.72

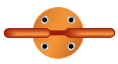
CAD

Green Pin® Fishtail handle

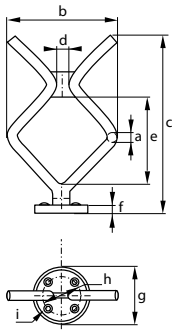
Accessory for Green Pin® ROV Shackle

- **Material:** cast steel
- **Finish:** painted orange
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes





P-5396F



diameter	width	length	width	length inside	thickness	diameter	diameter	diameter	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
19	178	289	21	133	10	70	48	8.5	1.93

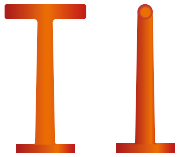
CAD

Scan for additional product details

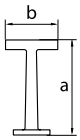
Green Pin® T-handle

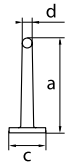
Accessory for Green Pin® ROV Shackle

- **Material:** cast steel
- **Finish:** painted orange
- **Certification:** 2.1
- **Article code:** scan QR code to see article codes



P-5396T







diameter	width	length	length inside	thickness	diameter	diameter	diameter	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
19	100	181	152	10	70	48	8.5	0.99

CAD

Green Pin® Monkey fist

Accessory for Green Pin® ROV Shackle

- **Material:** polymer
- **Finish:** painted orange
- **Article code:** scan QR code to see article codes



F-5396M