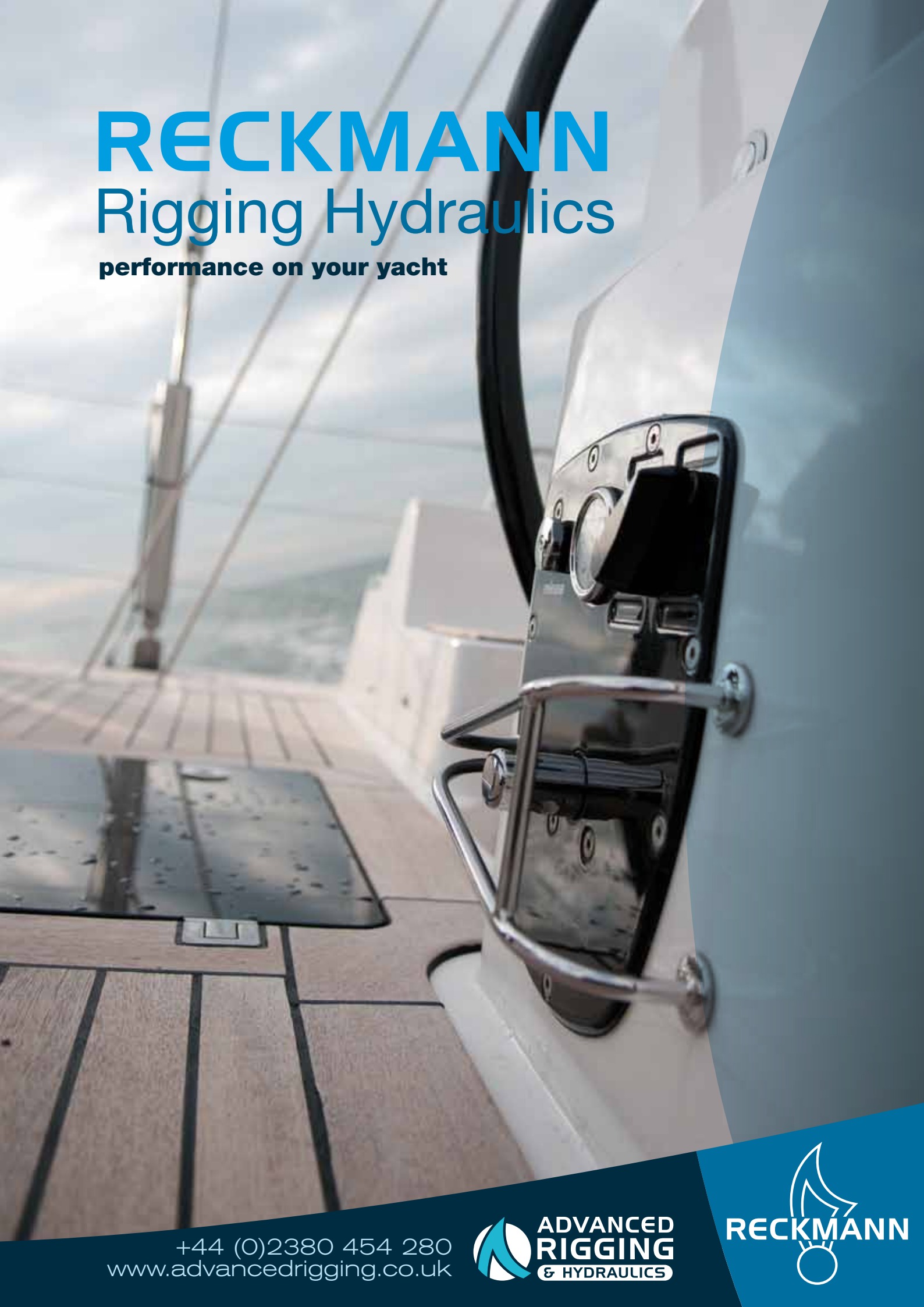


RECKMANN

Rigging Hydraulics

performance on your yacht



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www.advancedrigging.co.uk



**ADVANCED
RIGGING**
& HYDRAULICS





Reckmann sailing products are the epitome of **functionality** and reliability on the world's seas. With longstanding experience we manufacture innovative products tailored to the needs of the most discerning sailors.

www.reckmann.com



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Ever since Hugo J.L. Reckmann founded the company in 1892, the name Reckmann has stood for quality, continuity and product innovation in the sailing and yachting sector.

To achieve improved coverage from an increase in demand for reliable equipment to handle higher loads with ease of operation on modern sailing yachts, we have merged the well proven Holmatro Marine Hydraulics products into our own product range

Please find a detailed overview of the Reckmann Rigging Hydraulics products on the following pages.



With our commitment to innovative technology and ergonomic design, Reckmann Rigging Hydraulics gives you the optimum combination of performance and ease-of-use.

Using modern materials and advanced high-pressure techniques, our hydraulic rigging systems are compact and lightweight, yet perfectly able to control the high loads experienced onboard larger sailing yachts.

At our state-of-the-art manufacturing facilities in Germany, each individual product is submitted to quality tests before leaving the factory, to ensure that it meets our high standards and delivers superior performance on your yacht.

- Compact
- Lightweight
- Quick
- Robust
- Elegantly designed
- Easy to use



- Integral (backstay) adjusters
- Cylinders
- Boom vang
- Operating systems
- Custom-built hydraulics
- Mast jacks
- Emergency rig cutters
- System components

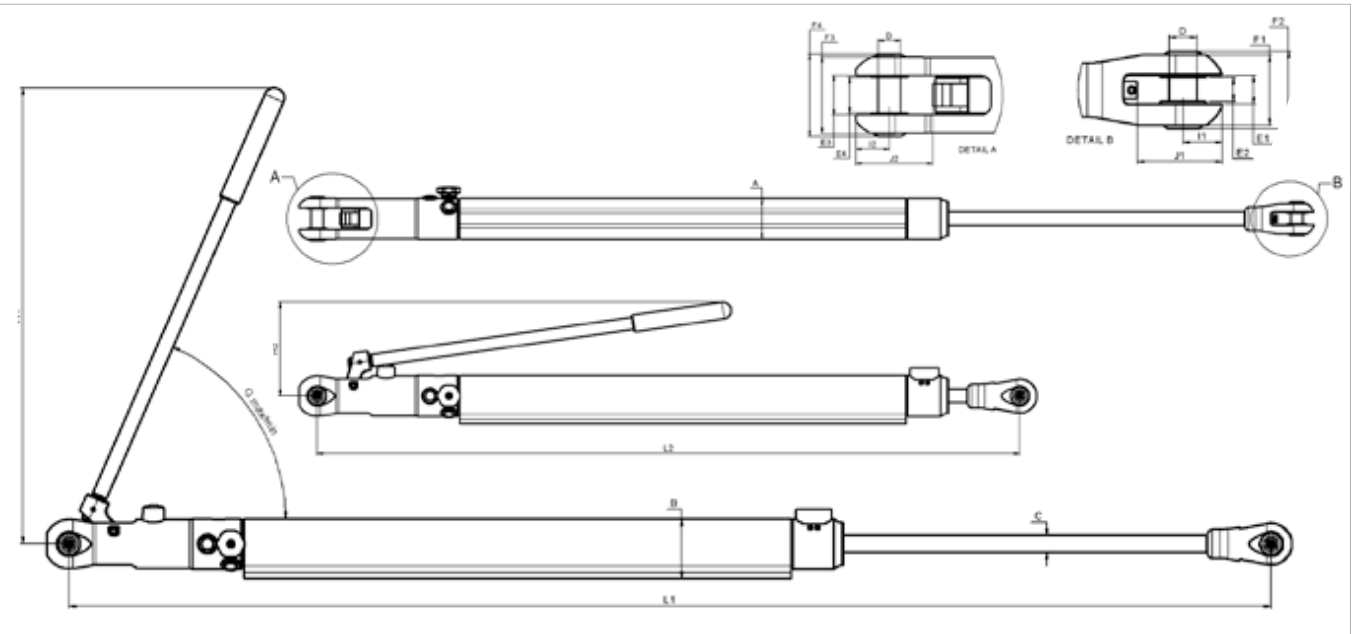
By adjusting backstay tension, your boat can sail faster and point higher. Genoa furling becomes a lot easier too. With a Reckmann hydraulic integral adjuster you can alter the backstay tension quickly and accurately.

- Integrated auto-shift two-speed pump
 - a two-speed pump means fewer strokes to reach maximum tension, enabling you to react more quickly.
- Integrated feed tube
 - a robust and streamlined design minimises the risk of damage.
- Lightweight
 - advanced design techniques and materials keep weight to a minimum.
- Ergonomic design
 - user-friendly and effective positioning of the pump handle, release valve and pressure gauge.
- Finish and size options
 - all integral adjusters are available with both clear and black anodised finish.
- Available in sizes from -6 to -30.



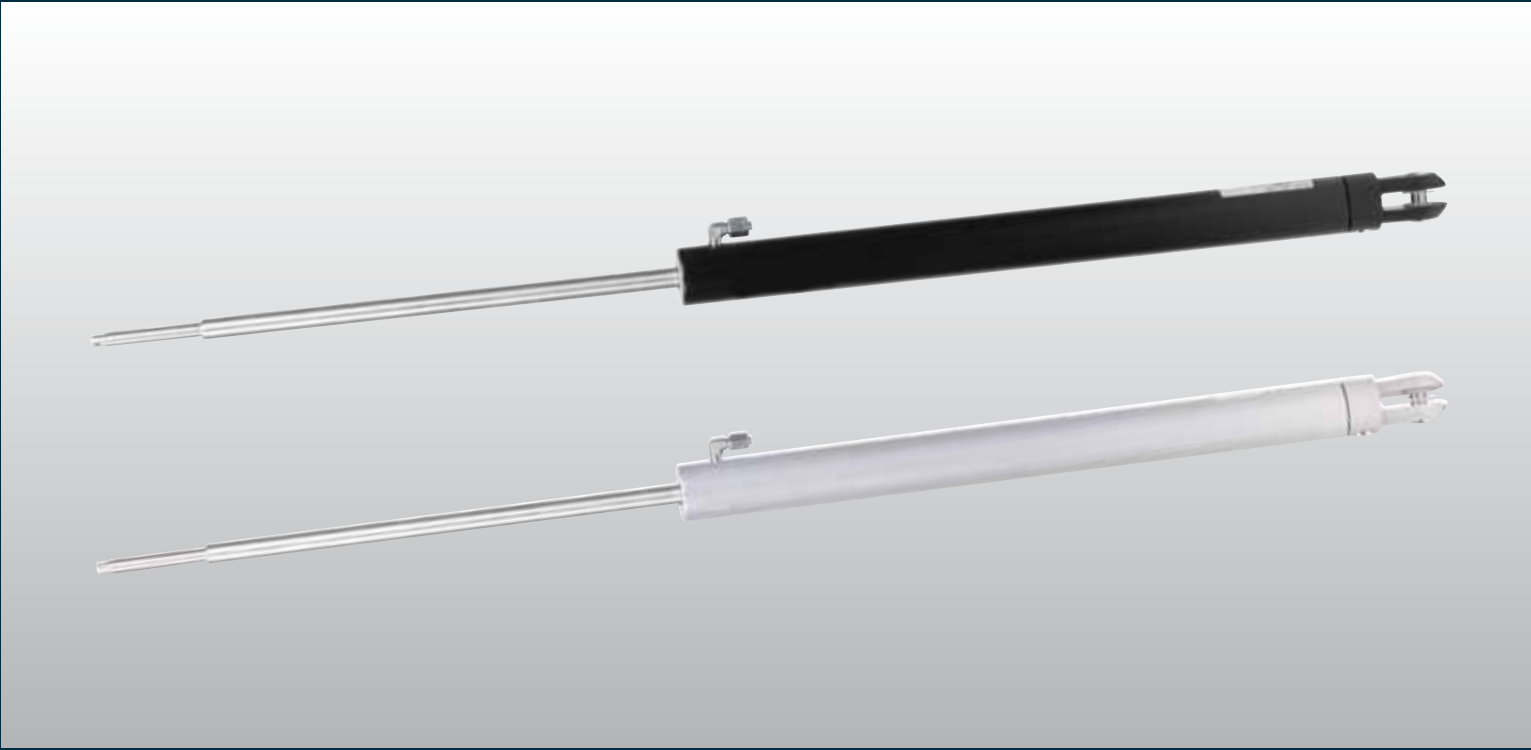
Integral Adjusters							
model		HIA-06	HIA-10	HIA-12	HIA-17	HIA-22	HIA-30
art no	clear	160.032.031	160.032.029	160.032.021	160.032.023	160.032.025	160.032.027
	black	160.032.032	160.032.030	160.032.022	160.032.024	160.032.026	160.032.028
max. working pressure	bar	260	440	350	440	440	440
max. pulling force	kgf	1599	2705	3138	3945	5073	6411
cylinder outside Ø	mm	45	45	54	54	60	68
piston rod thread	inch	1/2 - 20 UNF	1/2 - 20 UNF	5/8 - 18 UNF	5/8 - 18 UNF	5/8 - 18 UNF	3/4 - 16 UNF
stroke	mm	350	350	365	365	375	385
weight	kg	4.2	4.2	6.2	6.2	7.5	9.2
length extended	mm	1161	1161	1290	1290	1366	1403
length retracted	mm	811	811	925	925	991	1016
Ø pin	mm	11.1	12.7	15.9	15.9	19.1	22.2
	inch	3/8	1/2	5/8	5/8	3/4	7/8
service kit	art no	160.013.149	160.013.150	160.013.153	160.013.156	160.013.157	160.013.160

Integral Adjusters (dimensions)								↓
model			HIA-06	HIA-10	HIA-12	HIA-17	HIA-22	HIA-30
A	cylinder diameter	mm	45	45	54	54	60	68
B	cylinder height	mm	63.5	63.5	64	64	72	76
C	plungerrod diameter	mm	16	16	18	18	18	22
D	pin diameter	mm	11.1	12.7	15.9	15.9	19.1	22.2
E1	groove width, clevis	mm	13.1	13.1	16.5	16.5	19.5	22.5
E2	shim width, clevis	mm	11.1	10.3	13.7	13.7	16.5	19.5
E3	groove width	mm	14.5	18.5	28	28	28	28
E4	shim width	mm	11.7	12.9	25.2	25.2	25	25
F1	width of jaw, clevis	mm	34	34	40.3	40.3	42.5	46
F2	width of pin, clevis	mm	37.2	37.2	44.5	44.5	46.7	50.2
F3	width of jaw	mm	45	45	54	54	55	55
F4	width of pin	mm	47.2	47.2	58.2	58.2	57.6	59.2
G	max. angle of handle	(°)	66.5	66.5	66.5	66.5	66.5	66.5
G	min. angle of handle	(°)	8.5	8.5	8.5	8.5	8.5	8.5
H1	max. height of handle	mm	477	477	490	490	487	485
H2	min. height of handle	mm	99	99	124	124	123	123
I1	distance to center of pin, clevis	mm	20.3	20.3	22.5	22.5	24	25.5
I2	distance to center of pin	mm	17.6	17.6	23.5	23.5	23.5	23.5
J1	depth of jaw, clevis	mm	42.3	42.3	48.5	48.5	53	59.5
J2	min. depth of jaw	mm	39.1	39.1	54	54	54	54
L1	maximum length	mm	1161	1161	1290	1290	1366	1403
L2	minimum length	mm	811	811	925	925	991	1018



Reckmann hydraulic cylinders are ideal for any tensioning application, from backstays and forestays to outhauls and travellers. You can make quick and accurate rigging adjustments in combination with a Reckmann manual control panel or push button hydraulics.

- Long stroke and quick response
 - Our cylinders are available in standard or long stroke versions. A compressed gas compartment provides a quick return. Tensioning and easing rigging has never been easier.
- Lightweight
 - Advanced design techniques and materials keep weight to a minimum.
- Durable design
 - High-quality materials and manufacturing ensures robust and reliable performance.
- Finish and sizes
 - All cylinders are available with both clear and black anodised finish.
- Available in standard sizes from -6 to -60. For bigger cylinders up to -360, please contact us.



Cylinder - standard									↓
model		HCL-06	HCL-10	HCL-12	HCL-17	HCL-22	HCL-30	HCL-40	HCL-48
art no	clear	160.012.076	160.012.056	160.012.058	160.012.048	160.012.050	160.012.052	160.012.054	160.012.070
	black	160.012.107	160.012.057	160.012.059	160.012.049	160.012.051	160.012.053	160.012.055	160.012.071
max. working pressure	bar	440	440	440	440	440	440	440	440
max. pulling force without gas	kgf	1694	2705	3945	5073	6411	10480	14499	14499
cylinder outside ø	mm	36	45	54	60	68	84	98	98
piston rod thread	inch	7/16"-20 UNF	1/2"-20 UNF	5/8"-18 UNF	5/8"-18 UNF	3/4"-16 UNF	7/8"-14 UNF	1"-12 UNF	1"-12 UNF
stroke	mm	350	350	375	375	400	430	500	500
weight	kg	0.5	2.3	3.3	3.3	5.3	8.2	12.1	12.1
length extended	mm	984	1004	1004	1069	1127	1197	1339	1339
length retracted	mm	634	654	629	694	727	767	839	839
ø pin	mm	10.9	12.7	15.8	15.8	19.1	22.2	25.4	28.5
	inch	3/8	1/2	5/8	5/8	3/4	7/8	1	1 1/8
service set	art no	-	160.013.132	160.013.133	160.013.134	160.013.135	160.013.136	160.013.137	160.013.137

Cylinder - standard									↓
model		HCL-60	HCL-76	HCL-90	HCL-115	HCL-150	HCL-195	HCL-220	HCL-260
art no	clear	160.012.099	-	-	-	-	-	-	-
	black	160.012.100	-	-	-	-	-	-	-
max. working pressure	bar	350	350	350	350	350	350	350	350
max. pulling force without gas	kgf	18900	18900	26940	32790	38550	47993	54590	67274
cylinder outside ø	mm	125	125	136	150	164	-	-	-
piston rod thread	inch	1 1/4"-12 UNF	1 1/4"-12 UNF	1 1/4"-12 UNF	1 3/8"-12 UNF	1 1/2"-12 UNF	-	-	-
stroke	mm	600	600	600	700	700	-	-	-
weight	kg	18.3	18.3	25.2	33.2	50	-	-	-
length extended	mm	1591	1591	1679	1874	1925	-	-	-
length retracted	mm	991	991	1079	1174	1225	-	-	-
ø pin	mm	31.8	31.8	34.9	38	44.5	-	-	-
	inch	1 1/4	1 1/4	1 3/8	1 1/2	1 3/4	-	-	-

Cylinder - longstroke								↓
model		HCL-10LS	HCL12-LS	HCL-17LS	HCL-22LS	HCL-30 LS	HCL-40LS	HCL-48LS
art no	clear	160.012.095	160.012.096	160.012.087	160.012.088	160.012.090	160.012.092	160.012.069
	black	160.012.063	160.012.062	160.012.086	160.012.089	160.012.091	160.012.093	160.012.094
max. working pressure	bar	440	440	440	440	440	440	440
max. pulling force without gas	kgf	2705	3945	5073	6411	10480	14499	14499
cylinder outside ø	mm	45	54	60	68	84	98	98
piston rod thread	inch	1/2"-20 UNF	5/8"-18 UNF	5/8"-18 UNF	3/4"-16 UNF	7/8"-14 UNF	1"-12 UNF	1"-12 UNF
stroke	mm	550	650	700	700	700	700	700
weight	kg	3.2	4.3	5.6	7.9	11.6	15.5	15.5
length extended	mm	1436	1454	1649	1757	1767	1769	1769
length retracted	mm	886	904	999	1057	1067	1069	1069
ø pin	mm	12.7	15.8	15.8	19.1	22.2	25.4	28.5
	inch	1/2	5/8	5/8	3/4	7/8	1	1 1/8
service set	art no	160.013.132	160.013.133	160.013.134	160.013.135	160.013.136	160.013.137	160.013.137

* bigger sizes on request



Strap toggle, fixed clevis or lashing eye are separate accessories, not included, see page 13.

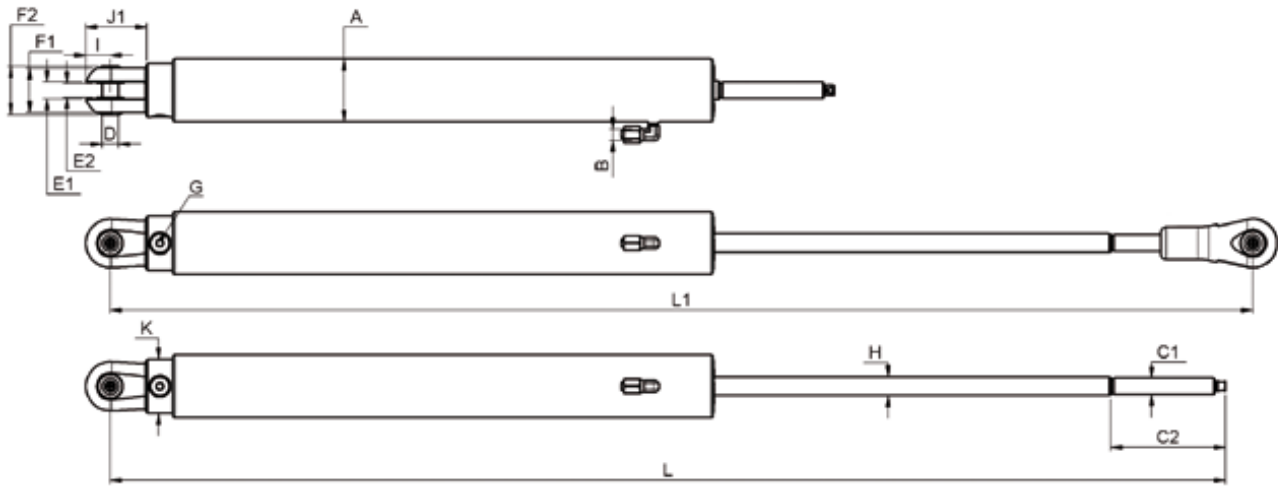
Cylinder - standard (dimensions)

model	HCL-10	HCL-12	HCL-17	HCL-22	HCL-30	HCL-40	HCL-60	HCL-76
A cylinder diameter	mm 45	54	60	68	98	98	115	115
B cylinder connection	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC
C1 thread of plunger rod	½"-20 UNF	5/8"-18 UNF	5/8"-18 UNF	3/4"-16 UNF	1"-12 UNF	1"-12 UNF	1 ¼"-12 UNF	1 ¼"-12 UNF
C2 length of thread	mm 80	110	110	110	110	110	115	115
D pin diameter	mm 12.7	15.8	15.8	18.8	22	25.3	31.8	31.8
E1 groove width	mm 13.1	16.5	16.5	19.5	22,5	25.5	36.5	36.5
E2 shim width	mm 10.3	13.7	13.7	16.5	19,5	22.5	31.9	33.5
F1 width of jaw	mm 34	41	42.5	49	55	69	80	80
F2 width of pin	mm 37.2	45.1	46.7	53.1	59,2	72.2	83.2	83.2
H plunger rod diameter	mm 16	18	18	22	25	28	35	35
G gas filling opening	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP
I distance to center of pin	mm 20.3	22.4	23.4	28.2	31.9	37.8	47.2	47.2
J1 depth of groove of jaw	mm 52.3	57.4	58.4	63.2	66.9	73.8	112.2	112.2
J2 depth of groove of jaw	mm 52.3	57.4	57.5	70.2	75.9	81.8	121.2	121.2
L maximum length	mm 1004	1073	1069	1127	1197	1339	1591	1591
L1 maximum length	mm 1028	1099	1095	1161	1234	1376	1656	1656
K yoke diameter	mm 45	46	52	56	76	86	100	100

Cylinder - longstroke (dimensions)

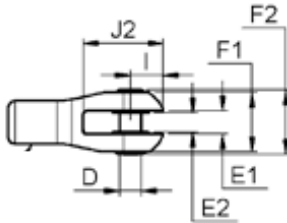
model	HCL-10LS	HCL-12LS	HCL-17LS	HCL-22LS	HCL-30LS	HCL-40LS	HCL-48LS	HCL-60LS
A cylinder diameter	mm 45	54	60	68	84	98	98	115
B cylinder connection	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC
C1 thread of plunger rod	½"-20 UNF	5/8"-18 UNF	5/8"-18 UNF	3/4"-16 UNF	3/4"-16 UNF	1"-12 UNF	1"-12 UNF	1 ¼"-12 UNF
C2 length of thread	mm 80	110	110	110	110	110	110	115
D pin diameter	mm 12.7	15.8	15.8	18.8	22	25.3	25.3	31.8
E1 groove width	mm 13.1	16.5	16.5	19.5	22.5	25.5	25.5	36.5
E2 shim width	mm 10.3	13.7	13.7	16.5	19.5	22.5	22.5	31.9
F1 width of jaw	mm 34	41	42.5	49	55	69	69	80
F2 width of pin	mm 37.2	45.1	46.7	53.1	59.2	72.2	72.2	83.2
H plunger rod diameter	mm 16	18	18	22	25	28	28	35
G gas filling opening	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP
I distance to center of pin	mm 20.3	22.4	23.4	28.2	31.9	37.8	37.8	47.2
J1 depth of groove of jaw	mm 52.3	57.4	58.4	63.2	66.9	73.8	73.8	112.2
J2 depth of groove of jaw	mm 52.3	57.4	57.5	70.2	75.9	81.8	81.8	121.2
L maximum length	mm 1004	1073	1069	1127	1767	1339	1769	1591
L1 maximum length	mm 1028	1099	1095	1161	1804	1376	1806	1656
K yoke diameter	mm 45	46	52	56	76	86	86	100

Strap toggle, fixed clevis or lashing eye are separate accessories, not included, see page 13.



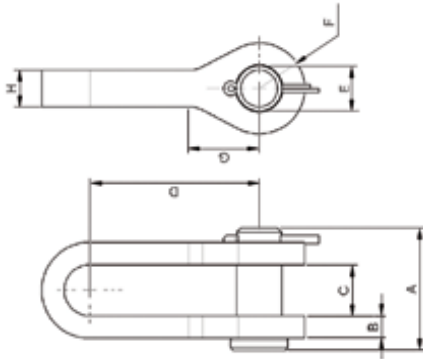
Fixed clevis

model	HFC-06	HFC-10	HFC-12	HFC-17	HFC-22	HFC-30	HFC-40	HFC-60
art no	clear 160.182.066	160.182.030	160.182.034	160.182.034	160.182.036	160.182.038	160.182.040	160.182.051
	black 160.182.074	160.182.031	160.182.035	160.182.035	160.182.037	160.182.039	160.182.041	160.182.052
C1	4/16"-20 UNF	1/2"- 20 UNF	5/8"-18 UNF	5/8"- 18 UNF	3/4"-16 UNF	1"-12 UNF	1"-12 UNF	1 1/4"-12 UNF
D	mm 11	12.7	15.8	15.8	18.8	22	25.3	31.8
E1	mm 13.2	12.1	16.5	16.5	19.5	22.5	25.5	36.5
E2	mm 10.8	10.3	13.7	13.7	16.5	19.5	22.5	31.9
F1	mm 28	34	42.5	42.5	49	55	69	80
F2	mm 34	37	47	47	53	59	72	83
I	mm 15.5	20.3	22.4	22.4	28.2	31.9	37.8	47.2
J2	mm 39.5	52.3	57.4	57.4	70.2	75.9	81.8	112.2



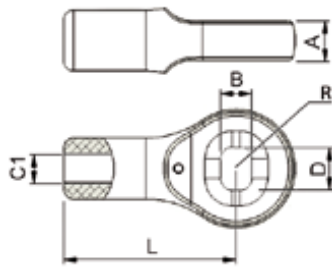
Strap toggles

model	HST-10	HST-12	HST-17	HST-22	HST-30	HST-40	HST-48
art no	160.182.006	160.182.007	160.182.007	160.182.008	160.182.009	160.182.010	160.182.027
C opening	mm 13.5 (± 0.2)	16.0 (± 0.2)	16.0 (± 0.2)	21.0 (± 0.2)	25.0 (± 0.2)	28.0 (± 0.2)	28.0 (± 0.2)
D length	mm 68.0 (± 0.8)	84.0 (± 0.8)	84.0 (± 0.8)	98 (± 0.8)	114 (± 0.8)	132 (± 0.8)	132 (± 0.8)
E ø pin	mm 12.7	16.2	16.2	19.2	22.5	25.4	25.4
H width	mm 12.7 (± 0.2)	17.5 (± 0.2)	17.5 (± 0.2)	19.0 (± 0.2)	22.0 (± 0.2)	25.0 (± 0.2)	25.0 (± 0.2)



Lashing eyes

model	HLE-06	HLE-10	HLE-12	HLE-17	HLE-22	HLE-30	HLE-40
art no	160.182.118	160.182.086	160.182.065	160.182.065	160.182.085	-	-
A	mm 16	16	20	20	22	-	-
B	mm 12	14	16	16	18	-	-
C1	7/16"-20UNF	1/2"-20 UNF	5/8"-18 UNF	5/8"-18UNF	3/4"-16UNF	-	-
D	mm 15	20	22	22	25	-	-
L	mm 56	75	88	88	90	-	-
R	mm 18	21.5	30	30	35	-	-



Whether you are sailing or moored, a Reckmann hydraulic boom vang gives you maximum control over your boom. Pulling your boom down when sailing, or pushing it upwards while reefing or flaking, you will enjoy both its performance and its comfort.

Choose from our range of pumps and control panels for fast and accurate adjustment and add a quick-release to dump the vang instantly.

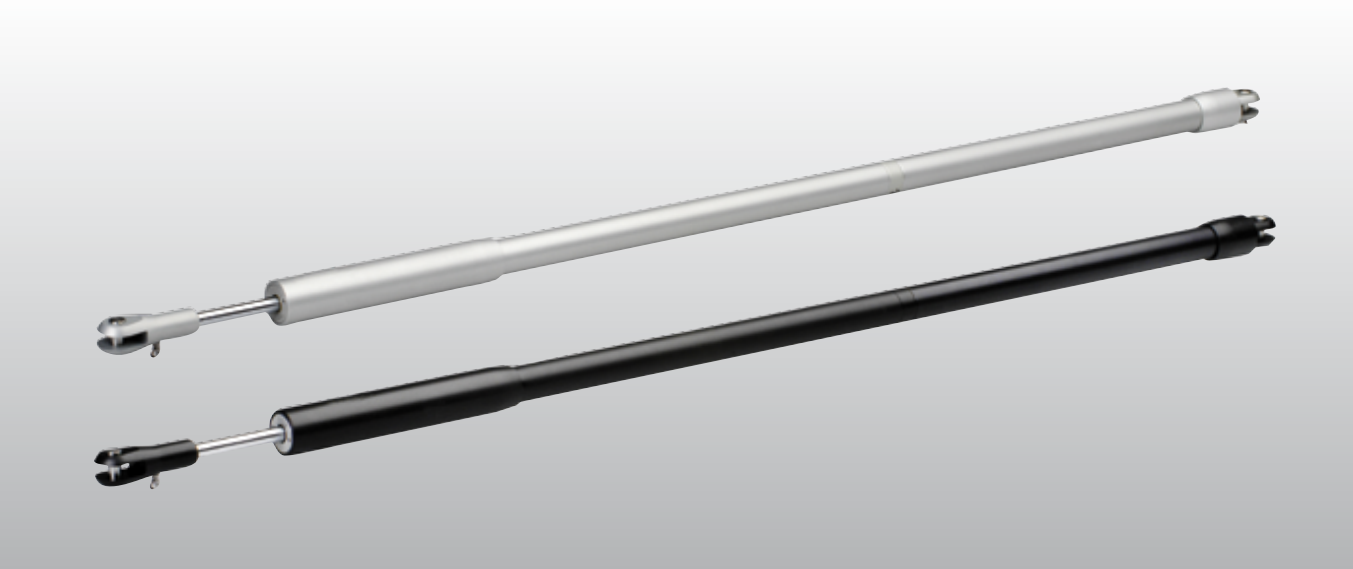
- Oil passage through piston rod
 - This reduces the length of the hydraulic hose, minimising the risk of damage.
- Pre-set but variable return force
 - Gives you perfect control and easy reefing or flaking.
- Lightweight
 - Advanced design techniques and materials keep weight to a minimum.
- Finish and sizes
 - All vangs are available in both clear and black anodised finish, stainless steel and other on request.
- Available in standard sizes from -12 to -60. For bigger vangs up to -360, please contact us.



Boomvangs								↓
model		HVG-12	HVG-17	HVG-22	HVG-30	HVG-40	HVG-60	HVG-90
art no	clear	160.022.074	160.022.076	160.022.070	160.022.080	160.022.094	-	-
	black	160.022.075	160.022.077	160.022.079	160.022.081	160.022.095	-	-
max. working pressure	bar	440	440	440	440	440	350	350
max. pulling force without gaspressure	kgf	3382	4509	5915	9074	13654	18214	25228
cylinder outside ø	mm	54	60	68	84	98	125	140
	inch	2.2	2.4	2.7	3.3	3.9	5.0	5.5
piston rod ø	mm	22	22	25	32	32	40	45
	inch	7/8	7/8	1	1 1/4	1 1/4	1 5/8	1.77
stroke	mm	226	231	245	277	302	350	400
weight min.	kg	6.5	6.6	8.12.7	17.6	17.6	upon request	upon request
weight max.	kg		10.3	11.7	19.6	26.1		
return force at 40 bar gaspressure	kgf	462	565	738	1153	1569	2594	3532
PCLC range**	mm	1829	1400-2500	1401-2650	1402-2750	1403-2750	upon request	upon request
	inch	72	55 1/8 - 98 3/8	55 1/8 - 108 1/4	55 1/4 - 108 1/4	55 1/4 - 108 1/4		
ø pin	mm	15.8	15.8	18.8	22.2	25.4	31.8	31.8
	inch	5/8	5/8	3/4	7/8	1	1 1/4	1 1/4
service set	art no	160.013.165	160.013.167	160.013.175	160.013.177	160.013.178	-	-

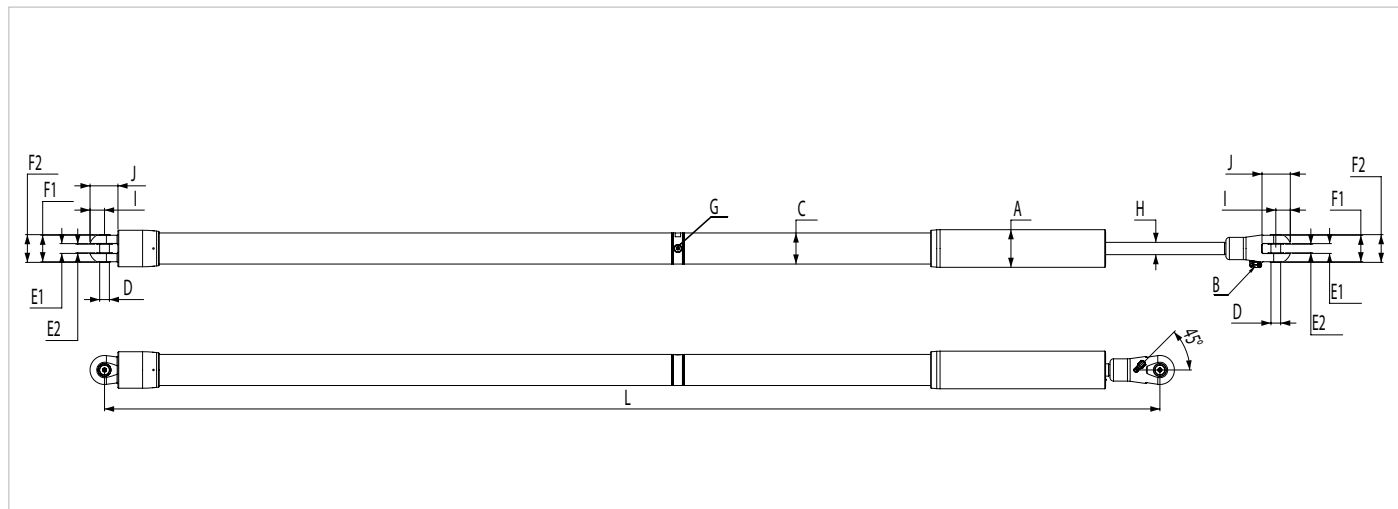
Boomvangs							↓
model		HVG-115	HVG-150	HVG-195	HVG-260	HVG-320	HVG-360
art no	clear	-	-	-	-	-	-
	black	-	-	-	-	-	-
max. working pressure	bar	350	350	350	350	350	350
max. pulling force without gaspressure	kgf	28592	33707	41205	49404	58304	73161
cylinder outside ø	mm	155	165	210	215	250	250
piston rod ø	mm	55	60	70	80	90	100
	inch	2.17	2.36	2.76	3.15	3.54	3.94
stroke	mm	450	450	450	450	500	500
weight min.	kg	upon request	upon request	upon request	upon request	upon request	upon request
weight max.	kg	upon request	upon request	upon request	upon request	upon request	upon request
return force	kgf	4237	5006	6279	7696	9258	11565
PCLC range**	mm	upon request	upon request	upon request	upon request	upon request	upon request
	inch						
ø pin	mm	38.1	44.5	50.8	57.1	57.1	57.1
	inch	1 1/2	1 3/4	2	2 1/4	2 1/4	2 1/4

* bigger sizes on request



Boom vangs (dimensions)									↓
model			HVG-12	HVG-17	HVG-22	HVG-30	HVG-40	HVG-60	HVG-90
A	cylinder diameter	mm	54	60	68	84	98	130	132
B	cylinder connection		7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	1/4" BSP
C	cylinder diameter	mm	48	51	55	70	81	105	115
D	pin diameter	mm	15.8	15.8	18.8	22	25.3	31.8	34.9
E1	groove width	mm	16.5	16.5	19.5	22.5	25.5	36	38
E2	shim width	mm	13.7	13.7	16.5	19.5	22.5	33	35
F1	width of jaw	mm	42.5	42.5	49	55	69	80	97
F2	width of pin	mm	46.7	46.7	43.1	59.2	72.2	83.2	102.2
G	gas filling opening		1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
H	plunjer rod diameter	mm	22	22	25	32	32	40	45
I	distance to center of pin	mm	23.5	23.5	28.2	31.9	37.8	41	52.5
J	depth of groove of jaw	mm	57.5	57.5	62.2	65.9	72.8	97	106
L	maximum length closed	mm	1829	1400	1400	1410	1440	-	-

Boom vangs (dimensions)								↓
model			HVG-115	HVG-150	HVG-195	HVG-260	HVG-320	HVG-360
A	cylinder diameter	mm	150	165	191	-	-	250
B	cylinder connection		1/4" BSP	1/4" BSP	1/4" BSP	-	-	1/4" BSP
C	cylinder diameter	mm	130	130	155	-	-	220
D	pin diameter	mm	38.1	38.1	44.5	-	-	66.7
E1	groove width	mm	42	42	48	-	-	71
E2	shim width	mm	39	39	45	-	-	67
F1	width of jaw	mm	110	110	120	-	-	145
F2	width of pin	mm	115	115	125	-	-	150
G	gas filling opening		1/4" BSP	1/4" BSP	1/4" BSP	-	-	1/4" BSP
H	plunjer rod diameter	mm	55	60	70	-	-	100.165
I	distance to center of pin	mm	62	60	75	-	-	250
J	depth of groove of jaw	mm	124.4	124.4	125	-	-	-
L	maximum length closed	mm	upon request					

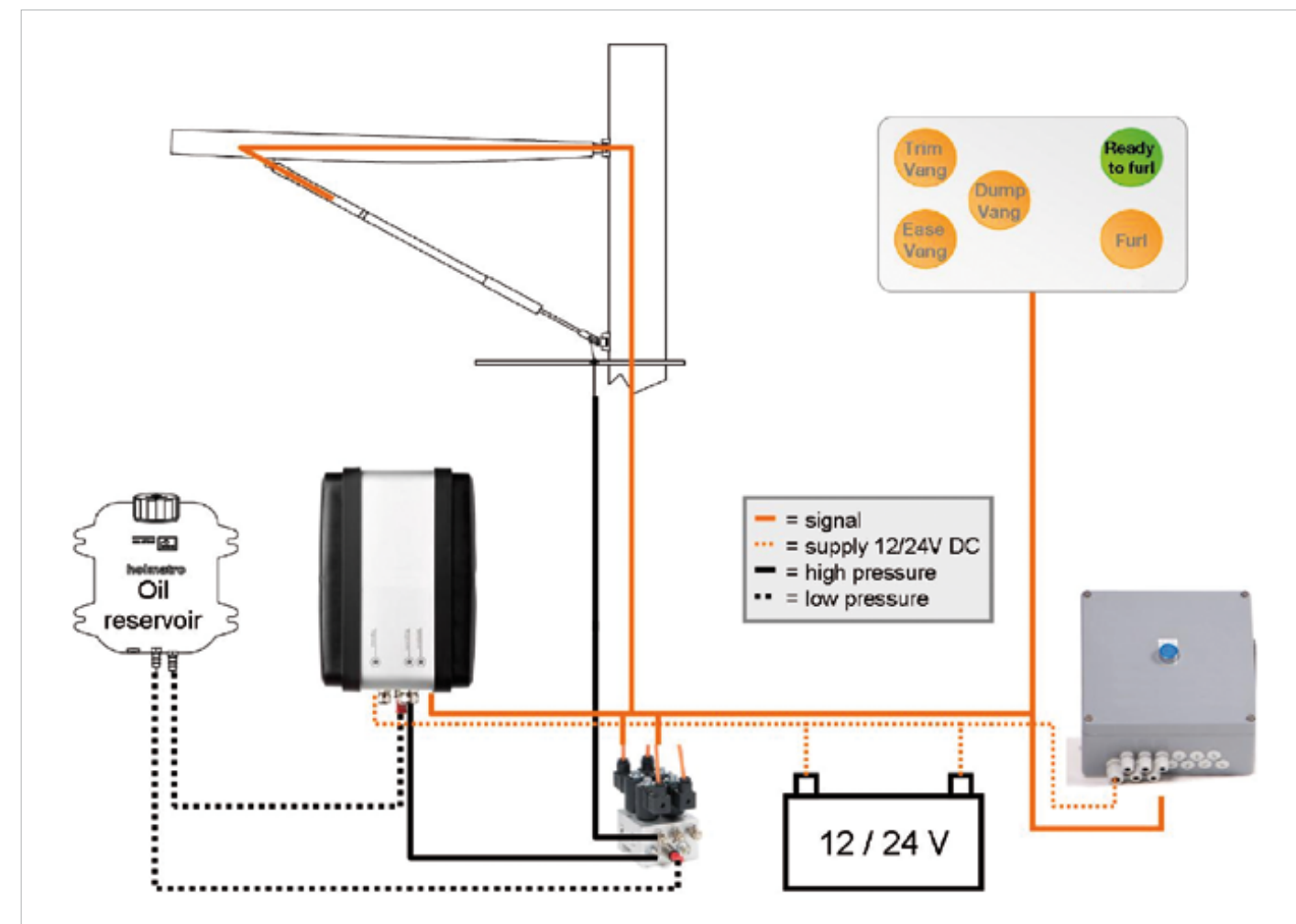


Reckmann's 'Furl Finder' Automatically Adjusts Furling Booms

This push button auto-adjust system for hydraulic boomvangs offers maximum ease and control when furling your mainsail. Press the furling button, and the vang automatically moves to the proper boom-furling angle, eliminating the guesswork normally associated with this task.

This is one of the latest innovations of Reckmann Rigging Hydraulics to make sailing easier. By simply pushing a button, a sensor monitoring the position of the boom activates a compact hydraulic system that moves the boom up or down to a predetermined furling angle. When the boom is in the proper furling position the crew is alerted by a green LED. Mainsail in-boom furling may then proceed. When sailing, the system acts as a normal push button system to move the vang up or down as desired.

Standard position indicating vang's have a digital numeric display. While sailing, most vang adjustment is made by observing sail shape, not by watching a numerical display. With a numerical display, a value has to be known and remembered. The display may not be readily visible or may be hard to read. With Reckmann's new Furl Finder you simply press a button to automatically position the boom for furling.



To adjust cylinders and boom vang's using one central pump, choose from our range of easy-to-use control panels, available as single- or multi-function and with manual or push-button operation.

- One- or two-speed pump
 - An auto-shift two-speed pump means fewer strokes to reach maximum tension, enabling you to react more quickly.
- Single- or multi-function
 - A selector valve gives you effortless control of up to four functions.
- Minimal dimensions
 - Compact design allows simple installation. Custom configurations and dimensions on request.
- Finish options
 - Face plate in clear or black anodised aluminium, stainless steel or carbon



Control panels - 1-stage										↓
model		HCP11CC	HCP11	HCP11B	HCP11S	HCP11C	HCP14	HCP14B	HCP14S	HCP14C
art no		160.142.009	160.142.001	160.142.002		160.142.024	160.142.023	160.142.004	160.142.010	160.142.025
face plate		carbon	clear	black	stainless steel	carbon	clear	black	stainless steel	carbon
pump		1 stage	1 stage	1 stage	1 stage	1 stage	1 stage	1 stage	1 stage	1 stage
functions		1	1	1	1	1	4	4	4	4
flow 1st stage	cc/stroke	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
flow 2nd stage	cc/stroke	-	-	-	-	-	-	-	-	-
height	mm	210	267	267	267	267	267	267	267	267
width	mm	180	226	226	226	226	226	226	226	226
depth	mm	106	110	110	120	120	110	110	120	120
weight	kg	3.2	4.7	4.7	5.2	4.5	5.4	5.4	5.9	5.2
service kits:										
- pump unit	art no	160.013.092	160.013.092	160.013.092	160.013.092	160.013.092	160.013.092	160.013.092	160.013.092	160.013.092
- selector valve	art no	-	-	-	-	-	160.163.002	160.163.002	160.163.002	160.163.002
- release valve	art no	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003

Control panels - 2-stage									↓
model		HCP21	HCP21B	HCP21S	HCP21C	HCP24	HCP24B	HCP24S	HCP24C
art no		160.142.005	160.142.006		160.142.027	160.142.007	160.142.008	160.142.019	160.142.028
face plate		clear	black	stainless steel	carbon	clear	black	stainless steel	carbon
pump		2 stage	2 stage	2 stage	2 stage	2 stage	2 stage	2 stage	2 stage
functions		1	1	1	1	4	4	4	4
flow 1st stage	cc/stroke	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
flow 2nd stage	cc/stroke	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
height	mm	267	267	267	267	267	267	267	267
width	mm	226	226	226	226	226	226	226	226
depth	mm	110	110	120	120	110	110	120	120
weight	kg	5.3	5.3	5.8	5.1	6	6	6.5	5.8
service kits:									
- pump unit	art no	160.013.093	160.013.093	160.013.093	160.013.093	160.013.093	160.013.093	160.013.093	160.013.093
- selector valve	art no	-	-	-	-	160.163.002	160.163.002	160.163.002	160.163.002
- release valve	art no	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003	160.163.003

* for electrical push button operation, see page 23.
** control panels are delivered incl. oil reservoir, filter, low pressure hoses and -connections.



Accessories

- pump handle stainless steel, L=500 mm, model HPH45-S, art no 160.033.047
- pump handle carbon, L=500 mm, model HPH-45-C, art no 160.182.012

For dimensions and cut-out template, please visit our website

Our extremely compact electric pumps are compatible with high-pressure hydraulic rigging systems or as an upgrade to existing manual systems. Connected to a push-button control panel with electric or manual release, the 12V or 24V V units power backstays, outhauls and vang. Our HEP 200 and HEP 400 control up to a maximum of four hydraulic functions.

- Silent
 - Modern, quiet pump gives you silent operation.
- Fast
 - Operates three times faster than a manual pump.
- Compact design
 - Easy to install, even when space is limited.
- Comfort
 - Specially designed for comfortable, push-button sailing. It allows you to upgrade your existing manual pump easily.



Hydraulic Power pack - HPS 200 / 400

model	HPS-200-PP / 12V	HPS-200-PP / 24V	HPS-400-PP / 12V	HPS-400-PP / 24V
pump	2 stage	2 stage	2 stage	2 stage
flow 1st stage	cc/min	1200	2000	2400
flow 2nd stage	cc/min	260	500	520
height	mm	326	326	326
width	mm	241	241	333
depth	mm	167	167	167
weight	kg	4.4	4.4	10
voltage	V	12	24	12
				24

Electric control panels - HPS 200 / 400

model	HPS-200-CPE	HPS-200-CPEB	HPS-200-CPES	HPS-200-CPEC
face plate	clear	black	stainless steel	carbon
functions	4	4	4	4
trim	push button			
ease	manual			
function selection	manual			

* Electric release by one extra push button instead of manual release, is possible in combination with an electric release valve HPS-200-HRV, see page 22.

HPS-200-CPES



Push buttons



HPS-200-PP



HPS-400-PP

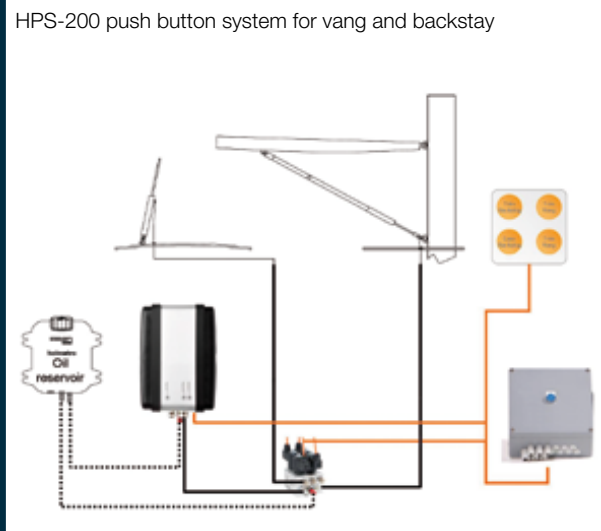


Control unit - HPS 200 / 400				↓
image	description	model	art no	
	Main control unit with integrated Micro PLC	HPS-200-MCU	160.182.087	

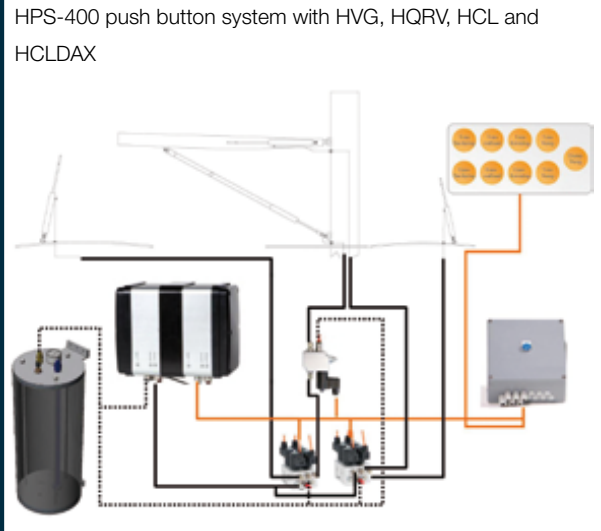
Control valves / manifolds - HPS 200 / 400				↓
image	description	model	art no	
	Electric (quick) release, adjustable flow restrictor, 12-24V, can also be used in manual systems.	HPS-200-HRV / 12V HPS-200-HRV / 24V	160.172.013 160.172.012	
	Manifold for 2 single acting cylinders, like outhaul, cunningham, backstay etc.	HPS-200-MCS / 12V HPS-200-MCS / 24V	160.172.023 160.172.024	
	Manifold for 1 double acting cylinder like traveller, mast rotation, transom-door etc.	HPS-200-MCD	-	
	Pressure limiter for manual or electric systems, limits pressure to 1 cylinder	HPS-200-PL	160.182.089	

→ Some examples for smaller yachts

Typical configuration for 40-50 ft cruising yachts



Typical configuration for 50-60 ft performance yachts



Accessories				↓
image	description	model	art no	
	Hydraulic oil reservoir, content 3 ltr.	HPS-200-OR	160.582.002	
	Hydraulic oil filter, to place in low pressure return line	HPS-200-OF	-	
	Manual back-up pump, for emergency use in case of power failure	HBP-11	160.142.020	
	4 way selector valve, auto-holds on standby functions	HSV	160.161.002	
	Selector valve pump/ease/hold for manual systems, or back-up in high pressure push button systems	HCV-01 clear HCV-01 black	160.172.004 160.172.005	
	5 x HCV-01 in one panel, to be combined with manual or electric systems	HCV-05	160.172.018	
	Manual quick release, designed for boom vang dumping, by hand or foot	HQRV foot HQRV manual	160.162.001 160.172.006	



The Reckmann hydraulic mast jack gives you a choice between two different systems for pre-tensioning your rig.

Through bar mast jack system

Our through-bar mast jack systems contain lightweight aluminium cylinders. Sets are supplied in a carrying case containing both jacks, hydraulic T-hose, pump and pressure gauge. Optionally equipped with stainless steel couplers.

An in-mast jack system needs a stainless steel jack with a tilting saddle, a hydraulic hose and a pump with pressure gauge. The jack is mounted upside down in the mast base.

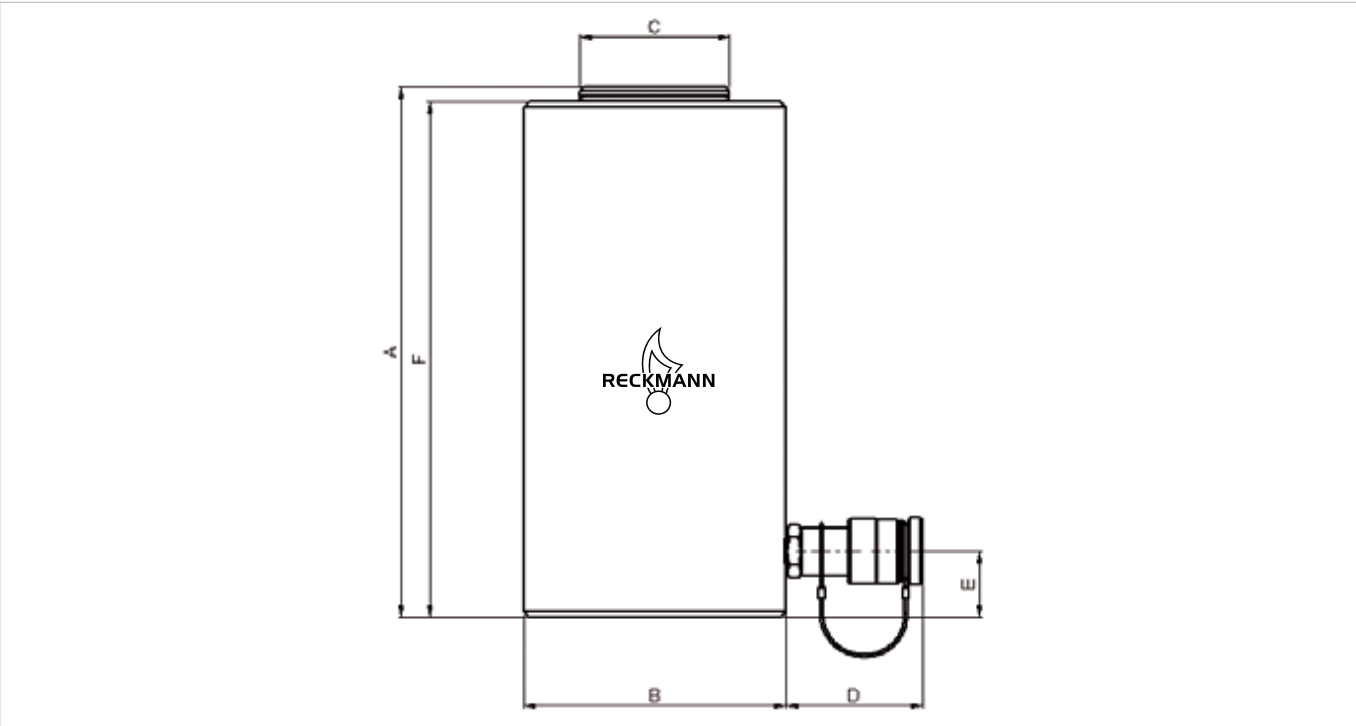


Through-bar sets (incl. 2 jacks, pump, pressure gauge, hose and carrying case)								↓
model		HMJ 20/120	HMJ 20	HMJ 30	HMJ50	HMJ60	HMJ 100*	HMJ 200*
art no		160.042.023	160.042.003	160.042.013	160.042.004	160.042.025	160.042.019	160.042.042
capacity	ton	20	20	30	50	60	100	200
jacks**	model	2x HLJ10S5.7	2x HLJ10S10	2x HLJ15S10	2x HLJ25S10	2x HLJ30S10	2x HLJ50S10	2x HLJ100S15
pump	model	HTW 320	HTW 320	HTW 650	HTW 650	HTW 650	HTW 1800 B	HTW 5800 B

* Does not contain a carrying box
 ** for specifications of jacks, see table "Through-bar jacks - aluminium".

Through-bar jacks - aluminium ↓							
model		HLJ 10 S 5.7	HLJ 10 S 10	HLJ 15 S 10	HLJ 25 S 10	HLJ 30 S 10	HLJ 100 S 15
capacity	ton	10	10	15	25	30	100
stroke	mm	57	100	100	100	100	150
L retracted	mm	120	185	190	190	190	231
L extracted	mm	177	285	290	290	290	381
outside ø	mm	65	65	75	95	108	200
effective area	mm²	1385	1385	2124	3318	4185	14314
weight	kg	1.7	2.6	3.1	4.9	4.4	24

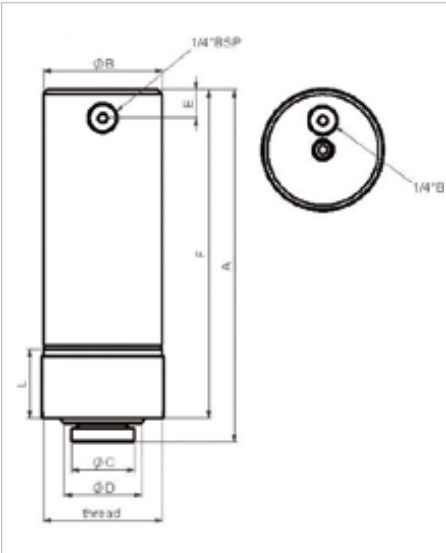
Through-bar jacks - aluminium (dimensions) ↓							
model		HLJ 10 S 5.7	HLJ 10 S 10	HLJ 15 S 10	HLJ 25 S 10	HLJ 30 S 10	HLJ 100 S 15
A	mm	120	185	190	190	190	321
B	mm	65	65	75	95	108	200
C	mm	38	38	38	55	60	105
D	mm	75	75	75	75	75	75
E	mm	19	19	19	20	20	36
F	mm	117	175	184	180	182	303



Because of the different connections for the stainless jacks, there are no determined sets. Choose jack (1), hose (2) and pump (3).

1 In-mast jacks						↓
model	HTJ10S10SS	HTJ15S15SS	HTJ25S15SS	HTJ35S15SS	HTJ50S15SS	
art no	160.042.039	160.042.040	160.042.038	160.042.036	160.042.037	
capacity	ton	10	15	25	35	50
stroke	mm	100	150	150	150	150
L retracted	mm	200	255	297	297	267
L extracted	mm	300	405	447	447	417
outside ø	mm	60	70	85	107	130
effective area	mm²	1385	2124	3318	5027	7088
weight	kg	3.4	5.3	8.1	13.6	21.9
oil content	cc	208	318	498	942	1385
thread	M60*2 L=30 mm		M60*2 L=30 mm		M85*2 L=52 mm	M105*2 L=30 mm
					M130*2 L=42 mm	

In-mast jacks (dimensions)						↓
model	HTJ 10 S 10 SS	HTJ 15 S 15 SS	HTJ 25 S 15 SS	HTJ 35 S 15 SS	HTJ 50 S 15 SS	
A	mm	200	255	247	297	267
B	mm	60	70	85	107	130
C	mm	45	45	45	65	65
D	mm	38	38	55	60	80
E	mm	17	15	20	30	35
F	mm	178	234	230	246.5	250



2 In-mast hoses							↓
model	MH1.25B (M)	MH2B (M)	MH1.25B (M+F)	MH2B (M+F)	extension set, 105 mm	extension set, 117 mm	
art no	160.572.005	160.572.003	160.572.006	160.572.004	160.182.055	160.182.056	
type	for top connection	for top connection	for side connection	for side connection	for side connection	for side connection	
length	m	1.25	2	1.25	2	-	-
length	mm	-	-	-	-	105	117
coupler(s)*	art no	1x 150.000.142	1x 150.000.142	1x 150.581.250 1x 150.000.142	1x 150.581.250 1x 150.000.142	1x 150.000.142	1x 150.000.142

* included

3 In-mast pumps*				↓
model	HTW 320		HTW 650	HTW 1800 B
art no	160.542.009		160.542.007	160.542.008
operating force max.	kg	40	56	36
working pressure	bar / Mpa	720 / 72	720 / 72	720 / 72
output / stroke 1st stage	cm³	3.62	11.25	28
output / stroke 2nd stage	cm³	0.90	2.47	2.3
max. pressure 1st stage	bar	14	14	45
oil content	cm³	320	650	1800
weight incl. oil	kg	2.1	4.1	9.3

* including pressure gauge and coupler

Hoses for through-bar sets					↓
model	H 1 SO	H 2 SO	H 3 SO	MH 2 TI	
art no	100.571.101	100.571.102	100.571.103	160.572.001	
length	m	1	2	3	2x1x1

Couplers				↓
image	description	model	art no	
	quick coupler, female, including aluminium dust caps • connection: 3/8" NPT female • fits: A 119	A 118	100.181.118	
	quick coupler, male	A 119	100.181.119	
	quick coupler, stainless, male, including aluminium dust caps • connection: 1/4" BSP male	A 239 SS	150.000.142	
	quick coupler, steel / aluminium, female • fits: A 239 SS	A 250	150.581.250	
	quick coupler, stainless, female	A 118 SS	100.182.096	
	quick coupler, stainless, male	A 119 SS	100.182.098	
	High flow coupler 1/4" BSP (I), stainless steel, female	-	160.001.138	
	High flow coupler 1/4" BSP (I), stainless steel, male	-	160.001.139	

Tilting saddles				↓
image	description	model	art no	
	tilting saddle, 10 & 15 ton, diameter 45 mm. stainless steel	S 15TN SS	160.000.528	
	tilting saddle, 25 ton, diameter 45 mm. stainless steel	S 25TN SS	160.000.039	
	tilting saddle, 30 & 35 ton, diameter 65 mm. stainless steel	S 30TN SS	160.000.550	
	tilting saddle, 50 ton, diameter 65 mm. stainless steel	S 50TN SS	160.000.537	
	tilting saddle, 100 ton, diameter 90 mm. stainless steel	S 100TN SS	160.000.525	

Pressure gauges				↓
image	description	model	art no	
	pressure gauge, 1/2" NPT, 0-720 bar	A500	100.582.500	
	pressure gauge connector block, 3/8" NPT (M) - 3/8" NPT (F)	A108	100.181.108	
	rubber protection cover for gauge A500	-	350.581.160	
	pressure gauge plug-in set (including all couplers)	A111	100.582.111	

Compact electric-powered pump			↓
model	EHW 1650 RC		
art no	100.551.001		
pump type	2-stage radial		
pump output - 1st stage unloaded	cm³ / min	2000	
pump output - 2nd stage	cm³ / min	250	
working pressure	bar / Mpa	720 / 72	
oil content	cm³	1650	
motor	230 V 50/60 Hz		
remote control	15 V		
max. power motor	kW	0.35	
weight incl. oil	kg	11.6	

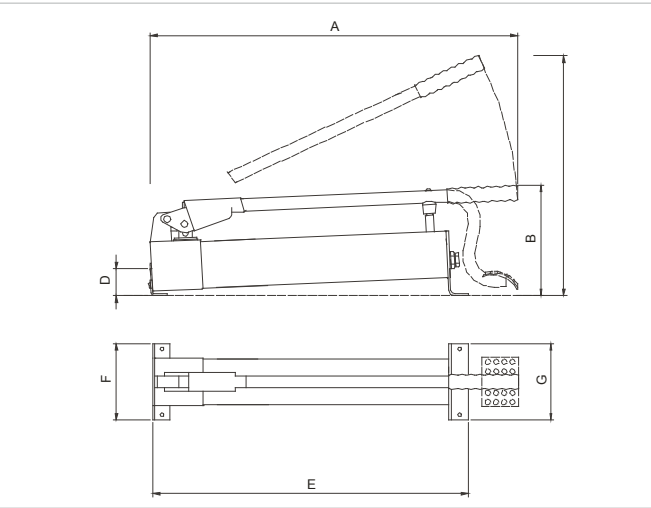
- Options:
1. needle valve for controlled return of oil
 2. pressure gauge
 3. needle valve + pressure gauge

- Features / Benefits
- compact construction, can be used anywhere
 - lightweight
 - can be used in all positions
 - suitable for mast jacks
 - standard with waterproof (IP 54) remote control



Hand or foot pumps - two-stage - single- or double-acting								↓
model		HTW 320	HTW 650	H/FTW 1800 B	H/FTW 2800 B	H/FTW 5800 B	H/FTW 8800 B	
art no		160.542.001	160.542.002	100.141.005/008	100.141.002/009	100.141.004/010	100.141.006/007	
operating force max.	kg	40	56	36	36	36	36	
working pressure	bar / Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	
output / stroke 1st stage	cm³	3.62	11.25	28	28	28	28	
output / stroke 2nd stage	cm³	0.90	2.47	2.3	2.3	2.3	2.3	
max. pressure 1st stage	bar	14	14	45	45	45	45	
oil content	cm³	320	650	1800	2800	5800	8800	
weight incl. oil	kg	2.1	4.1	9.3	11.5	15	22.5	

Hand or foot pumps - two-stage - single- or double-acting (dimensions)								↓
model		HTW 320	HTW 650	H/FTW 1800 B	H/FTW 2800 B	H/FTW 5800 B	H/FTW 8800 B	
A	mm	322	527	690	690	690	690	
B	mm	144	178	215	215	215	215	
D	mm	28.5	33	57	57	57	57	
E	mm	338	533	590	590	590	590	
F	mm	95	121	140	140	180	235	
G	mm	95	121	140	140	180	235	



As yachts become larger, more specialised, an increasing number of Superyachts are built, demand for custom-built hydraulic rigging systems continues to grow.

In addition to a wide range of standard rigging hydraulics, Reckmann design and manufacture customised systems using quality materials such as highly-polished stainless steel, and silver or black anodized aluminium. Our custom product range includes:

- double acting boom vang
- position indicating boom vang
- mechanical lock cylinders
- custom-built cylinders for backstays, outhauls and flatteners
- custom-built mast jacks

Please contact us if you have any special requirements for rigging hydraulics.



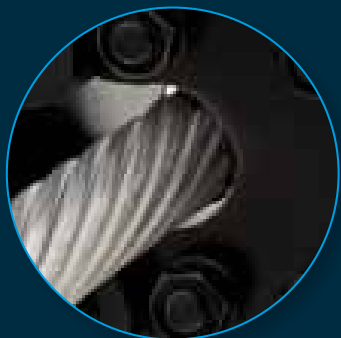
These hydraulic cutters are equipped with blades designed for wire rigging up to 16 mm. They are lightweight but powerful, and extremely easy to operate. The integrated hand pump ensures a very compact design.

The cutters are supplied in a waterproof dry-bag, protected and ready for action.

Cutting a rig can be hazardous, but is sometimes essential to prevent further damage or loss of life. For emergency situations like this, Reckmann has developed a special range of remote-operated cutters.

Equipped with blades designed for Rod rigging up to -115 (22.2 mm), the cutters lock onto the rig and remain in place unattended. A hydraulic hand pump connected by a three metre hose allows the operator to stand back from any flying ends if the rig is cut under tension.

Supplied in a waterproof protective case with wheels and retractable handle for easy transportation.



Hand-operated wire & rod cutters

model	EWC14H	EWC16H	ERC-12H	ERC-30H
typ	wire	wire	rod	rod
capacity	-	-	-12	-30
max. cutting size wire mm	16	20	7.1	11.1
max. cutting size dyform mm	14	16	-	-
pump	Integrated	Integrated	Integrated	Integrated
storage	dry-bag	dry-bag	dry-bag	dry-bag

Dry-bag



EWC16H



ERC-30H



Remote-operated rod cutters

model	ERC-30R	ERC-60R	ERC-115R
capacity	-30	-60	-115
max. cutting size: wire mm	11.1	16.8	22.2
hose length m	0.437	0.660	0.875
pump	remote	remote	remote
storage case (lxwxh) mm	560x466x265	560x466x265	560x466x265



ERC-30R



ERC-115R



Plumbing Parts

We have a wide range of plumbing parts to install your hydraulic equipment perfectly on your yacht. These fit the most current thread sizes.

Sustainable green oil

The Reckmann Eco Power hydraulic oil is a high quality detergent oil and has been specially compounded and approved for use in all Reckmann Rigging Hydraulic units. This oil is available in different viscosities in one and five litre containers and is used in all of our products.



Plumbing - high pressure (440 bar)

description	art no
hydraulic high pressure hose (per meter)	632.011.115
SS hydraulic crimping coupler 7/16"JIC	160.583.030
hose pressing per coupler	999.000.130
through deck gland 5/32" (standard)	160.583.002
through deck gland 3/16"	160.182.005
SS elbow connection 7/16"JIC-1/8"NPT	160.583.025
SS adjustable elbow connection 7/16"JIC	160.182.003
SS T-connection 7/16"JIC-7/16"JIC	160.583.027
SS swivel T-connection 7/16"JIC-7/16"JIC	160.583.028
SS swivel side T-connection 7/16"JIC - 7/16"JIC	160.000.979
SS straight connection 1/4"BSP-7/16"JIC	160.583.019
SS straight connection 7/16"JIC-7/16"JIC	160.182.004
SS multiseal, 1/4" BSP	160.583.008
SS quick coupler 1/4" BSP (I) male	160.000.736
SS quick coupler 1/4" BSP (I) female	160.000.737

Plumbing - low pressure

description	art no
hydraulic low pressure hose (per meter)	160.570.031
LP elbow connection, 12 mm	160.00.688
LP threaded elbow connection, 12 x 12 mm	160.000.666
LP T-connection, 12 mm x 1/4" BSP	160.000.667
LP threaded T-connection, 12 x 12 x 12 mm	160.000.747
LP straight connection, 12 x 12 mm x 1/4" BSP	160.000.689
LP threaded straight connection, 12 x 12 mm	160.000.669
LP blanking plug	160.000.670
LP elbow 45°, 12 mm x 1/4" BSP	160.000.745
LP quick coupler, female, 1/4" BSP	160.000.742
LP quick coupler, male, 1/4" BSP	160.000.743

Oil

description	art no
mineral hydraulic oil, biodegradable, ISO VG 15, 1 ltr.	100.581.051
mineral hydraulic oil, biodegradable, ISO VG 15, 5 ltr.	100.581.055



model		MH10	MH12.5	MH13	MH14	MH15	MH16.5	MH18
art no		160.571.012	160.570.007	160.570.025	150.570.047	160.571.013	160.570.051	160.570.058
length	m	10	12.5	13	14	15	16.5	18

model		MH13D	MH14D	MH15D	MH16D	MH17.5D	MH20D	MH24D		
art no		160.570.021	160.570.041	160.570.017	160.570.028	160.570.038	160.570.032	160.570.055		
length	m	13	14	15	16	17.5	20	24		







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