



BOP Handling Systems

25 to 200 metric tons Lifting Capacity



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BOP Handling Systems

OVERVIEW

For over 30 years Ingersoll Rand has designed, manufactured, and serviced hundreds of Blowout Preventer Handling Systems for all the major drilling contractors and oil companies in the industry.

Our familiarity with this complex and critical lifting application enables us to provide the type of equipment, engineering support, and certifications that these projects require.

The design of our BOP Handling Systems reflects the years of experience we've gained by providing equipment for the harshest environments and applications around the world. Our Oilfield Tough systems feature compact modular designs, robust "bulletproof" gearboxes, powerful air or hydraulic motors, large diameter load chain, and all steel/cast iron construction which provides increased safety, rugged reliability, enhanced control, and reduced maintenance.

Our commitment to safety and quality combined with our long experience with difficult lifting applications allows us to provide our clients with the safest and most cost-effective solutions possible.

The Ingersoll Rand Advantage

Our BOP Handling Systems are designed to meet or exceed the specifications of one or more of the following regulatory bodies; the Norwegian Petroleum Directorate (NPD), UK HSE, Lloyds Register of Shipping (LRS), Det Norske Veritas (DNV), and American Bureau of Shipping (ABS) for the oilwell drilling industry.

All Ingersoll Rand BOP handling systems are designed and built in ISO9001 certified factories.



Certificate No. FM53539



Certificate No. QUAL/1991/309e

- ❖ **ISO 9001 certified manufacturing and service facilities**
- ❖ **5:1 design factor combined with all steel and cast iron construction** to withstand the brutal environmental and mechanical challenges of the job.
- ❖ **Automatic multi-disc oil bath motor brakes** that engage instantly the moment the controls are released.
- ❖ **High efficiency planetary gearboxes** that are fully sealed to exclude contaminants.
- ❖ **Space saving modular designs** require no deck space, offer low headroom and improved end approach. Ultra-low headroom models are available for applications with severe envelope restrictions.
- ❖ **Air and hydraulic powered models** to choose from, including high-torque radial piston and compact (lube-free) gear type air motors. Air motors provide built-in overload protection since they will stall without damaging hoist.
- ❖ **Smooth, precise, and safe load control** with variable speed pendent control.
- ❖ **Rugged corrosion resistant load chain** in 16, 22, and 32 mm sizes has greater elongation and therefore, is more resistant to shock loading. The large links provide for easier external inspection, excellent resistance to abrasion, and will last indefinitely when properly maintained.
- ❖ **True vertical lift** which enhances load control characteristics and safety.
- ❖ **Articulated trolleys** accommodate limited side pulling as BOP stack is being lifted.
- ❖ **Engineered options**
 - Rack and pinion trolley drive option for positive traction and improved horizontal load control.
 - Severe duty packages available for cold weather, marine, and explosion-proof environments including ATEX.
 - Remote control pendants and consoles.
 - Spark and corrosion resistant components.
 - Air and hydraulic festooning systems.
 - Trolleys for custom fabricated beams.
 - Clevis and shackle bottom block assemblies.
 - Low pressure 4 bar (57psi) applications.

BOP Handling Systems

SELECTION CHART

**Rated capacity (tons)	Model Number	Number of Chain Falls per hoist	Max. lifting speed m/min (ft/min)	Minimum Headroom mm (in.)
Hercu-Link™ Air BOP Handling Systems (Piston motor drive)				
50	BHS50M	2	1.2 (4)	1040 (40.94)
75	BHS75M	3	0.8 (2.5)	1243 (48.94)
100	BHS100M	4	0.6 (2)	1346 (53)
150	BHS150M	3	0.7 (2.5)	–
200	BHS200M	4	0.6 (2)	–
Liftchain® Air BOP Handling Systems (Gear motor drive)				
25	BS25LCA2P	2	0.8 (2.63)	1128 (44.41)
30	BS30LCA3P	3	0.6 (1.97)	1242 (48.9)
36	BS36LCA3P	3	0.5 (1.64)	1242 (48.9)
40	BS40LCA4P	4	0.4 (1.30)	1290 (50.79)
50	BS50LCA2P	2	1.6 (5.25)	976 (38.42)
50	BS50LCA4P	4	0.4 (1.30)	1290 (50.79)
75	BS75LCA3P	3	1.1 (3.60)	1170 (46.06)
100	BS100LCA4P	4	0.8 (2.60)	1392 (54.8)
150	BS150LCA3P	3	0.4 (1.30)	1845 (72.64)
200	BS200LCA4P	4	0.3 (0.98)	1901 (74.84)
Liftchain® Hydraulic BOP Handling Systems				
25	BS25LCH2P	2	2.8 (9.19)	1128 (44.41)
30	BS30LCH3P	3	1.9 (6.23)	1242 (48.9)
36	BS36LCH3P	3	1.86 (6.1)	1242 (48.9)
40	BS40LCH4P	4	1.35 (4.1)	1290 (50.79)
50	BS50LCH2P	2	2.27 (7.45)	976 (38.42)
50	BS50LCH4P	4	1.35 (4.1)	1290 (50.79)
75	BS75LCH3P	3	1.51 (4.95)	1170 (46.06)
100	BS100LCH4P	4	1.13 (3.7)	1392 (54.8)
150	BS150LCH3P	3	0.48 (1.57)	1845 (72.64)
200	BS200LCH4P	4	0.36 (1.18)	1901 (74.84)

**All BOP Handling Systems are comprised of two trolley-mounted hoists; each of which is rated at one-half the complete system capacity.

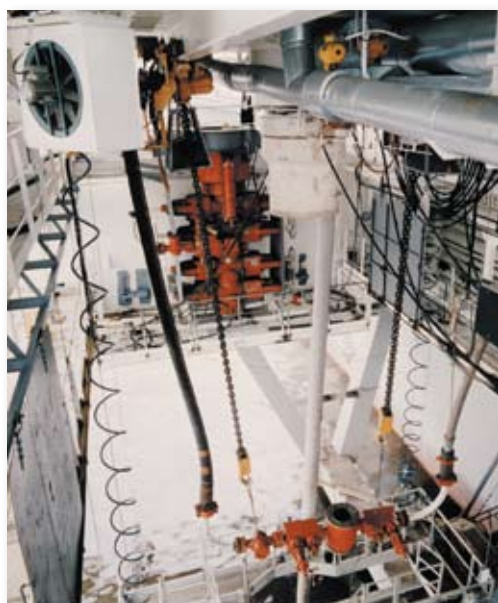
Hercu-Link™ Air BOP Handling Systems

STANDARD FEATURES AND OPTIONS of Piston Motor Drive – 50 to 200 tons Lifting Capacity

Designed to meet or exceed specifications of one or more of the following regulatory bodies – the Norwegian Petroleum Directorate (NPD), UK HSE, Lloyds Register of Shipping (LRS), Det Norske Veritas (DNV), and American Bureau of Shipping (ABS) for the oilwell drilling industry.

Standard Features

- Radial piston air motor – hoist and trolley
- 5:1 design factor
- All steel construction
- Automatic Fail- Safe, multi disc, motor brake on hoist
- Articulated trolley allows limited side pulling operations on special models
- Fully enclosed planetary gear box
- Compact modular design
- Corrosion resistant load chain
- 9m (30 ft) height of lift standard on all models
- Bottom block mounted on bearing with external lubrication point and water drain
- Accu-Trol™ pendent with “emergency stop/start” feature and 9m (30 ft) pendent hose
- Limit switch for upper and lower over-travel protection.
- Lifting lugs for easy installation
- Filter-Lubricator air preparation package mounted on unit
- Corrosion resistant Marine 812 finish paint
- Galvanized steel chain container
- Trolley guide rollers, rubber bumpers, and rail sweeps
- Manufacturer test certificate and maintenance manual
- Exhaust mufflers



BHS50M (50-ton system) after storage of Blowout Preventer for periodic maintenance.



BHS100M (100-ton system) in the process of deploying Blowout Preventer stack

Options

- Variable lengths of lift and pendent control hose
- Spark and corrosion resistant (S•COR•E) packages
- Rack and pinion trolley drive for positive traction
- Clevis and shackle attachment in lieu of bottom hook
- Air or hydraulic festooning systems
- Trolleys for shipyard fabricated beams
- CE compliant models including overload protection and main emergency stop device
- Corrosion resistant Marine 812-X paint system
- Sandblast and carbozinc (primer only)
- Custom paint coating systems per owners specifications
- Custom designed air control consoles
- 4 bar (57 psi) application models

Hercu-Link™ Air BOP Handling Systems

SPECIFICATIONS AND PERFORMANCE of Piston Motor Drive – 50 to 200 tons Lifting Capacity

Hoist Specifications																
Model No.	System capacity (tons)	Standard lift/ Pendant drop		Speed of hoist				Hoist motor		Air inlet NPT in.	Chain Size mm	Chain wt./lineal m (ft) of lift		Chain falls per hoist	Net weight of system	
		m	ft	m/min	fpm	m/min	fpm	hp	cfm			kg	lbs		kg	lbs
BHS50M	50	9	30	1.2	4	1.8	6	9.4	280	1	22 x 66	21	47	2	2616	5750
BHS75M	75	9	30	0.8	2.5	1.1	3.8	9.4	280	1	22 x 66	32	71	3	2844	6250
BHS100M	100	9	30	0.6	2	0.9	3	9.4	280	1	22 x 66	43	94	4	3526	7750
BHS150M	150	9	30	0.7	2.5	-	-	25	700	1-1/2	32 x 90	68	151	3	4527	9950
BHS200M	200	9	30	0.6	2	-	-	25	700	1-1/2	32 x 90	91	201	4	5005	11000

Notes:

Air supply hose size must be a minimum 0.25 inch larger dia. than air inlet size.
Performance figures are at 7.3 bar (105 psi) air pressure.

Trolley Specifications													
Model No.	No. of pairs of wheels per beam	Flange adjustment		Wheel tread diameter		Wheel loading per pair		Min. inside curve radius		Trolley motor		Speed of Trolley	
		mm	in.	mm	in.	kg	lbs	mm	in.	hp	cfm	m/min	fpm
BHS50M	4	152-203	6-8	175	6.88	6552	14400	-	-	1.6	65	0-12	0-40
BHS75M	4	203-254	8-10	229	9	9896	21750	-	-	1.6	65	0-12	0-40
BHS100M	4	203-254	8-10	229	9	13104	28800	-	-	1.6	65	0-12	0-40
BHS150M	8	203-254	8-10	229	9	9896	21750	-	-	1.6	65	0-12	0-40
BHS200M	8	203-254	8-10	229	9	13104	28800	-	-	1.6	65	0-12	0-40

(1) Without trailing trolley or with articulated trolley.

WARNING:

This equipment is not to be used for lifting, supporting or transporting people, or lifting or supporting loads over people.

Standard Equipment:



Trolley Bumpers



Limit Switch



Piston Motor Trolley



Corrosion resistant load chain



Galvanized steel chain container



Muffler



Air prep package



Disc brake system



Accu-Trol™ pendant handle

Hercu-Link™ Air BOP Handling Systems

MODEL DRIVER of Piston Motor Drive – 50 to 200 tons Lifting Capacity

How to Order

Specify the complete model as shown. Specify beam size, type and flange width.

Example: BHS50MA6-30-30-KR

Series	System Capacity	Suspension	Trolley flange adjustment	Control	-	Lift	-	Control drop	-	Options																		
BHS	50	M	A	6	-	30	-	30	-	KR																		
BHS= Blowout Preventer Handling System		M = Piston Motor Trolley RT = Rack and Pinion Trolley Drive for Tapered Beam Flange RF = Rack and Pinion Trolley Drive for Flat Beam Flange		5 = 1 Mtr. Pendant (2 button w/on-off) 6 = 2 Mtr. Pendant (4 button w/on-off) 7 = 3 Mtr. Pendant (6 button w/on-off)		XX = Length of lift in feet		XX = Pendant hose drop and/or hand chain drop in feet																				
	<table><tr><td>tons</td><td>lbs</td><td># of hoists x cap.</td></tr><tr><td>50</td><td>110,000</td><td>(2 x 25 tons)</td></tr><tr><td>75</td><td>165,000</td><td>(2 x 37.5 tons)</td></tr><tr><td>100</td><td>220,000</td><td>(2 x 50 tons)</td></tr><tr><td>150</td><td>330,000</td><td>(2 x 75 tons)</td></tr><tr><td>200</td><td>440,000</td><td>(2 x 100 tons)</td></tr></table>	tons	lbs	# of hoists x cap.	50	110,000	(2 x 25 tons)	75	165,000	(2 x 37.5 tons)	100	220,000	(2 x 50 tons)	150	330,000	(2 x 75 tons)	200	440,000	(2 x 100 tons)		A = standard B = 2" extension C = 4" extension D = 6" extension							C1M3 = ABS minus 20 degree C design temperature (tD) C2M3 = DNV minus 20 degree C design temperature (tD) K = Clevis (in place of bottom hook) M1 = Per DIN 50049/EN10204 Para 2.2 "Typicals" M2 = Per DIN 50049/EN10204 Para 3.1b actual per product as purchased M3 = Per DIN 50049/EN10204 Para 3.1b actual per product as delivered in final condition N4 = American Bureau of Shipping "Certification of Drilling Systems" N5 = Det Norske Veritas "DNV-OS-E101 Drilling Plant" P1 = Marine 812-X Paint System P2 = Marine 812-X Paint System (isocyanate free paint system) R = Copper plated (S·COR·E package) The product will be equipped with copper plated load hook(s) and trolley wheels W1 = ABS witness test W2 = DNV witness test W3 = LRS witness test W4 = Customer witness test -CE = Compliance with European Machinery Directive
tons	lbs	# of hoists x cap.																										
50	110,000	(2 x 25 tons)																										
75	165,000	(2 x 37.5 tons)																										
100	220,000	(2 x 50 tons)																										
150	330,000	(2 x 75 tons)																										
200	440,000	(2 x 100 tons)																										

Notes:

M1 - Material traceability certificates according to EN 10204 (Ex DIN 50049) 2.2 on load bearing parts. This conformity document affirms (by the manufacturer) that parts are in compliance with the requirements of the order based on non-specific inspection and testing (i.e. results are typical material properties for these parts).

M2 - Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e. results are as-purchased material properties for those parts).

M3 - Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e. results are actual material properties for those parts in a finished, as delivered condition).

WARNING: Standard Hercu-Link™ hoists purchased for B.O.P. Handling Systems will void the warranty. They are not designed for this type of application.

Liftchain® Air or Hydraulic BOP Handling Systems

STANDARD FEATURES AND OPTIONS – 25 to 50 tons Lifting Capacity

Designed to meet or exceed specifications of one or more of the following regulatory bodies - the Norwegian Petroleum Directorate (NPD), UK HSE, Lloyds Register of Shipping (LRS), Det Norske Veritas (DNV), and American Bureau of Shipping (ABS) for the oilwell drilling industry.

Standard Features

- Gear type air motor – hoist and trolley
- 5:1 design factor
- All steel/cast iron construction
- Automatic Fail Safe multi disc, motor brake on hoist and trolley
- Articulated trolley allows limited side pulling operations
- Fully enclosed planetary gear box
- Compact modular design
- Corrosion resistant load chain
- 9m (30 ft) height of lift standard on all models
- Bottom block mounted on bearing with external lubrication point and water drain
- 9m (30 ft) of control (progressive pendent)
- Limit switch for upper and lower over-travel protection.
- Lifting lugs for easy installation
- Filter-Lubricator-Regulator air preparation package mounted on unit
- Corrosion resistant Marine 812 finish paint
- Galvanized steel chain container
- Trolley guide rollers, rubber bumpers, and rail sweeps
- Manufacturer test certificate and maintenance manual
- Exhaust mufflers



BS75LCH3 (2 x 75-ton) hydraulic systems used on a rig



BS75LCA3 (75-ton) air system – 1 hoist shown

Options

- Variable lengths of lift and pendent control hose
- Spark and corrosion resistant (S·COR·E) packages
- Rack and pinion trolley drive for positive traction
- Clevis and shackle attachment in lieu of bottom hook
- Air or hydraulic festooning systems
- Trolleys for shipyard fabricated beams
- CE compliant models including overload protection and main emergency stop device
- Corrosion resistant Marine 812-X paint system
- Sandblast and carbozinc (primer only)
- Custom paint coating systems per owners specifications
- Custom designed hydraulic and air control consoles

Liftchain® Air BOP Handling Systems

SPECIFICATIONS AND PERFORMANCE of Gear Motor Drive – 25 to 50 tons Lifting Capacity

Hoist Specifications																
Model No.	System capacity (tons)	Standard lift/ Pendent drop		Speed of hoist				Hoist motor		Air inlet BSP	Chain Size	Chain wt./lineal m (ft) of lift		Chain falls per hoist	Net weight of system	
		m	ft	m/min	fpm	m/min	fpm	hp	cfm	in.	mm	kg	lbs		kg	lbs
BS25LCA2P	25	9	30	0.8	2.63	1.50	4.92	4	163	3/4	16 x 45	11	25	2	800	1760
BS30LCA3P	30	9	30	0.6	1.97	1.00	3.28	4	163	3/4	16 x 45	17	38	3	970	2134
BS36LCA3P	36	9	30	0.5	1.64	1.00	3.28	4	163	3/4	16 x 45	17	38	3	970	2134
BS40LCA4P	40	9	30	0.4	1.30	0.75	2.46	4	163	3/4	16 x 45	23	50	4	1040	2288
BS50LCA2P	50	9	30	1.6	5.25	2.50	8.20	10	406	1"1/4	22 x 66	21	47	2	1130	2486
BS50LCA4P	50	9	30	0.4	1.30	0.75	2.46	4	163	3/4	16 x 45	23	50	4	1040	2288
BS75LCA3P	75	9	30	1.1	3.60	1.70	5.58	10	406	1"1/4	22 x 66	32	71	3	4000	8800
BS100LCA4P	100	9	30	0.8	2.60	0.90	2.95	10	406	1"1/4	22 x 66	43	94	4	4400	9680
BS150LCA3P	150	9	30	0.4	1.30	0.48	1.57	10	406	1"1/4	32 x 90	68	151	3	9440	20768
BS200LCA4P	200	9	30	0.3	0.98	0.35	1.16	10	406	1"1/4	32 x 90	91	201	4	9990	21978

Notes:

Air supply hose size must be a minimum 0.25 inch larger dia. than air inlet size.

Trolley Specifications													
Model No.	No. of pairs of wheels per beam	Flange adjustment		Wheel tread diameter		Wheel loading per pair		Min. inside curve radius		Trolley motor		Speed of Trolley	
		mm	in.	mm	in.	kg	lbs	mm	in.	hp	cfm	m/min	fpm
BS25LCA2P	2	131-310	5-12	160	6.30	6250	13750	3	118	2	81	12	39
BS30LCA3P	2	131-310	5-12	225	8.86	7500	16500	5	197	2	81	12	39
BS36LCA3P	2	131-310	5-12	225	8.86	9000	19800	5	197	2	81	12	39
BS40LCA4P	2	131-310	5-12	225	8.86	12500	27500	5	197	2	81	12	39
BS50LCA2P	4	160-310	6-12	160	6.30	6250	13750	105	4134	2 (Qty 2)	81 (Qty 2)	12	39
BS50LCA4P	2	131-310	5-12	225	8.86	12500	27500	5	197	2	81	12	39
BS75LCA3P	4	160-310	6-12	225	8.86	9375	20625	105	4134	2 (Qty 2)	81 (Qty 2)	12	39
BS100LCA4P	4	160-310	6-12	225	8.86	12500	27500	105	4134	2 (Qty 2)	81 (Qty 2)	12	39
BS150LCA3P	8	160-310	6-12	225	8.86	9375	20625	130	5118	2 (Qty 4)	81 (Qty 4)	12	39
BS200LCA4P	8	160-310	6-12	225	8.86	12500	27500	130	5118	2 (Qty 4)	81 (Qty 4)	12	39

WARNING:

This equipment is not to be used for lifting, supporting or transporting people, or lifting or supporting loads over people.



Liftchain® 200-ton BOP Handling System (1 hoist shown)

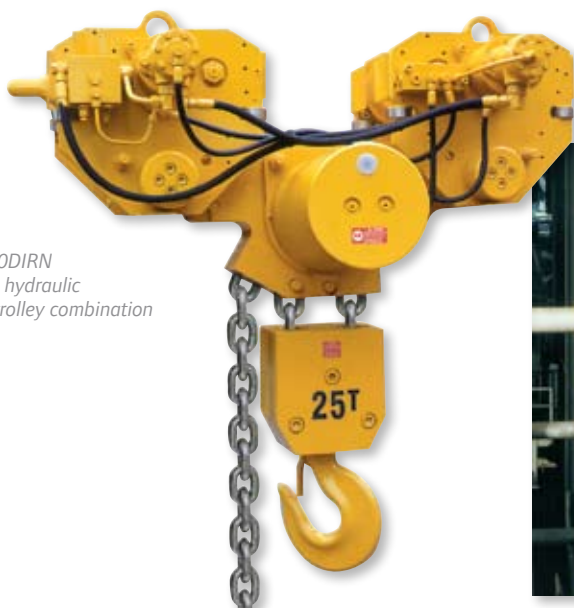
Liftchain® Hydraulic BOP Handling Systems

SPECIFICATIONS AND PERFORMANCE – 25 to 200 tons Lifting Capacity

Hoist Specifications																				
Model No.	System capacity (tons)	Standard lift/ Pendent drop		Speed of hoist lift				Air inlet BSP in.	Chain Size mm	Chain wt./lineal m (ft) of lift		Chain falls per hoist	Net weight of system		Working Pressure		Calibration Pressure		Nominal Flow	
		m	ft	m/min	fpm	m/min	fpm			kg	lbs		kg	lbs	bar	psi	bar	psi	l/min	gpm
BS25LCH2P	25	9	30	2.8	9.19	2.8	9.19	1/2	16 x 45	11.4	25.1	2	770	1694	140	2030	175	2538	48	13
BS30LCH3P	30	9	30	1.9	6.23	1.9	6.23	1/2	16 x 45	17.1	37.7	3	970	2134	140	2030	175	2538	48	13
BS36LCH3P	36	9	30	1.86	6.1	1.86	6.1	1/2	16 x 45	17.1	37.7	3	970	2134	140	2030	175	2538	48	13
BS40LCH4P	40	9	30	1.35	4.1	1.35	4.1	1/2	16 x 45	22.8	50.3	4	1090	2398	140	2030	175	2538	48	13
BS50LCH2P	50	9	30	2.27	7.45	2.27	7.45	3/4	22 x 66	21.4	47.2	2	2130	4686	175	2538	200	2900	50	13
BS50LCH4P	50	9	30	1.35	4.1	1.35	4.1	1/2	16 x 45	22.8	50.3	4	1090	2398	140	2030	175	2538	48	13
BS75LCH3P	75	9	30	1.51	4.95	1.51	4.95	3/4	22 x 66	32.1	70.8	3	2990	6578	180	2610	210	3045	50	13
BS100LCH4P	100	9	30	1.13	3.7	1.13	3.7	3/4	22 x 66	42.8	94.3	4	3460	7612	177	2567	210	3045	50	13
BS150LCH3P	150	9	30	0.48	1.57	0.48	1.57	3/4	32 x 90	68.4	150.8	3	9880	21736	140	2030	210	3045	35	9
BS200LCH4P	200	9	30	0.36	1.18	0.36	1.18	3/4	32 x 90	91.2	201	4	12390	27258	220	3190	240	3480	35	9

Trolley Specifications																	
Model No.	No. of pairs of wheels per beam	Flange adjustment mm in.		Wheel tread diameter mm in.		Wheel loading per pair kg lbs		Min. inside curve radius mm in.		Speed of Trolley m/min fpm		Working Pressure bar psi		Calibration Pressure bar psi		Nominal Flow l/min gpm	
BS25LCH2P	2	131-310	5-12	160	6.3	6250	13750	3	118.1	15	49	140	2030	165	2393	10	3
BS30LCH3P	2	131-310	5-12	225	8.86	7500	16500	5	196.85	15	49	140	2030	175	2538	10	3
BS36LCH3P	2	131-310	5-12	225	8.86	9000	19800	5	196.85	15	49	140	2030	175	2538	10	3
BS40LCH4P	2	131-310	5-12	225	8.86	12500	27500	5	196.85	15	49	140	2030	175	2538	10	3
BS50LCH2P	4	160-310	6-12	160	6.3	6250	13750	105	4134	15	49	150	2175	210	3045	10	3
BS50LCH4P	2	131-310	5-12	225	8.86	12500	27500	5	196.85	15	49	140	2030	175	2538	10	3
BS75LCH3P	4	160-310	6-12	225	8.86	9375	20625	105	4134	15	49	150	2175	210	3045	10	3
BS100LCH4P	4	160-310	6-12	225	8.86	12500	27500	105	4134	15	49	150	2175	210	3045	10	3
BS150LCH3P	8	160-310	6-12	225	8.86	9375	20625	130	5118	15	49	200	2900	210	3045	35	9
BS200LCH4P	8	160-310	6-12	225	8.86	12500	27500	130	5118	15	49	220	3190	250	3625	35	9

LCH250DIRN
25-ton hydraulic
hoist/trolley combination



Hydraulic
control console
allowing the control
of four hoist/trolley
combinations

Liftchain® Air or Hydraulic BOP Handling Systems

MODEL DRIVER – 25 to 200 tons Lifting Capacity

How to Order

Specify the complete model as shown. Specify beam size, type and flange width. Note that 0 (zero) is a number, not a letter in the model part numbers.

Example: BS50LCA2P3E9M9T1-E

Series	System Capacity	Hoist Series	Power type	Number of chain falls	Body control type	Control type	Beam type	Lift	Control	Options	-	CE Package
BS	50	LC2	A	4	P	3	E	9M	9	T1	-	E
BS = Blowout Preventer Handling System		LC2 = Liftchain® LC2 Series	A = Air H = Hydraulic	1 = 1 fall 2 = 2 falls 3 = 3 falls 4 = 4 falls	P = Pendent F = Full Flow (hydraulic only)	3 = 2 motor pendent (*) 0 = no control (for hyd.) (*) Joystick type in hyd.	E = Flat beam N = Tapered beam Add the letter "R" for Rack & Pinion configuration (e.g. ER) Available for flat beam only	9M = 9 m XX = Specify length in meters (10 m max in hydraulic)	9 = 9 m std. XX = Specify length in meters	- E = compliance with the EC Machinery Directives (Only for air operated models)** ** CE package includes: - Overload protection - Emergency stop button - Main air shut off valve - CE declaration of conformity		
tons	# of hoists x cap.	Chain falls (# per hoist)										
25	(2 x 12.5 tons)	2 falls										
30	(2 x 15 tons)	3 falls										
36	(2 x 18 tons)	3 falls										
40	(2 x 20 tons)	4 falls										
50	(2 x 25 tons)	2 falls										
or 50	(2 x 25 tons)	4 falls										
75	(2 x 37.5 tons)	3 falls										
100	(2 x 50 tons)	4 falls										
150	(2 x 75 tons)	3 falls										
200	(2 x 100 tons)	4 falls										
L = Low Temperature rating (TD = -20°C) N = Clevis instead of bottom hook QZ = Marine 812-X paint system T1 = Spark resistant package for Zone 1 (**) Z = Sandblast and carbozinc (primer only) (**) Spark resistant option T1 includes: > For the hoist: - Stainless steel pins and fasteners 10 mm and smaller - 20μ zinc plated fasteners 11 mm and larger - Cast iron pendent (air only) - Bronze coated bottom hook assembly > For the trolley: - Stainless steel pins and fasteners 10 mm and smaller - 20μ zinc plated fasteners 11 mm and larger - Solid bronze wheels - Cast iron pendent (air only)												

Hercu-Link™ Air BOP Handling Systems

DIMENSIONS AND DRAWINGS of Piston Motor Drive – 50 to 200 tons Lifting Capacity

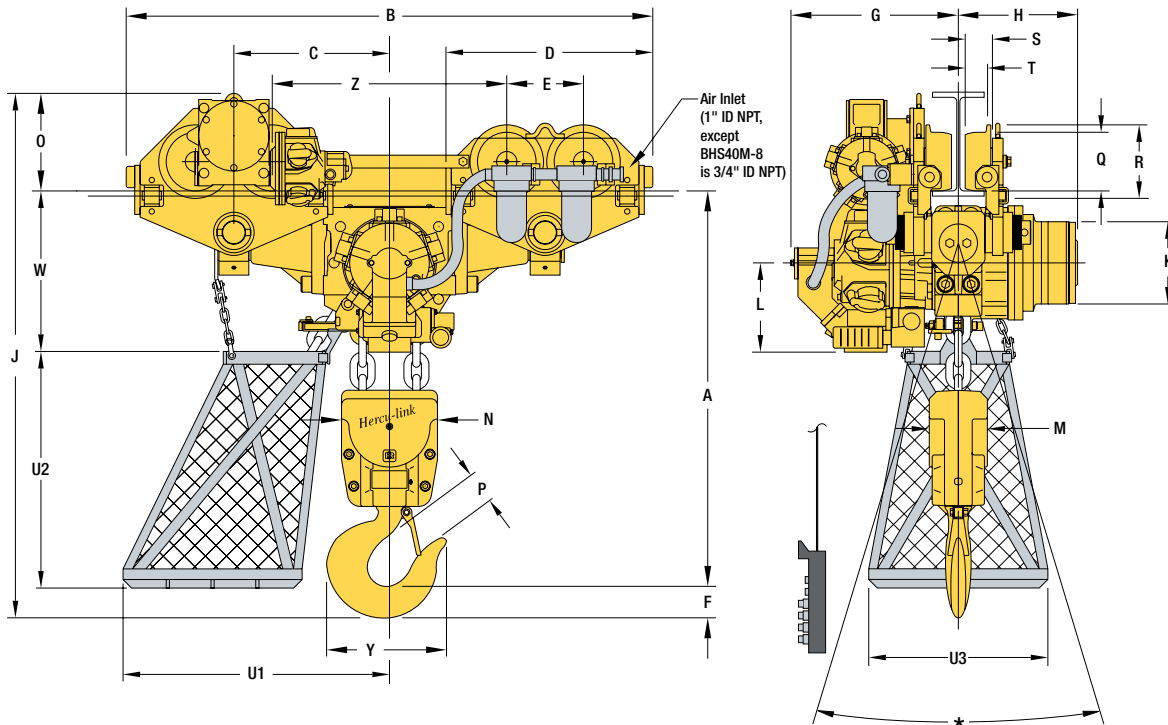
Dimensions (millimeters)																							
Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	W	X	Y	Z
BHS50M	1040	1568	578	616	229	92	495	362	1422	245	251	175	286	291	102	175	219	81	65	484	-	346	699
BHS75M	1243	1648	610	673	298	129	572	438	1702	245	251	283	286	330	121	229	289	78	57	487	-	392	622
BHS100M	1346	1648	610	673	298	165	572	438	1842	245	251	321	286	330	165	229	289	78	57	487	-	622	622

Dimensions (inches)																							
Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	W	X	Y	Z
BHS50M	40.94	61.75	22.75	24.25	9	3.63	19.5	14.25	56	9.63	9.88	6.88	11.25	11.44	4	6.88	8.63	3.19	2.56	19.06	-	13.63	27.5
BHS75M	48.94	64.88	24	26.5	11.75	5.06	22.5	17.25	67	9.63	9.88	11.13	11.25	13	4.75	9	11.38	3.06	2.25	19.19	-	15.44	24.5
BHS100M	53	64.88	24	26.5	11.75	6.5	22.5	17.25	72.5	9.63	9.88	12.63	11.25	13	6.5	9	11.38	3.06	2.25	19.19	-	20.63	24.5

Chain Container Dimensions for 9m (30 ft) standard lift ⁽¹⁾ – millimeters (inches)			
Model No.	U1	U2	U3
BHS50M	795 (31.3)	706 (27.8)	533 (21.0)
BHS75M	886 (34.9)	859 (33.8)	610 (24.0)
BHS100M	922 (36.3)	935 (36.8)	635 (25.0)

(1) Chain containers are available with many other dimensions. Please contact Client Services for details.

BHS50M, BHS75M, and BHS100M series (8-wheel trolley models)



Notes:

Dimensions are approximate and subject to change, please contact factory for certified prints.
Allow $\pm 2\%$ on all dimensions.

(*) Contact Client Services for specifications.

Liftchain® Air and Hydraulic BOP Handling Systems

DIMENSIONS AND DRAWINGS – 25 to 50 tons Lifting Capacity

Dimensions (millimeters)													
Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
LCA Air Series													
BS25LC2A2P	1128	500	120	-	240	67	318	253	338	1415	228	85	150
BS30LC2A3P	1242	642	156	-	312	80	377	311	342	1592	228	85	200
BS36LC2A3P	1242	642	156	-	312	80	377	311	342	1592	228	85	200
BS40LC2A4P	1290	642	156	-	312	94	377	311	342	1606	228	85	200
BS50LC2A4P	1290	642	156	-	312	94	377	311	342	1606	228	85	200
LCH Hydraulic Series													
BS25LC2H2P	1128	500	120	-	240	67	318	253	357	1415	228	143	150
BS30LC2H3P	1242	642	156	-	312	80	377	311	360	1592	228	143	200
BS36LC2H3P	1242	642	156	-	312	80	377	311	360	1592	228	143	200
BS40LC2H4P	1290	642	156	-	312	94	377	311	360	1606	228	143	200
BS50LC2H4P	1290	642	156	-	312	94	377	311	360	1606	228	143	200
Dimensions (millimeters)													
Model No.	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
LCA Air Series													
BS25LC2A2P	203	220	58	160	200	48	68	-	58	739	-	222	-
BS30LC2A3P	206	270	78	225	272	56	80	-	58	797	-	283	-
BS36LC2A3P	206	270	78	225	272	56	80	-	58	797	-	283	-
BS40LC2A4P	235	270	87	225	272	56	80	-	58	797	-	339	-
BS50LC2A4P	235	270	87	225	272	56	80	-	58	797	-	339	-
LCH Hydraulic Series													
BS25LC2H2P	203	220	58	160	200	48	68	-	58	739	-	222	-
BS30LC2H3P	206	270	78	225	272	56	80	-	58	797	-	283	-
BS36LC2H3P	206	270	78	225	272	56	80	-	58	797	-	283	-
BS40LC2H4P	235	270	87	225	272	56	80	-	58	797	-	339	-
BS50LC2H4P	235	270	87	225	272	56	80	-	58	797	-	339	-
Dimensions (inches)													
Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
LCA Air Series													
BS25LC2A2P	44.41	19.68	4.72	-	9.45	2.64	12.52	9.96	13.3	55.7	8.98	3.35	5.9
BS30LC2A3P	48.9	25.27	6.14	-	12.28	3.15	14.84	12.24	13.46	62.68	8.98	3.35	7.87
BS36LC2A3P	48.9	25.27	6.14	-	12.28	3.15	14.84	12.24	13.46	62.68	8.98	3.35	7.87
BS40LC2A4P	50.79	25.27	6.14	-	12.28	3.7	14.84	12.24	13.46	63.23	8.98	3.35	7.87
BS50LC2A4P	50.79	25.27	6.14	-	12.28	3.7	14.84	12.24	13.46	63.23	8.98	3.35	7.87
LCH Hydraulic Series													
BS25LC2H2P	44.41	19.68	4.72	-	9.45	2.64	12.52	9.96	14.05	55.7	8.98	5.63	5.9
BS30LC2H3P	48.9	25.27	6.14	-	12.28	3.15	14.84	12.24	14.17	62.68	8.98	5.63	7.87
BS36LC2H3P	48.9	25.27	6.14	-	12.28	3.15	14.84	12.24	14.17	62.68	8.98	5.63	7.87
BS40LC2H4P	50.79	25.27	6.14	-	12.28	3.7	14.84	12.24	14.17	63.23	8.98	5.63	7.87
BS50LC2H4P	50.79	25.27	6.14	-	12.28	3.7	14.84	12.24	14.17	63.23	8.98	5.63	7.87
Dimensions (inches)													
Model No.	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
LCA Air Series													
BS25LC2A2P	7.99	8.66	2.28	6.3	7.87	1.89	2.68	-	2.28	29.09	-	8.74	-
BS30LC2A3P	8.11	10.63	3.07	8.86	10.71	2.2	3.15	-	2.28	31.38	-	11.14	-
BS36LC2A3P	8.11	10.63	3.07	8.86	10.71	2.2	3.15	-	2.28	31.38	-	11.14	-
BS40LC2A4P	9.25	10.63	3.42	8.86	10.71	2.2	3.15	-	2.28	31.38	-	13.35	-
BS50LC2A4P	9.25	10.63	3.42	8.86	10.71	2.2	3.15	-	2.28	31.38	-	13.35	-
LCH Hydraulic Series													
BS25LC2H2P	7.99	8.66	2.28	6.3	7.87	1.89	2.68	-	2.28	29.09	-	8.74	-
BS30LC2H3P	8.11	10.63	3.07	8.86	10.71	2.2	3.15	-	2.28	31.38	-	11.14	-
BS36LC2H3P	8.11	10.63	3.07	8.86	10.71	2.2	3.15	-	2.28	31.38	-	11.14	-
BS40LC2H4P	9.25	10.63	3.42	8.86	10.71	2.2	3.15	-	2.28	31.38	-	13.35	-
BS50LC2H4P	9.25	10.63	3.42	8.86	10.71	2.2	3.15	-	2.28	31.38	-	13.35	-

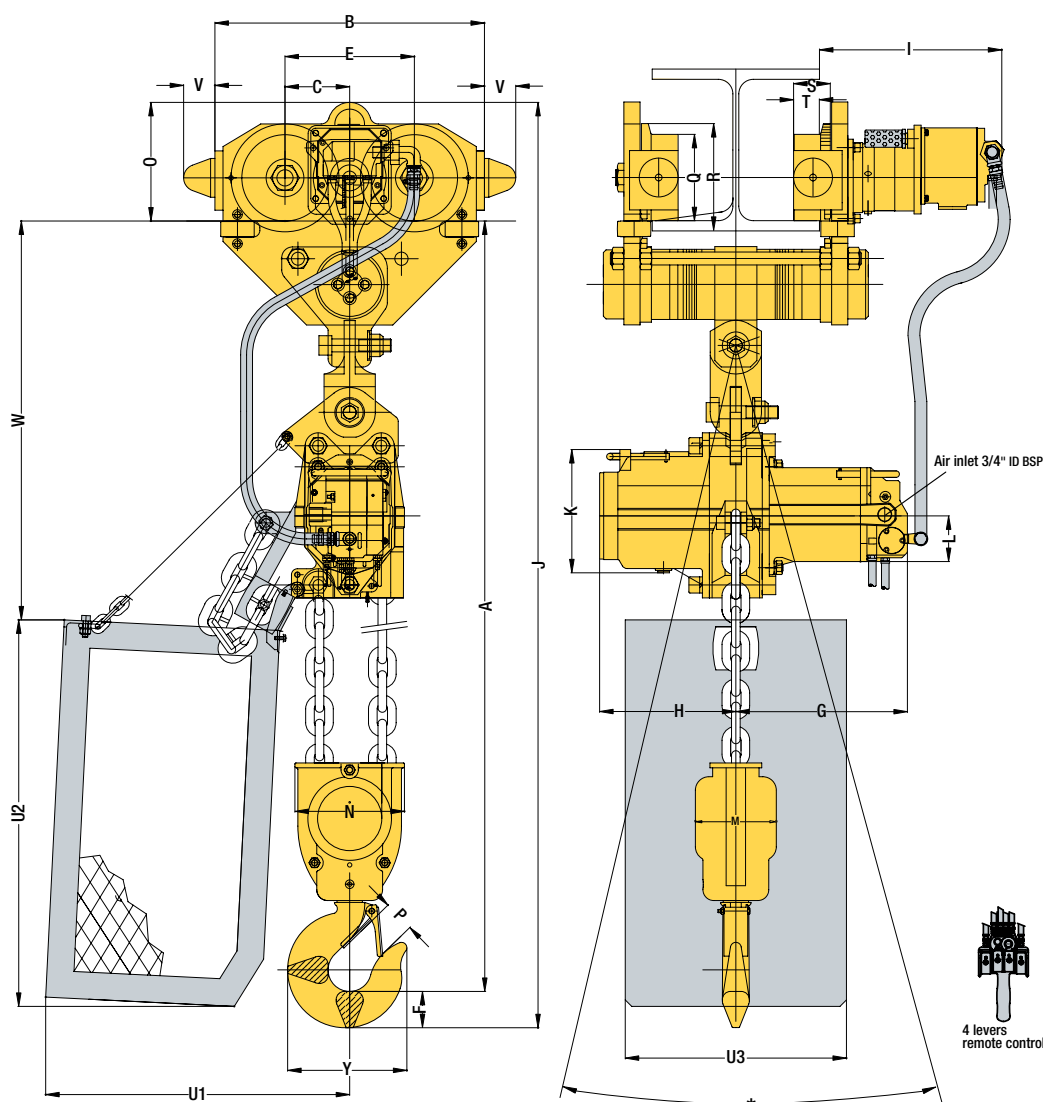
Liftchain® Air and Hydraulic BOP Handling Systems

DIMENSIONS AND DRAWINGS – 25 to 50 tons Lifting Capacity

Chain Container Dimensions for 9m (30 ft) standard lift ⁽¹⁾ – millimeters (inches)			
Model No.	U1	U2	U3
BS25LC2_2P	565 (22.24)	720 (28.35)	400 (15.75)
BS30LC2_3P	565 (22.24)	720 (28.35)	400 (15.75)
BS36LC2_3P	565 (22.24)	720 (28.35)	400 (15.75)
BS40LC2_4P	565 (22.24)	720 (28.35)	550 (21.65)
BS50LC2_4P	565 (22.24)	720 (28.35)	550 (21.65)

(1) Chain containers are available with many other dimensions. Please contact Client Services for details.

BS25LC2_2 - BS30LC2_3 - BS36LC2_3 - BS40LC2_4 - BS50LC2_4 series



Notes:

Dimensions are approximate and subject to change, please contact factory for certified prints.
Allow $\pm 2\%$ on all dimensions.

(*) Contact Client Services for specifications.

Liftchain® Air and Hydraulic BOP Handling Systems

DIMENSIONS AND DRAWINGS – 25 to 200 tons Lifting Capacity

Dimensions (millimeters)													
Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
Liftchain® Air Series													
BS50LCA2P	976	1240	370	500	240	97	492	367	342	1293	223	196	190
BS75LCA3P	1170	1552	455	642	312	132	547	472	360	1572	223	196	278
BS100LCA4P	1392	1552	455	642	312	152	547	472	360	1662	223	196	281
Liftchain® Hydraulic Series													
BS50LCH2P	976	1240	370	500	240	97	446	265	357	1293	298	137	190
BS75LCH3P	1170	1552	455	642	312	132	500	372	360	1572	298	137	278
BS100LCH4P	1392	1552	455	642	312	152	500	372	360	1662	298	137	281

Dimensions (millimeters)													
Model No.	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Liftchain® Air Series													
BS50LCA2P	276	220	82	160	200	48	68	-	58	436	-	339	500
BS75LCA3P	298	270	103	225	272	56	80	-	58	494	-	384	598
BS100LCA4P	352	270	118	225	272	56	80	-	58	494	-	384	598
Liftchain® Hydraulic Series													
BS50LCH2P	276	220	82	160	200	48	68	-	58	436	-	339	500
BS75LCH3P	298	270	103	225	272	56	80	-	58	494	-	384	598
BS100LCH4P	352	270	118	225	272	56	80	-	58	494	-	384	598

Dimensions (inches)													
Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
Liftchain® Air Series													
BS50LCA2P	38.42	48.82	14.57	19.68	9.45	3.82	19.37	14.45	13.46	50.9	8.78	7.72	7.48
BS75LCA3P	46.06	61.1	17.91	25.28	12.28	5.2	21.5	18.58	14.17	61.89	8.78	7.72	10.94
BS100LCA4P	54.8	61.1	17.91	25.28	12.28	5.98	21.5	18.58	14.17	65.43	8.78	7.72	11.06
Liftchain® Hydraulic Series													
BS50LCH2P	38.42	48.82	14.57	19.68	9.45	3.82	17.56	10.43	14.05	50.9	11.73	5.39	7.48
BS75LCH3P	46.06	61.1	17.91	25.28	12.28	5.2	19.68	14.64	14.17	61.89	11.73	5.39	10.94
BS100LCH4P	54.8	61.1	17.91	25.28	12.28	5.98	19.68	14.64	14.17	65.43	11.73	5.39	11.06

Dimensions (inches)													
Model No.	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Liftchain® Air Series													
BS50LCA2P	10.87	8.66	3.23	6.3	7.87	1.89	2.68	-	2.28	17.16	-	13.35	19.68
BS75LCA3P	11.73	10.63	4.05	8.86	10.71	2.2	3.15	-	2.28	19.45	-	15.12	23.54
BS100LCA4P	11.73	10.63	4.65	8.86	10.71	2.2	3.15	-	2.28	19.45	-	15.12	23.54
Liftchain® Hydraulic Series													
BS50LCH2P	10.87	8.66	3.23	6.3	7.87	1.89	2.68	-	2.28	17.16	-	13.35	19.68
BS75LCH3P	11.73	10.63	4.05	8.86	10.71	2.2	3.15	-	2.28	19.45	-	15.12	23.54
BS100LCH4P	11.73	10.63	4.65	8.86	10.71	2.2	3.15	-	2.28	19.45	-	15.12	23.54

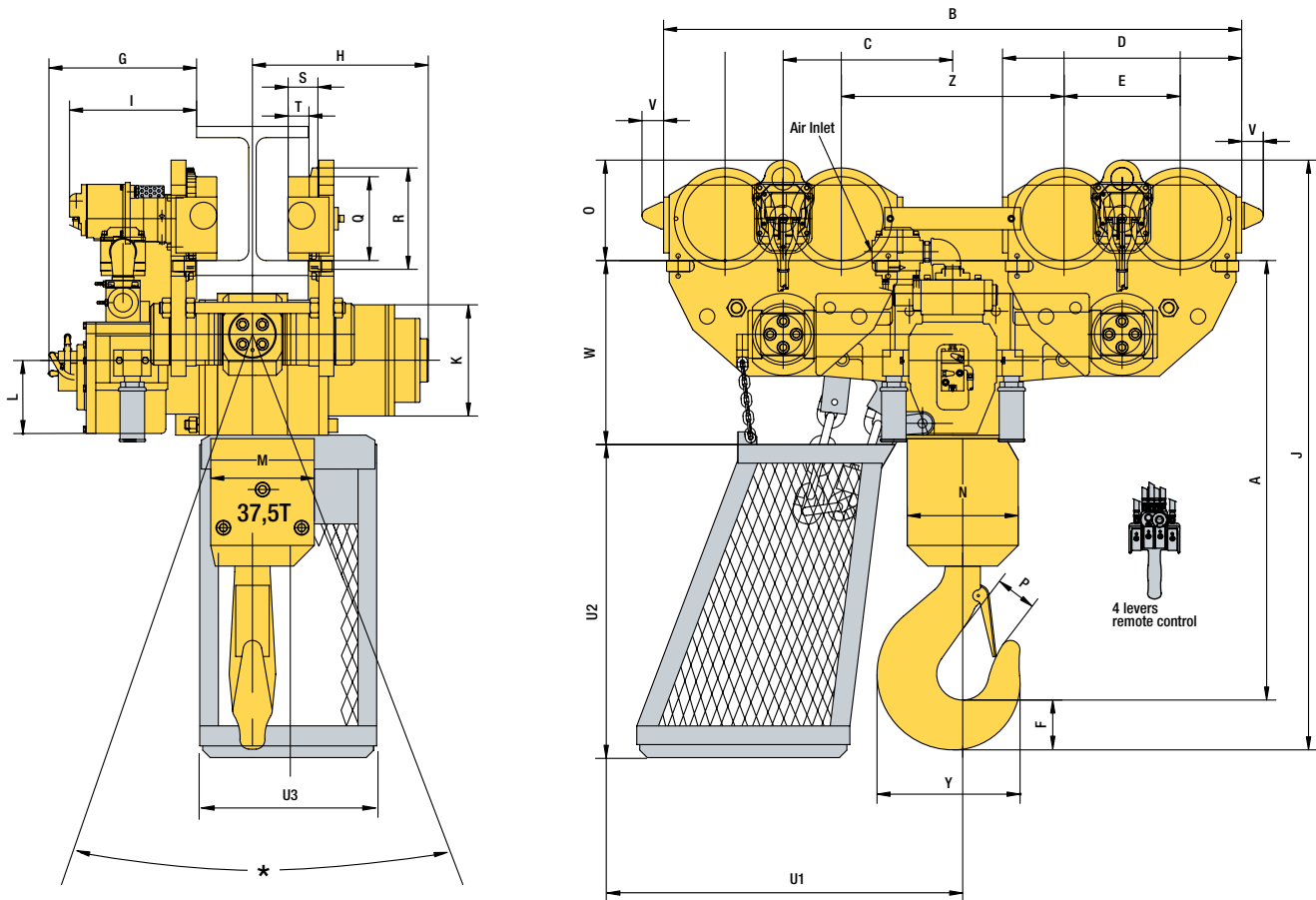
Liftchain® Air and Hydraulic BOP Handling Systems

DIMENSIONS AND DRAWINGS – 25 to 200 tons Lifting Capacity

Chain Container Dimensions for 9m (30 ft) standard lift (1) – millimeters (inches)			
Model No.	U1	U2	U3
BS50LC_2P	850 (33.46)	840 (33.07)	800 (31.50)
BS75LC_3P	955 (37.60)	1055 (41.54)	800 (31.50)
BS100LC_4P	955 (37.60)	1055 (41.54)	800 (31.50)

(1) Chain containers are available with many other dimensions. Please contact Client Services for details.

BS50LC_2 - BS75LC_3 - BS100LC_4 series



Notes:

Dimensions are approximate and subject to change, please contact factory for certified prints.
Allow ± 2% on all dimensions.

(*) Contact Client Services for specifications.

Liftchain® Air and Hydraulic BOP Handling Systems

DIMENSIONS AND DRAWINGS – 25 to 200 tons Lifting Capacity

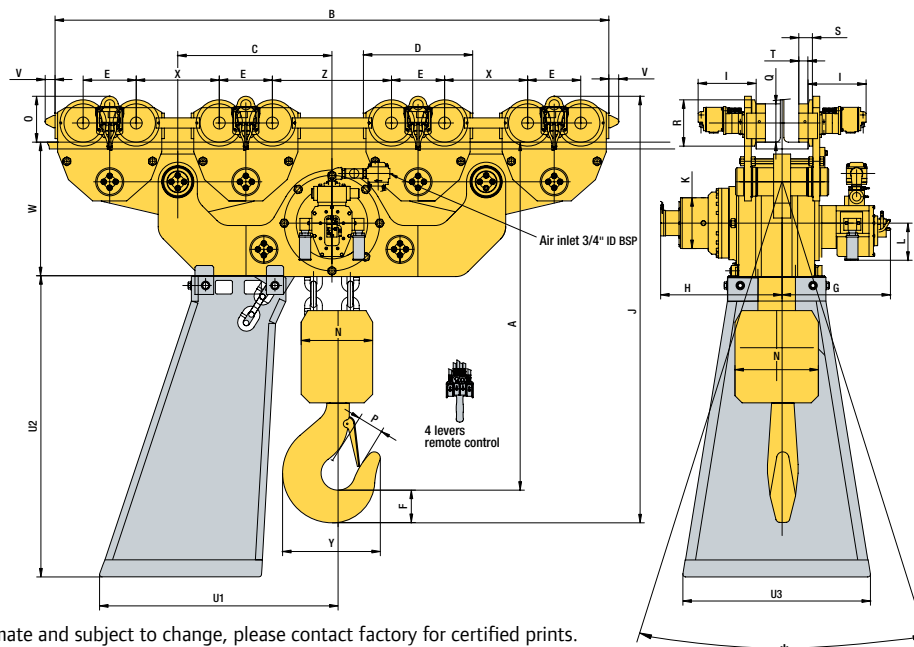
Dimensions – millimeters (inches)													
Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
Liftchain® Air Series													
BS150LCA3P	1845 (73)	3254 (128)	906 (36)	642 (25)	312 (12)	190 (7)	714 (28)	714 (28)	360 (14)	2305 (91)	298 (12)	196 (8)	490 (19)
BS200LCA4P	1901 (75)	3254 (128)	906 (36)	642 (25)	312 (12)	212 (8)	714 (28)	714 (28)	360 (14)	2383 (94)	298 (12)	196 (8)	430 (17)
Liftchain® Hydraulic Series													
BS150LCH3P	1845 (73)	3254 (128)	906 (36)	642 (25)	312 (12)	190 (7)	528 (21)	684 (27)	360 (14)	2305 (91)	298 (12)	199 (8)	490 (20)
BS200LCH4P	1901 (75)	3254 (128)	906 (36)	642 (25)	312 (12)	212 (8)	528 (21)	684 (27)	360 (14)	2383 (94)	298 (12)	199 (8)	430 (17)

Dimensions – millimeters (inches)													
Model No.	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Liftchain® Air Series													
BS150LCA3P	420 (17)	270 (11)	152 (6)	225 (9)	272 (11)	56 (2)	80 (3)	-	58 (2)	790 (31)	-	574 (23)	700 (28)
BS200LCA4P	490 (19)	270 (11)	180 (7)	225 (9)	272 (11)	56 (2)	80 (3)	-	58 (2)	790 (31)	-	606 (24)	700 (28)
Liftchain® Hydraulic Series													
BS150LCH3P	420 (17)	270 (11)	152 (6)	225 (9)	272 (11)	56 (2)	80 (3)	-	58 (2)	790 (31)	488 (19)	574 (23)	700 (28)
BS200LCH4P	490 (19)	270 (11)	180 (7)	225 (9)	272 (11)	56 (2)	80 (3)	-	58 (2)	790 (31)	488 (19)	606 (24)	700 (28)

Chain Container Dimensions for 9m (30 ft) standard lift ⁽¹⁾ – millimeters (inches)			
Model No.	U1	U2	U3
BS150LC_3P	1200 (47.24)	1200 (47.24)	920 (36.22)
BS200LC_4P	1200 (47.24)	1200 (47.24)	920 (36.22)

(1) Chain containers are available with many other dimensions. Please contact Client Services for details.

BS150LC_3 - BS200LC_4 series



Notes:

Dimensions are approximate and subject to change, please contact factory for certified prints. Allow $\pm 2\%$ on all dimensions.

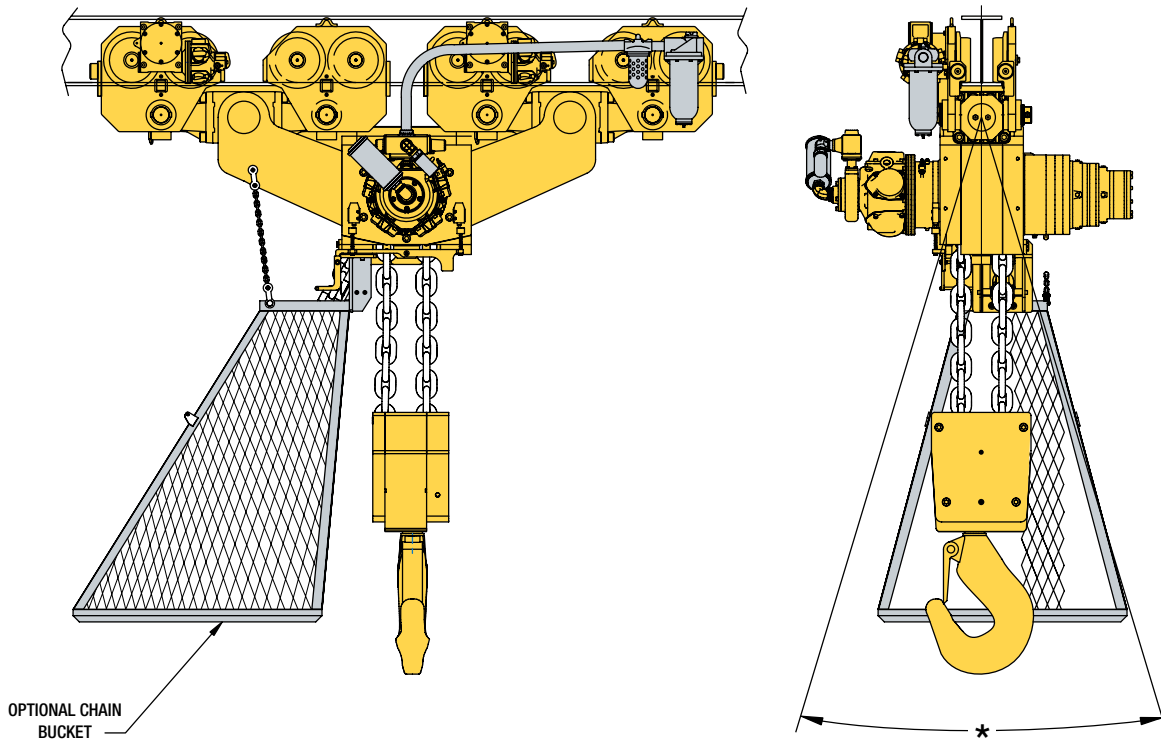
(*) Contact Client Services for specifications.

BOP Handling Systems

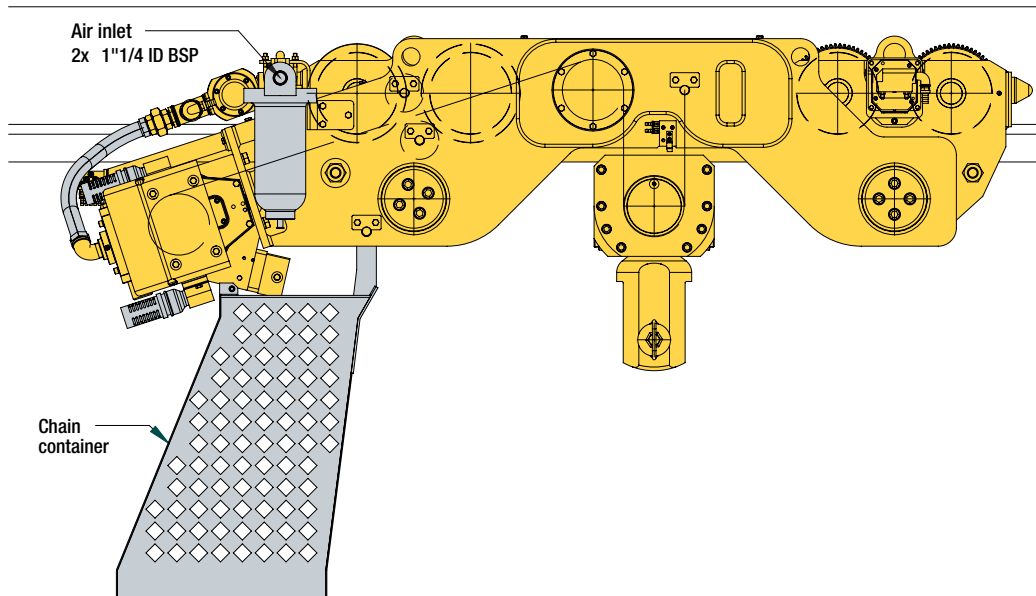
ENGINEERED SOLUTIONS

For further information, technical support, or a quotation on one of our engineered BOP handling systems, please contact Client Services.

BHS150M and BHS200M series



ULBHS100LCA4 series (Ultra-low headroom design)



Office and distributors in principal cities throughout the world. Contact the nearest Ingersoll Rand office for the name and address of the distributor in your country or write to: Ingersoll Rand, 20017 72nd Avenue South, Kent, WA 98032 USA.

United States Regional Sales Office

For Order Entry and Order Status: Ingersoll Rand Customer Care

Phone: 866-207-6923 (Toll Free)
Or 800-IR-HOIST
Fax: 615-874-2525

For Technical Support: Client Services

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Ingersoll Rand SEA Pte. Ltd.

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China Ingersoll Rand Co.

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Shanghai, 200051, P.R.C.
Phone: 86-21-2208 1580
Fax: 86-21-6237 1993

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