BACK COUNTRY DRIVING SCHOOL

HI-LIFT JACK

REFERENCE GUIDE

Excerpts from:

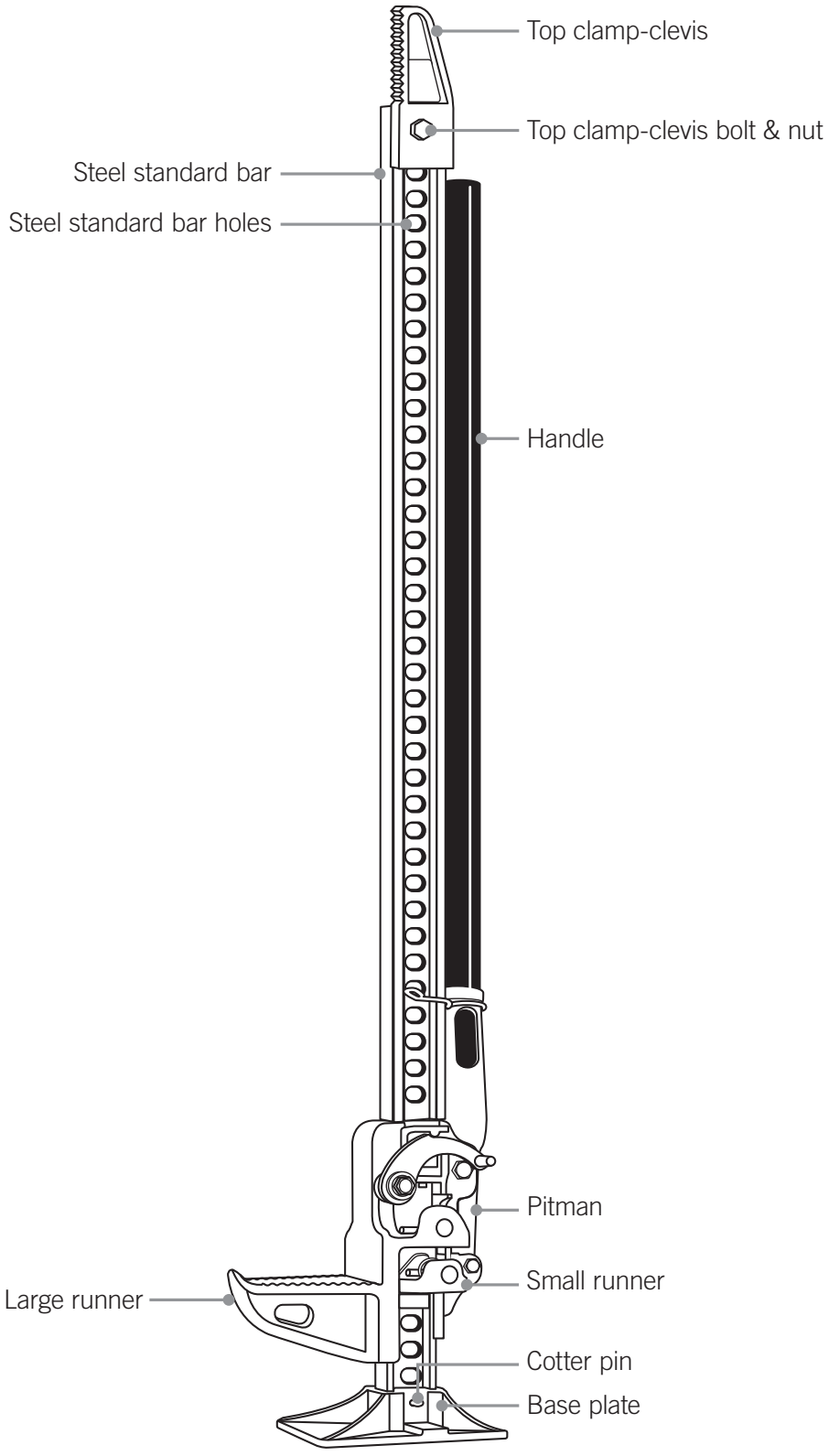
Hi-Lift®

Hi-Lift Jack Company

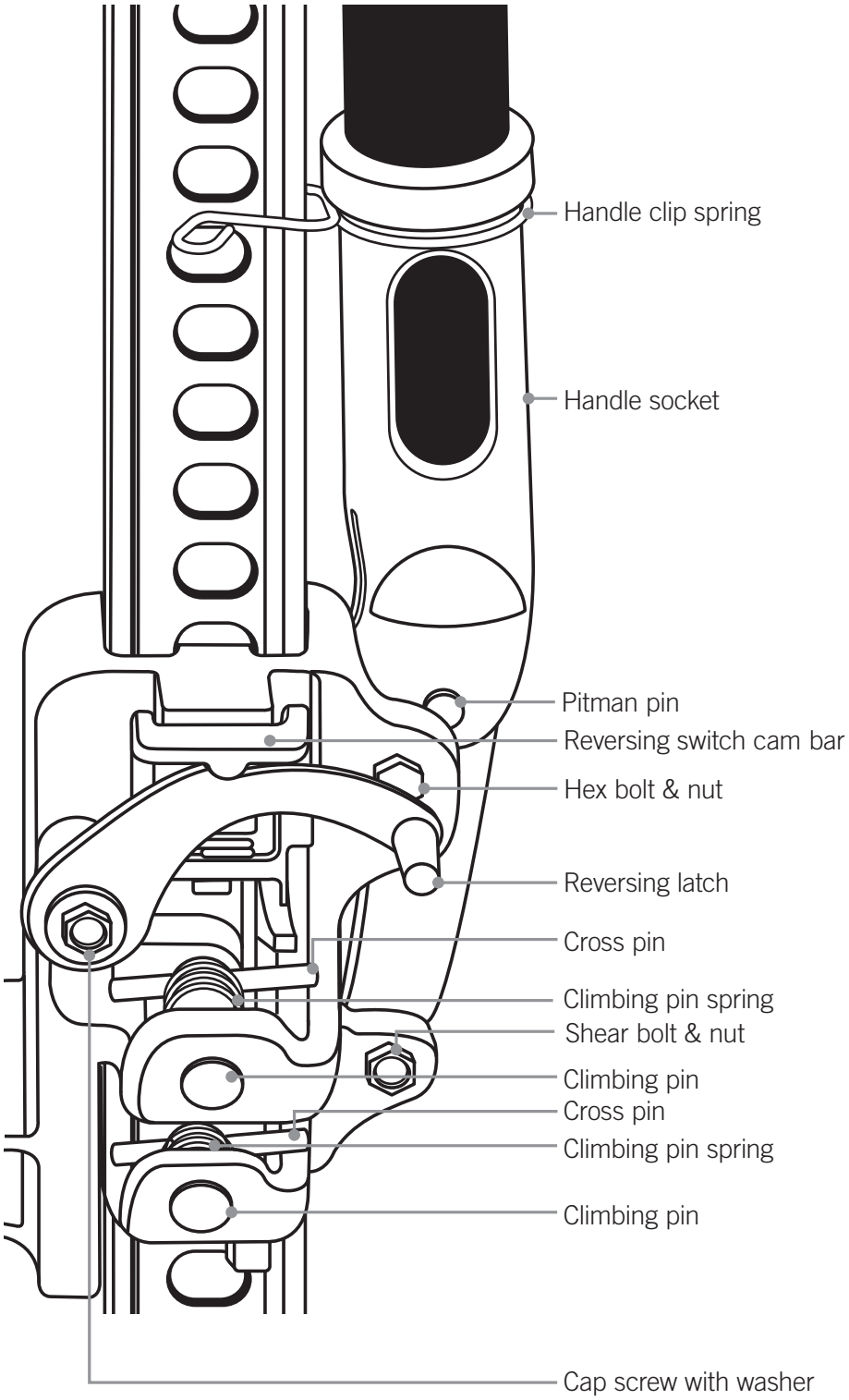
P.O. Box 228
Bloomfield, IN 47424-0228 USA

Hi-Lift Jack Components

Get to know the components of your jack before you begin use.



The following shows the parts associated with the running gear:



Safety Warnings

⚠ DANGER

DO NOT USE THE JACK TO SUPPORT OR STABILIZE A LOAD. Using the jack to support or stabilize a load may result in unexpected movement and result in serious injury, being crushed and death. Always securely chock and block (stabilize) the load to be lifted. Never place any part of the body under a raised load without properly chocking and supporting the load.

Using the jack on curved or tubular vehicle bumpers will result in the vehicle slipping off the jack and falling, causing serious injury or death. Use the Bumper Lift or Lift-Mate to lift most vehicles with curved bumpers or plastic bumpers.

When using the jack as a winch:

Always use chains or tow straps that have a greater working load than the jack. If a chain or tow strap breaks while winching, the load could shift or the chain or tow strap could snap back.

When used as a winch, the top clamp-clevis will support up to 5,000 lbs. (2273 kg). Going over this limit will result in the top clamp-clevis bending or breaking, causing the load to move or the chain or tow strap to snap back. This will result in serious injury or death.

When using the jack for clamping, the maximum clamping force of the standard top clamp-clevis is 750 lbs. (340 kg). If you exceed this limit, the standard top clamp-clevis could bend or break, resulting in serious injury or death.

Unexpected movement of the jack handle may result in the user being struck causing serious injury or death. Always keep your head away from and out of the jack handle path of movement.

The jack handle may move rapidly when moving the reversing latch and cause serious injury or death. Always place the handle against the steel standard bar with the handle clip spring holding it up before moving the reversing latch. This will prevent the handle from moving up and down rapidly. Securely hold on to the jack handle so your hands do not slip and ensure the handle is not in the horizontal position when moving the reversing latch.

Important! During lifting and lowering, the weight of the load pushes ***up*** against the jack's handle. If your hands slip off the handle, or if the handle is horizontal when you move the reversing latch, it may move up very quickly.

Raising an inflated tire more than 2" (5cm) above the ground or attempting to lift more than one wheel at a time may result in tip over, unexpected movement and serious injury or death. Always raise an inflated tire less than 2" (5cm) and only one tire at a time.

⚠ WARNING

The jack, while standing vertical and unsupported, may tip over and cause serious injury or death. Always support the jack or lay it on it's side when not in use.

This jack will not operate safely without proper lubrication. Using the jack without proper lubrication will result in poor performance and damage to the jack. The jack is not self-lubricating, inspect the jack before use and lubricate when necessary.

Operation Instructions

Raising a Stationary Load

⚠ DANGER

DO NOT USE THE JACK TO SUPPORT OR STABILIZE A LOAD. Using the jack to support or stabilize a load may result in unexpected movement and result in serious injury, being crushed and death. Always securely chock and block (stabilize) the load to be lifted. Never place any part of the body under a raised load without properly chocking and supporting the load.

Using the jack on curved or tubular vehicle bumpers will result in the vehicle slipping off the jack and falling, causing serious injury or death. Use the Bumper Lift or Lift-Mate to lift most vehicles with curved bumpers or plastic bumpers.

Unexpected movement of the jack handle may result in the user being struck causing serious injury or death. Always keep your head away from and out of the jack handle path of movement.

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Important! During lifting and lowering, the weight of the load pushes ***up*** against the jack's handle. If your hands slip off the handle, or if the handle is horizontal when you move the reversing latch, it may move up very quickly.

Raising an inflated tire more than 2" (5cm) above the ground or attempting to lift more than one wheel at a time may result in tip over, unexpected movement and serious injury or death. Always raise an inflated tire less than 2" (5cm) and only one tire at a time.

Handle force required to raise 4,660 lbs. is 177 lbs. at 34" on the handle. Maximum rated load is 4,660 lbs. (2273 kg) up to 48" (121 cm), tested to 7,000 lbs. (3175 kg). Upper 12" of 60" jack is rated to 2,660 lbs. (1209 kg) only, tested to 4,000 lbs. (1818 kg).

If you overload the jack during operation, the shear bolt will break. If the shear bolt breaks, as it will at 7,000 lbs. (3175 kg), the load should be supported, but the jack's handle will drop freely. Use a jack with a larger load capacity to lower the load safely to the ground. Do not replace the shear bolt with a bolt of greater strength as this could cause the jack to fail and drop the load. Always use a shear bolt supplied by Hi-Lift Jack Company. Do not replace the shear bolt while the jack is under load.

Clamping or Winching

⚠ DANGER

When using the jack as a winch:

Always use chains or tow straps that have a greater working load than the jack. If a chain or tow strap breaks while winching, the load could shift or the chain or tow strap could snap back.

When used as a winch, the top clamp-clevis will support up to 5,000 lbs. (2273 kg). Going over this limit will result in the top clamp-clevis bending or breaking, causing the load to move or the chain or tow strap to snap back. This will result in serious injury or death.

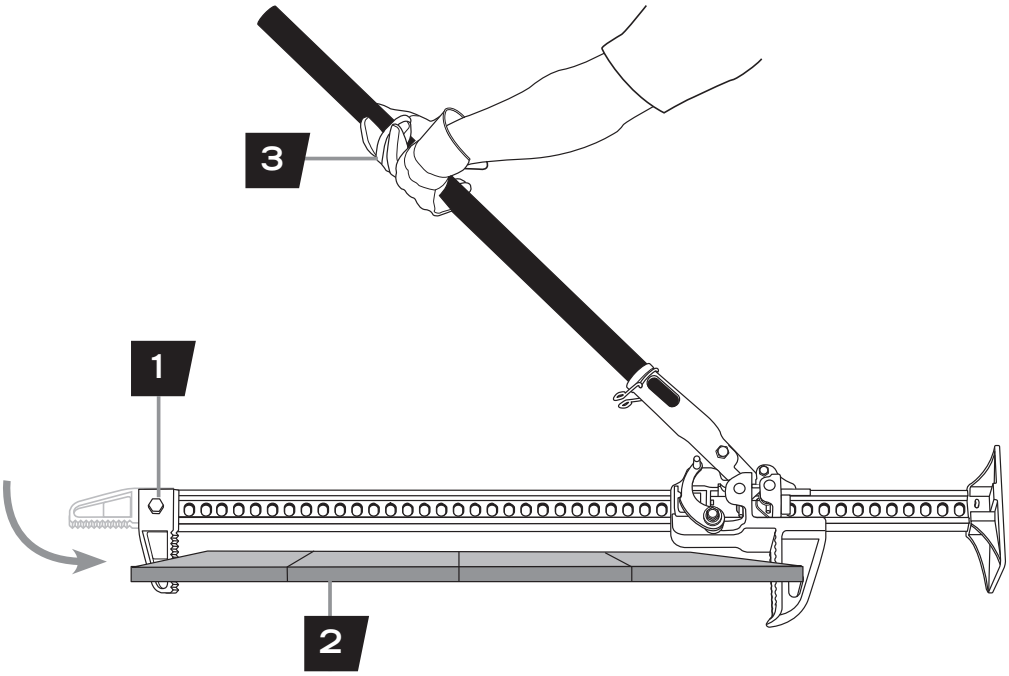
When using the jack for clamping, the maximum clamping force of the standard top clamp-clevis is 750 lbs. (340 kg). If you exceed this limit, the standard top clamp-clevis could bend or break, resulting in serious injury or death.

Clamping

1. Loosen the standard top clamp-clevis bolt.
2. Turn the top clamp-clevis 90° to the steel standard bar, and re-tighten the bolt.

Note: You can connect the top clamp-clevis anywhere along the steel standard bar to use the jack as a clamp.

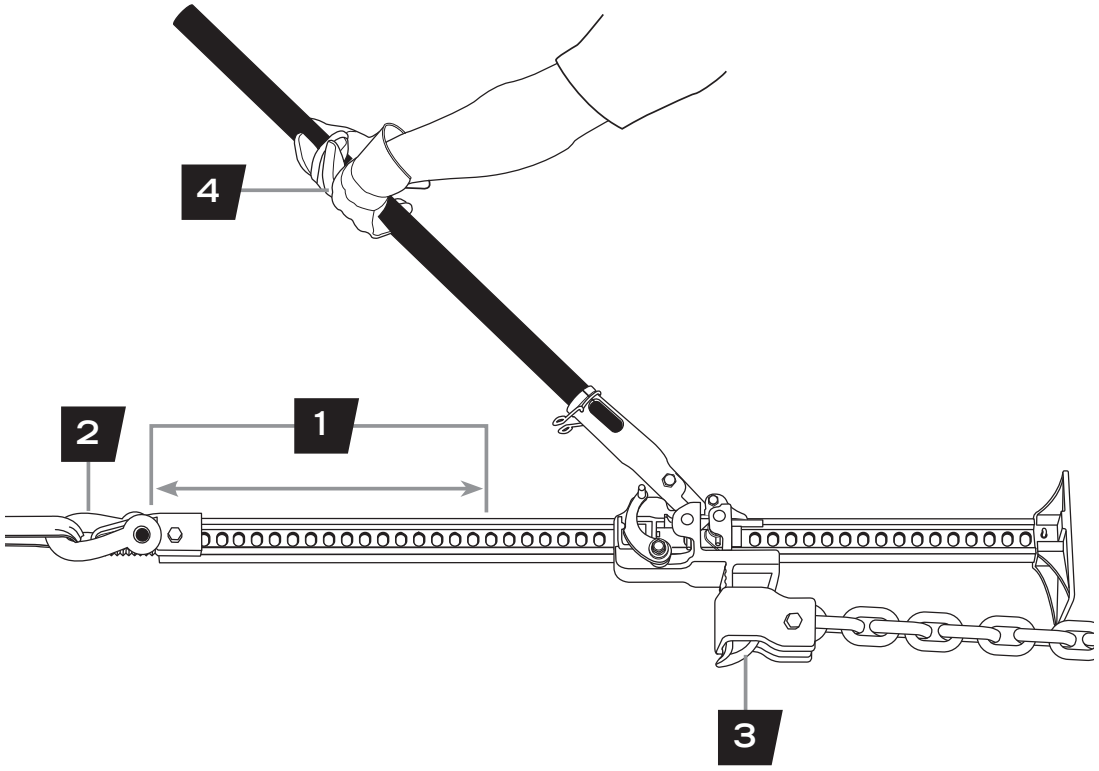
3. Operate the jack as you would for raising a load (see *Raising a Stationary Load*).



Winching

1. Make sure the top clamp-clevis is in line with the steel standard bar.
2. Install one end of a chain or tow strap securely to the object to be winched. Securely attach the other end of the chain or tow strap to the top clamp-clevis of the jack.

   Note: Use a shackle if the chain or tow strap will not fit through the top clamp-clevis of the jack.
3. Take another chain or tow strap and secure one end to a fixed, stable object. Attach the other end of the chain or tow strap to the large runner on the jack (do not attach chain or shackle to bottom hole of the large runner on the jack). If the fixed object is a tree, follow “Tread Lightly” principles and use a tree strap.
4. Operate the jack as you would for raising a load (See Raising a Stationary Load).

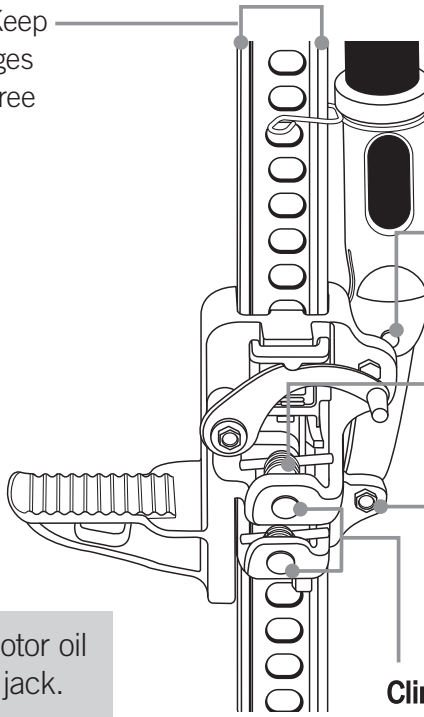


Tip: Use the Hi-Lift Off-Road Kit for items you need for winching which includes; custom winch attachments, D-ring shackle, gloves and a tree strap.

Lubrication

⚠ WARNING

Using the jack without proper lubrication will result in poor performance and damage to the jack. The jack is not self-lubricating, inspect the jack before use and lubricate when necessary. After cleaning, lubricate the jack using light penetrating oil, or a silicon or Teflon spray at the following points:



Steel Standard Bar: Keep the front and back edges lightly lubricated and free from dirt and rust.

Pitman Pin: Damage to the handle socket will occur if not lubricated

Springs: Keep clean and lubricated and free from dirt and rust.

Shear Bolt: Wear to the bolt will occur if not lubricated

Climbing Pins: Keep clean and lubricated and free from dirt and rust

Important! Do not use motor oil or grease to lubricate the jack.

Repair

If you need to repair your jack, use only genuine Hi-Lift parts. Using parts not supplied by Hi-Lift® Jack Company will make the jack unsafe for use and void the warranty. Hi-Lift® will repair a damaged jack. Pack the jack in a carton and send prepaid to the address below:

Hi-Lift® Jack Company
Factory Service Department
46 West Spring Street
Bloomfield, Indiana 47424

The repaired jack will be returned to you via USPS, UPS or Fed Ex.

Specifications

		36" Cast/Steel	42" Cast	42" Cast/Steel	48" Cast
Weight	lbs	25.02	27.78	26.35	28.16
	kg	11.35	12.60	11.95	12.77
Width	in	5	5	5	5
	cm	12.70	12.70	12.70	12.70
Height	in	41	46	43.5	50.75
	cm	104.14	116.84	110.49	128.91
Depth	in	9.63	9.63	9.63	9.63
	cm	24.46	24.46	24.46	24.46
Rated Load	lbs	4,660	4,660	4,660	4,660
	kg	2113.74	2113.74	2113.74	2113.74
Rated Load Upper 12"	lbs	N/A	N/A	N/A	N/A
	kg	N/A	N/A	N/A	N/A
Tested Load	lbs	7,000	7,000	7,000	7,000
	kg	3175.14	3175.14	3175.14	3175.14
Tested Load Upper 12"	lbs	N/A	N/A	N/A	N/A
	kg	N/A	N/A	N/A	N/A
Rated Side Load	lbs	N/A	N/A	N/A	N/A
	kg	N/A	N/A	N/A	N/A
Clamping	lbs	750	750	750	750
	kg	340.19	340.19	340.19	340.19
Winching	lbs	5,000	5,000	5,000	5,000
	kg	2267.96	2267.96	2267.96	2267.96
Max. Lift height at Nose	lbs	27	34	32	38.63
	cm	68.58	86.36	81.28	98.12
Min. Lift height at Nose	lbs	4.5	4.5	4.5	4.5
	cm	11.43	11.43	11.43	11.43
Lift Height at Side	lbs	N/A	N/A	N/A	N/A
	cm	N/A	N/A	N/A	N/A
Lift Point at Side	lbs	N/A	N/A	N/A	N/A
	cm	N/A	N/A	N/A	N/A

		48" Cast/Steel	60" Cast	60" Cast/Steel	EJ Cast/Steel
Weight	lbs	27.66	31.31	30.12	25.72
	kg	12.55	14.20	13.66	11.67
Width	in	5	5	5	6.13
	cm	12.70	12.70	12.70	15.56
Height	in	48.75	61.75	59.25	36
	cm	123.83	156.85	150.50	91.44
Depth	in	9.63	9.63	9.63	9.63
	cm	24.46	24.46	24.46	24.46
Rated Load	lbs	4,660	4,660	4,660	4,660
	kg	2113.74	2113.74	2113.74	2113.74
Rated Load Upper 12"	lbs	N/A	2,660	2,660	N/A
	kg	N/A	1206.55	1206.55	N/A
Tested Load	lbs	7,000	7,000	7,000	7,000
	kg	3175.14	3175.14	3175.14	3175.14
Tested Load Upper 12"	lbs	N/A	4,000	4,000	N/A
	kg	N/A	1814.37	1814.37	N/A
Rated Side Load	lbs	N/A	N/A	N/A	2,000
	kg	N/A	N/A	N/A	907.18
Clamping	lbs	750	750	750	750
	kg	340.19	340.19	340.19	340.19
Winching	lbs	5,000	5,000	5,000	5,000
	kg	2267.96	2267.96	2267.96	2267.96
Max. Lift height at Nose	lbs	37.24	49.75	48.25	21.13
	cm	94.59	126.37	122.56	53.67
Min. Lift height at Nose	lbs	4.5	4.5	4.5	4.5
	cm	11.43	11.43	11.43	11.43
Lift Height at Side:	lbs	N/A	N/A	N/A	23.75
	cm	N/A	N/A	N/A	60.33
Lift Point at Side	lbs	N/A	N/A	N/A	7
	cm	N/A	N/A	N/A	17.78