Rig-Release® Remote Releasing Hooks

Manual and Remote Control Units

In-Stock

Caldwell's patented Rig-Release hook is a safe and simple way to release rigging remotely, protecting workers on the job site and making lifts more efficient. You just hook the unit to your crane or spreader beam, then attach the sling(s) directly to the Rig-Release, which is designed so that it cannot release the rigging while under load when used according to operating instructions. The crane operator lifts the load, sets it, and once the crane line is slack, pulls the release rope manually or via remote control.

Product Features for Manual and Remote-Controlled Units:

- Designed for rugged, outdoor use
- Easy to use—simply rig, lift, set, and release
- Lock & Capture feature engages with very little load weight (see Minimum Load in charts)
- Oversized bail for easy mounting on crane hook
- 5-, 10-, and 15-ton units have a fixed bail
- Designed and manufactured to ASME standards

See the Manual Unit on pages 56-57

See the Remote Controlled Unit on pages 58-59

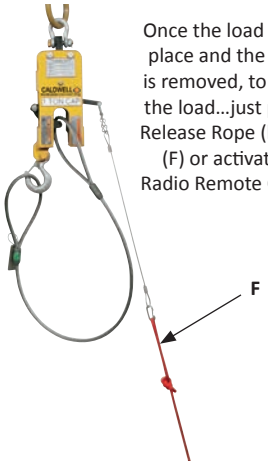
WARNING

Lifting at less than minimum load can result in injury or death.

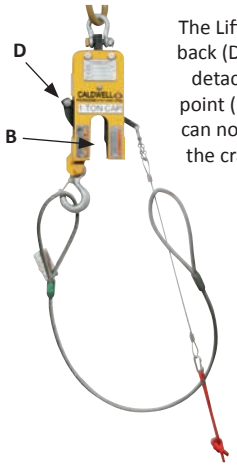
Chart data is based upon the minimum number of springs.

See How It Works

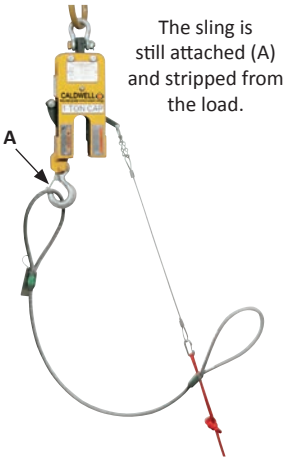
HOW IT WORKS



Once the load is set in place and the weight is removed, to release the load...just pull the Release Rope (lanyard) (F) or activate the Radio Remote Control.



The Lift Arm pulls back (D), the sling detaches from point (B) and you can now raise up the crane hook.



The sling is still attached (A) and stripped from the load.

All of this is accomplished safely and efficiently from a safe distance.

Frequently Asked Questions About Rig-Release®

Work faster and safer on your next challenging job and release your rigging remotely.

1. Can the load be released accidentally?
When used properly, the Rig-Release® cannot be accidentally released under load.

2. Why can't the Rig-Release® Hook be released under load?
Once a load is applied to the Rig-Release® Hook, its Inner Body Assembly sets into a "LOCK & CAPTURE" position and cannot be released.

3. Do I still have to unhook the rigging from the load?
No. By design, a properly rigged Rig-Release® Remote Releasing Hook removes the rigging from the set load when the crane hook is raised up.

4. Does the released rigging fall to the ground?
No. A properly rigged Rig-Release® Hook has one end of the rigging attached to it at ALL TIMES.

5. Why is a wire rope sling attached to the Rig-Release® Hook in TWO places?
One end is for its release from the Rig-Release® Hook and the other end holds the rigging so that it can be stripped from the load and not fall to the ground.

6. Why does the Rig-Release® Hook have a minimum capacity?
IIn order for the safety "LOCK & CAPTURE" mechanism to work, you must be lifting at least the minimum stated capacity on the Rig-Release® Hook being used.

7. Where can I get the Rig-Release® Hook inspected or serviced?
Only at the factory in Rockford, Illinois.

8. Can I choke loads and use the Rig-Release® Hook?
Yes, a catch sling is required in addition to the load sling. Refer to page 61 for details.

9. Can I pick up a load at full rated capacity using only the strip sling hook on the Rig-Release® Hook?
Yes, the Rig-Release® Hook is designed to support the full rated capacity from either attachment point.

10. Can I use it with all types of slings?
It is recommended that you only use wire rope slings of the proper ratingand capacity with the Rig-Release® Hook. A nylon sling or chain could be used if they have an oblong attached to them. Consult factory for details.

Model RR

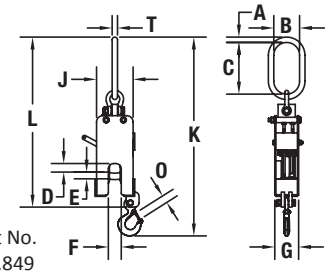
Manual Rig-Release® Hook

In-Stock

Product & Safety Features:

- Cost-effective option for safer rig releasing
- Rope guide allows rigging to be released when hook is either above or beside the operator
- If hook is located below the operator, please ask about the Upward Pull option
- Rated load capacity can be lifted from either lift arm or the lower strib sling hook
- Do not exceed capacity on hook
- When the minimum load is applied, the inner body assembly sits in the Lock & Capture position and cannot be released
- Inner body assembly only allows slings to release when the load line is slack
- Release rope has built-in breakaway chain to prevent damage to the inner body assembly
- Additional springs can be added to accommodate heavier sling weights

MODEL RR



Patent No. 7,380,849

Model Number	Rated Cap. (tons)	Dimensions (inches)												Weight (lbs.)
		D	E	F	G	J	K	L	O	A	B	C	T	
RR-1	1	1.15	0.75	1.25	2.77	4.25	23.10	19.75	0.89	0.63	3.00	6.00	0.63	14
RR-2.5	2.5	1.75	1.00	1.50	4.25	9.56	31.67	26.88	1.09	0.63	3.00	6.00	0.63	45
RR-5	5	1.83	1.50	1.50	5.00	11.13	36.40	30.75	1.36	2.00	4.00	7.00	1.25	110
RR-10	10	2.25	1.75	2.00	6.31	11.00	41.16	32.13	2.08	2.00	4.00	7.00	1.25	200
RR-15	15	3.00	2.50	2.50	6.31	15.00	49.25	39.25	2.27	2.50	5.00	9.00	1.50	325

In Stock - Items with green model numbers ship in 48 hours, excluding weekends and holidays.

Model Number	Rated Capacity (tons)	*Minimum Load (lbs.)		Rigging		
				Recommended Lifting Slings	**Maximum Allowable Rigging Weight (lbs.)	
		Basket	Choker	Rope Dia. (inches)	Basket	Choker
RR-1	1	30	15	3/8	14	7
RR-2.5	2.5	80	40	5/8	28	14
RR-5	5	230	115	7/8	60	30
RR-10	10	230	115	1-1/4	100	50
RR-15	15	400	200	1-1/2	100	50

***If minimum load weight is not met, safety mechanism will not engage into the LOCK & CAPTURE position.**
****If maximum allowable rigging weight is exceeded, unit will remain in the lock & Capture position and cannot be released.**
If the maximum allowable rigging weight needs to be increased, additional springs can be added. Refer to the Instruction Manual.

Model RR Q&A

Q If the rope gets hung up on the manual/rope lanyard controlled unit, will it release the load?

A No, the rope has a breakaway chain that will yield and break if excessive force is applied. This protects the Rig-Release® from severe damage. Even if the breakaway chain was removed, no amount of force on the rope will allow the hook to release under load.

Q If the rope breaks, how do I release the load?

A You would have to do this manually, by going up and releasing the rigging and bringing the Rig-Release® Hook to the ground for proper repair.

Q What are the advantages of the Manual Unit when compared to the Remote-Controlled Unit?

A The Manual Unit performs the same job as the Remote Controlled Unit at a more affordable cost. Plus, you never have to worry about losing the remote or a battery dying on the job site at an inconvenient time.

Use the Rig-Release(R) Hook to set vertical columns (shown here), to handleshort-span trusses (one at a time or in a bundle), or to set long-span trusses (when using two Rig-Release® Hooks and a spreader beam).

Model RR-R

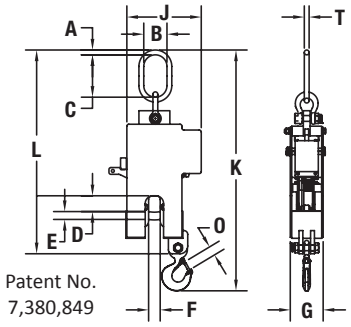
Remote-Controlled Rig-Release® Hook

In-Stock

Product & Safety Features:

- Includes two 12 VDC 0.8 Amp Hr. sealed, maintenance-free, lead acid batteries (rechargeable)
- Includes one charger and one vehicle adapter for standard 12 VDC vehicle outlets
- 8-hour battery life, depending on frequency of operation
- Minimum required cycle time is 1 to 2 minutes between releases
- Radio-activated solenoid is mechanically blocked when the unit is under load, preventing load release
- Two-step, two-button activation (release) sequence prevents inadvertent release signal
- Transmitter times out in 10 seconds, preventing inadvertent release of rigging
- Built-in safety features allow multiple hooks to be used on the same job site
- Range up to 400 feet with clear line of site

MODEL RR-R



Patent No. 7,380,849

Model Number	Rated Cap. (tons)	Dimensions (inches)												Weight (lbs.)
		D	E	F	G	J	K	L	O	A	B	C	T	
RR-2.5R	2.5	1.75	1.00	1.50	4.25	9.56	31.15	26.88	1.09	0.63	3.00	6.00	0.63	50
RR-5R	5	1.83	1.50	1.50	5.00	11.13	36.40	30.75	1.36	2.00	4.00	7.00	1.25	115

In Stock - Items with green model numbers ship in 48 hours, excluding weekends and holidays.

Model Number	Rated Capacity (tons)	*Minimum Load (lbs.)		Rigging		
				Recommended Lifting Slings	**Maximum Allowable Rigging Weight (lbs.)	
		Basket	Choker	Rope Dia. (inches)	Basket	Choker
RR-2.5R	2.5	80	40	5/8	28	14
RR-5R	5	250	125	7/8	60	30

***If minimum load weight is not met, safety mechanism will not engage into the LOCK & CAPTURE position.**
****If maximum allowable rigging weight is exceeded, unit will remain in the lock & Capture position and cannot be released.**

Model RR-R Q&A

Q What is the range or distance of the Radio Remote Control (Transmitter)?

A The Rig-Release® Hook will work up to 400 feet with a clear line of sight. Field conditions, type of rigging used, weather, and battery charge can also affect performance.

Q If I accidentally push the "release" button on the transmitter, what happens?

A Nothing! To activate the Rig-Release® Hooks releasing mechanism, two buttons need to be pushed in the proper sequence. The first button is the "ARM" button and the second is the "RELEASE" button. They must be pushed in this order.

Q If I accidentally push the "Arm" button and then accidentally push the "Release" button, can I accidentally disconnect the rigging?

A The two-button release procedure sequence is timed. Once the "ARM" button is pushed, you have only 10 seconds to push the "RELEASE" button. After 10 seconds, the transmitter is timed out and you must start the release sequence from the beginning.

Q If both buttons were accidentally pushed in the right order and within 10 seconds would the load release?

A When properly loaded, the Rig-Release® Hook is in the "LOCK & CAPTURE" position and the Lift Arm and Mechanical Release Button are physically blocked and cannot open.

Q Are there different frequencies for different hooks?

A All standard Radio Controlled Rig-Release® Hooks work on the same frequency which is 418 MHz*. This allows for the controlled release of multiple Rig-Release® Hooks using a single transmitter. Refer to Instruction Manual.

*Alternative frequencies available. Refer to page 62.

Q How long does the battery last?

A Generally a battery will hold its charge for an 8-hour shift, but it depends upon the lifting cycle. All Radio Controlled Rig-Release® Hooks come with two rechargeable batteries.

Q What is included with the Radio Controlled Rig-Release® Hook?

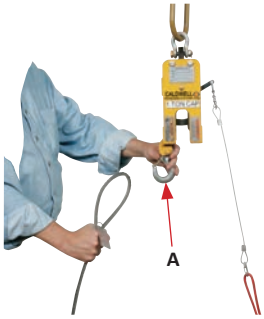
A
- Two rechargeable 12VDC batteries
- One transmitter
- One 110V battery charger
- One 12V vehicle charger adapter

How to Rig a Basket Hitch with a Rig-Release® Remote Releasing Hook

STEP 1

Hang the Rig-Release® Hook from your crane hook. Manual unit shown.

STEP 2



Attach load sling to the Strip Sling Hook (A).

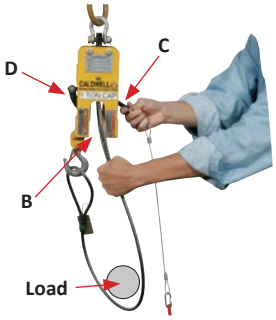
STEP 3

Make sure the load sling is securely in place.

STEP 4

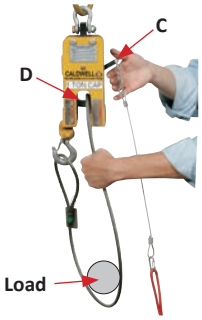
Wrap the sling around the load using a basket hitch.

STEP 5



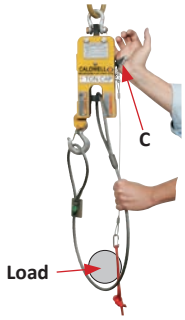
Pull Lever Arm (C) down to unlock Lift Arm (D),* insert other end of the load sling into open Sling Release Point (B).

STEP 6



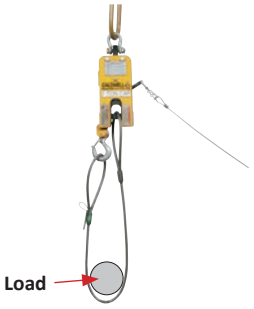
Push Lever Arm (C) up to engage the Lift Arm (D). Ensure that Lever Arm (C) is fully up.

STEP 7



Ensure that Lever Arm (C) is fully up.

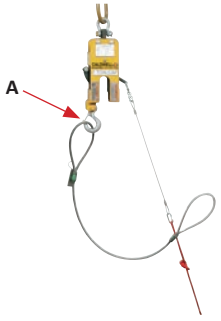
STEP 8



YOU ARE NOW READY TO SAFELY LIFT THE LOAD. This view shows a properly configured Rig-Release® Hook using a basket hitch.

Releasing The Rig-Release® Hook

Once the load is set and the crane line is slack, the Inner Body Assembly can travel up.

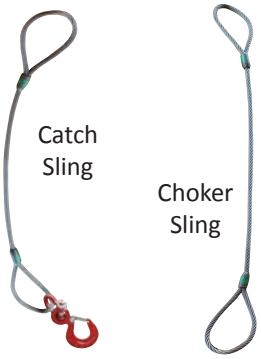


Now releasing can be accomplished by pulling on a rope lanyard (Manual Units) or pushing a button (Radio Controlled Units).

One end of the wire rope will release and one stays attached to the unit.

How to Rig a Choker Hitch with a Rig-Release® Remote Releasing Hook

Requirements For Choker Hitch



STEP 1

Hang the Rig-Release® Hook from your crane hook.

STEP 2

Attach catch sling to the Strip Sling Hook (A).

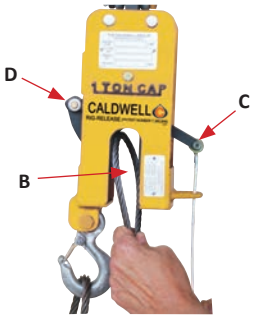
STEP 3

Make sure the catch sling is securely in place.

STEP 4

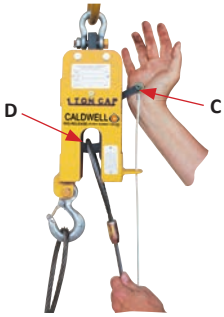
Choke the load with a separate choker sling. Attach the hook end of the catch sling to the lower eye of the choker sling.

STEP 5



Pull Lever Arm (C) down to unlock Lift Arm (D),* insert other end of the choker sling into open Sling Release Point (B).

STEP 6



Push Lever Arm (C) up to engage the Lift Arm (D). Ensure that Lever Arm (C) is fully up.

STEP 7

Make sure that the choker sling carries the load and that the catch sling has line slack. YOU ARE NOW READY TO SAFELY LIFT THE LOAD. This view shows a properly configured Rig-Release® Hook in a choker hitch.

Rig-Release® Options

Corrosive Environments

Protective Coating: The body of the Rig-Release® Hook can be coated with zinc dichromate for additonal corrosion resistance. This opAon is available on all models and capacities.

Multiple Radio Controlled Units

Alternative Frequencies: Standard Radio Controlled Rig-Release® Hooks work on a 418 MHz frequency. Alternative frequencies are available. Please consult factory.

Alternative Addresses: We can set each unit to have different addresses. Each Rig-Release® would be controlled by its own transmitter, allowing each to be released at different times.

Crane Station Control

Hardwired Operating System: We replace the Radio / Battery System with a conventional AC power and control system. The system is no longer dependent upon battery power.

Remote Radio Transmitter for Push Button Control: We can set each unit to have different addresses. Each The Radio Transmitter is provided with a 3'L pigtail and hook-and-loop mounting strips. Wire the transmitter pigtail to two open push buttons and mount the transmitter with a clear line of sight to the Rig-Release® Hook. You can now control the Rig-Release® from your pendant.

Custom Designs

Upward Pull: The Upward Pull design is used for applications when the hook is below the operator and an upward pull of the rope lanyard is required.

Direct Connect: We remove the strip sling hook and lug so the Rig-Release® can be attached directly to the load without the use of slings. Available on all models and capacities. Refer to dimensional drawings for clearance.

ORDERING INSTRUCTIONS

To request a price quotation on your specific application, please fill in the Rig-Release® Application Evaluation on page 65 or online at **www.caldwellinc.com/applications**.

Direct Connect Option

Protective Coating & Upward Pull Options

Custom Designed Direct Connect With Self-Guiding Sleeve

Model RR-EC

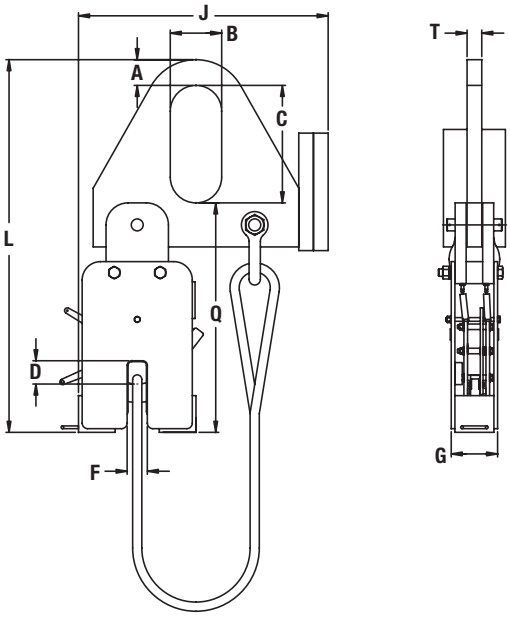
Extended Capacity Rig-Release® - Basket Hitch

When you need even more lifting power, the Extended Capacity Rig-Release® Hook is ready to go. Choose from a 10-ton Remote Controlled unit or a 20- or 30-ton Manual Unit for the big jobs.

Product Features:

- For basket hitch only
- Designed for rugged outdoor use
- 20- and 30-ton capacity manual release units
- 10-ton capacity radio controlled release units
- Easy to use - simply rig, lift, set and release
- Oversized bail for easy mounting on crane hook
- Counterbalanced to hang level
- Designed and manufactured to ASME standards

MODEL RR-EC



WARNING

Rig-Release® unit must always be used with lifting bail.
Rated capacity can NOT be solely supported from lift arm or hook.
The basket sling MUST be used to lift the rated capacity.

Extended Capacity Manual Release

Model Number	Rated Cap. (tons)	Dimensions (inches)						Bail Dimensions (inches)				Weight (lbs.)
		D	F	G	J	L	Q	A	B	C	T	
RR-20-EC	20	2.25	2.12	6.30	30.81	38.00	26.50	2.50	5.00	9.00	1.50	425
RR-30-EC	30	3.00	2.75	6.30	34.00	50.75	31.25	3.50	7.00	16.00	2.00	675

Extended Capacity Radio Controlled Release

Model Number	Rated Cap. (tons)	Dimensions (inches)						Bail Dimensions (inches)				Weight (lbs.)
		D	F	G	J	L	Q	A	B	C	T	
RR-10R-EC	10	1.83	1.50	5.00	30.31	31.00	22.00	2.00	4.00	7.00	1.25	275

See the Rig-Release® Hook In Action

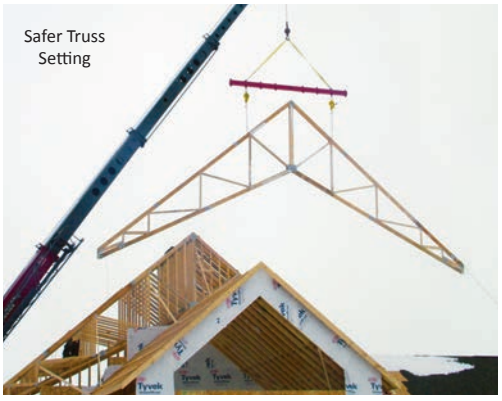
If you can lift it with a sling, then you can set the load and release it remotely. The Rig-Release® Remote-Releasing Hook lets you operate more safely and more efficiently.


Sequential Release of Multiple Units

Four Units on Bio-Hazard Load


Multi-Unit Configurations


Tower Construction


Safer Truss Setting

Application Evaluation

LOAD INFORMATION:

Description: _____

Weight: _____

Dimensions _____

Length: _____ Width: _____ Height: _____

Provide a drawing or detailed written description to indicate where the attachment points are on the load: _____

_____

_____

_____

_____

Work Area Conditions: ❑ Outside ❑ Inside ❑ Welding Area ❑ Corrosive

HOOK INFORMATION:

Hook Style Required: ❑ Manual Release ❑ Radio Controlled Release

Do you need rigging included with the load release hook? ❑ Yes ❑ No

OPTIONS REQUIRED:

Corrosive Environments: ❑ Protective Coating

Multiple Radio Controlled Units: ❑ Alternative Frequencies ❑ Alternative Addresses

Crane Station Control: ❑ Hardwired Operating System

❑ Remote Radio Transmitter for Push Button Control

Custom Designs: ❑ Upward Pull ❑ Direct Connect

Additional application information or option requirements: _____

_____

_____

_____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at **www.caldwellinc.com/applications.**

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

EMail: _____