

Lifting Tongs



The Caldwell Group

General Information:

Caldwell Lifting Tongs are available in standard configurations to fit many common applications. However, not all lifting challenges will be solved with a standard tong. Caldwell has the experienced team that can create a custom designed lifting tong to fit the specifications provided. All custom Caldwell Lifting tongs are designed to comply with ASME standards.



Lifting tongs are available in three configurations.

1. **FRICTION** – Grab arms conform to load surface with outside diameter supported below center of load for additional holding advantage.

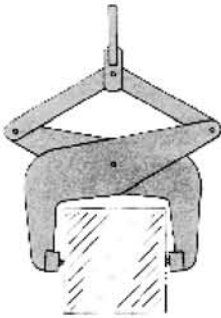
Designed to lift such products as rolls, tubes, and other cylindrical materials. Standard models are shown on page F.24 of our Rig-Master® section.



2. **INDENTATION** – Grab arms grip vertical sides of straight sided materials. Custom grip pads are required to have sufficient coefficient of friction between material lifted and grip pads. Grip pads may be rubber, steel, belting, points and other.

Designed to lift such products as bales, boxes, ingots, and other straight sided materials.

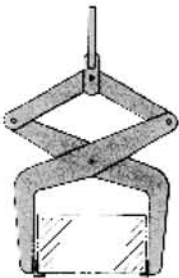
Standard models for bales are shown on page A.59, slab tongs are shown on page F.11 of our Rig-Master® section.



3. **SUPPORTING** – Grab arms have feet to support underneath load. Designed to handle constant sizes of material to maintain a horizontal plane on the lifting feet. Dunnage under material required to insert/remove feet of tong.

Designed to lift constant sized boxes, containers, crates, and other constant sized square shaped material.

Standard models for dies are shown on page A.61.



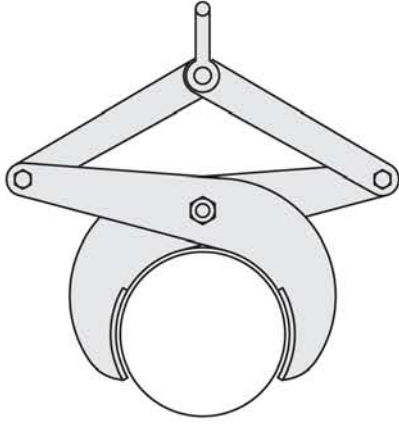
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Lifting Tongs

Application Ideas for Custom Friction Tongs...

to lift rolls, tubes and cylindrical materials



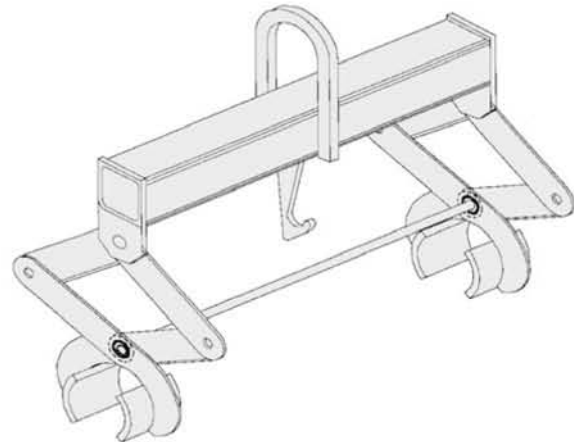
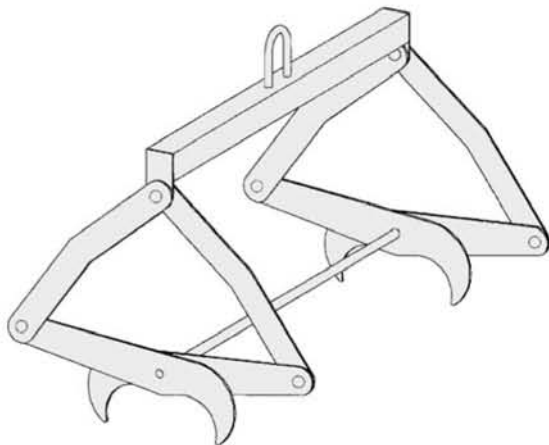
Pipe Tongs

For our standard 108 Pipe Tongs, please see our Rig-Master® section, page F.24.

The Single Gripping Tong is used to lift cylindrical objects that are short in length such as large diameter round bar, tube or rolls of material.

We have integrated both a manual latch or the Auto-Latch mechanism into this family of tongs. The selection of the latch is dependant on the application.

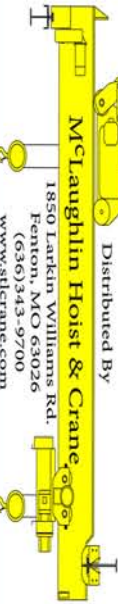
The Dual Gripping Tong system supports and stabilizes longer, larger loads. The large contoured pads distribute the force applied to the load over a larger surface area. Optional pad linings, nylon or rubber pads protect the load from damage. This is ideal when handling rolls of fabric or polyethylene film.



This Dual Gripping Tong system will support and stabilize longer, larger loads that can sustain the force of the entire load on a smaller surface area. When the narrow gripping arms engage the item, significant pressure will be applied. Ideal for handling bundles of steel that are round in shape.



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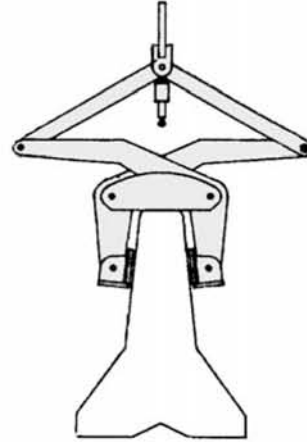
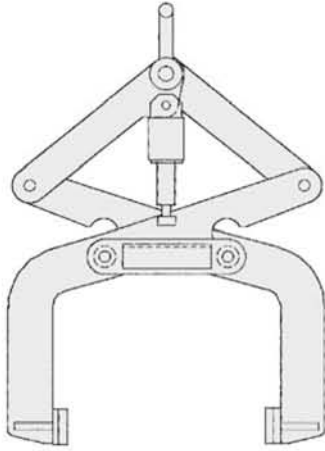
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Lifting Tongs

Application Ideas for Indentation Tongs...

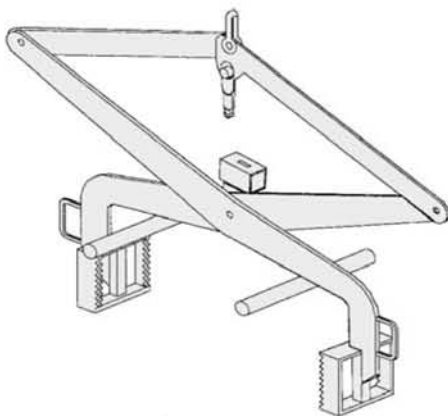
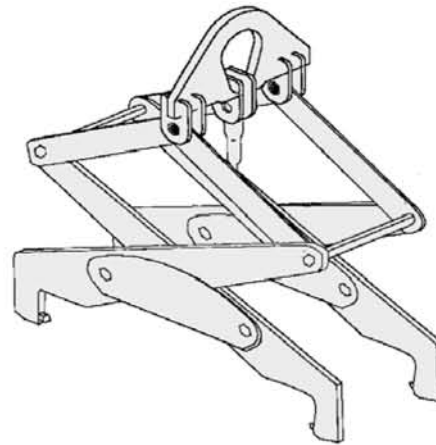
to lift bales, boxes, ingots, and other straight sided materials



Barrier Tongs

For our standard 74 Barrier Grab, please see our Rig-Master® section, pages F.4 - F.5.

PRESSURE TONGS can be used to lift objects that have sufficient structure and density that they will not be damaged by the application of significant lateral force. An example of this is concrete highway barriers and steel ingots.



They can also be used in situations where the lifted item can accommodate a gripping action that may indent the sides of the load. Cotton and cardboard bales are a good example of loads that can be lifted with a PRESSURE TONG even though they are not rigid.



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Lifting Tongs

Standard Indentation Type

Model 77 - Bale Lifting Tongs



PRODUCT FEATURES:

- Lifts bales of paper, cotton, and other materials.
- Wide gripping surface for load stability.
- Includes Auto-Latch mechanism for one person operation.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Rated Capacity (tons)	Bail Width (in.)	Unit Height Loaded (in.)	Pad Dimensions (in.)		Weight (lbs.)
				Width	Height	
77-1/2-36	1/2	36	52	18	9	280
77-1/2-48	1/2	48	56	18	9	300
77-1-36	1	36	52	18	9	280
77-1-48	1	48	56	18	9	300



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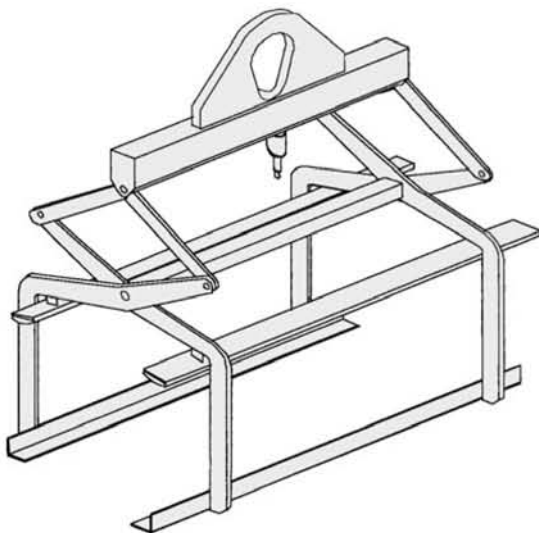
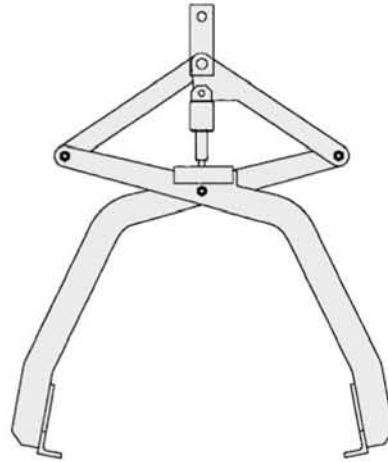
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Lifting Tongs

Application Ideas for Supporting Tongs...

to lift constant sized boxes, containers and crates

This SUPPORT TONG is used for constant sized containers. It has an arm design that allows significant height on the lifted item and includes an Auto-Latch mechanism for single person control. This Auto-Latch allows the operator to position, engage, lift, move, place and disengage the lifted item without assistance from another individual or without moving from the crane/hoist control station.



This SUPPORT TONG is also used for constant sized containers. It has the Auto-Latch and added length to handle longer loads. The top guide stops simplify the auto-engagement and single operator use.



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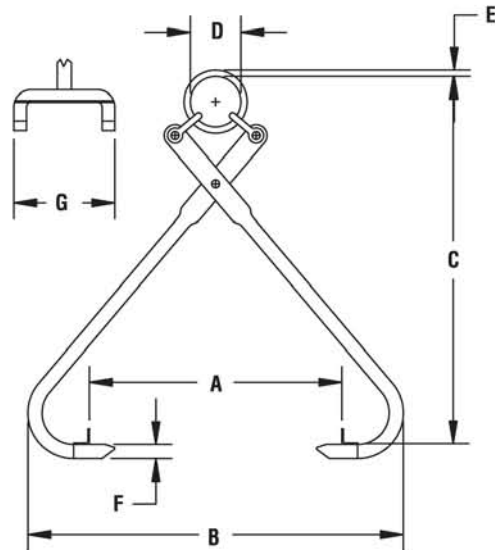
Standard Support Type

Model DLT - Die Lifting Tongs



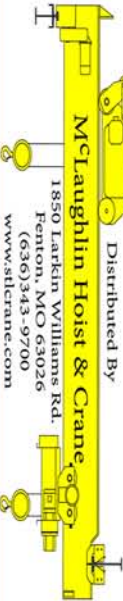
PRODUCT FEATURES:

- Broad capacity range.
- Low headroom design.
- Painted safety red.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Capacity (lbs.)	Dimensions (inches)								Weight (lbs.)
		Max. A	B	C	D	E	F	G	H	
DLT-1-20	2000	20	29 3/4	29	4	5/8	1	8	7	29
DLT-1 1/4-28	2500	28	40 1/4	39	5	3/4	1 1/4	8	9 1/2	52
DLT-1 1/2-38	3000	38	51 3/4	47 1/2	6	7/8	1 1/2	10	10 3/4	86



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Tongs - Application Evaluation

LOAD INFORMATION - FRICTION TONGS

Minimum: O.D. _____ I.D. _____ Height _____ Weight _____

Maximum: O.D. _____ I.D. _____ Height _____ Weight _____

Describe product/material being lifted: _____

Please describe how product is resting (Ex. On a flat surface, in a rack, etc.): _____

LOAD INFORMATION - INDENTATION/SUPPORTING TONGS

Minimum: Width _____ Length _____ Height _____ Weight _____

Maximum: Width _____ Length _____ Height _____ Weight _____

Describe product/material being lifted: _____

Will the tongs lift making contact to the width or length side? _____

ADDITIONAL INFORMATION - ALL TYPES

Does the load need to be protected from lifter damage? Yes No

Is an Auto-Latch desired? _____

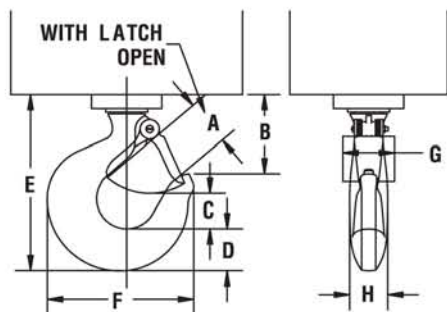
Please provide duty cycle of lifter (lifts per hour and hours per day used): _____

Please provide Crane Classification (A, B, C, D, E, F): _____

Please use the space below to provide additional application information or options required.

For example: headroom issues and space or lifter restrictions. _____

CRANE HOOK DATA:



INCHES

A _____ +0
 B _____ +0
 C _____ +0
 D _____ -0
 E _____ -0
 F _____ +/-
 G _____ -0
 H _____ -0

Measurement Tolerances

+0 = Measurement should be no larger but can be smaller than actual.
 -0 = Measurement should be no smaller but can be larger than actual.
 +/- = Measurement can be larger or smaller than actual.

A.62

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

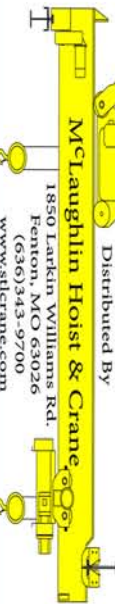
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