



LIFTING TONGS

SECTION



OVERVIEW OF LIFTING TONGS

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



FRICTION TONGS

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.



INDENTATION TONGS

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.



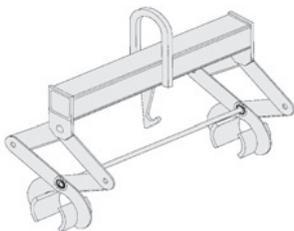
SUPPORTING TONGS

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.

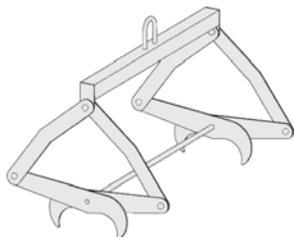


CUSTOM FRICTION TONGS

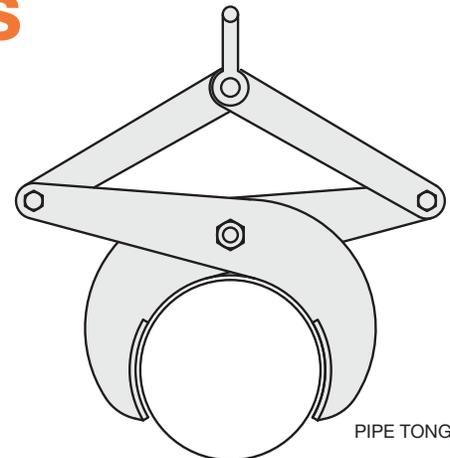
APPLICATION IDEAS FOR CUSTOM FRICTION TONGS TO LIFT ROLLS, TUBES AND CYLINDRICAL MATERIALS



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.



PIPE TONGS

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.

BLT BALE LIFTING TONGS STANDARD INDENTATION TYPE

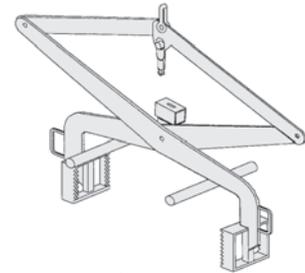
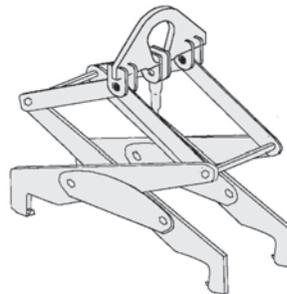
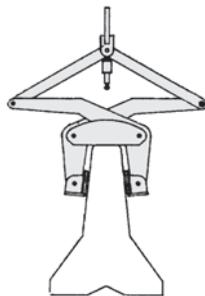
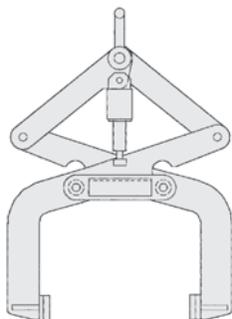
PRODUCT FEATURES

- 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

APPLICATION IDEAS FOR INDENTATION TONGS TO LIFT BALES, BOXES, INGOTS & OTHER STRAIGHT-SIDED MATERIALS

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 lifting concrete highway barriers and steel ingots by using Barrier Tongs.

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.



SPECIFICATIONS

Model Number	Rated Capacity (tons)	Bail Width (in.)	Unit Height Loaded (in.)	Pad Dimensions (in.)		Weight (lbs.)
				Width	Height	
BLT100036	1/2	36	52	18	9	280
BLT100048	1/2	48	56	18	9	300
BLT136	1	36	52	18	9	280
BLT148	1	48	56	18	9	300

DT DIE LIFTING TONGS STANDARD SUPPORT TYPE

PRODUCT FEATURES

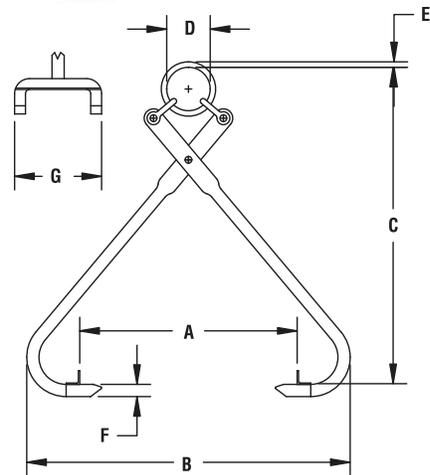
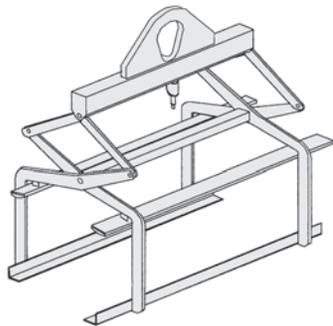
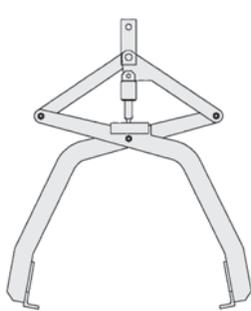
- Broad capacity range.
- Low headroom design.
- Painted safety red.
- Complies with ASME standards.

APPLICATION IDEAS FOR SUPPORTING TONGS

TO LIFT CONSTANT SIZED BOXES,
CONTAINERS AND CRATES

SUPPORT TONGS are 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.

Support Tongs are also available with the Auto-Latch and added length to handle longer loads. The top guide stops simplify the auto-engagement and single operator use.



SPECIFICATIONS

Model Number	Capacity (lbs.)	Dimensions (inches)								Weight (lbs.)
		Max. A	B	C	D	E	F	G	H	
DT120	2000	20	29 3/4	29	4	5/8	1	8	7	29
DT12528	2500	28	40 1/4	39	5	3/4	1 1/4	8	9 1/2	52
DT1538	3000	38	51 3/4	47 1/2	6	7/8	1 1/2	10	10 3/4	86

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

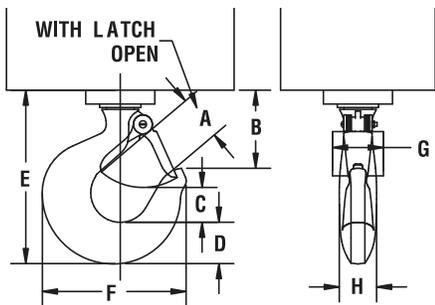
Is an Auto-Latch desired? _____

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

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

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.

CARE & USE

Below-The-Hook Lifters by CM Cady have been designed for specific tasks to withstand the particular forces imposed. Guidelines for installation, inspection, maintenance and repair, safe operation and operator training of these lifters follow:

INSTALLATION

Below Hook Lifters shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. When lifter/auxiliary power supply is required, user inspection shall ensure that the power source complies with ANSI/NFPA 70, National Electrical Code and shall include a power disconnect switch as required in accordance with ANSI/NFPA 70 based on the lifters requirements. If electrical connections are made, the power supply and corresponding power disconnects shall be connected to the line side (power supply side) of the crane disconnect or to an independent circuit as specified in the manufacturer's instruction manual.

Check for correct rotation of all pumps and power units, lubrication of moving parts, and filling of reservoirs, all in accordance with manufacturer's instructions.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's instruction manual, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines. Training shall also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability

INSPECTION

The lifter shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the lifter and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating lifter.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing nameplates and markings. Contact CM Cady for replacements.

MAINTENANCE & REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

MODIFICATIONS OR REPAIRS PERFORMED ON YOUR LIFTING EQUIPMENT WITHOUT PRIOR WRITTEN APPROVAL FROM **CM CADY** VOIDS YOUR WARRANTY. REFER TO ASME STANDARDS FOR INFORMATION REGARDING THE LIABILITY OF REPAIRED OR MODIFIED LIFTERS.

CARE & USE

OPERATING PRACTICES

DO's

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the lifter is performing properly during the lifting procedure.
3. The operator shall know the standard crane hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the lifter before using. Any defect observed shall be examined by a qualified person to determine if it is a hazard.

DON'Ts

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or product safety labels are missing or are no longer legible.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
3. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
4. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
5. The lifter shall not touch obstructions during load movement.
6. The lifter shall not be loaded with loose material that might fall during movement.
7. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
8. The load or lifter shall not be slid on the floor or other surface.
9. The lifter shall not be used for loads for which it is not designed.
10. If suspended loads are moved manually, they shall be pushed, not pulled.
11. A preliminary lift of a few inches shall be made to establish that the load is stable.
12. All loads shall be accelerated and decelerated smoothly and slowly.

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