

Downs crane & hoist co. inc.

mechanical engineers

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since 1922

Items in regular demand are carried in stock for immediate shipment. We also maintain large stocks of rough and semi-finished parts from which we can quickly assemble equipment to meet those special or unusual conditions which are constantly arising in this field.

CRANES and HOISTS may be purchased complete, ready for operation.

CRANE and HOIST parts and fittings may be purchased separately; the purchaser to furnish his own design and structural material for completing the equipment.

TONGS, GRABS, SPREADER BARS and HOOKS - We have standard designs for most applications in industry today. Nearly any standard design may be modified to your unique requirements. Lifters may be equipped with full automatic latches, or supplied power operated. When inquiring specify capacity desired.

Descriptive bulletins and catalogs available.

We have engineering and shop facilities for special machine design, heavy machine work, weldments and plate work.

DOWNSCRANE & HOIST CO. — Designers and Manufacturers of HOISTING, RIGGING and LIFTING MACHINERY since 1922. We have designed successful equipment to handle weights from a few pounds up to loads exceeding 1500 TONS per lift.

SOLD BY

DOWN'S CRANE & HOIST CO., INC.

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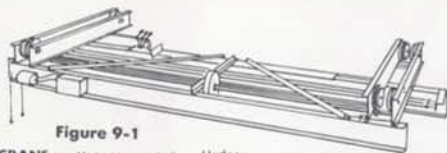


Figure 9-1

CRANE — Motor operated — Underhung — Single & double girder — Double or multiple trucks — Roller brg. — Wheels to fit any type runway beam — Cap. to 10 ton.

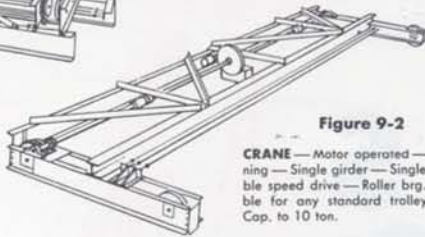


Figure 9-2

CRANE — Motor operated — Top running — Single girder — Single or variable speed drive — Roller brg. — Suitable for any standard trolley hoist — Cap. to 10 ton.



Figure 9-3

CRANE — Hand operated — Underhung — Single girder — Geared wheels and pendant hand chain — Roller brg. — Cap. to 10 ton — Also hand push and double girder types.

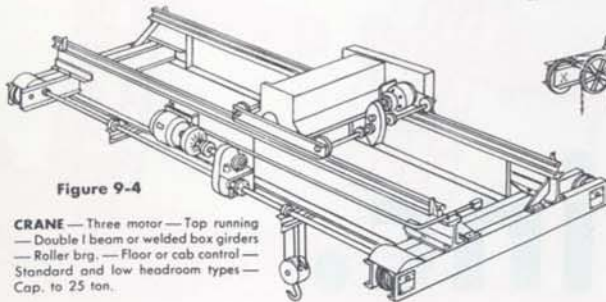


Figure 9-4

CRANE — Three motor — Top running — Double I beam or welded box girders — Roller brg. — Floor or cab control — Standard and low headroom types — Cap. to 25 ton.

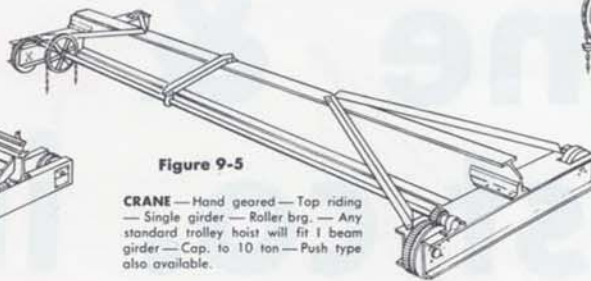


Figure 9-5

CRANE — Hand geared — Top riding — Single girder — Roller brg. — Any standard trolley hoist will fit I beam girder — Cap. to 10 ton — Push type also available.

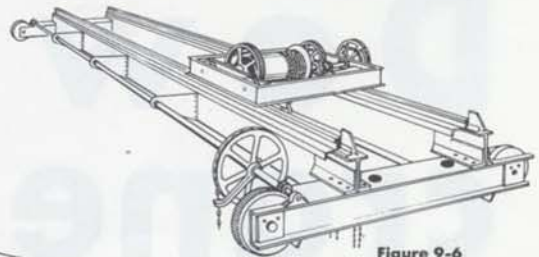


Figure 9-6

CRANE — Hand operated — Top riding — Double girder — For standby service where a heavy duty crane must be constantly available for an occasional lift — To 25 ton cap.

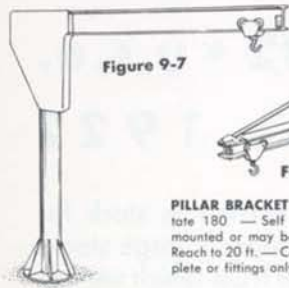


Figure 9-7

PILLAR BRACKET JIB CRANE — Rotate 180° — Self supporting — Base mounted or may be set in concrete — Reach to 20 ft. — Cap. to 3 ton — Complete or fittings only.

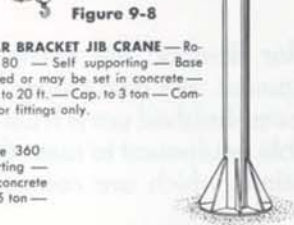


Figure 9-8

PILLAR JIB CRANE — Rotate 360° — Roller brg. — Self supporting — Base mounted or may be set in concrete — Reach to 20 ft. and cap. to 5 ton — Complete or fittings only.

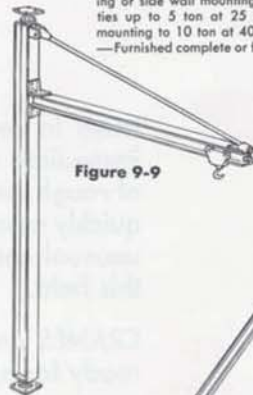


Figure 9-9

POST JIB CRANE — Ball and socket lower fittings — Upper fittings for ceiling or side wall mounting — Capacities up to 5 ton at 25 feet — Guy mounting to 10 ton at 40 foot reach — Furnished complete or fittings only.

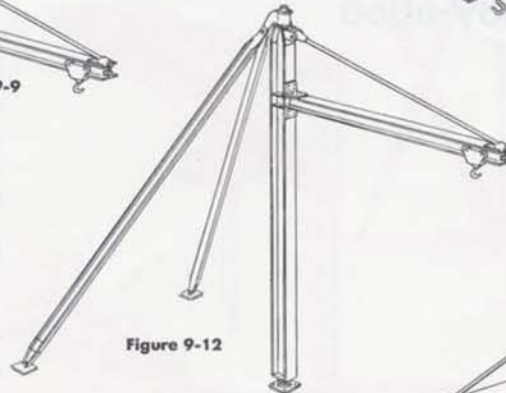


Figure 9-12

POST JIB CRANE — Stifle mount — Ball and socket lower fitting — Gooseneck upper fitting — Pin connected stiffligs — Reach to 40 feet — Capacities to 10 ton — Complete or fittings only.



Figure 9-10

WALL BRACKET JIB CRANE — High lift type — Mount on any wall or column — Steel ftgs. — Plain brg. — Reach to 15 ft. — Cap. to 2 ton — Complete or ftgs. only.

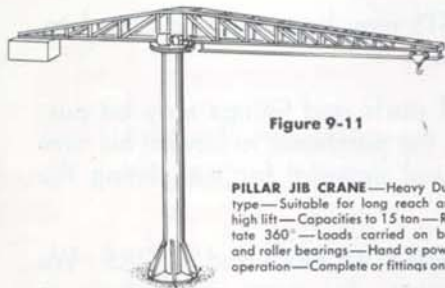


Figure 9-11

PILLAR JIB CRANE — Heavy Duty type — Suitable for long reach and high lift — Capacities to 15 ton — Rotate 360° — Loads carried on ball and roller bearings — Hand or power operation — Complete or fittings only.

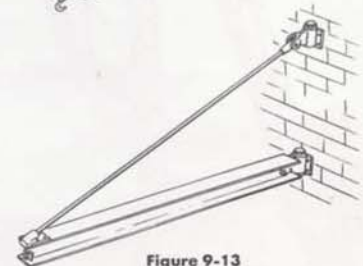


Figure 9-13

WALL BRACKET JIB CRANE — Mount on any wall, post or column — Steel ftgs. — Plain brg. — Reach to 25 ft. — Cap. to 3 ton — Complete or ftgs. only.

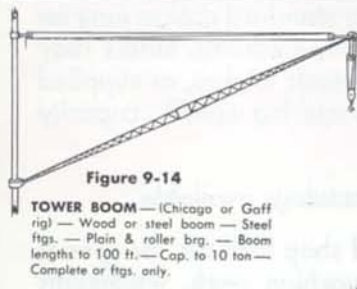


Figure 9-14

TOWER BOOM — (Chicago or Gaff rig) — Wood or steel boom — Steel ftgs. — Plain & roller brg. — Boom lengths to 100 ft. — Cap. to 10 ton — Complete or ftgs. only.



Figure 9-15

GIN POLE — Welded steel — Bolted sections — Rigid or swivel guy top — Ball and socket base — Capacities to 25 ton and up to 100 feet — Furnished complete or irons and fittings only.

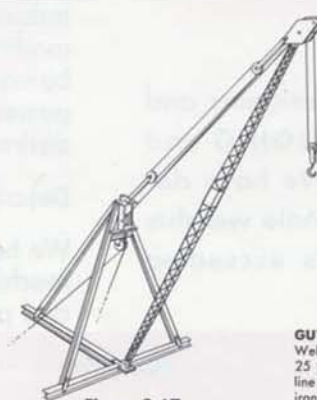


Figure 9-17

JINNIWINK or "A" FRAME DERRICK — Easy to erect and move — Pin connected — Power or hand operated — Booms to 80 feet — Swing 180° — Capacities to 10 ton.

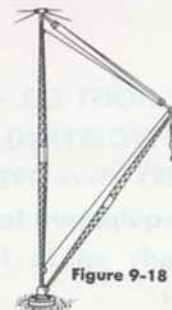


Figure 9-18

GUY DERRICK — Modern design — Welded steel — Bolted sections — To 25 ton cap., and 100 feet — 2 and 3 line operation — Furnished complete or irons and fittings only.

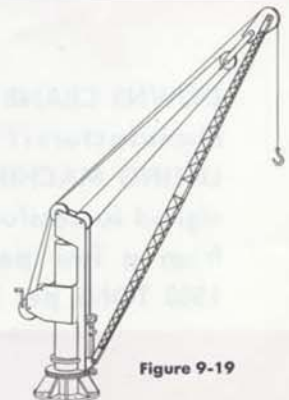


Figure 9-19

PILLAR DERRICK — Base plate mounted or extended pillar to set in concrete — Roller bearing — Hand or power operated — Rotate 360° — Booms to 80 feet — Capacities to 15 ton — Furnished complete.



Figure 9-16

STIFFLEG DERRICK — Welded steel const. — Bolted sections — To 25 ton cap. and 100 foot boom — 2 and 3 line operation — Furnished complete or irons and fittings only.

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Figure 9-20

ELECTRIC TROLLEY HOIST — For double girder overhead traveling cranes — Floor or cab control — Various lifts and speeds — Caps. to 25 ton — Full ball and roller brg. — Precision cut gears — Furnished complete or without electrical equipment.



Figure 9-21

TROLLEY HOIST — Hand operated — Cable reeved — For double girder overhead traveling hand cranes — Suitable for standby use where a crane must be provided for an occasional heavy lift — Caps. to 25 ton — Lifts to 50 ft. — Cut gears and roller brgs.



Figure 9-22

PLAIN TROLLEY — For double girder overhead cranes — Styles suitable for deck mounted hoists or for suspending any type of hoist between the crane girders — Motor driven, hand chain operated or plain push type — Roller bearing — Capacities to 25 ton. Girder gauges to suit.



Figure 9-23

AUTOMATIC MECHANICAL LOAD BRAKE — Required to keep lowering hoist load under control — Non-geared — Direct connected — High speed type — Operates in oil bath — Capacities to 100 H.P.



Figure 9-24

AUTOMATIC MECHANICAL LOAD BRAKE — Load must be driven down — Built-in gear reduction — Operates in oil bath — Capacities to 60 H.P. — Brake is mounted on low speed shaft.



Figure 9-25

CRANE WHEEL ASSEMBLIES — Accurately machined treads — Hardened and ground axles — Precision bearings — Machine cut gears — Pressure grease fittings — Diameters to 24 inch — Capacities to 35 ton per wheel — With or without pinion gear and stub shaft — Assembled in styles to suit any crane requirement — Can be furnished in high carbon cast steel, (treads may be flame hardened), cast iron, spark-proof bronze.



Figure 9-26



Figure 9-27



Figure 9-28

CRANE WHEELS — Double flange — Up to 24 inch dia. — High carbon cast steel, iron, spark-proof bronze — Furnished rough or machined to spec.



Figure 9-29

WHEELS — Single flange — High carbon steel, iron, spark proof bronze — To 24 inch dia. — Rough, machined or assembled to spec.



Figure 9-30

WHEELS — Plain tread — Heavy load cap. — 24 inch dia. — Furnished rough cast, machined or assembled to spec.



Figure 9-31

AUTOMATIC MECHANICAL LOAD BRAKE — Dry type — Moderate power and speed — Suitable for hand or power operation — Several application arrangements available.



Figure 9-32. FITTINGS — WALL BRACKET JIB CRANE — All steel — Machined pins and bearing surfaces — Provision for pressure lubrication — Capacities to 3 ton — Simply fit a tie rod and piece of beam and you have a jib crane.



Figure 9-33. FITTINGS — POST JIB CRANE — All steel — Lower fitting is self aligning ball and socket — Four styles of upper fittings available for mounting either on a Ceiling, Side wall, Horiz. Guy or for erection with stifflegs.



Figure 9-33



Figure 9-34

FITTINGS — PILLAR JIB CRANE — Welded steel — Roller brg. — Machined roller path and pillar top — Designed for easy assembly to pipe and beam.



Figure 9-35

FITTINGS — DERRICK — Irons, sheaves, bullwheels — All steel — Any style of derrick — Self aligning ball and socket mast step — Two or three line operation — Fittings designed and constructed for easy attachment to structural members — Fittings for wood derricks to 10 ton — Steel derricks to 25 ton.



Figure 9-36

FITTINGS — TOWER BOOM — Mount on column or wall — All steel — For wood and steel booms — Plain or roller brgs. — Hollow pintle for rope to pass thru — For one or two line operation — Cap. to 10 ton.



Figure 9-37

WIRE ROPE DRUMS — Custom built for any service — Smooth drums or any combination of grooving — Flanges, gears or brake drums attached — For any size rope or load — Heavy duty cut gears and pinions — Water cooled brakes and brake rigging — Plain bronze or anti-friction bearings — Steel bearing housings.



Figure 9-38

TRUCKS — Underhung crane end — For single and double girder underhung cranes — Hand push, hand geared and power driven types — Ball and roller brg. — Wheels to fit standard or wide flange runway beam sections — Capacities to 15 ton per truck.



Figure 9-39

TRUCKS — Crane end — For single and double girder top running cranes — Hand push, hand geared and motor driven types — Heavy duty ball and roller brg. — Wheels and drive gears to suit various operating conditions — Cap. to 60 ton per truck.



Figure 9-40

Figure 9-40 & 9-41. DOWN HAUL WEIGHT — Used where additional weight is required to pull out the hoist line — Furnished with link, or with plain or swivel hook — Weights to 350 lbs.



Figure 9-41



Figure 9-42

CHAIN POCKET WHEELS — Chain guides and hand chain for the hand operation of cranes, hoists, valves, bin gates, overhead doors, etc.



Figure 9-43

SHEAVES — For wire rope to 1 1/2 inch — Cast steel or spark proof bronze — Diameters to 30 inch — Furnished rough or machined to specification.



Figure 9-44

LOAD BLOCK — Crane — Heavy duty — Any number of sheaves — Full roller bearing — For any style of reeving — Capacities to 200 ton.



Figure 9-45

FALL BLOCK — Derrick — All steel const. — Plain or weighted — Bronze bushed or roller brg. — Any number of sheaves — Custom built to 50 ton cap.



Figure 9-46

BLOCKS — Rigging — All steel const. — Any number sheaves, ropes and style of reeving — Bronze bushed or roller brg. — Custom built to 200 ton capacity.



Figure 9-47

CROWN BLOCK — Special — Roller brg. — Special sheave design and const. — For any service requiring the use of wire rope or chain — Various const. materials — Bearings of any type — Special safety features for the protection of both personnel and equipment.

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Figure 9-48

SHEET LIFTER—Low headroom type—Easily operated by one man—Suitable for the economical handling of large quantities of material—Adjustable for sheets of various widths—Hand wheel, pendant hand chain or electric motor operated—Capacities to 10 ton.



Figure 9-49

SHEET LIFTER—Parallel arm type—One man operated—Hand wheel or pendant hand chain for adjustment to sheet width—Suitable for handling large quantities bundled or loose sheets—Capacities to 10 ton.



Figure 9-50

SHEET LIFTER—Easy pin adjustment for material of various widths—Will handle loose or bundled sheets—Capacities to 5 ton.



Figure 9-51

SHEET LIFTER—Rigid arm type—Useful where quantities of material to be handled are not large—Suitable for loose sheets or bundles—Capacities to 5 ton.



Figure 9-52

SHEET LIFTER—Individual hooks—Adjustable for length and width—Useful where cross damage under the material prohibits the use of other types of lifters—Cap. to 5 ton.



Figure 9-53

SHEET LIFTER—Chain leg type—Easy width adjustment—Suitable for loose sheets or bundles where the quantities are not large—Easily stored in small space—Capacities to 3 ton.



Figure 9-54

TONG—Custom made—Designs suitable for cartons, plywood panels, paper stock, sheet metal, etc.—Sizes and capacities to suit.



Figure 9-55

SHEET CRADLE—Any number of hooks—Loaded and unloaded from side or end—Hooks may be pushed under load—Handles thin sheets, panels, extrusions, etc.—Cap. to 15 ton.



Figure 9-56

COIL HOOKS—For handling any coiled material such as steel, aluminum, brass, etc.—Standard capacities to 15 tons—Special sizes and capacities to 50 ton.



Figure 9-57

RAIL TONGS—Stock sizes for all standard rails up to 3 1/2 inch head width—Specials to order for any size rail made.



Figure 9-58

BEAM TONGS—For fast, safe handling of rolled beam sections—Stock sizes suitable for the lightest to the heaviest sections rolled.



Figure 9-59

GIRDER HOOKS—For handling large fabricated girders—Will save the time usually wasted in rigging and lashing—Capacities to 60 ton.



Figure 9-60

BEAM HANGER CLAMP—Suitable for permanent or temporary installations—Easily placed or removed with a wrench—Will shim to fit all standard beams—Capacities to 5 ton.



Figure 9-61

BILLET TONG—A fully automatic special purpose tong for handling hot billets in a minimum clearance operation by remote control. We handle many assignments of this nature.



Figure 9-62

BILLET TONG—Fitted with trunnion jaws for lifting hot billets from a horizontal furnace and rotating to a vertical position for end quenching.



Figure 9-63. PIPE TONGS—For pipe, bars, billets and misc. material—Will pick directly off the floor without blocking under—Capacities to 3 tons and 13 inch diameter material.

Figure 9-64. PIPE TONGS OR CALIPERS—Close side clearance for handling pipe in narrow trench—Tong is easily removed from pipe without personnel entering the ditch—Capacities to 5 ton—For pipe up to 36 inch dia.



Figure 9-64



Figure 9-65

BAR TONG—For handling finished tubular parts—Contact surfaces may be lined with a variety of soft non-abrasive materials to avoid damaging finished surfaces.

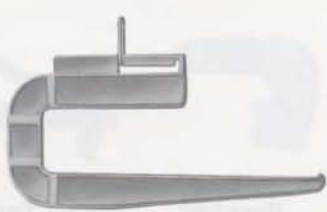


Figure 9-66

HAIRPIN PIPE HOOKS—For handling and installing large pipe—Shifting center for balancing unloaded hook—Stock designs up to 25 ton capacity—Larger sizes to order.



Figure 9-67

BAR TONG—Semi-automatic—For serving heavy rough bar stock to a lathe—One of many special purpose tongs.



Figure 9-68. EXPANSION GRIP—For handling roll paper or any similar material with an open core hole—Weight of the load causes toothed shell to slide down on tapered wedges, expanding as it goes, providing a safe grip that increases with the load—Handle is for tripping the mechanism for easy removal from the load.



Figure 9-69

Figure 9-69. TUBE PULLER—For pulling finished tubes thru a tube sheet—Internal expanding type with multiple gripping faces—Will not damage finished surfaces.



Figure 9-70

CYLINDER TONG—A fully automatic tong—Placed on and removed from load by manipulation of the hoist line—Will handle pipe, drums, carpet, linoleum or any cylindrical material—Capacities to 5 ton.



Figure 9-71

Figure 9-71. SHELL TONG—Semi-Automatic for the fast production handling of shells, tubes, bars, etc., where the material to be handled is all of approximately the same diameter.

Figure 9-72. PIPE END HOOKS—Used on slings, with hooks to be inserted in pipe ends—Hooks are of a special design to avoid damaging finished pipe ends.

Figure 9-73. PIPE HOOK CLUSTER—End hooks assembled on wire ropes for lifting a number of pieces at each lift—Any convenient number of hooks may be used.



Figure 9-72



Figure 9-73

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Figure 9-74

Figure 9-75

Figure 9-74 & 9-75. SAFETY PLATE GRIPS—Handle steel plates on edge—Cam action—The heavier the load the tighter the grip—Will not damage plates—Capacities up to 10 ton—For plates up to 6 in. thick.

Figure 9-76. SCREW PLATE CLAMPS—Manually set with a wrench—Use in any position on plates at shears, rolls, etc.—Cannot be accidentally knocked off—Capacities to 2½ ton for plates to 2 inch thick.



Figure 9-76



Figure 9-77

OPEN FORKED HOOKS—Suitable for handling a wide variety of material—Simply drop hook into loop of any convenient sling and they are ready for use—Cap. to 6 ton.



Figure 9-78

PLATE AND BEAM HOOKS—Used on a sling over the edges of plates and over end of beams—Handles beams with the web horiz. or vertical—Wedge shaped opening prevents hooks from slipping.



Figure 9-79

PLATE SLING—For large plates and sheets—Hooks wedge firmly on plate—Self adjusting for plate widths up to limit of sling—Capacities to 10 ton.



Figure 9-80

Figure 9-80. DRUM TILTER—Worm geared—Pendant chain or hand wheel operation—Will normally tilt drums thru 135°, may also be fitted for turning and rotating a variety of objects through 360°.



Figure 9-81

Figure 9-81. DRUM TURNER—Worm geared for precise control—Operated with pendant hand chain or hand wheel—Will rotate thru 360°—Adjustable for drums 18 to 24 inch dia.—Capacities to 1000 lbs.



Figure 9-82

HORIZONTAL DRUM GRAB—Fully automatic, load is picked and discharged by the simple manipulation of the hoist—Sizes to handle 2 to 6 drums at each lift—May be fitted for use with a fork truck.



Figure 9-83

VERTICAL DRUM GRAB—Fully automatic, load is picked and discharged by the up and down manipulation of the hoist hook—Sizes to handle 2 to 6 drums at each lift—May be fitted for use with a fork truck.



Figure 9-84

DRUM SLING—Spark proof construction—Hooks have 2½" dia. eye—May be used with chain, manila or wire rope sling—These hooks and sling also furnished in plain steel construction.



Figure 9-85

Figure 9-85. DRUM SLING—Hooks suitable for steel and wood drums and barrels—Adjustable for drums 16 to 38 inches long—Will lift in horizontal or tilted position—Capacities up to 1100 lbs.



Figure 9-86

Figure 9-86. DRUM SPREADER—Low headroom type—Easily operated with one hand—Hooks are adjustable—Available in sizes suitable for handling small drums weighing 100 pounds or so up to large chlorine cylinders weighing 1½ tons or more.



Figure 9-87

Figure 9-87. DRUM CHIME TONG—Lift drums in vertical position—Grips on top rim or chime—Operate with one hand—Self adjusting for drums 18 to 24 inches diameter—Capacities to 1000 lbs.



Figure 9-88

Figure 9-88. DRUM TURNER—Non-geared, manually operated—Adjustable 18" to 24" diameter drums—Capacities to 1000 lbs.



Figure 9-89

SPUR PAD BOX SLINGS—A popular tool for handling boxes, crates or other soft material—Chain length adjustable—Stock slings to 1 ton—Other capacities to 10 ton on wire rope.



Figure 9-90

SPUR PAD HOOKS—Replaceable hardened steel spurs—Used with chain or wire rope slings—For handling boxes and crates—Capacities to 10 ton.



Figure 9-91

BOX TONGS—Fully automatic operation—Engaged and disengaged from load by manipulating the hoist line—Both adjustable and non-adjustable types.



Figure 9-92

BOX TONGS—Trunnion spur pads—Adjustable for boxes of various sizes—Replaceable hardened steel spurs.



Figure 9-93

BOX TONG—Curved spur pads are so designed that as tong closes, spurs will contact load at the proper angle over large variation of load width—Replaceable spurs.



Figure 9-94

TRUNNION BAIL—Custom made in a variety of designs and capacities—For handling bins, buckets, ladles, etc.



Figure 9-95

Figure 9-96

Figure 9-95 & 9-96. WIRE ROPE and CHAIN SLINGS—All styles and constructions—Special types for loads that are hard to handle—Lengths to suit—Equipped with standard or special sling fittings as conditions may require—Capacities suitable for any load to be lifted.



Figure 9-97



Figure 9-98



Figure 9-99

Figure 9-97, 9-98 & 9-99. BELT SLINGS—Strong woven cotton belt will not damage the most fragile loads—Standard widths up to 12", Special widths up to 20"—Some widths may be furnished in nylon, dacron and other special material—May be coated with plastic or neoprene—Various end fittings—Special spark-proof fittings.



Figure 9-100

Figure 9-100. COMPOSITE BELT SLINGS—Multiple strands of extra flexible wire rope stitched between cotton belt covers—Wire rope is assembled into the sling in one continuous length and arranged to be self equalizing—Removable end fittings—Widths up to 20 inches—Lengths to suit—Capacities up to 25 tons.



Figure 9-101

Figure 9-101. CHAIN BELT SLINGS—Multiple strands of carbon or alloy chain tied together with cross links and assembled into end fittings of ample strength to carry the full rated load with a large factor of safety—Strong, durable and flexible in all directions—Widths up to 30 inches—Lengths to suit—Capacities up to 100 tons.



Figure 9-102

PALLET TONG — Suitable for handling pallets, flat panels, sheets, etc. — Hand wheel adjusted for various width material — Capacities to 10 ton.

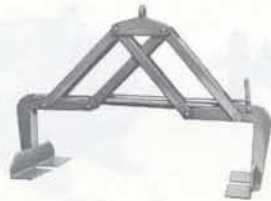


Figure 9-103

PALLET TONG — Semi-automatic — One man operation — Suitable for pallets, panels, cartons, boxes, etc. — Quickly adjusted to various widths — Capacities to 5 ton.



Figure 9-104

PALLET HOOK — Type shown has adjustable forks and sliding balance link — Also available with fixed forks — Multiple forks — Counterweight — Capacities to suit.



Figure 9-105

RUG TONG — Hydraulic operated — Can be arranged for fork truck operation — Designs suitable for rugs, carpet, linoleum, pipe, bars, drums, crates, etc. — Capacities to suit.



Figure 9-106

TOTE PAN TONG — Features a stop to limit the arm travel so as to avoid crushing heavily loaded pans — Similar designs available for handling dies of all weights.



Figure 9-107

ROPE REEVED GRAPPLES — DOUBLE LINE & HOOK-ON types — Styles suitable for handling scrap, trash, roll paper, timber, pulp wood, sugar cane, stone, foundry sand, etc. — Capacities to suit.

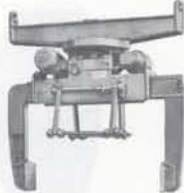


Figure 9-108

Figure 9-108 & 9-109. PAPER ROLL GRAB — Electrically operated Single and Two-motor types — One motor to open and close tong on the load — Second motor operates turntable to rotate the load into the required position — Designs to handle roll material in either the vertical or horizontal position — Adjustable for a wide variation in roll length and diameter — Capacities to suit.



Figure 9-109



Figure 9-110

END BUCKET SLING — Custom made in any capacity to handle finished bars, shafts, etc. — Also furnished with wire rope slings.



Figure 9-111

Figure 9-112

Figure 9-111 & 9-112. LOAD SPREADERS and STRONG BACKS — Custom made in a large number of designs to suit any loading condition — Any style with lifting capacity to suit.



Figure 9-113



Figure 9-114

Figure 9-113. PILE PULLER — For round wood pile up to 24" dia. and up to 100 ton pulling capacity.

Figure 9-114. ROLLER DOLLY — Single and double roller — Full roller brg. — All steel const. — Capacity to 10 ton.

Figure 9-115. SHEET PILE PULLER — For pulling wood sheet logging up to 6 inch thick and up to 10 ton pulling capacity.



Figure 9-115



Figure 9-116

CARTON TONGS — For handling paper cartons and other lightly constructed boxes or bundles.



Figure 9-117

RATCHET TONG — Close adjustment to the load over the full range of tong opening — Lifting eye adjustable to balance load — Powerful grip — Suitable for handling boxes, timbers, bars, structural shapes, etc.



Figure 9-118

SLAB TONGS — Custom made to suit requirements — Jaws faced with wood, leather, fibre, rubber, etc. — For concrete slabs, stone, glass, etc.



Figure 9-119

Figure 9-119. BAG TONGS — Pinch type for fast handling of sacks, burlap, canvas, etc. — Capacities to 500 lbs.



Figure 9-120

Figure 9-120. BAG TONGS — For handling paper and burlap bags — Suitable for holding paper bags while the bottom is cut out for rapid dumping of bag contents.



Figure 9-121

DOG HOOK SLING — Designed to carry load on point of hook — Hooks may be purchased separate — Capacities to 5 ton on chain slings and to 24 ton on wire rope slings.



Figure 9-122

TWIN HOOKS — Useful for gathering a number of slings on one hook — Capacities up to 20 ton.



Figure 9-123

DUMP BUCKET — Balanced — Hand trip — Self righting — Trunnion mounted — One of a number of bucket types available for general industrial use.



Figure 9-124

Figure 9-124. BALE TONG — Trunnion spur pads — For handling material requiring a low unit pressure under the pads.



Figure 9-125

Figure 9-125. ROD CRADLE — Spreader and open side hooks — Any number of hooks spaced to suit — For rods, bars, pipe, etc. — Capacities to 15 ton.



Figure 9-126

Figure 9-126. TIMBER TONG — A light, alloy steel tong — Useful as a general purpose tool.

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MECHANICAL ENGINEERS

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