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LANCASHIRE & YORKSHIRE RAILWAY

Operational Documents & Pamphlets.

1921

Particulars of

Standard Loose Chains & Lifting Tackle.

Issued by Chief Mechanical Engineers Office

Horwich.

(19 Pages).

**PARTICULARS OF
STANDARD LOOSE CHAINS AND LIFTING TACKLE.**

**CHIEF MECHANICAL ENGINEER'S OFFICE,
L. & Y. RLY., HORWICH,**

JULY, 1921.

EXAMINATION, REPAIR, AND TESTING OF CHAINS AND LOOSE LIFTING TACKLE.

Chains, hooks, and loose lifting tackle in use should be frequently examined by the Goods Foreman or other person responsible for their use, and any found to show signs of undue wear or defect of any kind should be at once put out of use and sent to Horwich for examination, repair and testing.

ON NO ACCOUNT MUST THEY BE REPAIRED OR ALTERED LOCALLY.

ALL LOOSE CHAINS IN USE (except engine shunt, rail, horse and binding chains) no matter whether showing defect or not must be sent to Horwich at least ONCE PER YEAR for examination, testing and repairs.

When sending chains or loose lifting tackle to Horwich A REPAIR NOTE (Gen. 10 for the Traffic Dept. and L.B. 20 for the C.M.E. Dept.) GIVING THE NUMBER AND CLASSIFICATION OF THE ARTICLES, date sent, by what train and for what purpose, must be sent to the Outdoor Machinery Department, Horwich, at the same time as the article.

Also a metal label bearing the name of the sending station must be securely attached by wire to each article to secure its identification on arrival at Horwich. Suitable metal labels will be supplied by the District Inspector of the Outdoor Machinery Department.

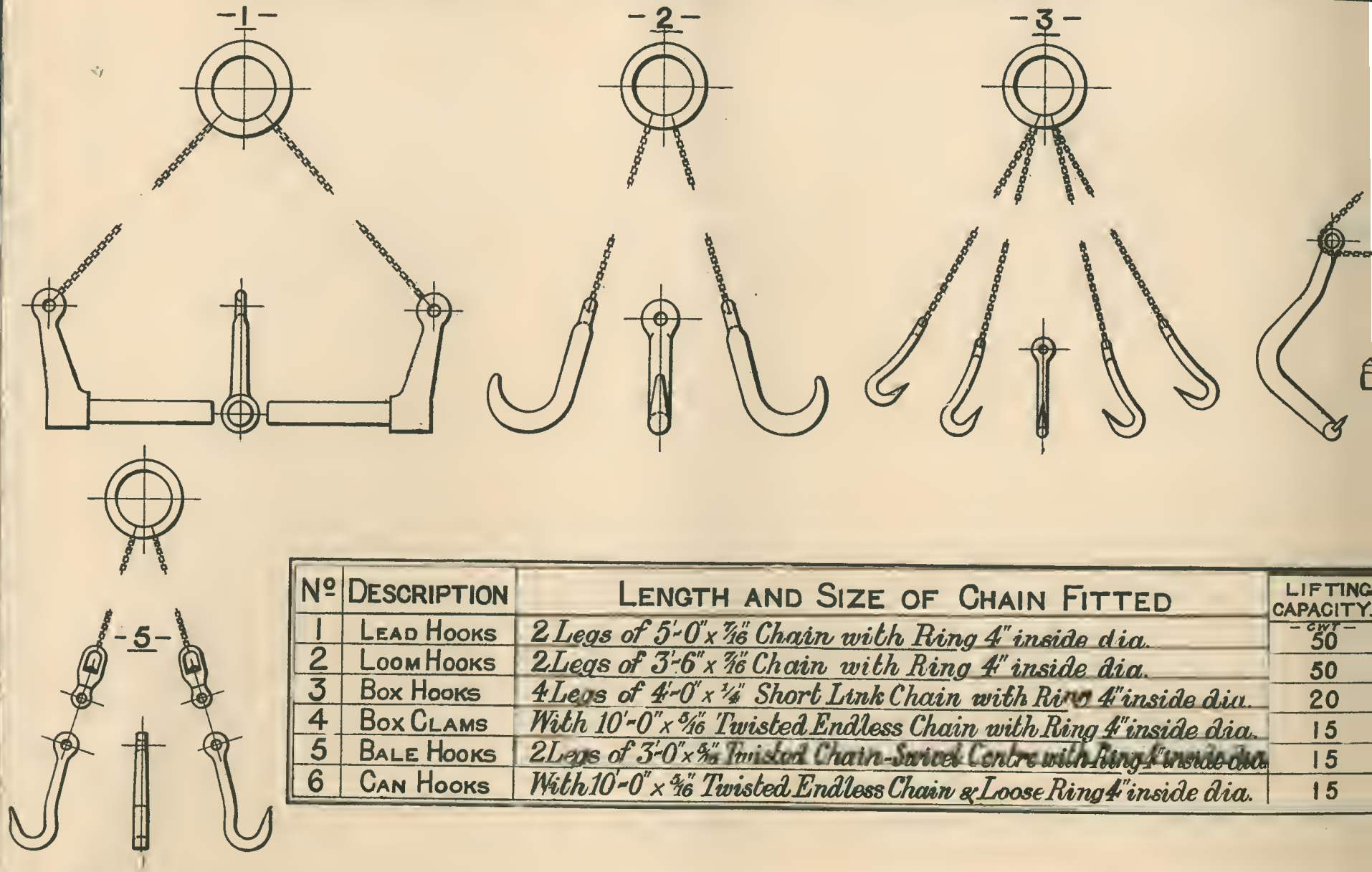
The description of the standard articles entered on repair notes or demands must be exactly in accordance with this booklet.

Crossbars and Crossbar Chains are made in two sizes—5 and 10 tons capacity, the Chains being 10 feet long and $\frac{1}{2}$ in. and $\frac{5}{8}$ in. diameter of link respectively. All four chains in a set should be sent in together to ensure that they are kept the same length.

It is not necessary to send the Crossbars in every twelve months but only when they show wear at the pin holes or are otherwise defective; the District Outdoor Machinery Inspector must be consulted on this matter.

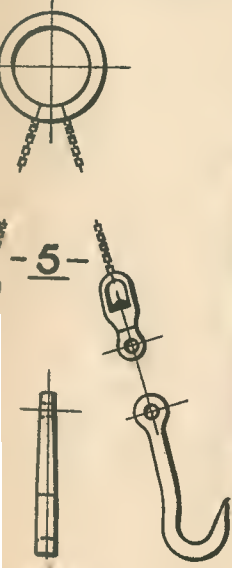
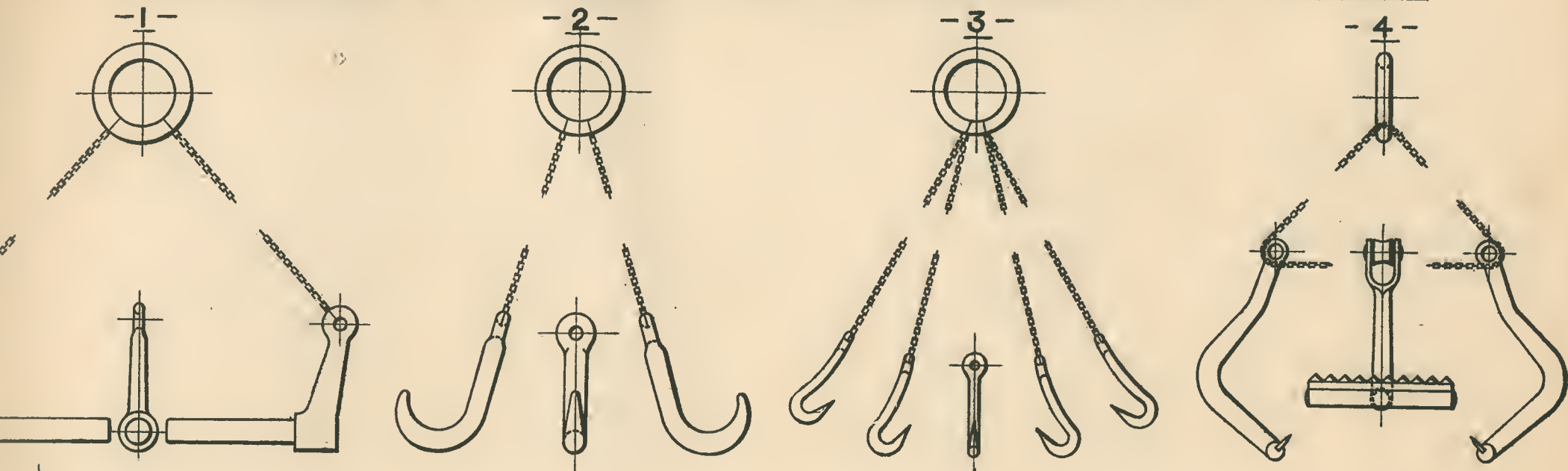
Orders for SPECIAL ARTICLES not shown herein must be accompanied by a dimensioned sketch or reference to some previous sketch.

— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACK

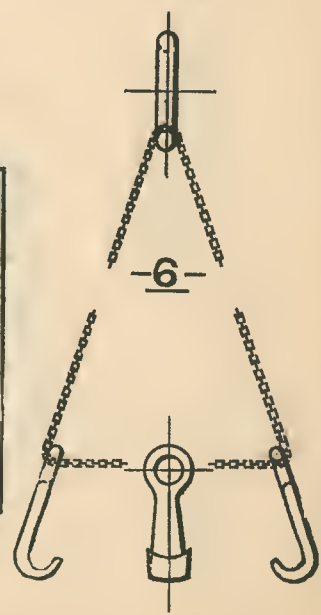


N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY. — CWT —
1	LEAD HOOKS	<i>2 Legs of 5'-0" x 3/16" Chain with Ring 4" inside dia.</i>	50
2	LOOM HOOKS	<i>2 Legs of 3'-6" x 3/16" Chain with Ring 4" inside dia.</i>	50
3	BOX HOOKS	<i>4 Legs of 4'-0" x 1/4" Short Link Chain with Ring 4" inside dia.</i>	20
4	BOX CLAMS	<i>With 10'-0" x 5/16" Twisted Endless Chain with Ring 4" inside dia.</i>	15
5	BALE HOOKS	<i>2 Legs of 3'-0" x 5/16" Twisted Chain-Swivel Centre with Ring 4" inside dia.</i>	15
6	CAN HOOKS	<i>With 10'-0" x 3/16" Twisted Endless Chain & Loose Ring 4" inside dia.</i>	15

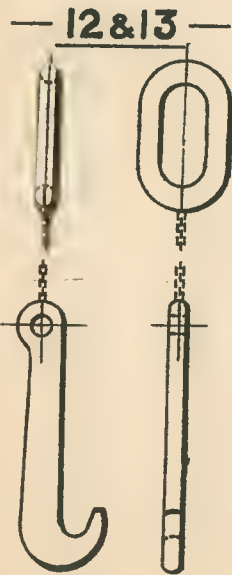
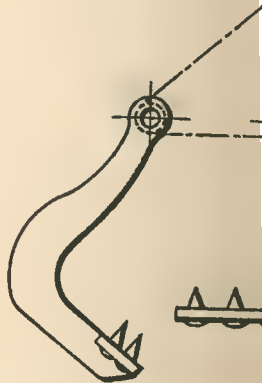
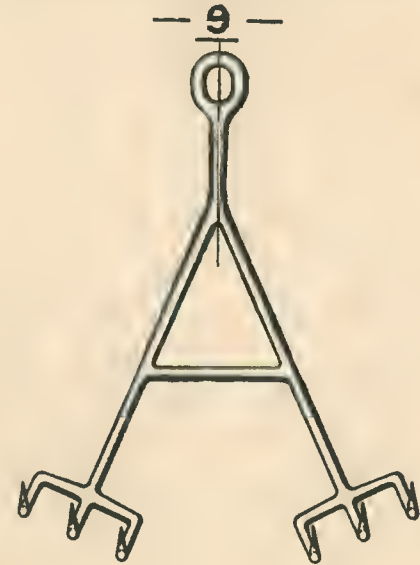
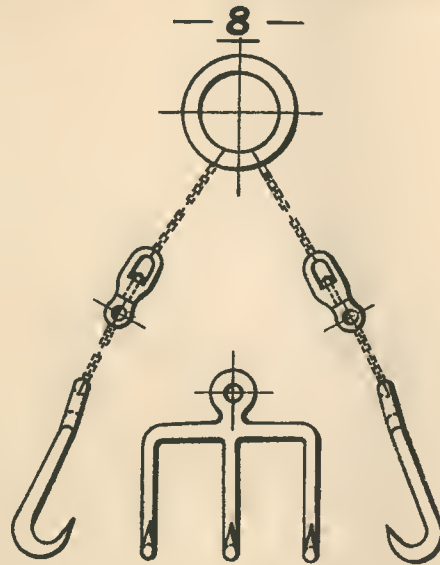
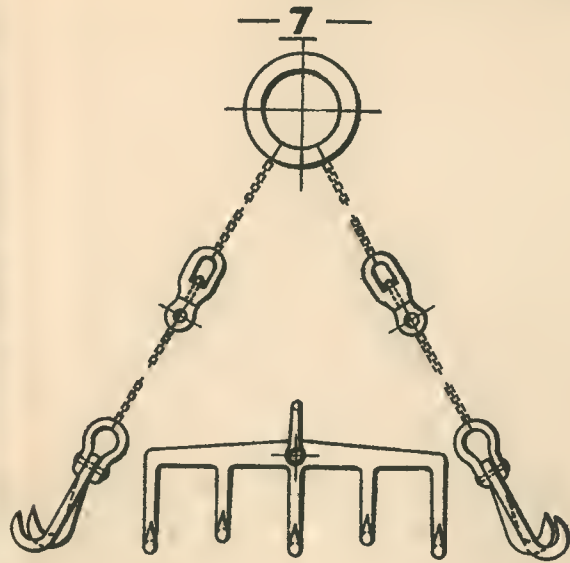
— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE —



N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
1	LEAD HOOKS	2 Legs of 5'-0" x 7/16" Chain with Ring 4" inside dia.	— CWT — 50
2	LOOM HOOKS	2 Legs of 3'-6" x 7/16" Chain with Ring 4" inside dia.	50
3	BOX HOOKS	4 Legs of 4'-0" x 1/4" Short Link Chain with Ring 4" inside dia.	20
4	BOX CLAMS	With 10'-0" x 5/16" Twisted Endless Chain with Ring 4" inside dia.	15
5	BALE HOOKS	2 Legs of 3'-0" x 5/16" Twisted Chain-Swivel Centre with Ring 4" inside dia.	15
6	CAN HOOKS	With 10'-0" x 5/16" Twisted Endless Chain & Loose Ring 4" inside dia.	15

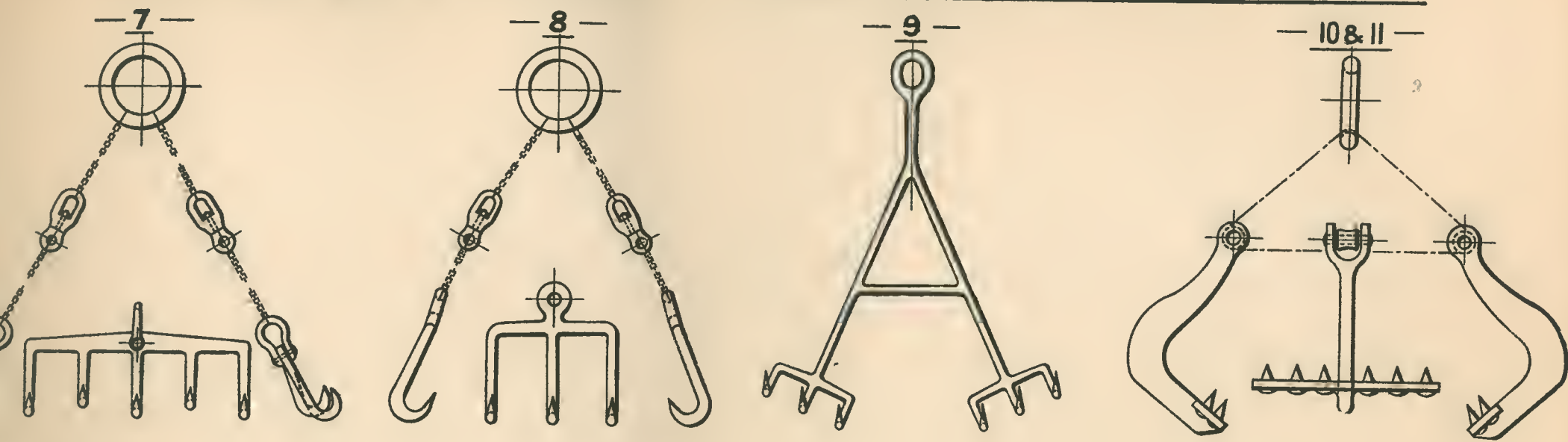


— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLES —



N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
7	WOOL HOOKS	2 Legs of 3'-0" x $\frac{5}{16}$ " Twisted Chain-Swivel Centre and Ring 4" inside dia.	15
8	WOOL HOOKS	2 Legs of 3'-0" x $\frac{5}{16}$ " Twisted Chain-Swivel Centre and Ring 4" inside dia.	15
9	WOOL HOOKS	To be used singly on Crane Hook and without Chains.	10
10	SPIKE CLAMS	Clams with 6 Spikes-with Rope, and Ring 4" inside dia.	30
11	SPIKE CLAMS	Clams with 4 Spikes-with Rope, and Ring 4" inside dia.	15
12	EN ^c SHUNT CHAIN	18'-0" x $\frac{9}{16}$ " Long Link Chain, Hook one end, Long Link other end.	—
13	TAIL CHAIN	18'-0" x $\frac{9}{16}$ " Long Link Chain with Hook each end.	—
14	HORSE SHUNT CHAIN	9'-0" x $\frac{3}{8}$ " Crane Chain, Hook one end-Swivel and Long Link other end.	—

— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE. —



2 & 13 —

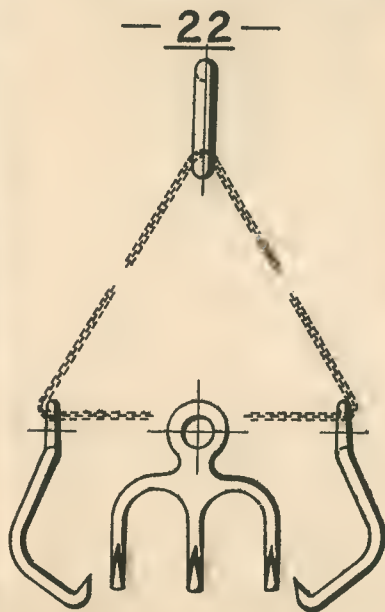
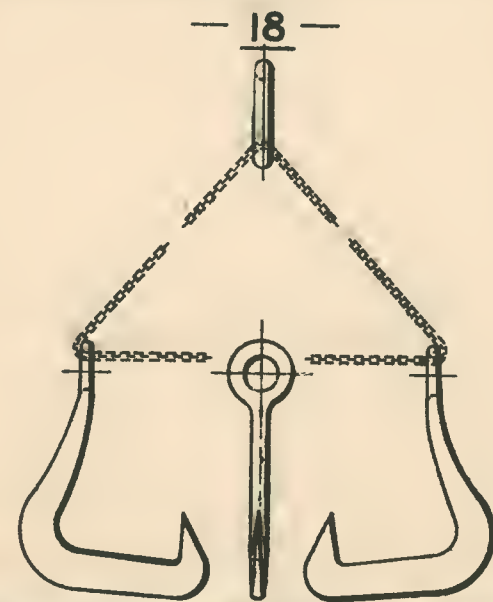
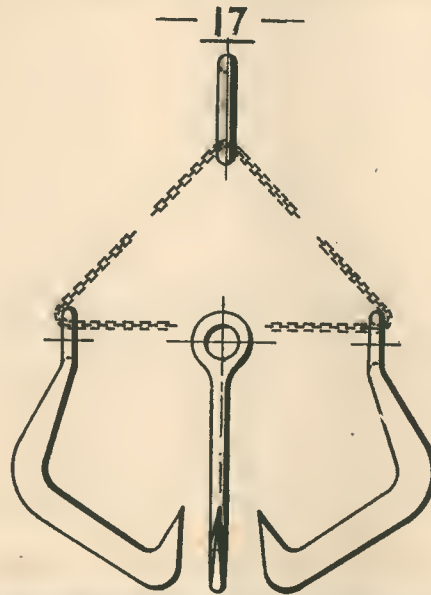
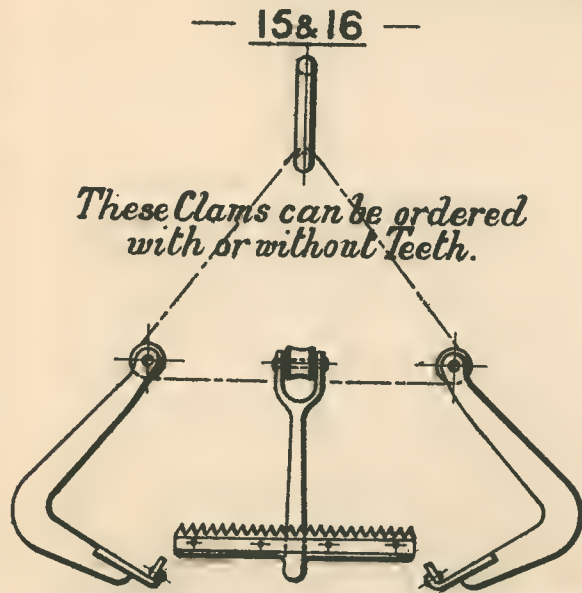


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N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
7	WOOL HOOKS	2 Legs of 3'-0" x $\frac{5}{16}$ " Twisted Chain-Swivel Centre and Ring 4" inside dia.	15
8	WOOL HOOKS	2 Legs of 3'-0" x $\frac{5}{16}$ " Twisted Chain-Swivel Centre and Ring 4" inside dia.	15
9	WOOL HOOKS	To be used singly on Crane Hook and without Chains.	10
10	SPIKE CLAMS	Clams with 6 Spikes-with Rope, and Ring 4" inside dia.	30
11	SPIKE CLAMS	Clams with 4 Spikes-with Rope, and Ring 4" inside dia.	15
12	EN ^d SHUNT CHAIN	18'-0" x $\frac{9}{16}$ " Long Link Chain, Hook one end, Long Link other end.	—
13	TAIL CHAIN	18'-0" x $\frac{9}{16}$ " Long Link Chain with Hook each end.	—
14	HORSE SHUNT CHAIN	9'-0" x $\frac{3}{8}$ " Crane Chain, Hook one end-Swivel and Long Link other end.	—

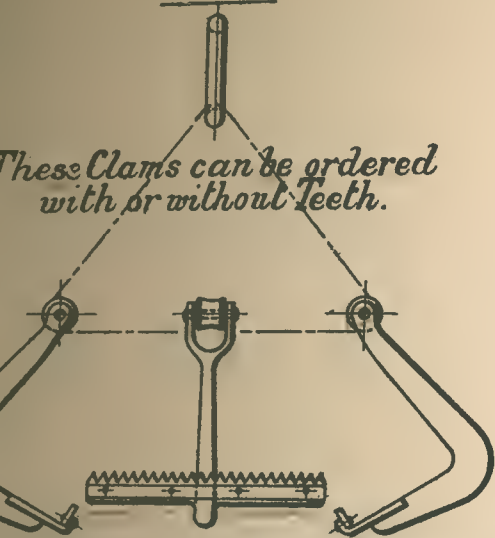
— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TAGS —



No	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY
15	GOODS CLAMS	<i>Clams with 24 Teeth - with Rope, and Ring 4" inside dia.</i>	3
16	GOODS CLAMS	<i>Clams with 24 Teeth with Rope and Ring 4" inside dia.</i>	1
17	COTTON DOGS	<i>For American Bales: 12'-0" x 5/16" Twisted Endless Chain & Ring 4" dia.</i>	1
18	COTTON DOGS	<i>For Egyptian Bales: 12'-0" x 5/16" Twisted Endless Chain & Ring 4" dia.</i>	1
19	GRABS	<i>With 12'-0" x 5/16" Endless Chain and Ring 4" inside dia.</i>	3
20	GRABS	<i>With 12'-0" x 5/16" Twisted Endless Chain and Ring 4" inside dia.</i>	1
21	GRABS	<i>With 12'-0" x 1/4" Twisted Endless Chain and Ring 4" inside dia.</i>	1
22	GRABS	<i>With 12'-0" x 1/4" Twisted Endless Chain and Ring 4" inside dia.</i>	1
23	STONE DOGS	<i>To be used in Pairs with ordinary Sling Chains.</i>	8
24	STONE DOGS	<i>To be used in Pairs, with ordinary Sling Chains.</i>	4
25	STONE DOGS	<i>To be used in Pairs, with ordinary Sling Chains.</i>	2
26	GANTRY BALE HOOKS	<i>To be used singly on end of Crane Chain.</i>	2

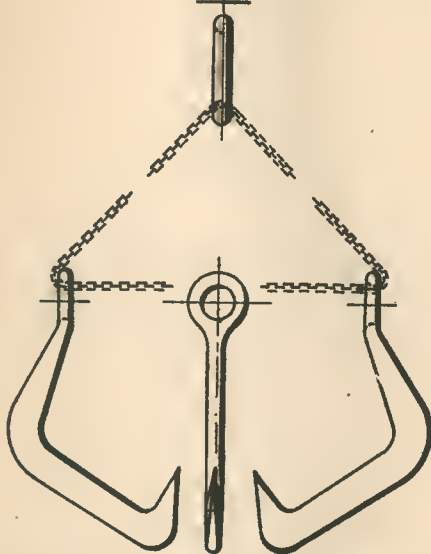
— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE. —

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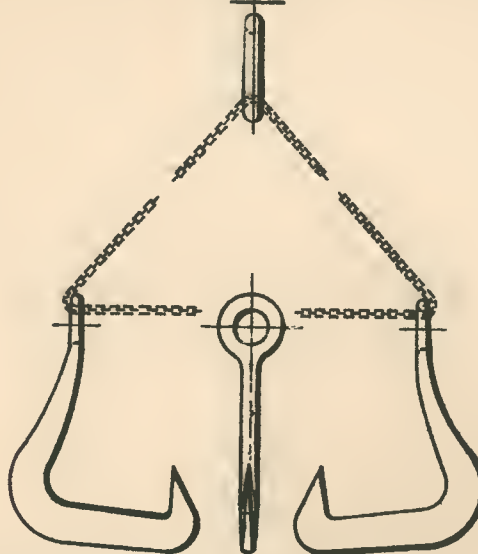


These Clams can be ordered with or without Teeth.

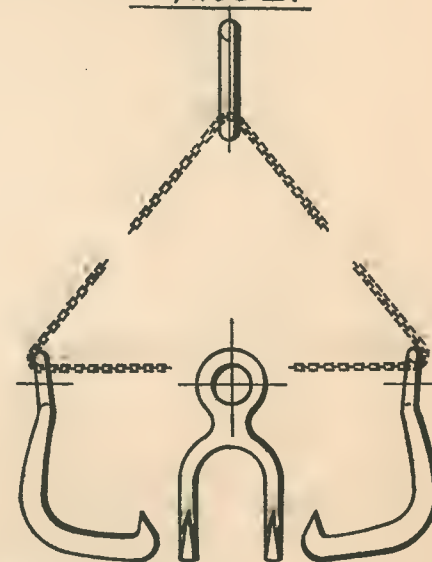
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— 19, 20 & 21 —



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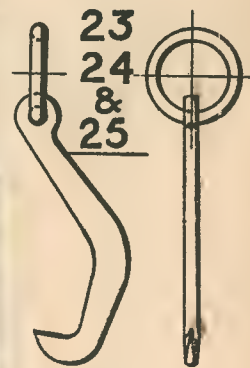


N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
15	GOODS CLAMS	<i>Clams with 24 Teeth - with Rope, and Ring 4" inside dia.</i>	30
16	GOODS CLAMS	<i>Clams with 24 Teeth - with Rope and Ring 4" inside dia.</i>	15
17	COTTON DOGS	<i>For American Bales: 12'-0" x 5/16" Twisted Endless Chain & Ring 4" dia.</i>	15
18	COTTON DOGS	<i>For Egyptian Bales: 12'-0" x 5/16" Twisted Endless Chain & Ring 4" dia.</i>	15
19	GRABS	<i>With 12'-0" x 5/16" Endless Chain and Ring 4" inside dia.</i>	30
20	GRABS	<i>With 12'-0" x 5/16" Twisted Endless Chain and Ring 4" inside dia.</i>	15
21	GRABS	<i>With 12'-0" x 1/4" Twisted Endless Chain and Ring 4" inside dia.</i>	10
22	GRABS	<i>With 12'-0" x 1/4" Twisted Endless Chain and Ring 4" inside dia.</i>	5
23	STONE DOGS	<i>To be used in Pairs, with ordinary Sling Chains.</i>	80
24	STONE DOGS	<i>To be used in Pairs, with ordinary Sling Chains.</i>	40
25	STONE DOGS	<i>To be used in Pairs with ordinary Sling Chains.</i>	20
26	GANTRY-BALE H ^{OOKS}	<i>To be used singly on end of Crane Chain.</i>	20

— 23 —

— 24 —

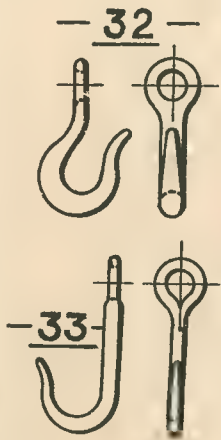
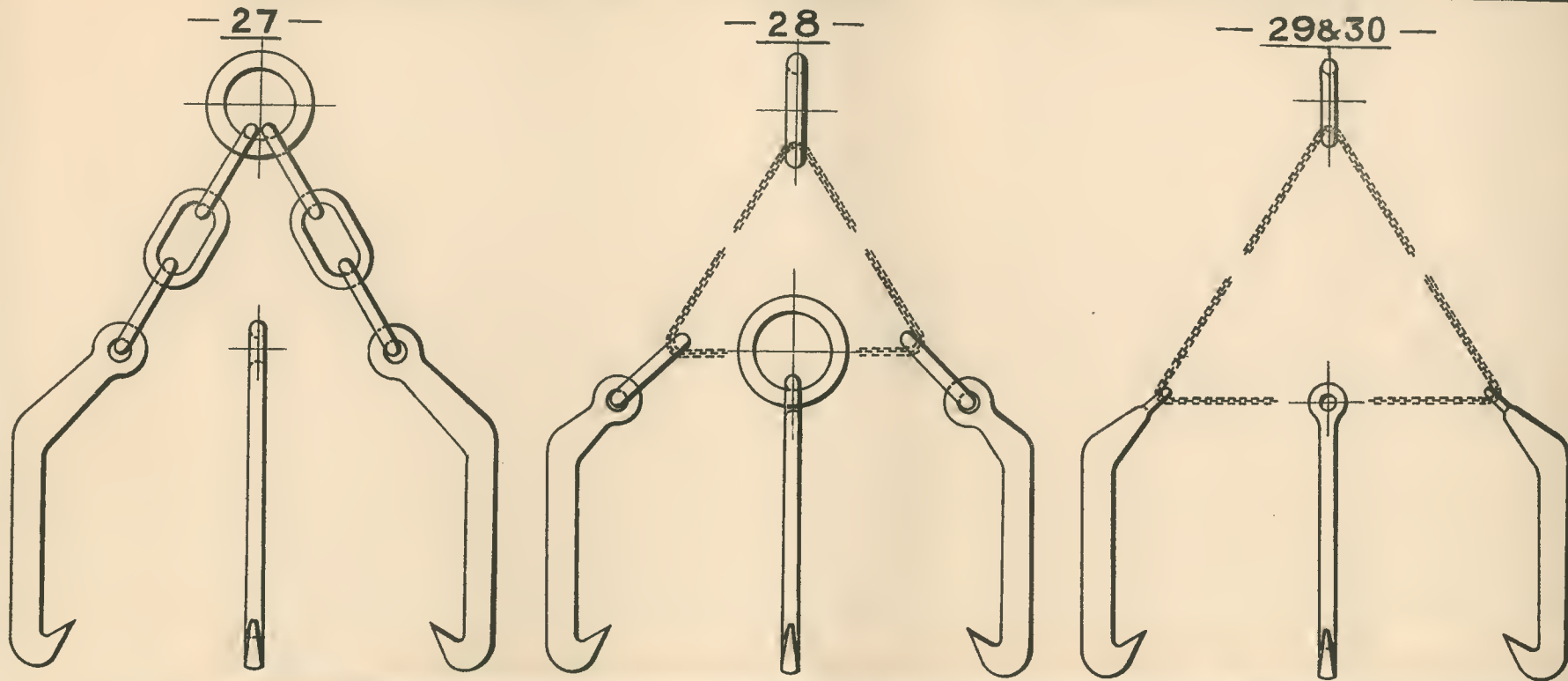
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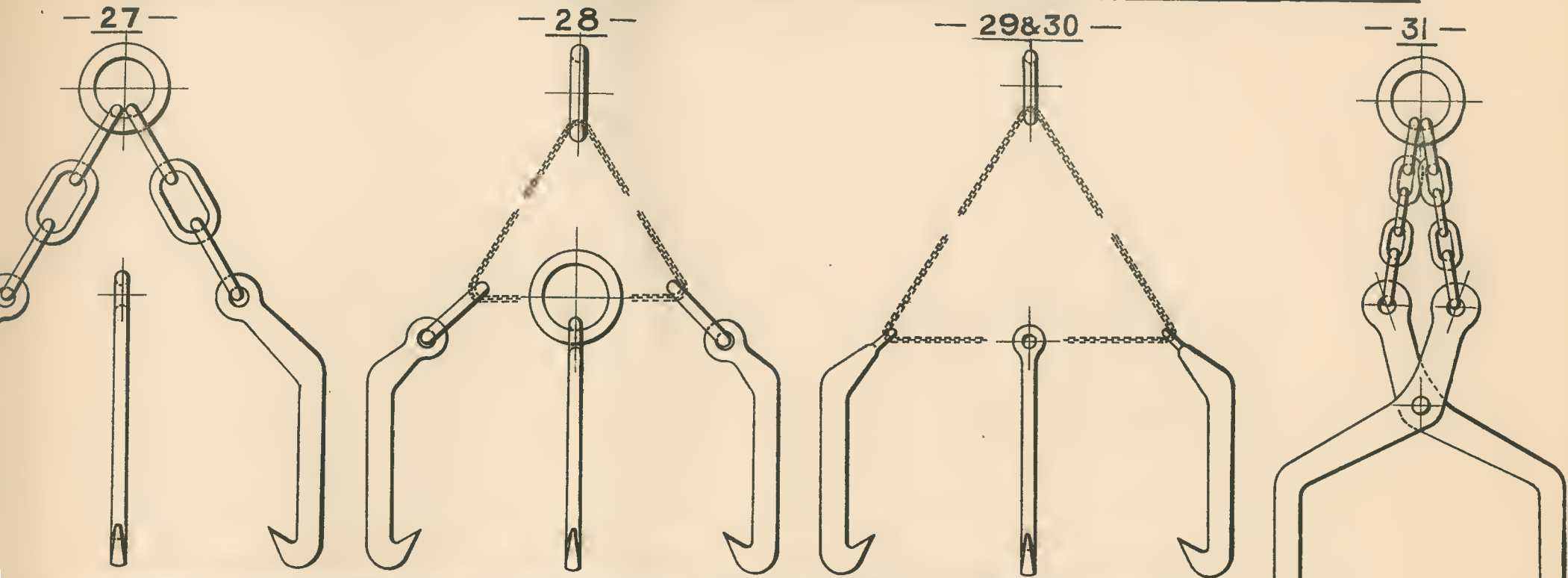


— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLES —

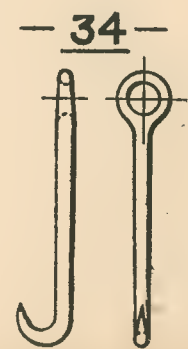


No	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
27	TIMBER DOGS	<i>2 Legs of 3 Long Links and Ring 4 1/2" inside dia.</i>	100
28	TIMBER DOGS	<i>With 8'0" x 3/16" Endless Chain and Ring 4 1/2" inside dia.</i>	60
29	TIMBER DOGS	<i>With 6'0" x 3/8" Endless Chain and Ring 4" inside dia.</i>	30
30	TIMBER DOGS	<i>With 6'0" x 3/16" Twisted Endless Chain and Ring 4" inside dia.</i>	15
31	SCISSOR TIM ^R DOGS	<i>With 2 Legs of 5 Long Links and Ring 4 1/2" inside dia.</i>	50
32	FISH HOOK	<i>Fitted with Thimbles when required.</i>	10
33	STRAP HOOK	<i>Supplied as shewn.</i>	5
34	SINGLE COTTON H ^K	<i>Supplied as shewn.</i>	5

PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE.



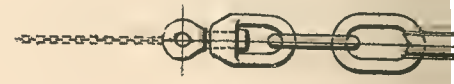
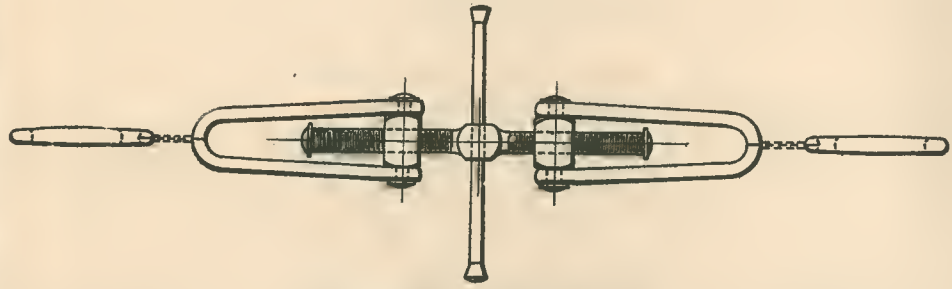
No	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
27	TIMBER DOGS	<i>2 Legs of 3 Long Links and Ring 4½" inside dia.</i>	100
28	TIMBER DOGS	<i>With 8'-0" x 9/16" Endless Chain and Ring 4½" inside dia.</i>	60
29	TIMBER DOGS	<i>With 6'-0" x 3/8" Endless Chain and Ring 4" inside dia.</i>	30
30	TIMBER DOGS	<i>With 6'-0" x 3/8" Twisted Endless Chain and Ring 4" inside dia.</i>	15
31	SCISSOR TIM ^{ER} DOGS	<i>With 2 Legs of 5 Long Links and Ring 4½" inside dia.</i>	50
32	FISH HOOK	<i>Fitted with Thimbles when required.</i>	10
33	STRAP HOOK	<i>Supplied as shewn.</i>	5
34	SIN ^{GLE} COTTON H ^{OOK}	<i>Supplied as shewn.</i>	5



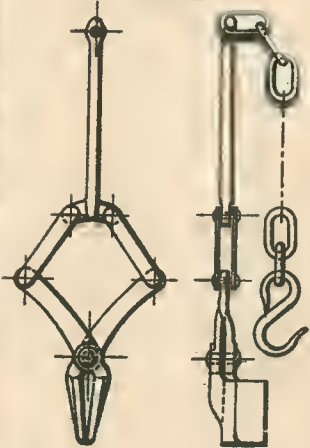
— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLES —

— 35 —

— 36 —



— 38 —



N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
35	BINDING CHAIN	<i>Re L.H. Shackle, 60 Links one side, 8 Links other side, Hook each end.</i>	— <small>CWT</small>
36	CAPSTAN CHAIN	<i>9 Links ⁹/₁₆ Chain, Hook one end-Swivel, 2 Long Links and Thimble at</i>	40
37	STONE HOOK	<i>For raising Grindstones etc. for Grindstone Bar. {other end.</i>	20
38	STRAW NIPPERS	<i>With 15 - ⁵/₁₆ Long Links and S Hook.</i>	5
39	HAND ICE HOOKS	<i>Supplied as shewn.</i>	—
40	STRETCHER BAR	<i>For Cross Bar Chains.</i>	—
41	S HOOK	<i>5 and 10 Tons.</i>	—
42	CRANE HOOK	<i>5, 10, 15, 20, 30, 40 & 50 Cwts, 3, 4, 5, 6, 8 & 10 Tons.</i>	—
43	CRANE HOOK	<i>5, 10, 15, 20, 30, 40, & 50 Cwts, 3, 4, 5, 6, 8 & 10 Tons.</i>	—
44	SAFETY HOOK	<i>10 & 15 Cwts, 1, 2, 3, 4, & 5 Tons.</i>	—

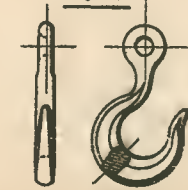
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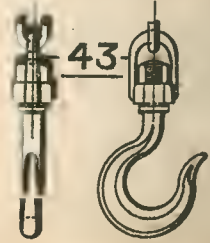
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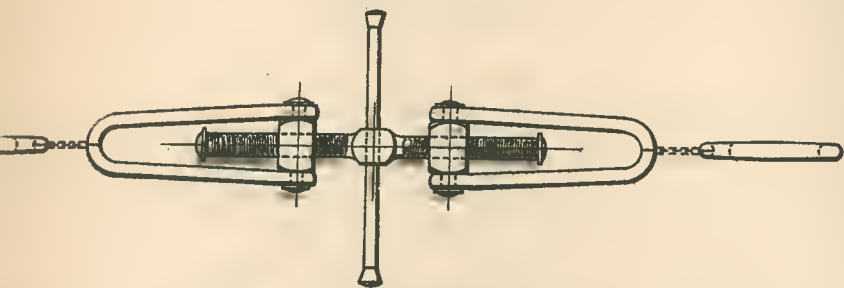


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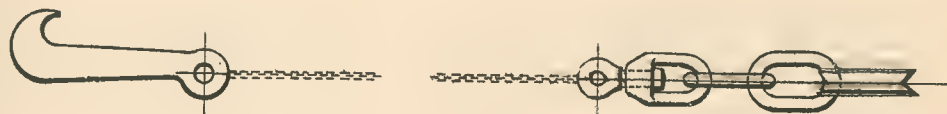


PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE.

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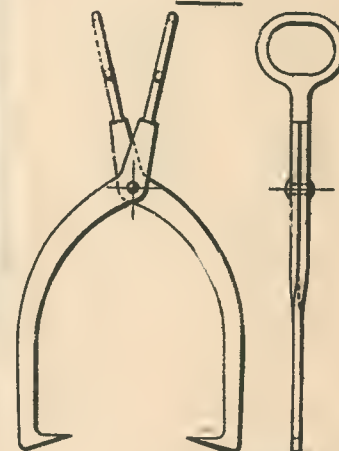
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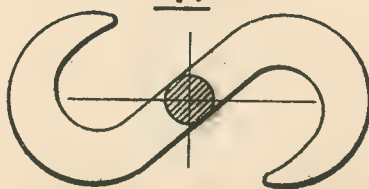


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36	CAPSTAN CHAIN	<i>9 Links ⁹/₁₆ Chain, Hook one end-Swivel, 2 Long Links and Thimble at</i>	40
37	STONE HOOK	<i>For raising Grindstones etc. for Grindstone Bar. {other end.</i>	20
38	STRAW NIPPERS	<i>With 15-³/₁₆ Long Links and S Hook.</i>	5
39	HAND ICE HOOKS	<i>Supplied as shewn.</i>	—
40	STRETCHER BAR	<i>For Cross Bar Chains.</i>	—
41	S HOOK	<i>5 and 10 Tons.</i>	—
42	CRANE HOOK	<i>5, 10, 15, 20, 30, 40 & 50 Cwts, 3, 4, 5, 6, 8 & 10 Tons.</i>	—
43	CRANE HOOK	<i>5, 10, 15, 20, 30, 40, & 50 Cwts, 3, 4, 5, 6, 8 & 10 Tons.</i>	—
44	SAFETY HOOK	<i>10 & 15 Cwts, 1, 2, 3, 4, & 5 Tons.</i>	—

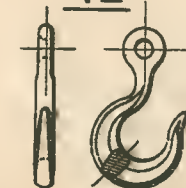
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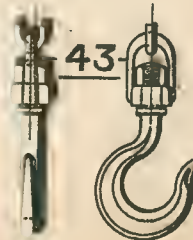
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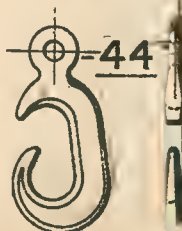
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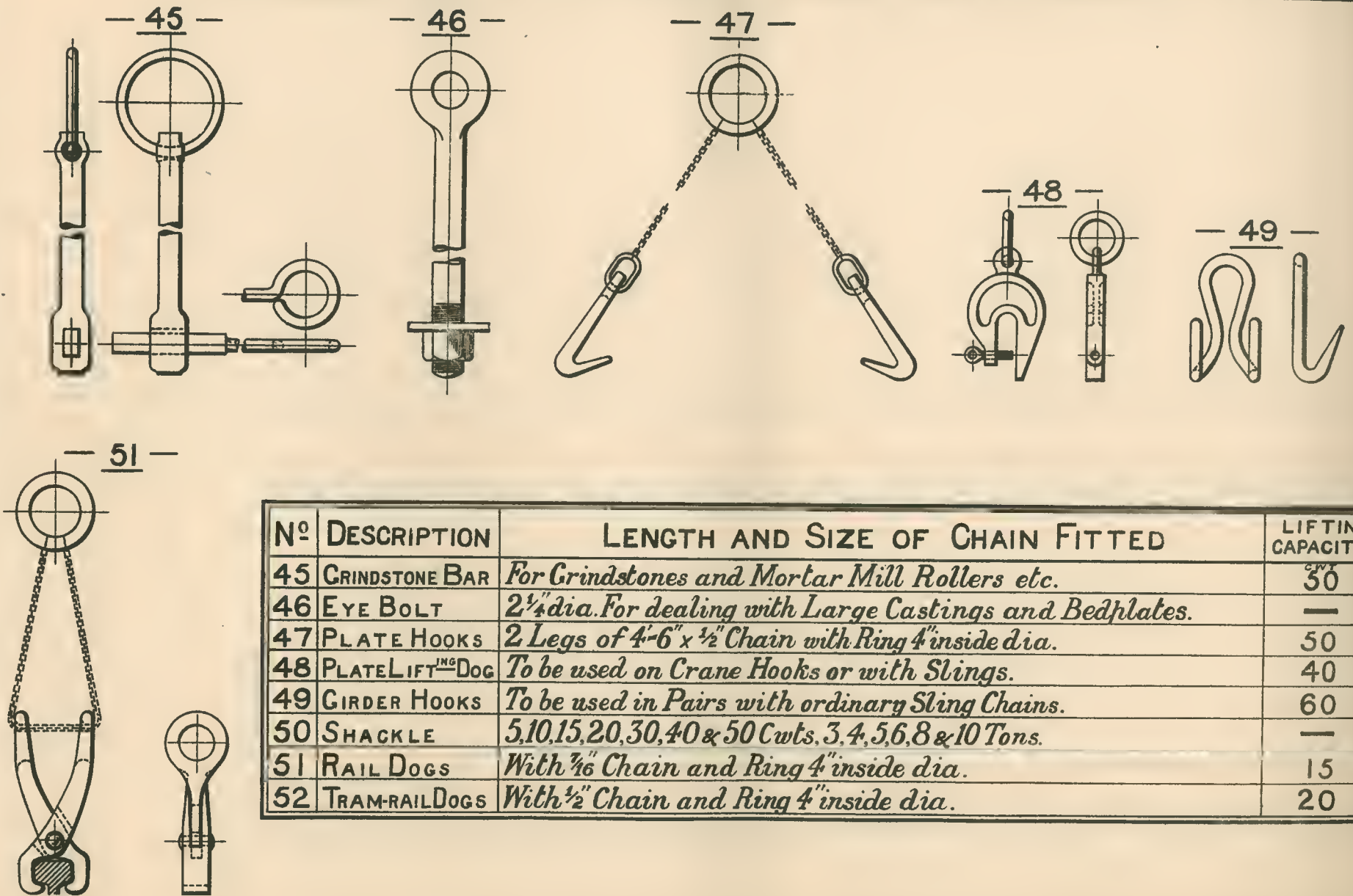
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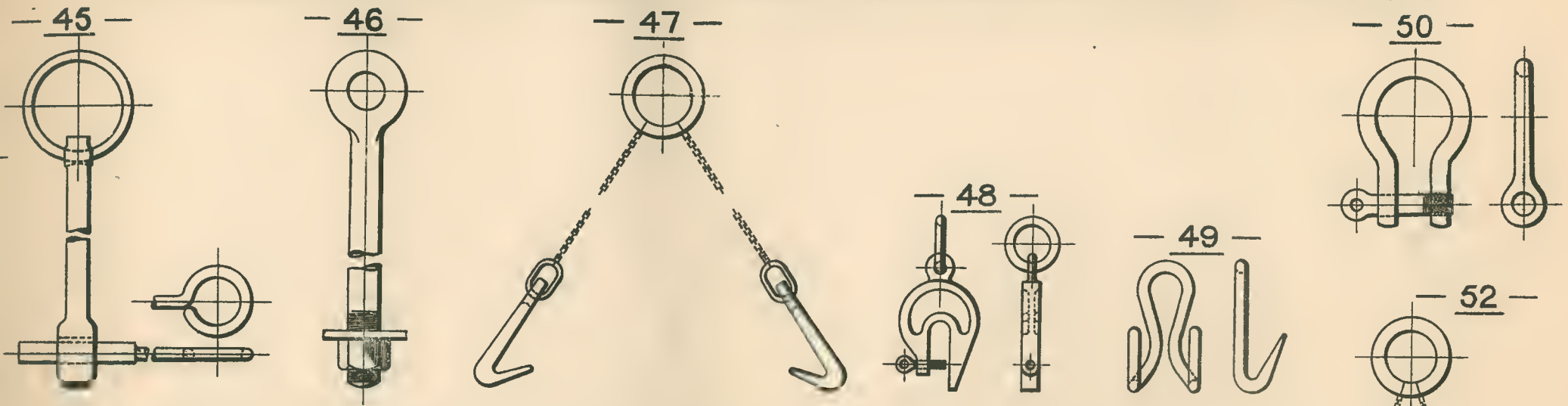


— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLES —

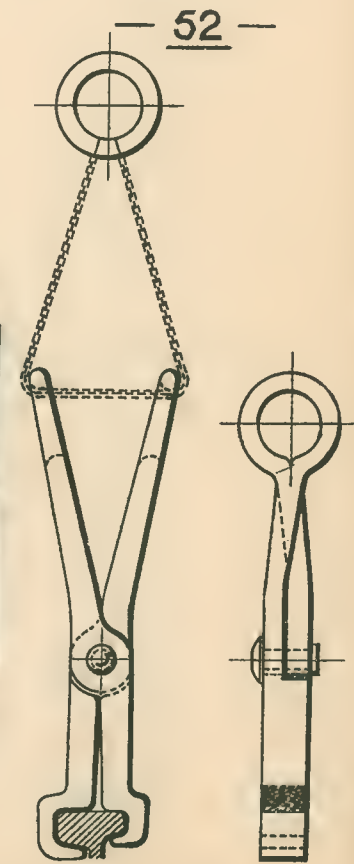


N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
45	GRINDSTONE BAR	<i>For Grindstones and Mortar Mill Rollers etc.</i>	30
46	EYE BOLT	<i>2 1/4" dia. For dealing with Large Castings and Bedplates.</i>	—
47	PLATE HOOKS	<i>2 Legs of 4'-6" x 1/2" Chain with Ring 4" inside dia.</i>	50
48	PLATE LIFT ^{ING} DOG	<i>To be used on Crane Hooks or with Slings.</i>	40
49	GIRDER HOOKS	<i>To be used in Pairs with ordinary Sling Chains.</i>	60
50	SHACKLE	<i>5, 10, 15, 20, 30, 40 & 50 Cwts, 3, 4, 5, 6, 8 & 10 Tons.</i>	—
51	RAIL DOGS	<i>With 3/16" Chain and Ring 4" inside dia.</i>	15
52	TRAM-RAIL DOGS	<i>With 1/2" Chain and Ring 4" inside dia.</i>	20

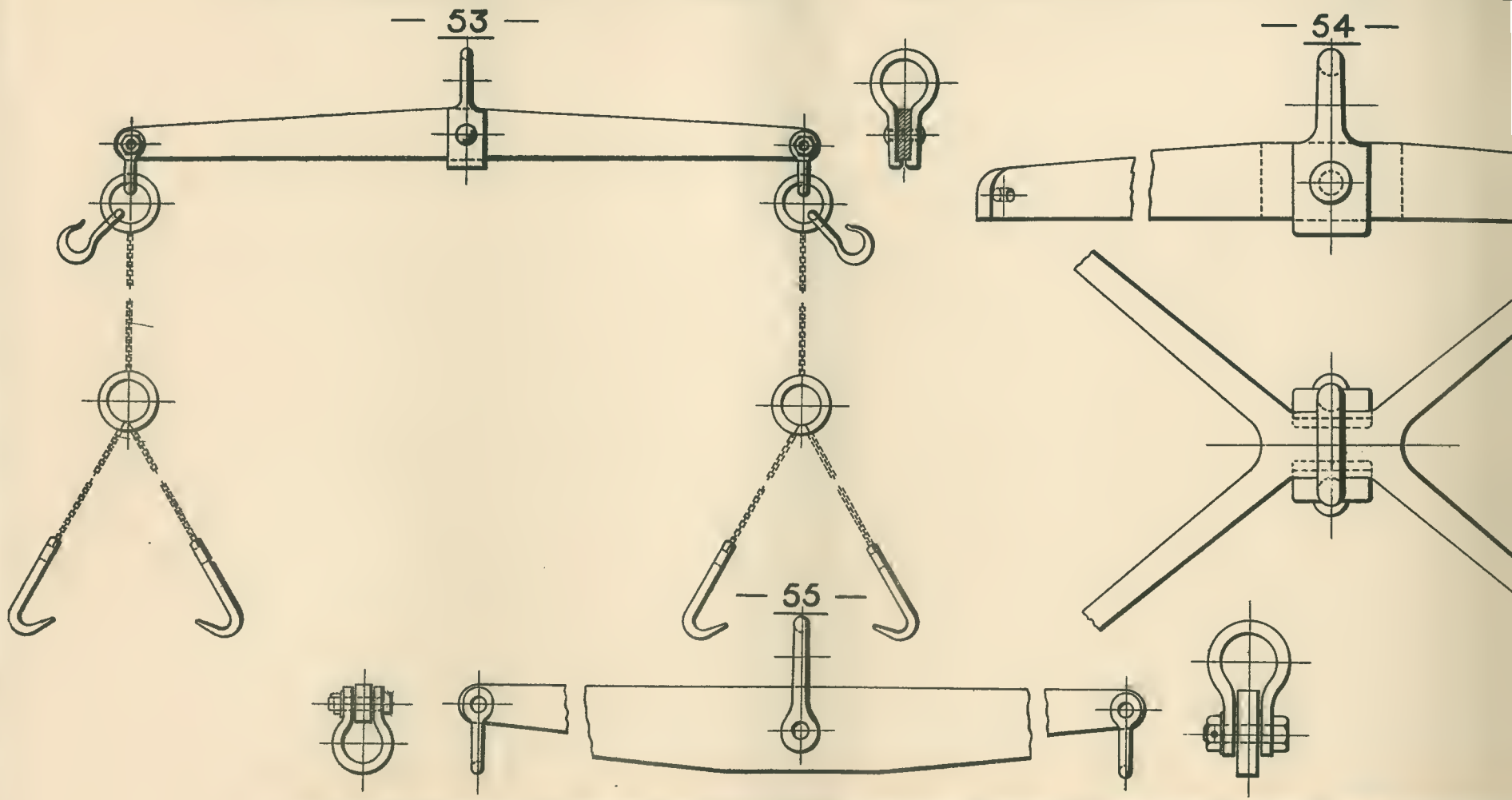
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47	PLATE HOOKS	<i>2 Legs of 4'-6" x 1/2" Chain with Ring 4" inside dia.</i>	50
48	PLATE LIFT ^{ING} DOG	<i>To be used on Crane Hooks or with Slings.</i>	40
49	GIRDER HOOKS	<i>To be used in Pairs with ordinary Sling Chains.</i>	60
50	SHACKLE	<i>5, 10, 15, 20, 30, 40 & 50 Cwts, 3, 4, 5, 6, 8 & 10 Tons.</i>	—
51	RAIL DOGS	<i>With 3/16" Chain and Ring 4" inside dia.</i>	15
52	TRAM-RAIL DOGS	<i>With 1/2" Chain and Ring 4" inside dia.</i>	20

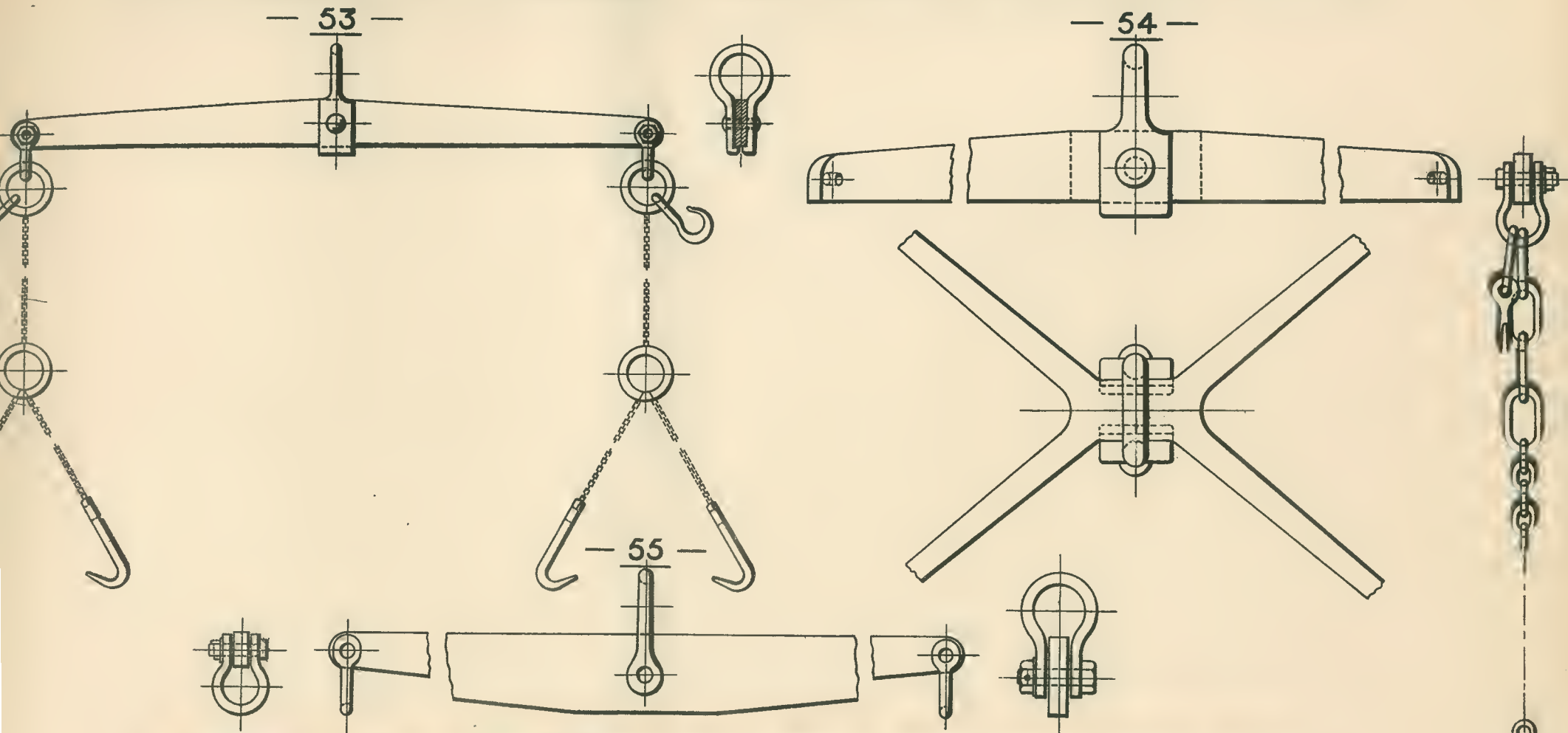


— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TAC



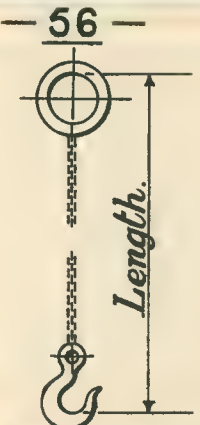
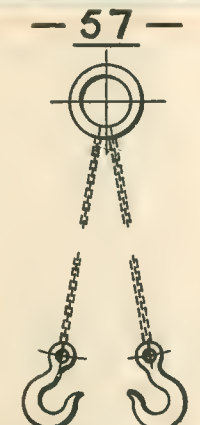
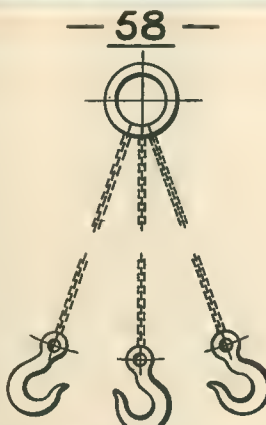
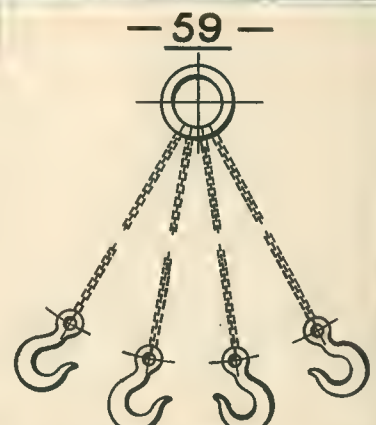
N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
53	GRATE SLING	<i>Single Leg 1'-8", Double Legs 1'-3", Rings and Hooks as shewn.</i>	^{cwt} 30
54	CROSS BARS	<i>With Shackles and Chains. 5 and 10 Tons.</i>	—
55	LIFTING BEAMS	<i>With Shackles. 2, 3, 5, and 10 Tons.</i>	—

PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE.—



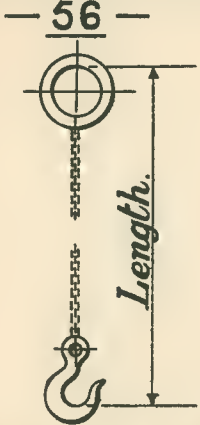
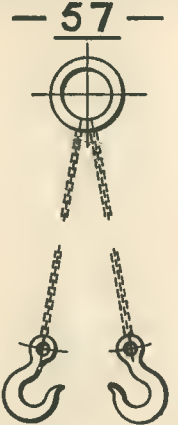
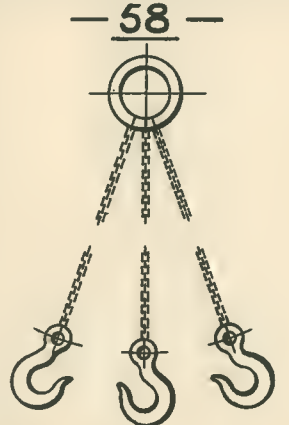
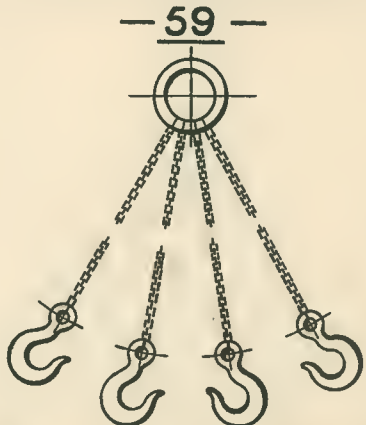
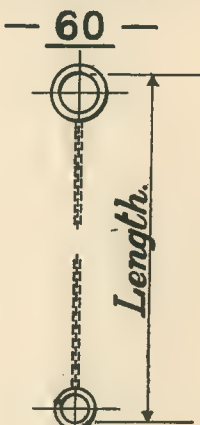
N ^o	DESCRIPTION	LENGTH AND SIZE OF CHAIN FITTED	LIFTING CAPACITY.
53	GRATE SLING	Single Leg 1'-8", Double Legs 1'-3", Rings and Hooks as shewn.	30 CWT
54	CROSS BARS	With Shackles and Chains. 5 and 10 Tons.	—
55	LIFTING BEAMS	With Shackles. 2, 3, 5, and 10 Tons.	—

— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TAC

	ONE LEGGED SLING			TWO LEGGED SLING			THREE LEGGED SLING			FOUR LEGGED SLING			
													
CAPACITY	LENGTH			LENGTH			LENGTH			LENGTH			
TONS: CWTS	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	
:15	A 5	B 10	C 15										
1:0											D 10		3/16" C
1:10	E 10	F 20			G 10								
2:10	H 10	J 20											
3:10	K 10	L 20											1/4" C
5:0	M 10	N 20			P 10	R 20		S 10			T 10		
10:0					U 10	V 20					W 10		

*Note: The Reference Letter, which is shewn to indicate Capacity and Length, to be quoted in all cases.
All Lengths of Sling Chains taken as shewn above.*

— PARTICULARS OF STANDARD LOOSE CHAINS & LIFTING TACKLE. —

		ONE LEGGED SLING			TWO LEGGED SLING			THREE LEGGED SLING			FOUR LEGGED SLING			SACK CHAIN		
																
		LENGTH			LENGTH			LENGTH			LENGTH			LENGTH		
		FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET				
5	A	5	10	15												
												D				
	E	10	F	20		G	10									
	H	10	J	20												
	K	10	L	20												
	M	10	N	20		P	10	R	20		S	10		T	10	
						U	10	V	20					W	10	

X
3/16" CHAIN 3'-6" LONG

Y
1/4" CHAIN 3'-6" LONG

Note - The Reference Letter, which is shewn to indicate Capacity and Length, to be quoted in all cases.
All Lengths of Sling Chains taken as shewn above.