BRITISH RAILWAYS WESTERN REGION

RAIL TRAVELLING CRANE DIAGRAMS

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PLANT ENGINEERS OFFICE C.M.&E.E.S DEPT. SWINDON

MARCH 1974

AXLE WEIGHTS ARE SHOWN FOR CRANE IN FULL WORKING ORDER.

- I WEIGHT ON AXLE WITH JIB SUSPENDED.
- 2 WEIGHT ON AXLE WITH JIB RESTING AND CRANE IN TRAIN ORDER. FACING PAGE GIVES A COPY OF THE LOAD PLATE AND/OR CAUTION PLATE AS ATTACHED TO THE CRANE.

---- CAUTTON ----

TO BE SMITTED WITH CARE. MINIMON RADIUS TO BE MECOTIATED : 5 CHAINS.

EXPORE LIFTING JIB FROM MATCH TRUCK. SPRING STOPS MUST BE SCREAMED DOWN HAND TIGHT ON TO SPRINGS AND NOT NOVED FROM THIS POSITION UNDER ANY CIRCUNSTANCES. THE JIB CAN THEN HE RAISED FROM THE NATCH TRUCK AND TAIL LOCKING SCREWS RELEASED.

IF CRAME IS STANDING ON CURVE, TAIL LOCKS MUST BE RELEASED FIRST, SUPERSTRUCTURE SLEMED LINO LINE WITH JIB, AND JIB RAISED FROM MATCH TRUCK. TRAVEL CLUTCH IN CRAME CAB MUST BE ENGAGED AND BOTH HANDMERLS ON CRAME CARRIAGE ROTATED TO THE "IM" POSITION.

METORE TRAVELLING IN TRAIN, RELIEVING BOGIES MUST HE ATTACHED TO CRANE, JIB LONGERED ONTO MATCH TRUCK AND TAIL LOCKING SCREME ENGAGED, SLEWING SUPERSTRUCTURE IF NECESSARY, SPRING STOPS MIST BE SCREWED UP CLEAR OF SPRINGS AND TRAVEL GRAR DISENGACED.

WHEN WORKING ON BLOCKED DUTIES OUTRIGGERS MUST BE PULLED OUT TO MAXIMUM POSITION AND JACKS TIGHTENED. CORNER JACKS MUST ALSO BE TIGHTENED, BUT CARE MUST BE TAKEN NOT TO PULL ANY JACKS DOWN EXCESSIVELY. ANY ADJUSTMENT MADE AFTER LIFTING SHOULD ONLY HE TO TAKE UP ANY COMSOLIDATION OF THE CROUND.

TO EMPLETE COMPLETE CONTROL OF LOAD BEING LIFTED, MAIN HOIST - AUXILIARY HOIST CLUTCH MUST NOT ME DISHEDAGED .HILL LOAD IS SUSPENDED FROM THE RESPECTIVE HOOK.

TARE WEIGHT OF LIFTING HEAM IS 2 TONS 4 ONT AND CAN ONLY HE HANDLED BY CRAME AT A RADIUS IN EXCESS OF 35'-O" (MAIN HOOK) IF JIB IS DIRECTLY DOWN TRACK.

	MAIN HOIST		
RADIUS	HT. OF LIFT	OVERALL CRAME HT.	
401 On	32' 0"	451 OF	
351 0"	361 9"	49:10	
301 OF	391 611	531 3"	
251 0	11 9"	561 O#	
201 0	43' 6"	581 O#	
20. 0≖ 18: 0≖	13' 9"	581 9"	
	AUXILIARY HOOK		
43' 6"	341 On	451 90	
201 88	19' 7"	581 9#	

WAYTHEM SPEED 60 M.F.E.

TRAIN E	FAKE.
Vacuum fit	ted.
	maked on crane
2 " "	truck.
	ke Pressure
Match Tru	ck Pressure
	19.69 tons

LOAD PLATE

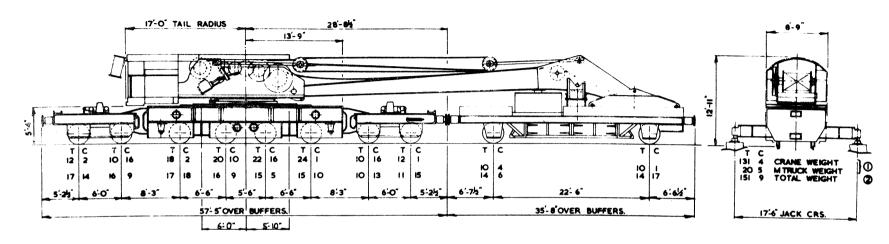
THIS CRANE IS REGISTERED TO LIFT AND SLEW WITH RETENSION COMMERCE FULLY OUT AND CARRIAGE CORNER JACKS DOWN.

MAIN HOIST		
RADIUS	TEAET BYCK	2" SUPERBLEVATION
181 0	75 YOUS	NOT TO ME 83800
20 ° 0"	65 TOKS	64.25 TORS
251 0"	LO TORS	39.75 TORS
301 OH	30 TOMS	29.50 TORS
35' O"	20 TONS	19.75 TOKS
TO: O:	1.5 TORS	14.75 TORS
AUXILIARY HOIST		The second secon
431 6"	12 TOKS	11.75 TORS
FOR MOVING SLOW	LY THIS CRAME IS REG	ISTERED TO LIFT AND S
AUXILIARY HOIST	and the second of the second o	The second section of the second section of the second section of the second section s
201 8*	12,00 TOKS	NOT TO BE USED
221 9*	10.00 TONS	9.50 TOBS
27'10"	6.50 TONS	6.00 TOES
33 ° O#	4.00 TONS	3.75 TONS
38 i 3"	2.25 TONS	2.00 TORS
121 6	1.00 TONS	0.75 TORS
431 64		
MAIN HOIST		

LADRN OR UNLADEN AT LESS THAN THE FOLLOWING RADII:-

MAIN HOIST NOT LESS THAN 20'-O" RADIUS 2" SUPERBLEVATION 2" SUPERELEVATION AWX HOIST NOT LESS THAN 22'-9" RADIUS

THE RADIUS FOR ALL SUPERELEVATION DUTIES IS MEASURED WITH THE JIB AT RIGHT ANGLES TO THE CARRIAGE AND POINTING TOWARDS THE LOW SLDE OF THE TRACK.



MAXIMUM SPEED IN TRAIN 60M.P.H. R.A.7

CRANE No. 141 142.

COWANS SHELDON

75 TON STEAM TRAVELLING CRANE

CAUTION

TO BE SHUNTED WITH CARE.

SPRING RELIEVING SCREWS TO BE SET BEFORE JIB IS LIFTED OFF MATCH WAGON AND RELIEVING BOGIES RELEASED WHEN STATIONARY ALTH EXTENSION GLIDERS FULLY OUT AND CLIPS SECURED TO HAILS THIS CRAFE IS REGISTERED TO LIFT AND SIEW:

45 TONS at 20 ft. RADIUS 25 " " 30 ft. " 16 " " 40 ft. "

POL MOVING SLOWLY WITH LOADS THIS CRAME IS REGISTERED TO LIFT AND SLEW:-

15 TONS at 20 ft. RADIUS 8 " " 30 ft. " 4.5 " " 40 ft. "

TAIL JACKS TO BE ADJUSTED BEFORE JIB IS LOWERED ON MATCH WAGON.

SPLING RELIEVING SCREWS MUST NOT BE SCREWED FREE UNLESS JIB IS ON MATCH WAGON AND RELIEVING BOGIES ADJUSTED. THESE INSTRUCTIONS ARE FOR WORKING ON 'A' LEVEL ROAD.

PATHEN ME. IC. C. MILETING

MINIMUM CURVE - 5 CHAINS.

RADIUS	HT. OF LIFT	OVERALL CRAME HT.	TRAIN PIPE
401 04	221 0"	35' 0"	Vacuum through pipe only.
301 04	321 6"	44' 3"	
201 04	381 0"	48' 6"	

FOR WORKING ON SUPERBLEVATED TRACK THIS CRASE IS REGISTERED TO LIFT AND SLEW UNDER PREE ON RAIL CONDITIONS:

SUPERFLEVATION					
	22' 0"	26' (**	76° (°°	30.0	4C. 0-
1 IN. 2 " 3 " 4 "	12.75 T 12. 4 T	11. 4 T	9.45	7.35	4. 4. 7

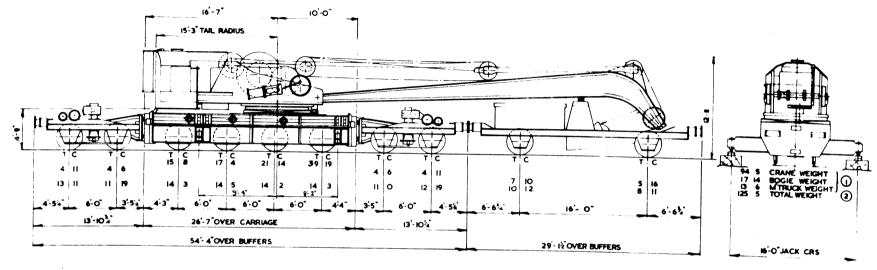
FOR WORKING ON SUPERELEVATED TRACK UNDER SECTION STILLS CRANE IS REGISTERED TO LIFT AND SLED:

SUPERELEVATION	RADIUS			
	22' 0"	24' CF 76' CF		
1 IN 2 " 3 " 4 "	39. 0 T 38. 0 T	35. C T 31. C : 34. 5 T 36. C T 35. 5 T 36. C T 25. 5 T 26. C T	24. 0 5	15.25 T

THE RADIUS FOR ALL SUFFRELEVATED DUTIES IS MEASURED WITH JIB ON LOW SIDE OF TRACK. DUE TO BING TAIL MEAVY THE SLAVE MUST NOT WORK LADEN OR UNLADEN WITH THE JIB AT LESS THAN THE MINIMUM RADIUS SHOWN.

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MAXIMUM SPEED IN TRAIN 45 M.RH. R.A.S.

CRANE No. 16. 18. 19 151

RANSOMES & RAPIER.

45 TON STEAM TRAVELLING CRANE.

33 TON STEAM CRAME

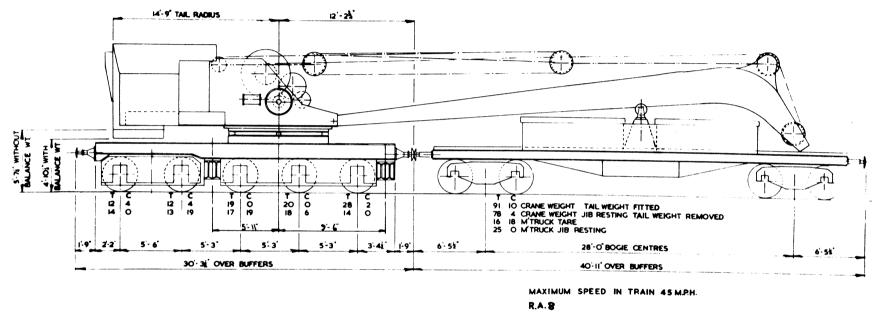
CAUTION	
TO BE MOVED WITH CARE	
BEFORE THIS CRANE IS ALLOWED TO TRAVEL	
ON THE MAIN LINE, THE SPRING BLOCKS MUST	
BE REMOVED, JIB LOWERED ON TO MATCH TRUCK	
AND SECURED BY CHAINS, BALANCE WEIGHT	
REMOVED AND PLACED IN MATCH TRUCK.	
4 EXTENSION GIRDERS MAY REMAIN IN POSITION.	
SPRING BLOCKS MUST BE PLACED IN POSITION BEFORE LIFTING.	
POR MCVING SLOWLY WITH LOADS, WITHOUT BALANCE WEIGHT	
IN POSITION, THE CRANE IS REGISTERED TO LIFT:-	
101 Tons at 20 feet radius	
7 n n 25 n n	
5½ n n 30 n n	
4 и и 35 и и	
72	
FOR MCVING SLOWLY WITH LOADS WITH BALANCE	
WEIGHT IN POSITION, THE CRANE IS REGISTERED	
TO LIFT:-	
14 " " 20 " "	
10 4 4 25 4 4	
7½ " " 30 " "	
6 " " 35 " "	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
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	STAT	10NAF	XY I	NIT!	HOUT :	BALAN	Œ
WEIGH	T IN	POS.	TI	ON,	BUT 1	HTIW	EXTENS
GIRDE	RS F	ULLY	OU'	IA 1	D CL	IPS S	ECURED
RAILS	THE	CRAI	Œ	IS I	EGIS	TERED	TO LIE
	33	TONS	AT	20	FEET	RADI	JS
	25	m	21	25	15	H.	
	19		Ħ	30	82	11	
	15	77	Ħ	35	Ħ	Ħ	
					Ħ		
WHEN	STAT	'IONA	RY I	NIT	H BAL	ANCE V	VEIGHT
IN PO	SITI	ON, I	XT	ENS.	ON G	IRDER	S FULLY
						RAIL	
CRANE	IS	REGIS	STE	RED	TO L	IFT:-	
	36	TONS	AT	20	FEFT	RADI	JS
	32	×	Ħ	25	11	17	
		H	Ħ	30	17 17	×	
	25				п	11	
	25 20	n	17	35			
	20	n				**	

RADIUS	HT. OF LIFT.	CVERALL CRANE HT.
401 0"	22 f 6 ii	34° 0=
351 0"	28 f 9 ii	39° 3°
301 0"	33 f 0 ii	42° 9°
251 0"	36 f 3 ii	44° 9°
201 0"	38 f 3 ii	46° 6°

MINIMUM CURVE - 4 CHAIN MAXIMUM SPEED 45 M.F.E.

TRAIN BAKE.



CRANE No. 2

JACK CENTRES 16-0"

RANSOMES & RAPIER.

36 TON STEAM TRAVELLING CRANE

CAUTION

TO BE SHUNTED WITH CARE

MINIMUM RADIUS TO BE NEGOTIATED - 5 CHAINS BEFORE TRAVELLING IN TRAIN JIB TO BE LOWERED ON TO MATCHTRUCK, THEN TAIL LOCKING SCREWS TO BE ENGAGED, THE SUPER BEING SLEWED IF NECESSARY. TRAVEL GEAR TO BE DISENGAGED AND SPRING JACKING

IF NECESSARY. THAVEL GEAR TO BE DISENTAGED AND SPRING JACKING SCIENS TO BE RIGHT UP CLEAR OF THE SPRINGS.

BEFORE LIFTING THE SPRING JACKING SCREWS TO BE SCREWED DOWN ON TO CHANE SPRINGS, THE JIB TO BE RAISED FROM MATCHTRUCK AND TAIL LOCKS RELEASED. IF CRANE IS STANDING ON A CURVE TAIL LOCKS TO

BE RELEASED FIRST, AND SUPER. SLEWED UNTIL IT IS IN LINE WITH JIB BEFORE THE JIB IS RAISED. TO ENGAGEDTRAVEL GEAR. TRAVEL CLUTCH IN CRANE CAB TO BE

ENGAGED AND THEN BOTH HAND WHEELS ON CRANE CARRIAGE TO BE RETATED TO THE IN POSITION.

ICADS EXCEPLING 10 TONS ARE NOT TO BE HOISTED IN FAST GEAR AND ARE NOT TO BE LIFTED BY THE SHACKLE THROUGH THE RAMSHORN HOCK.

S.W.L. OF HAULING WINCH 6 TONS

HT. OF OVERALL

RADIUS	LIFT.	CRANE HT
401 On	241 611	361 911
351 0"	291 0"	421 0"
301 0"	331 6"	451 9"
251 0"	361 3"	481 6"
201 On	38' 3"	501 9"
16' 0"	391 6"	521 0"
	401 0" 351 0" 301 0" 251 0" 201 0"	401 0n 241 6n 351 0n 291 0n 301 0n 331 6n 251 0n 361 3n 201 0n 381 3n

MAXIMUM SPEED 60 M.P.H.

LOAD PLATS

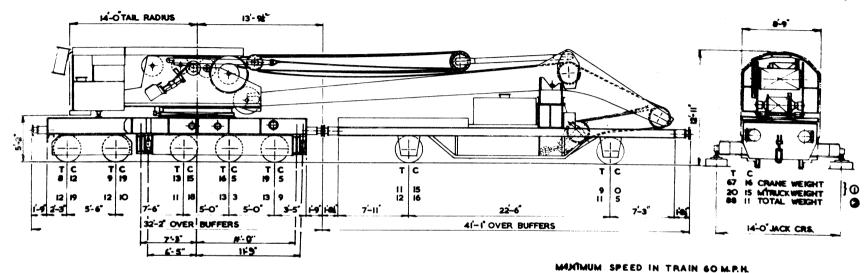
THIS CRANE IS REGISTERED TO LIFT AND SLEW WITH EXTENSION GIRDERS FULLY OUT LEVEL TRACK 2" SUPERELEVATION RADIUS 161 Off NOT TO BE USED NOT TO BE USED 25 T. 24 T. NOT TO BE USED 201 0" 17 T. 251 0" 17.5 T. 16 T. 301 On 13 12.75T. 12 T. 9.75T. 9.5 T. 10 351 0"

7.5 T. 701 On FOR MOVING SLOWLY THIS CRANE IS REGISTERED TO LIFT AND SLEW 161 O" 10 T. NOT TO BE USED NOT TO BE USED 6.5 T. NOT TO BE USED 301 0" 7 T. 4.75T. 251 0" 4.25T. 2.75T. 301 011 3.25T. 3 T. 2.25T. 1.75T. 351 0" 401 On 1.5 T. 1.25T. 1.5 T.

WHEN STANDING ON A SUFERELEVATED TRACK THE CRAME MUST NOT WORK EITHER LADEN OR UNLADEN AT A RADIUS LESS THAN 20' OF FOR 2" SUFFRELEVATION AND 25' OF FOR 4" SUFERELEVATION.

THE RADIUS FOR ALL SUPERELEVATION DUTIES IS MEASURED WITH THE JIB ON THE LOW SIDE OF THE TRACK.

Train Brake.
Vacuum fitted on Grane & Match Wagon Garriage Braked on 3 axles.
Brake pressure 24.4 tons.
Match Wagon Braked on 2 axles.
Brake pressure 13.6 tons.



R.A.S.

CRANE No 139

COWANS SHELDON

30 TON STEAM TRAVELLING CRANE

CAUTION

TO BE SHUMBED WITH CARE.

METORS. TRAVELLING IN TRAIN THE JIB MUST BE LOWERED ON TO MATCH TRUCK JIB POOT PINS REMOVED, MOSE CHAINS SECURED AND TAIL LOCKS SCREMED UF TIGHT TO ENSURE SUPERSTRUCTURE IS BEARING ON ROLLER PATH AT PRONT OF CRAME WHEN STANDING ON CURVE, CAB TO BE SLEWED AFTER JIB POOT PINS REMOVED SO THAT THE TAIL MAY BE LOCKED AS ABOVE.

MINIMUM RADIUS TO BE MECOTIATED: 3 CHAINS.

FOR MORKING ON LEVEL TRACK.

THIS CRAME IS REGISTERED TO LIFT AND SLEW WHEN BLOCKED.

15 tens at 18 feet radius
12½ " " 20 " "
10 " " 24 " "
8½ " " 28 " "
7½ " " 30 " "
6 " " 32 " "

FOR MCVING SLOWLY ON LEVEL TRACK THIS CRAME IS REGISTERED TO LIFT AND SLEW.

15 tens at 15 feet radius.
91 " " 20 " "
7 " " 24'6" "
5 " " 30 feet "

WHIRM WORKING WITH SINGLE PART HOFE MAXIMUM LOAD NOT TO EXCEED 3 TONS.

ATTOMS.

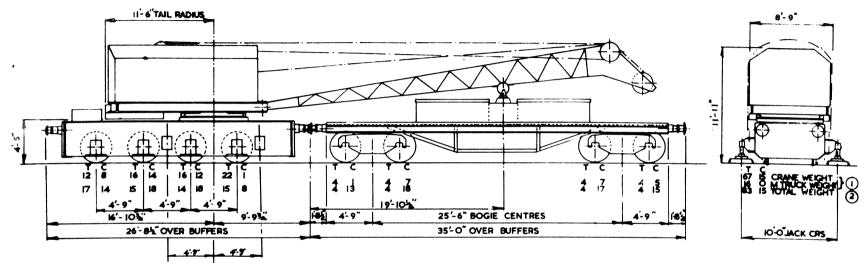
WITH JIB REMOVED, CRANE MUST NOT BE SLEMED AT RIGHT ANGLES TO TRACK, UNLESS GURDERS ARE CUT AND PROPPED.

FORWARD	PRIE	ON RAI	L.		N	OCEUED.		
SUPER ELEVATION	.2416"	30° 0"	3510"	2410"	26'0"	010"	3210"	3510*
Inches.	T	7. C.	T. C.	T. C.	T, C.	T.C.	T. C.	T. C.
1 2	6.13. 6. 9	4.15	2.18	9.13 9.9	8. 4 8. 1	7.4 7.2	5.16 5.15	4. 7
3	6.6	4.10	2.15	9.6	7.19	7.0	5.13	4.5
5	6.3 5.19	4.8	2.13	9.2	7.15 7.14	6.17	5.11	4.4
6	5.15	4.2	2.10	8.15	7.10	6.13	5.7	4.0

RADIUS.	HEIGHT OF LIFT.	OVERALL CRANE HEIGHT
15'0" 18'0" 20'0" 24'0" 24'6" 28'0" 30'0" 32'0" 35'0"	35'11" 35'2" 34'4" 32'5" 32'2" 30'1" 28'7" 27'2" 23'10"	4419" 4319" 4310" 4110" 4019" 3816" 3710" 3513"

TRAIN BRAKE.
Vacuum Through Fipe only.

Maximum speed 45 m.p.h.



CRANE No 352/3/4/5/6

MAXIMUM SPEED IN TRAIN 45 M.P.H.

BOOTH.

15 TON DIESEL HYDRAULIC CRANE

15 TON STEAM CRANE

CAUTION

BEFORE THIS CRAME IS ALLOWED TO TRAVEL ON THE MAIN LINE THE SPRING STOPS MUST HE UMBLOCKED, THE JIB LOWERED ON MATCH TRUCK AND JIB AND TAIL SECURED BY MOSE AND TAIL CHAINS. THE SPRING STOPS MUST BE BLOCKED BEFORE LIFTING. FOR MOVING SLOWLY WITH LOADS THIS CRAME IS REGISTERED TO LIFT:-

52 TONS AT 20 FEET RADIUS

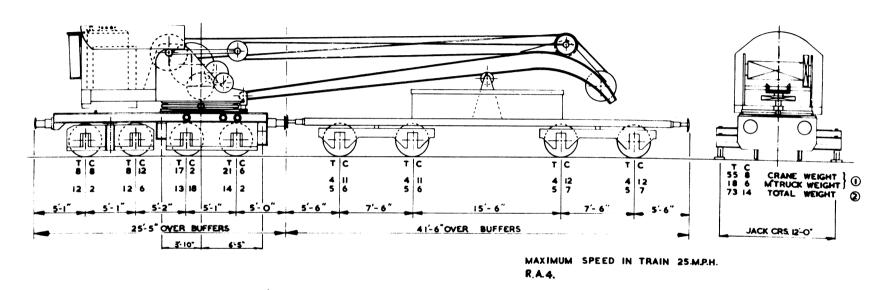
WHEN STATIONARY WITH EXTENSION GIRDERS FULLY OUT AND RAIL CLIPS SECURED TO RAILS THIS CRANE IS REGISTERED TO LIFT:-

15 TONS AT 20 FEET RADIUS 10 " " 25 " " 6 " " 30 " "

THESE INSTRUCTIONS ARE FOR LIFTING ON A LEVEL ROAD.

RADIUS	HT. OF LIFT	OVERALL CRAME HT.
301 On	251 41	341 34
251 On	281 61	381 04
201 On	311 91	401 44

MINIMUM CURVE - 4 CHAIN MAXIMUM SPEED 25 M.P.H.



CRANE No 15

SMITH, RODLEY

15 TON STEAM TRAVELLING CRANE

CAUTTOM.

TO BE SHUMTED WITH CARE.

ALL RADII MEASURED FROM THE CENTRE OF THE MOTE: TRACK TO CENTRE OF THE LOADED HOOK WITH THE JIB AT RIGHT ANGLES TO THE TRACK.

HARMING: WHEN THE CRANE IS WORKING ON SUPER-BLEVATED TRACK THE CAPACITY OF EACH RADIUS MUST NOT THE KXCKLDED.

S.W.L. WITH SINGLE ROPE UP TO 5 TONS WITH SMATCH BLOCK OVER 5 TONS.

THIS CHANE IS REGISTERED TO LIFT & SLEW WHEN BLOCKED

15 TONS 18 feet HADIUS. 10.6 "

9.1 " 7.85" 27 " 30 " 5.35"

POR MOVING SLOWLY ON LEVEL TRACK THIS CRANE IS REGISTRAND

35 "

TO LIFT AND SLEW

15 TONS AT 16 feet HADIES. 12

> 9.6 * 7.95" 6.4 . 27

5.0 " 3.65 33

3.0 " 35 2.35 2.0 "

FOR WORKING ON SUPER-KLEVATED TRACK THIS CRAME IS REGISTERED TO LIFT AND SLEW ON BAIL COMMITTOMS:								
PORWARD SUPER- KLEVATE		Prese on	RAILS.			BLOCK	5 0.	
INCHES.	16'0" T C	22' 0" T C	28'0" T C	35'0" T C	16'0" T C	22'0" T C	28'0" T C	35'0" T C
1 2 3	13.15 12.10 11. 5 10.0	8.10 7.15 7. 2 6.0	5.15 5. 5 4.16 4.10	3.0 3.0 3.0	13.15 12.10 11.5 10.0	9.0 8.5 7.5 6.10	6.15 6.0 5.10	4.0 3.15 3.5

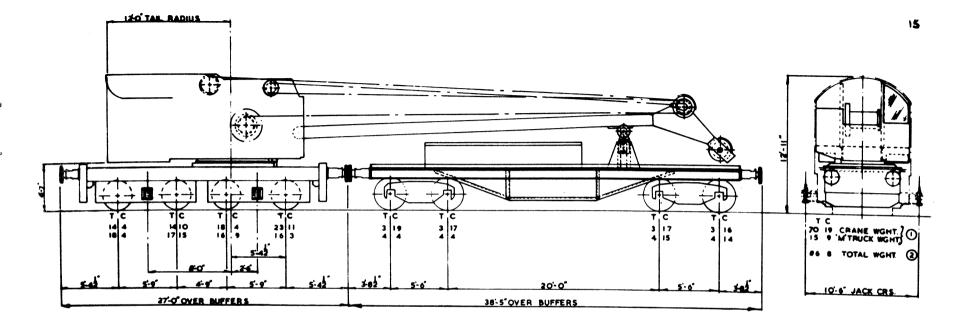
RADIUS	HT.OF LIFT.	OVERALL CRAME HT.
16.0"	35.9"	47'2"
18'0"	35'7"	4618"
22'0"	3416"	4510"
28'0"	30'2"	4117"
35'0"	25'0"	37'0"
42'0"	15'5"	29'4"

HEIGHTS GIVEN ARE WHEN 3 PARTS OF ROPE ARE USED.

TRAIN BRAKE. Air Brake only.

Vacuum through pipe on Crane & Match truck.

4.5 "



MINIMUM TRACK - 5 CHAIN CURVE

TAYLOR & HUBBARD

15 TON DIESEL ELECTRIC CRANE

199000/26 CCM 17.12,71

CAUTION.

to be shunted with care.

All radii shown are true measurements from centre line of king post to crame hook and must be maintained by trimming the jib when alowing superstructure.

For working on superelevated track this crame is registered to hift and also under free on rail conditions.

Super Nevation.	16'0"	2010"	2410"	26¹0"	3210"	3610"	3916"
2" 4" 6"	5.50T		2.75T.	3		1.50T. 1.25T 1.00T.	1.007

For working on superelevated track this crame is registered to lift and also under blocked conditions.

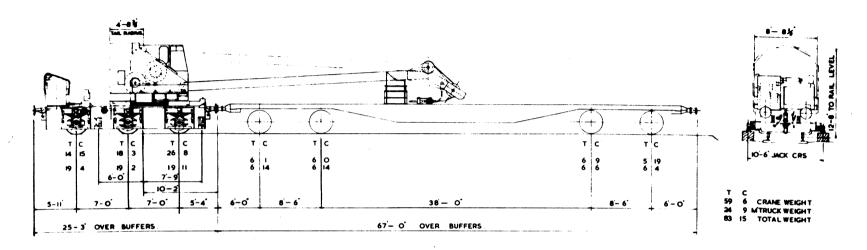
Super Elevation.	1610"	2010"	24,10°	2810"	3210"	3610°	3916"
2"	10.007.	6.75T.	5.00T	3.75T	3.00T	2.25T	1.50T
4.	790'8	5.50T	4.00T	3.00T	2.25T	1.75T	1.25T
6=	6.00T	4.25T	3.257	2.50T	1.75T	1.25T	1.00T .

Crane on level track

Radina	Pully Propped	Pree on Rail
12'0"	12.00 Tons	12.00 Tons
16.0"	12.00 "	8.25 "
2010"	8.00 "	5.75 "
2410"	6.00 "	4.25 "
2810"	4.50 "	3.25 "
3210"	3.50 "	2.50 "
36'0"	2.75 "	2.00 "
39'6"	2.00 "	1.50 "

Brake isolating cock on Crane carriage to be set to closed before running in train and set to open before operating crane.

> TRAIN BRAKE Air brake only. Vacuum through pipe only.



MAX SPEED IN TRAIN - 65 M.P.H

MIN TRACK - 4 CHAIN CURVE

CRANE No 363 COWANS SHELDON.

0

12 TON DIESEL ELECTRIC CRANE.

	O TON DIESEL CRAI	Œ					
CAUTION TO BE SHINTED WITH CARE	POR WORKING ON UNDER PREE ON R	SUPERELEVAT	TED TRACK '	THIS CRANE	E IS REGIS	STERED TO LI	IFT AND SLEW
BEFORE TRAVELLING IN TRAIN THE JIB MUST BE LOWERED ONTO MATCH TRUCK, JIB POOT PINS REHOVED, NOSE CHAINS SECURED AND TAIL LOCKS SCREWED UP	FORWARD SUPERELEVATION	17'	201	251	30'	351	alleriance and a green property and a
TIGHT TO ENSURE SUPERSTRUCTURE IS BEARING ON HOLLER PATH AT FRONT OF CRANE.	1° 2°	9.5 T. 9.25 T.	7.25 T. 7.0 T.	4.5 T.	3.25 T. 3.25 T.	2.25 T. 2.25 T.	The second section is a second
WHEN STANDING ON CURVE, CAB TO BE SLEWED AFTER JIB FOOT PINS REMOVED, SO THAT THE TAIL MAY BE LOCKED AS ABOVE.	3" 4" 5"	9.0 T. 8.75 T. 8.5 T.	6.75 T. 6.5 T. 6.5 T.	4.25 T.	3.0 T.	2.25 T.	
MINIMUM RADIUS TO BE NEGOTIATED : 3 CHAINS	6 n	8.0 T.	6.25 T.	4.0 T.	2.75 T.	2.0 T.	
FOR WORKING ON LEVEL TRACK:	FOR WORKING ON REGISTERED TO I	IFT AND SLI	EW.	UNDER BLOC	KED CONDI	TIONS THIS	CRANE IS
THIS CRANE IS REGISTERED TO LIFT AND SLEW WHEN BLOCKED: 10 TONS AT 20 FEET RADIUS	FORWARD SUPERELEVATION	201	281	301	321	351	
8½ " " 28 " " 7 " " 30 " "	1" 2"	9.75 T.	8.25 T. 8.0 T.	6.75 T. 6.75 T.	5.25 T. 5.25 T.	3.25 T. 3.25 T.	
5)	3" 4"	9.5 TT. 9.25 T.	8.0 T. 7.75 T.	6.5 T. 6.5 T.	5.0 T.	3.25 T.	
WHEN MOVING SLOWLY THIS CRAME IS REGISTERED TO LIFT AND SLEW:	5* 6*	9.0 T. 8.75 T.	7.75 T. 7.5 T.	6.25 T. 6.25 T.	5.0 T.		
72	RADII GIVEN ARE	RADII SHO	WN BY CRAN	E GRAVITY	RADIUS IN	DICATOR.	
3½ 1	RADIUS	HT. OF LIFT.		RALL B HT.	MAXIMUM S	SPEED 45 M.F	°.H.
WHEN WORKING WITH SINGLE ROPE MAXIMUM LOAD NOT TO EXCEED 2₺ TONS	351 OF	24' 0"	34	1 6"			
MAGNET WORKING	301 OF 281 OF 251 OF	291 64 311 04 321 64	37	1 34 1 98 1 98			
WHEN WORKING WITH A SINGLE MAGNET ON HOOK, MAXIMUM LOAD TO BE LIFTED BY MAGNET BOY TO EXCEED 1 TON	201 0" 171 0"	351 OH 361 OH	42	1 6H			
WHEN WORKING WITH A MAGNET ON EACH END OF SPREADER BEAM, MAXIMUM LOAD			_ 				

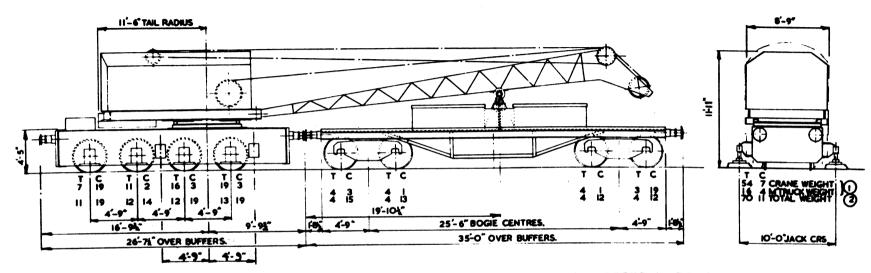
TRAIN BRAKE.
Vacuum through Pipe only.

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TO BE LIFTED BY MAGNETS NOT TO EXCEED 2 TONS DISTRIBUTED.

WHEN WORKING WITH SPREADER BEAM RADII MUST NOT EXCEED 1. 20 MT. WHEN WORKING PREE ON RAIL 2. 30 FT. WHEN WORKING BLOCKED

This PDF copy by J.D. Faulkner, 2012 (visit http://www.barrowmoremrg.co.uk)



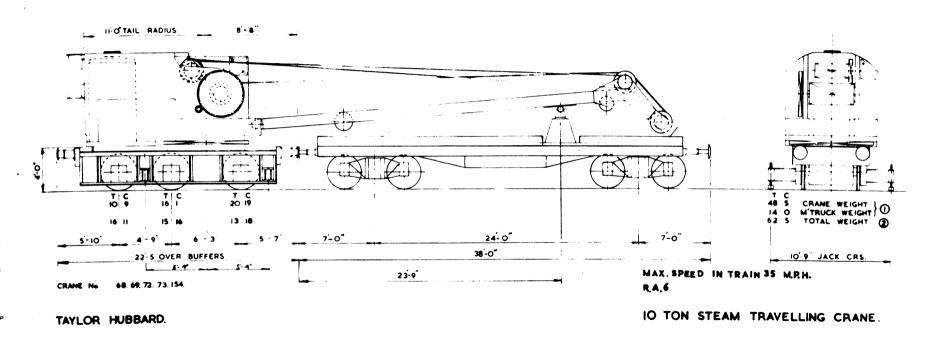
MAXIMUM SPEED IN TRAIN 45 M.P.H. RA-4.

CRANE No 347/879 350/1

BOOTH

IO TON DIESEL HYDRAULIC CRANE:

SPRING STOPS MOST IN SPRING STOPS MOST IN WHEN STATIONARY WITE :-	CAUTION RE. DEFORE THIS CRAME IS ALLOWED TO TRAVEL OF MAIN LINE, SCHOOL UP, JIB LOWERD OF MATCH TRECK AND TAIL LOCK PUT IN. SCHOOL DOWN REPORE LIPTING. EXTENSION GIRDERS FULLY OUT THIS CRAME IS ENGISTERED TO LIFT	BOTTOS PRINS ON RAIL AT 2" ELEVATION RADIUS SAPE WORKING LOAD 18' 0" 7. 1 TORS 24' 0" 4. 7 TORS 30' 0" 3. 3 TORS 35' 0" 2. 2 TORS
10 TOWS at 18 PERT	RADIUS ON DOUBLE PALL OF ROPE	DUTIES CRANE SECURED AT 2º MARIATI
1 22		RADIUS SAFE WOLLING LOAD
5 * * 27 * 4 * * 32 * ·	SINGLE	
3.5 " " 35 "		18' 0" 9. 5 K@s 22' 0" 6. 7 Yes
3.7		27' 0" 4. 7 TORE
MOVING SLOWLY WITH LA	ADS THIS CRAME IS REGISTERED TO LIFT AND SLESS WITH :-	32' 0" 3. 6 2023
		35' O"
10 TOWN At 15 PEET 1	ADJUS ON DOUBLE FALL OF ROPE	•
7.5 " " 18 " 5 " " 24 "		DUTIES FREE ON RAIL AT 3" ELEVATION RADIUS SAFE NORWING LOSS
3.5 " " 30 "	SINGLE	San Caracago Maria
2.5 " " 35 "		24' 0" 4. 4 1000
••)		30' 0" 3. 0 TOWS
THESE DESTRUCTIONS AND	FOR WORKING ON LEVEL ROAD.	DUTIES CRANE SECURED AT 3" ELEVATI
RADIUS	HT. OF OVERALL LIFT CRANE HT. 23' 3" 30' 0"	RADIUS SAFE MORKING LOAD 22' O" 6. 6 TORE 27' O" 4. 7 YORS 32' O" 3. 3 TORS 35' O" 2.55 TORE
32' 0"	23' 3" 30' 0" 26' 9" 33' 6"	DUTIES FREE OF RAIL AT 4" ELEVATION
30' 0"	28' 6" 35' 6"	BARIES SAPE WORKIEG LOAD
24' 0"	33' 0" 39' 6"	24' 0" 4.05 TORS
22' 0"	32' 6" 40' 3"	30' 0" 2. 7 TORS
18' 0"	34' 0" 42' 1"	35' 0" 1.75 TONE
15' 0"	35' 9" 43' 6"	DUTIES CRAME SECURED AT 4" ELEVATION
ate .	Control of the company of the control of the contro	
		CONTRACTOR DOLL
		4.33 1000
		35' 0" 2.03 TOES



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INSTRUCTION PLATE

FOR MOVING SLOWLY ON A LEVEL ROAD, THIS CRAME IS REGISTERED TO LIFT WITH SINGLE ROPE:-

3 TONS AT 150 OF RADIUS

59 12 th 50t (1₂₃ g

2 " " 251 0"

1½ " " 30' 0" "

CRANE SECURED, EXTENSION GIRDERS FULLY OUT, AND DOUBLE ROPE:-

6 TONS AT 15' O" RADIUS

3 W W 201 OF 1

1 H H 251 OH H

CAUTION

- TO BE SHUNTED WITH CARE -

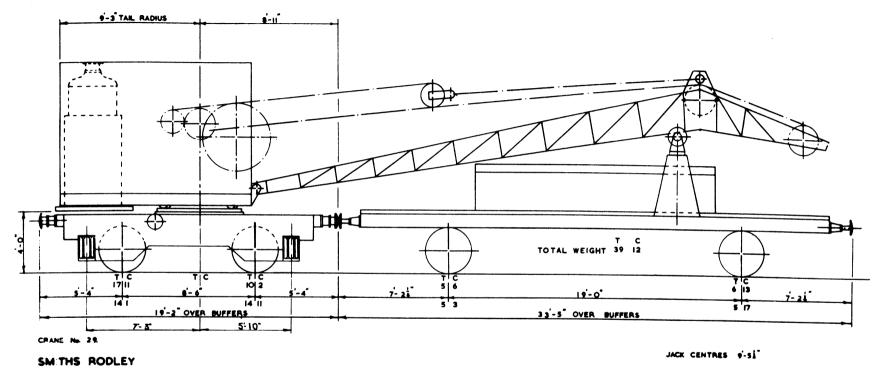
BEFORE THIS CRAME IS ALLOWED TO TRAVEL ON THE MAIN LIME, THE SPRING STOPS MUST BE SCREWED UP AND THE JIB LOWERED ON THE MATCHTRUCK AND SECURED BY THE LIB HEAD CHAINS.

THE SPRING STOPS MUST BE SCREMED DOWN BEFORE LIFTING.

6 TON STEAM CRANE

	HT. C	P LIFE	OVERALL
RADIUS	DOUBLE	SINGLE CHAIN	CRAPS HT.
301 On 251 On 201 On 151 On	221 411 271 011 301 011 321 311	261 49 301 59 331 99 351 69	321 0° 361 28 391 28 401 98

MAXIMUM SPEED 40 M.P.H.



6 TON STEAM TRAVELLING CRANE

CAUTION

TO BE SHUNTED WITH CARE

MINIMUM HADIUS CURVE TO BE NECOTIATED - 3 CHAINS

BEFORE TRAVELLING IN TRAIN THE SPRING STOPS ARE TO BE FREED, THE JIB LOWERED ON TO THE

MATCH TRUCK NOSE CHAINS SECURED, JIB FOOT LOCKING PINS REMOVED AND TAIL LOCKS SCREWED

TIGHT AND LOCKED. WHEREVER POSSIBLE TAIL LOCKS TO BE SCREWED UP TIGHT HEFORE JIB

IS FINALLY LOWERED ON TO MATCH TRUCK, SO AS TO ENSURE SUPERSTRUCTURE IS BEARING

ON ROLLER PATH AT FRONT OF CRANE AFTER JIB IS LOWERED.

THE TRAVELLING GEAR IS TO BE DISENGAGED BY ROTATING BOTH HANDWHEELS TO THE "OUT"

POSITION AND LOCKED AND THE SLEW FOOT BRAKE APPLIED AND LOCKED ON.

TO ENGAGE TRAVELLING GEAR BOTH HANDWHEELS TO BE ROTATED TO THE "IN" POSITION AND LOCKED

THE ONE AT MATCH TRUCK END OF CRANE TO BE ENGAGED FIRST.

BEFORE LIFTING, THE SPRING STOPS ARE TO BE SCREWED DOWN AND THE JIB FOOT LOCKING PINS

INSERTED FOR WORKING ON LEVEL TRACK.

THIS CRANE IS REGISTERED TO LIFT AND SLEW WITH EXTENSION GIRDERS FULLY OUT:-

5 TONS 0 CATS. AT 201 0" RADIUS 3 " 0 " " 27' 6" " 2 " 0 " " 35' 0" " 1 " 5 " " 40' 0" "

FOR MOVING SLOWLY THIS CRANE IS REGISTERED TO LIFT AND SLEW:-

5 TONS O CMTS. AT 17' OM RADIUS 3 " 0 " " 23' OM " 2 "10 " " 26' OM " 1 " 5 " " 35' OM "

WHEN WORKING WITH SINGLE PART HOPE THE MAXIMUM LOAD MUST NOT EXCEED 2 TON 10 CMTS.

MAXIDEM SPEED 40 M.P.H.

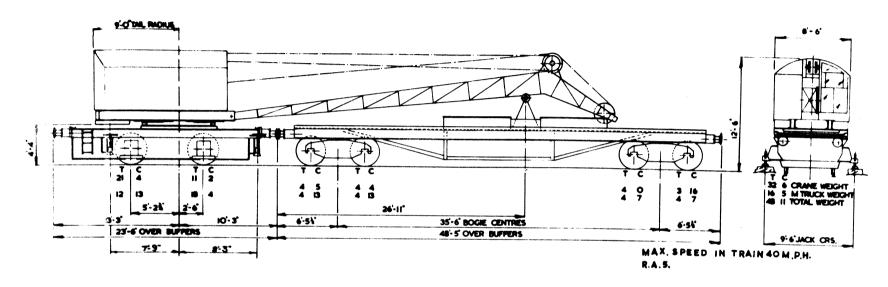
TRAIN BRAKE.
Vacuum through pipe
only.

RADIUS		SUI	PERELEVATION	
LOW SIDE		2ª	7.2	6¤
231 OH 261 OH 351 OH	2 "	7 " 5 "	2 TONS 10 CWTS 2 H 5 H 1 H 3 H LIFT AND SLEW WI	2 TONS 5 CHTS 2 " 0 " 1 " 4 "
GIRDERS FUL				The state of the s
	i TONS	o cwrsi	4 TONS CONTS	4 TONS O CHTS

WHEN STANDING ON A SUPERELEVATED TRACK THE CRAME MUST NOT

WORK LADEN OR UNLADEN AT A RADIUS LESS THAN 23' O".

RADIUS	HT. OF LIFT.	OVERALL CRANE HT.
ROPE USE	D DOUBLE	
171 On 201 On 231 On 271 61	35' 2" 34' 5" 33' 3" 31' 1"	451 311 441 311 421 911 401 311
ROPE USE	D SINGLE	
261 0" 351 0" 401 0"	29' 7" 23'11" 18' 4"	411 3" 341 3" 291 3"



CRANE No 357/8/9

SWITH

5 TON DIESEL ELECTRIC CRANE

61 TON HAND CRANE

CAUTION

BEFORE THIS CRAME IS ALLOWED TO TRAVEL ON THE MAIN LINE THE SPRING STOPS MUST BE SCREWED UP AND THE JIB LOWERED ON TO THE JIB REST. THE SPRING STOPS MUST BE SCREWED DOWN BEFORE LIFTING. FOR MOVING SLOWLY WITH LOADS THIS CRAME IS REGISTERED TO LIFT:-

THESE INSTRUCTIONS ARE FOR WORKING ON LEVEL GROUND.

RADIUS	HT. OF LIFT.	OVERALL CRANE HT.
24' 0"	10'10"	161 6"
22' 0"	14' 3"	191 6"
20' 0"	16'10"	201 6"
15' 0"	20' 9"	241 6"
14' 0"	21' 6"	251 3"
11' 0"	22' 7"	261 6"

10 TON HAND CRAME

CAUTION

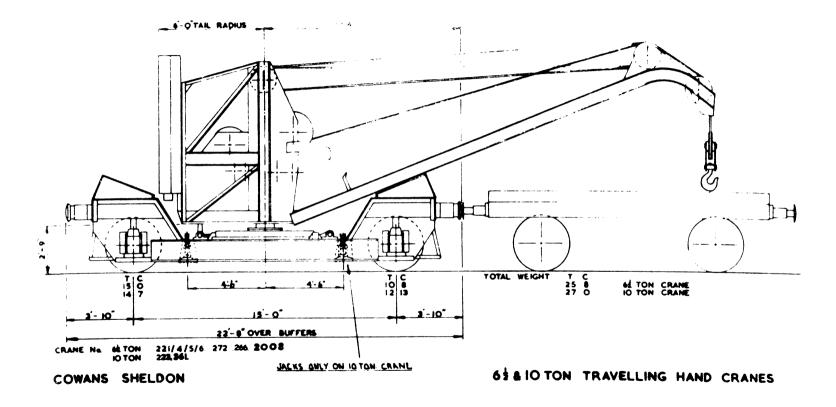
BEFORE THIS CRAME IS ALLOWED TO TRAVEL CH THE MAIN LINE THE SPRING STOPS MUST BE SCREWED UP AND THE JIB LOWERED ONTO THE JIB REST. THE SPRING STOPS MUST BE SCREWED DOWN REPORT LIFTING: FOR MOVING WITH LOADS, THIS CRAME IS REMISTERED TO LIFT:-

2 TONS O CMT. AT 24 FEET RADIUS
3 " 0 " " 22 " "
5 " 0 " " 15 " "
6 " 10 " " 13 " "

WHEN STATIONARY, PROPPED AND WITH RAIL CLIPS SECURED TO RAIL THIS CRANE IS REGISTERED TO LIFT:-

THESE INSTRUCTIONS ARE FOR WORKING ON LEVEL CROUND.

RADIUS	HT. OF LIFT	OVERALL CRANE HT.
24" 0"	9:10*	161 9"
22" 0"	13:10*	191 3"
20" 0"	16: 2*	211 3"
15" 0"	20: 4*	251 0"
13" 0"	21: 6*	261 3"



CAUTION

- TO BE SHUNTED WITH CARE -

HEFORE THIS CRAKE IS ALLOWED TO TRAVEL ON THE MAIN LINE, THE SPRING STOPS MUST BE SCREED UP, THE JIB LOWERED & SECURED BY THE LOCKING SHAFT AND TIE ROD PINS PUT IN. THE SPRING STOPS MUST BE SCREWED DOWN BEFORE LIFTING. FOR MOVING SLOWLY WITH LOADS, THIS CRANE IS REGISTERED TO LIFT:-

3 TONS AT 16 PEET RADIUS 2 " 19 " " 14 " 21 " "

MANN STATIONARY WITH EXTENSION CHROERS FULLY OUT, THIS CRANE IS REGISTERED TO LIFT :-

> 6 TORS AT 16 PAST RADIUS 4 " 19 " "

THESE INSTRUCTIONS ARE FOR WORKING ON A LLVEL ROAD.

DOUBLE CHAIN MUST BE USED FOR ALL LOADS ABOVE 3 TONS.

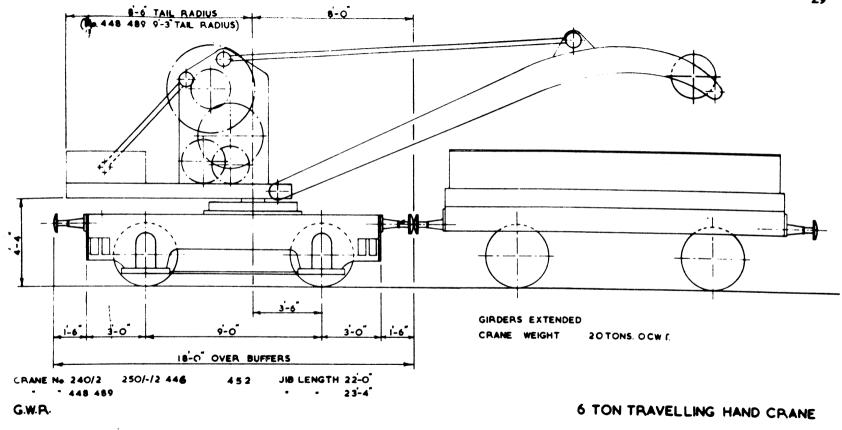
ADDITIONAL PLATE

MMEN STATIONARY AND SECURED WITH RAIL CLIPS THIS CRASE IS REGISTERED TO LIFT :-

A TORS AT 16 PEET RADIUS
3 " 19 " "
21 " 21 " "

THESE INSTRUCTIONS AND FOR MORKING ON A LEVEL ROAD.

RADIUS	HT. OF DOUBLE CHAIN	LIFT LINGLE CHAIN	OVERALL CRAME HT.	TENEUR
21' 0" 19' 0" 16' 0"	181 2" 181 3" 201 5"	181 6H 211 OH 231 OH	201 3* 221 6* 251 0*	23' 4"
21' 0" 19' 0" 16' 0"	13' 6" 16' 6"	11' 6" 16' 0"	151 94 191 04 221 64	221 (**



CAUTION

- TO BE SHUNTED WITH CARE -

BEFORE THIS CRAME IS ALLOWED TO TRAVEL ON THE MAIN LINE THE SPRING STOPS MUST BE SCREWED UP, THE JIB SECURED BY THE LOCKING SHAPT AND THE TIE ROD PUT IN. THE SPRING STOPS MUST BE SCHEWED DOWN BEFORE LIFTING. POR MOVING SLOWLY WITH LOADS, THIS CHAME IS REGISTERED TO LIFT:-

3 TONS AT 15 FEET RADIUS
2 " " 18 " "
14 " " 21 " "

WHEN STATICHARY WITH EXTENSION GIRDERS FULLY OUT, THIS CRANE IS REGISTERED TO LIFT :-

6 TONS AT 15 FELT RADIUS 4 " 18 " 18 "

THESE INSTRUCTIONS ARE FOR WORKING ON A LEVEL ROAD.

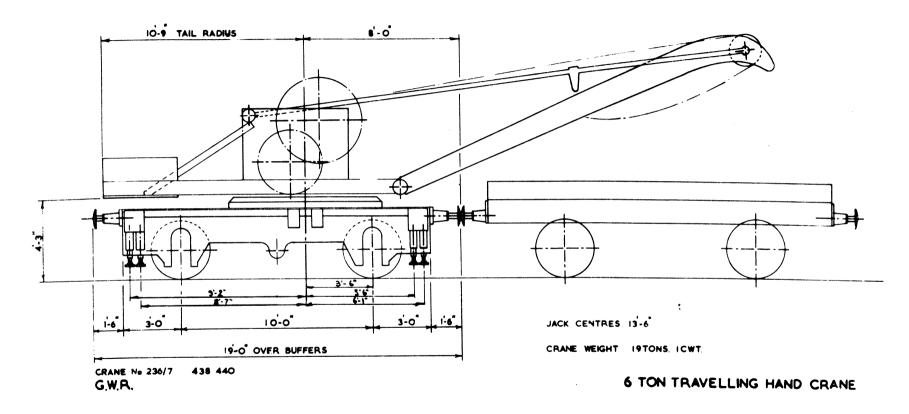
DOUBLE CHAIN MUST BE USED FOR ALL LOADS ABOVE 3 TORS.

ADDITIONAL PLATE

WHEN STATIONARY AND SECURED WITH RAIL CLIPS, THIS CRAME IS REGISTERED TO LIFT:-

THESE INSTRUCTIONS ARE FOR WORKING ON A LEVEL ROAD.

	HT. OF LIFT		OVERALL	
RADIUS	CHAIN	CHAIN SINGLE	CRAME HT.	
21 ° 0" 18 ° 0" 15 ° 0"	13' 9" 16' 6"	12' 6" 16' 6" 19' 0"	161 OF 201 OF 221 8F	



3 TON HAND CRANE

CAUTION

- TO BE SHUNTED WITH CARE -

BEFORE THIS CRANE IS ALLOWED TO TRAVEL ON THE MAIN LINE, THE SPRING STOPS MUST BE SCREWED UP, THE JIB LOWERED, SECURED BY THE LOCKING SHAFT AND THE TIE BOD PINS PUT IN. THE SPRING STOPS MUST BE SCREWED DOWN BEFORE LIFTING. FOR MOVING SLOWLY WITH LOADS, THIS CRANE IS REGISTERED TO LIFT:

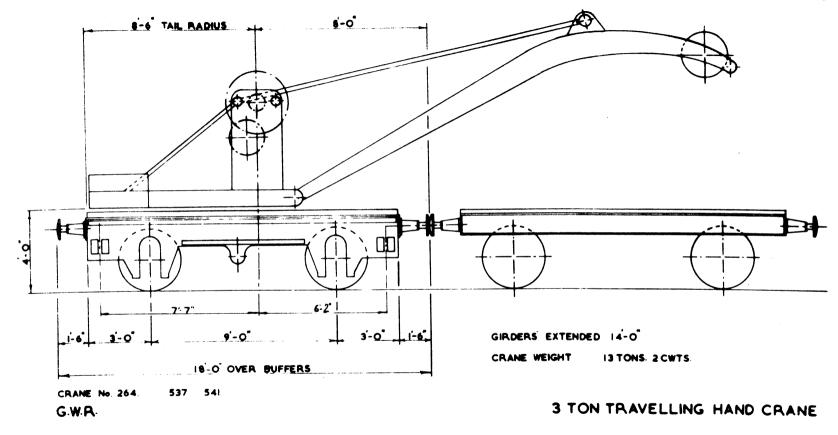
12 TONS AT 15* OW RADIUS
12 " " 18* OW "

WHEN STATIONARY WITH EXTENSION GIRDERS FULLY OUT, THIS CRANE IS REGISTERED TO LIFT:-

3 TONS AT 15' OF RADIUS 22 " " 18' OF " 12 " " 21' OF "

THESE INSTRUCTIONS ARE FOR WORKING ON A LEVEL ROAD.

RADIUS	HT. OF LIFT	OVERALL CRANE HT.
21' 0"	12'10"	161 411
18' 0"	17' 1"	201 611
15'	19'10"	231 011



22 TON HAND CRANE

CAUTION

- TO BE SHUNTED WITH CARE -

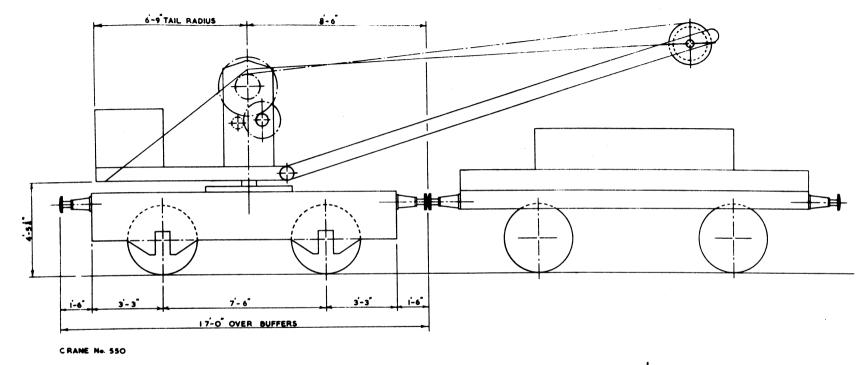
THIS CRAME IS REGISTERED TO LIFT, WHEN THE SPRING STOPS ARE SCREWED DOWN:-

21 TONS AT 15 OF RADIUS

THIS INSTRUCTION IS FOR THE CRAME WORKING ON A LEVEL ROAD BEFORE THIS CRAME IS ALLOWED TO TRAVEL IN TRAIN, THE SPRING STOPS MUST BE SCREWED UP AND REVOLVING SUPER-STRUCTURE SECURED BY TAIL LOCKS.

"WINDING" HANDLES TO BE REMOVED WHEN LOWERING LOAD ON BRAKE"

RADIUS	HT. OF LIFT	OVERALL HT.
151 04	191 31	231 0"



COWANS & SHELDON.

24 TON TRAVELLING HAND CRANE

14 TON HAND CRAME

CAUTION

- TO BE SHUNTED WITH CARE -

HEFORE THIS CRAME IS ALLOWED TO TRAVEL ON THE MAIN LINE, THE SPRING BLOCKS MUST BE TAKEN OUT, THE JIB LOWERED, SECURED BY THE LOCKING SHAFT, AND THE TIE ROD PINS PUT IN. THE SPRING BLOCKS MUST BE PUT IN BEFORE LIFTING.

POR MOVERING SLOWLY WITH LOADS, THIS CRANE IS REGISTERED TO LIFT:-

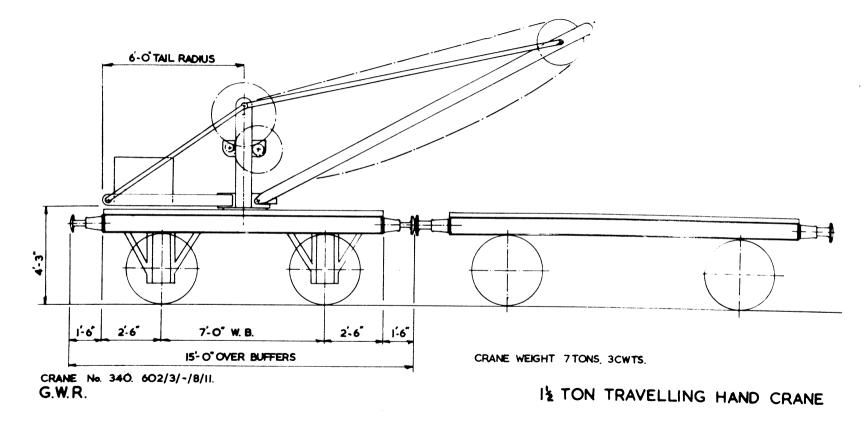
15 CHTS AT 12' OF RADIUS

WHEE STATIONARY, WITH CLIPS SECURED TO RAILS, THIS CRAME IS REGISTERED TO LIFT:-

30 CWTS AT 12' O" RADIUS

THESE INSTRUCTIONS ARE FOR WORKING ON LEVEL ROAD.

RADIUS	HT. OF LIFT	OVERALL CRANE HT.
12' 0"	131 9"	171 6m



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