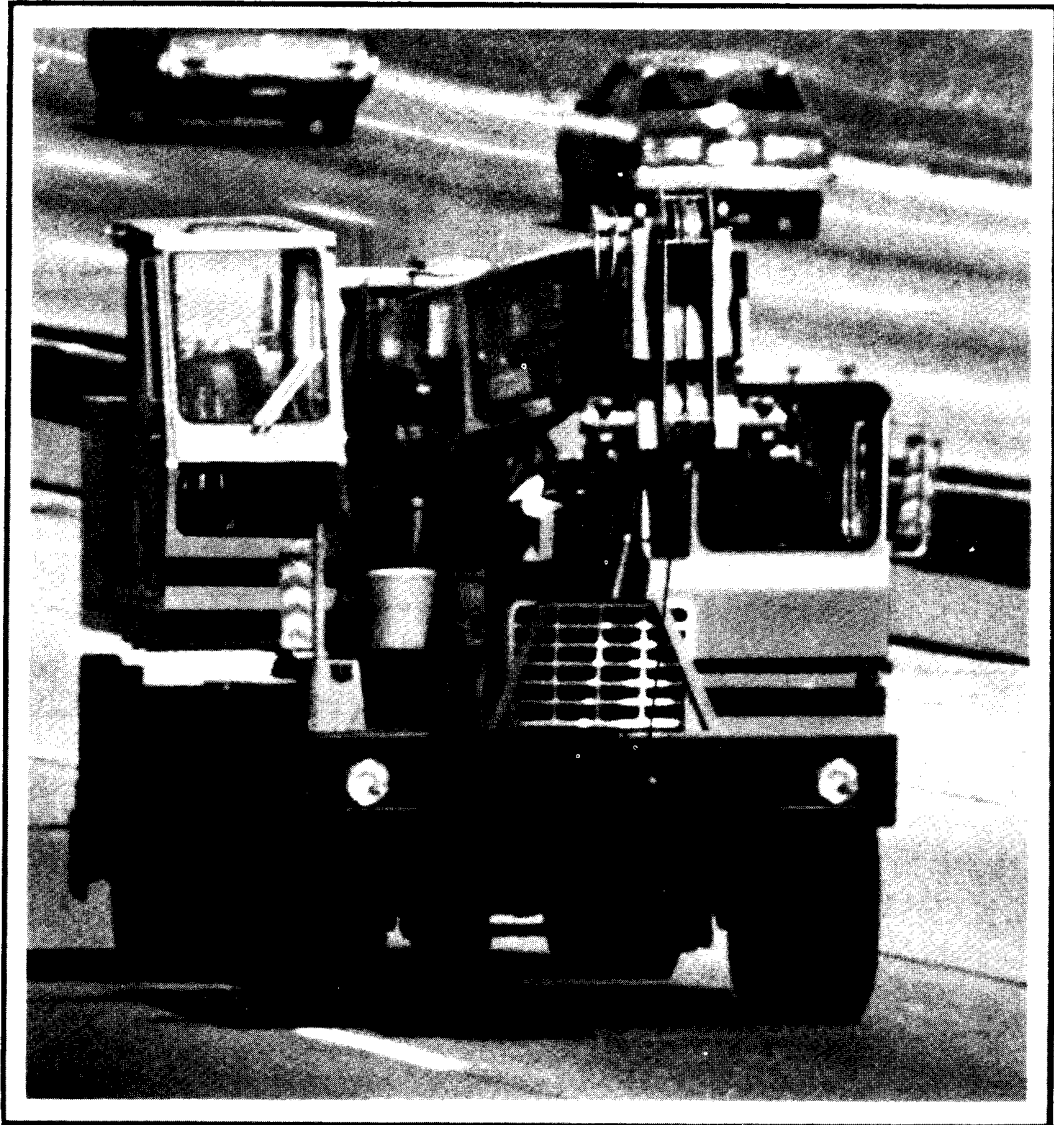
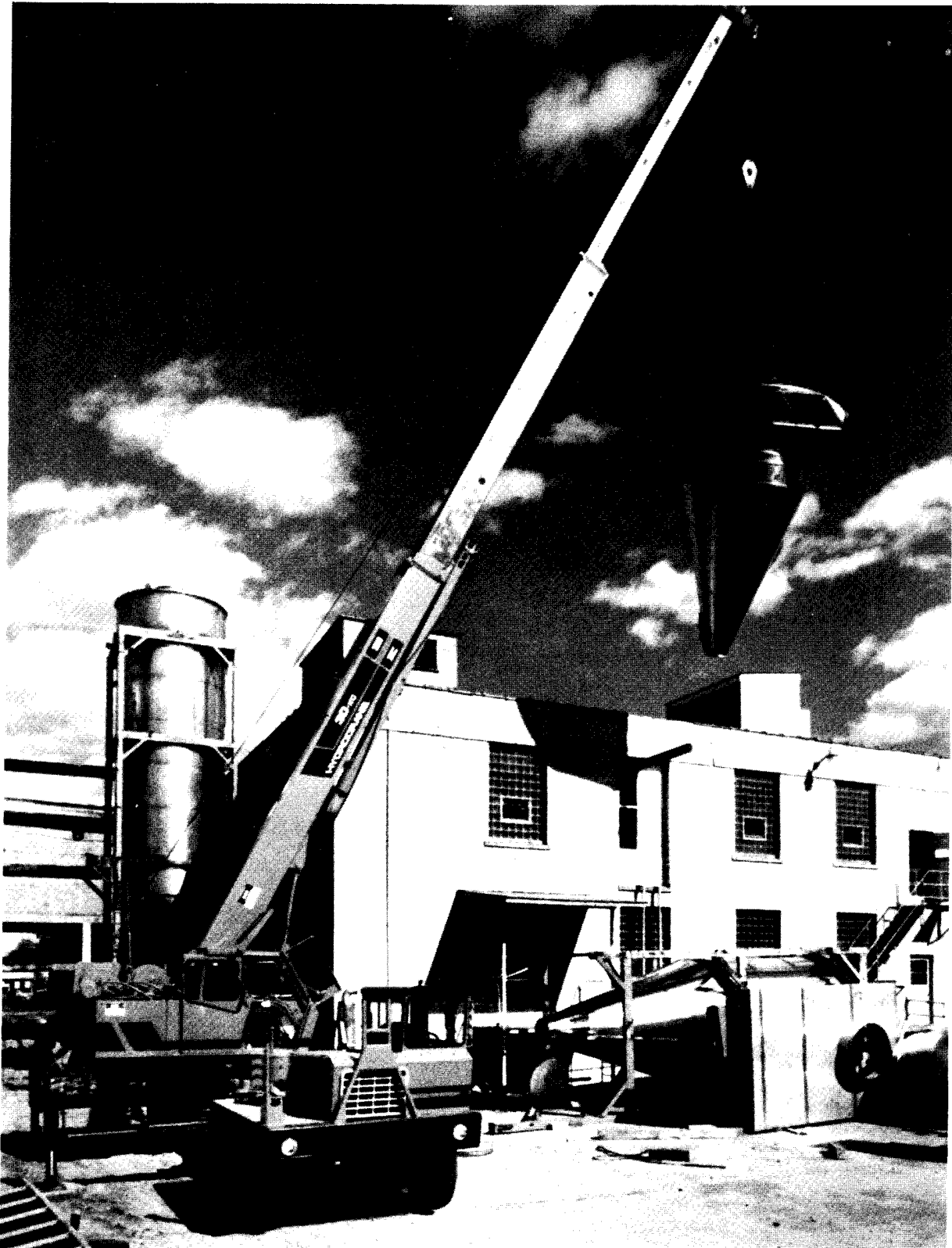


B
BUCYRUS-ERIE
E

30-XC

30-Ton Hydraulic Truck Crane





THE 30-XC

The 30-Ton Crane with Extra Capability

...AND EXTRA CLASS

Bucyrus-Erie brings you the gutsy 30-ton (27.216 kg) crane with a complete travel/working weight of 53,000 lbs. (24.040 kg). Built for travel, built for work.

The exclusive features on the 30-XC add up to extra capability for the owner, because the 30-XC has extra class!

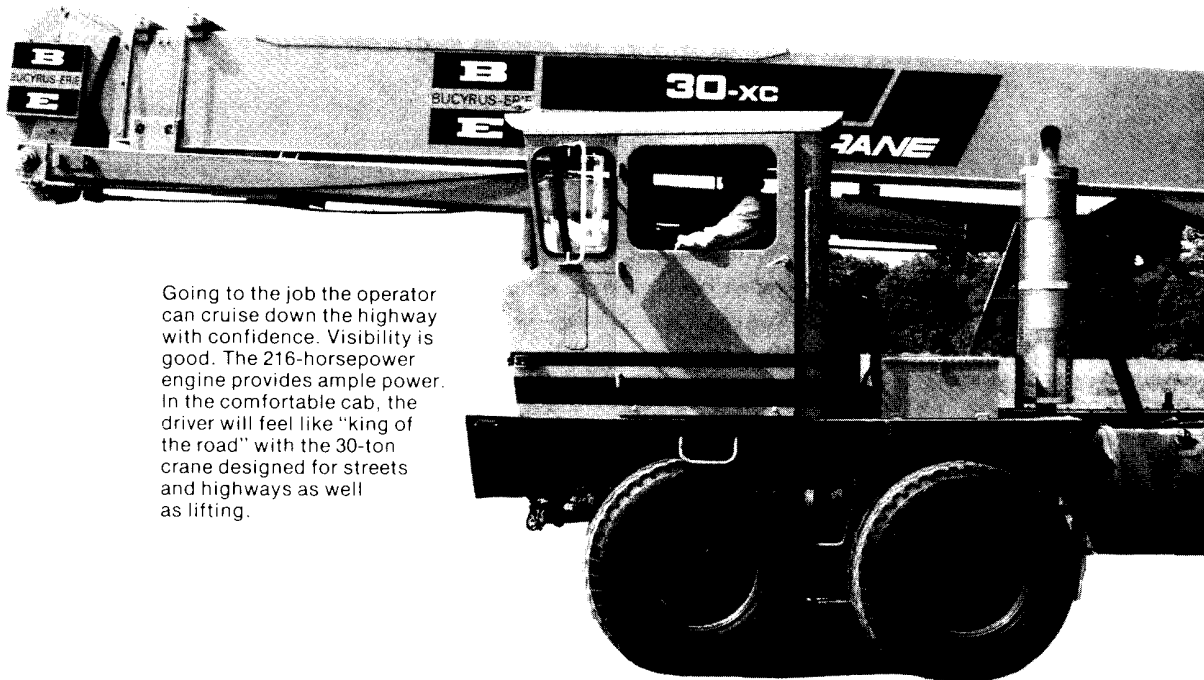
The 30-XC is not just another crane modified to become a 30-tonner. The 30-XC is *the* 30 ton crane designed from the ground up to be highly mobile, with fast set-up time and good lift capacities, particularly at extended radii.

- XC** - Travel and operating weight are identical.
- XC** - Lightest 30-ton crane in the market without stripping for travel.
- XC** - Permit-free in more states than any other 30-tonner.
- XC** - Two engines for maximum efficiency.
- XC** - Wide 20 ft. (6,1 m) telescopic outriggers.
- XC** - Self-storing outrigger floats.
- XC** - Same load rating over rear and side for 270° lifting quadrant.
- XC** - More lift capacity per pound of machine weight than competition.
- XC** - B-E designed and built hydraulic hoists.
- XC** - B-E proven controlled free-fall (optional).
- XC** - Best operating weight to engine horsepower ratio.
- XC** - Unique style boxed-member carrier and revolving frame structures.
- XC** - Maximum swing speed of 3.8 rpm.
- XC** - Can lower complete combination of boom and jib to the ground over side or rear without loss of machine stability (with outriggers fully extended).
- XC** - B-E pressure-compensating hydraulic control valves for superior control.
- XC** - Designed and quality-built by Bucyrus-Erie.

30-XC lifts 6-ton milk dryer through 270° quadrant

For Extra Capability

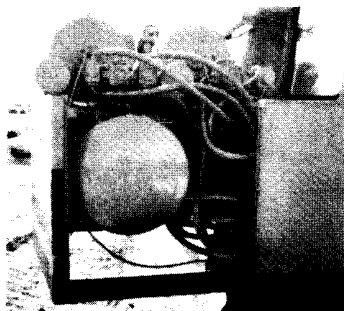
MAKE A TRUCK CRANE A ROAD MACHINE



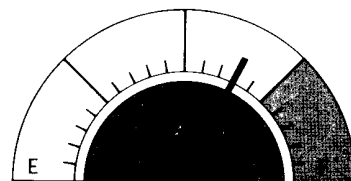
Going to the job the operator can cruise down the highway with confidence. Visibility is good. The 216-horsepower engine provides ample power. In the comfortable cab, the driver will feel like "king of the road" with the 30-ton crane designed for streets and highways as well as lifting.



We saw that 75% of the 30-ton crane market was concentrated in states with tough weight regulations. So we designed a 30-ton crane which could move permit-free in those states.



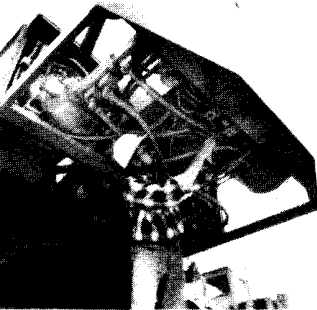
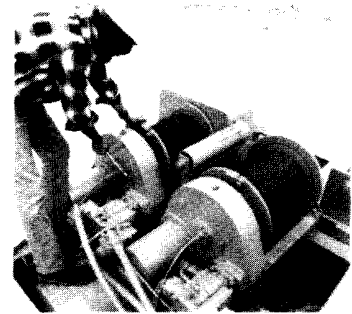
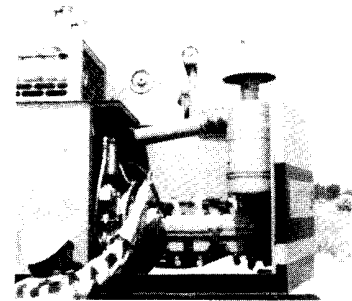
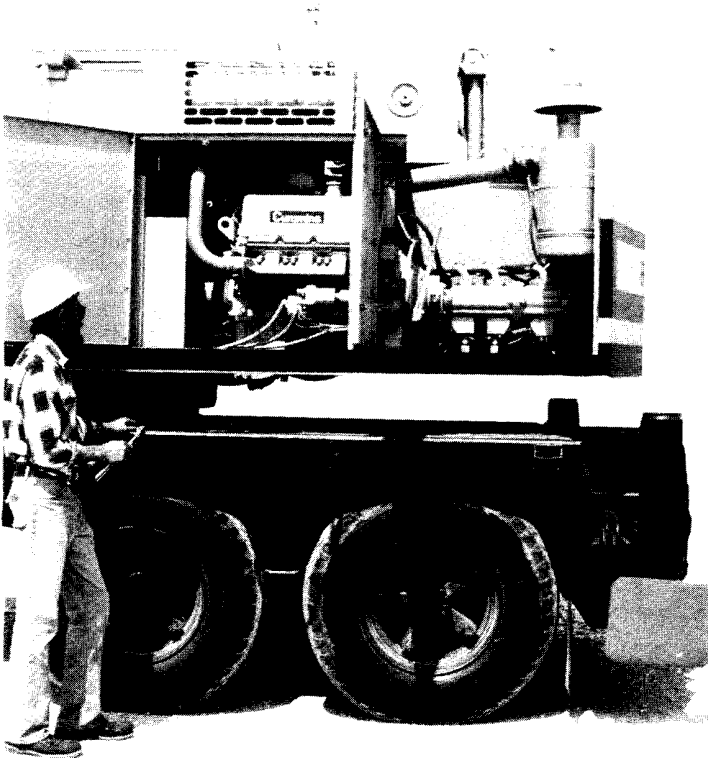
Another extra-capability feature on the 30-XC is no counterweight to remove when traveling to the job, or attach once you're at the job. The basic machine's travel weight and work weight are the same, only 53,000 lbs. (24,040 kg).



We knew that if we designed a lightweight crane there would also be benefits for owners in states not affected by stringent regulations. Fuel economy, just plain ease of driving, good weight-to-horsepower ratios for ideal highway handling, and a good road machine which would go for you, are some of the additional extra-capability benefits found on the 30-XC.

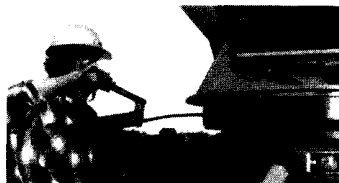
...PLUS MAKE IT EASY TO SERVICE!

At the job site or in your yard, the 30-XC is designed to be serviced quickly and efficiently.

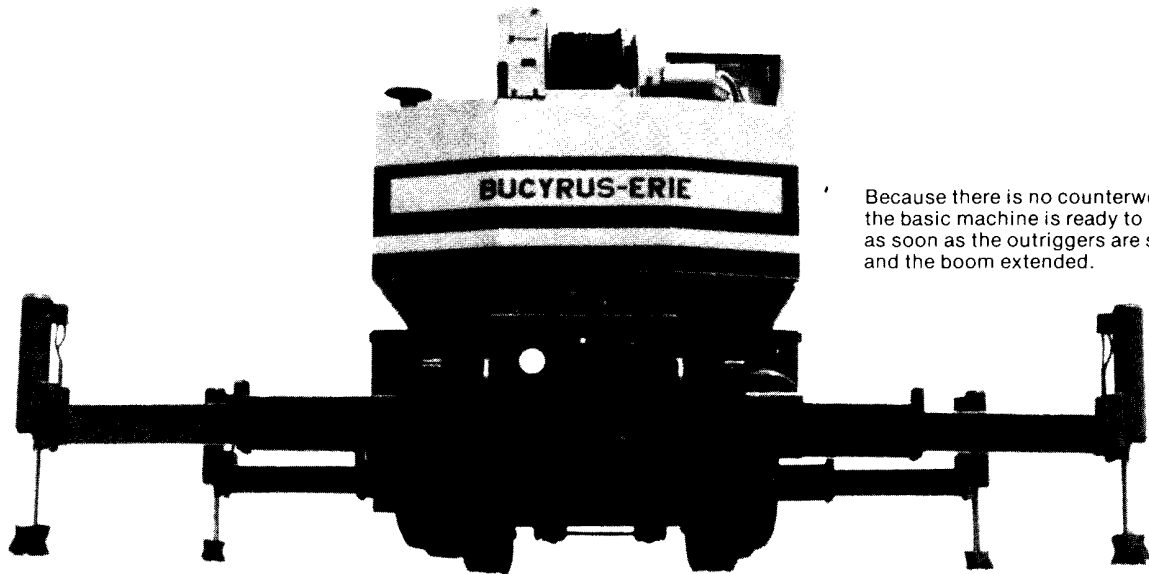


Componentry requiring routine maintenance is centralized for convenient access.

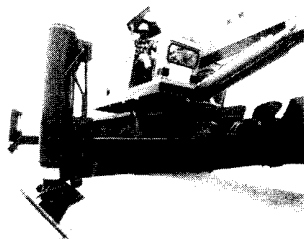
All major components in the upper works are suspended rather than deck-mounted. You have access to all major components from either above or below to make repairs or adjustments. Makes working on the 30-XC easier and quicker.



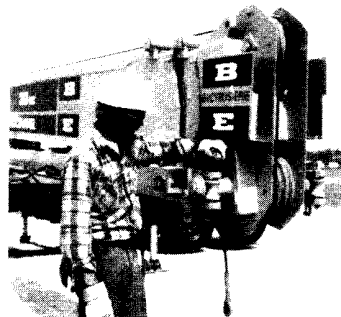
AT THE JOB SITE, THE ROAD MACHINE SETS UP QUICKLY TO BECOME...



Because there is no counterweight the basic machine is ready to lift as soon as the outriggers are set and the boom extended.



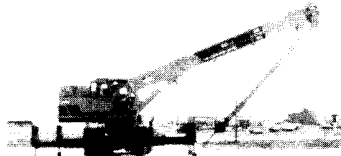
The 20 ft. (6,1 m) telescopic outriggers set up quickly. Manual labor and time are eliminated with the self-storing outrigger floats which are controlled from the crane cab.



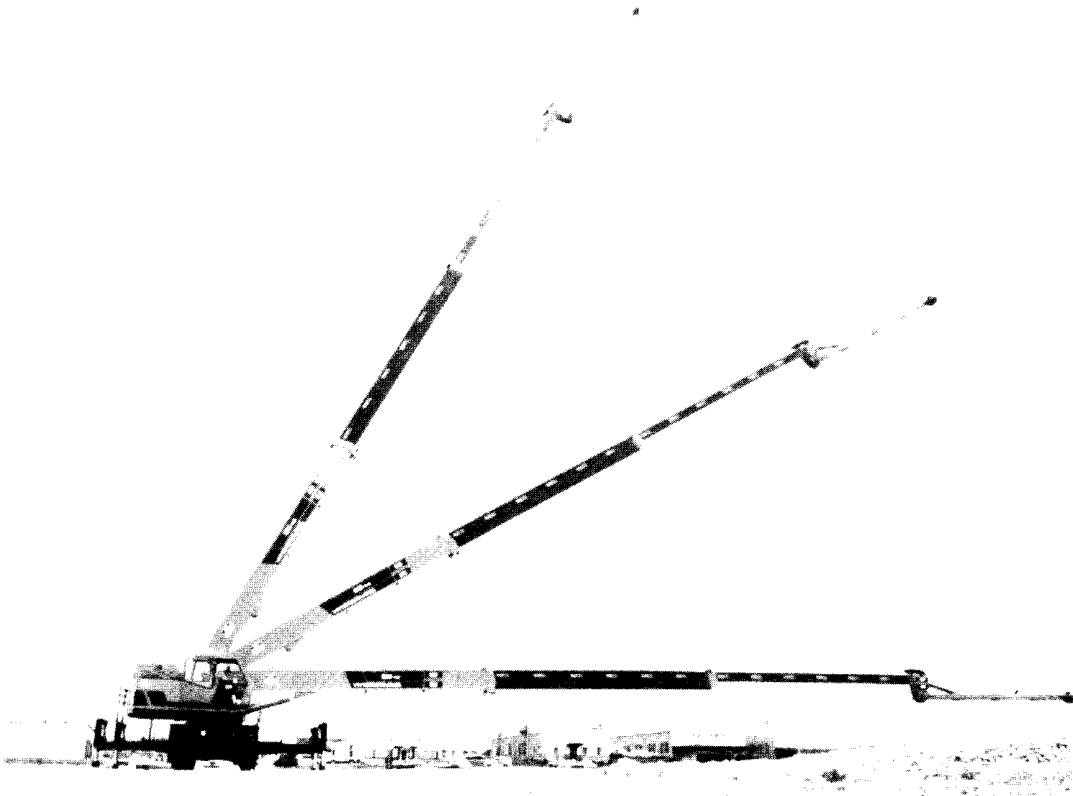
The 30-XC comes with a high quality, submerged arc-welded, three-section boom. The boom isn't any fancy shape. It's rectangular to make things simple and strong. Two sections are full power to 80 ft. (24,4 m).

Rigging the tuckaway or lattice jib is fast and easy. Jibs are quick-connected to the boom point with spools, and pins with hair-pin keepers. Pendant lines are carried on the tuckaway jibs.

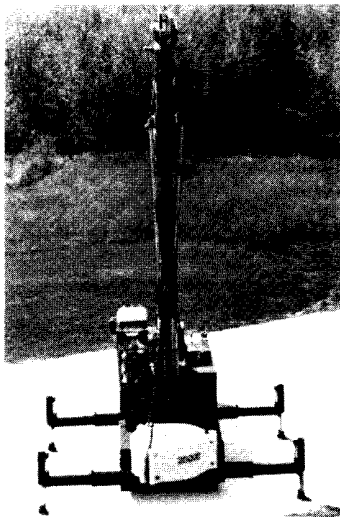
Optional jibs include 20 ft. (6,1 m) tuckaway, 20-30 ft. (6,1 m - 9,1 m) telescopic tuckaway, and a 50 ft. (15,2 m) lattice jib.



...The Lift Machine



The 30-XC can be fully rigged with either a tuckaway or a lattice jib. Has the stability to lower the extended boom and jib over side or rear.



You have a 270° quadrant of lifting with equal capacity over side and rear. Equal rear/side capacity is a result of the exceptional stability of the 30-XC. No sacrifice of rear load capacity was made to obtain equal side load capacity. Throughout the 270° quadrant, lifts you couldn't make with competitive machines are routine for the 30-XC.

Roadability, quick set-up, fine control, all from a crane which pound for pound lifts more than competitive cranes. The 30-XC has the stability and guts to match other 30-ton cranes' lift capabilities, particularly at extended radii. Not bad for a crane that is up to 16,800 lbs. (7.620 kg) lighter than other 30-ton capacity machines.

You'll never go back to other machines once you see the 30-XC lift and work.

Power for Extra Capability



EFFICIENT TWO ENGINES

The only power source you'll see on competitive 30-ton cranes is in the lower works. But the 30-XC has a big 216 horsepower carrier engine plus an efficient 130 horsepower upper works diesel.

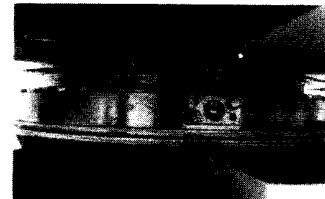
The 216 horsepower lower works engine provides an 8.15 weight-to-horsepower ratio. The engine has the power to run the 30-XC through its gears at optimum speed on the road.

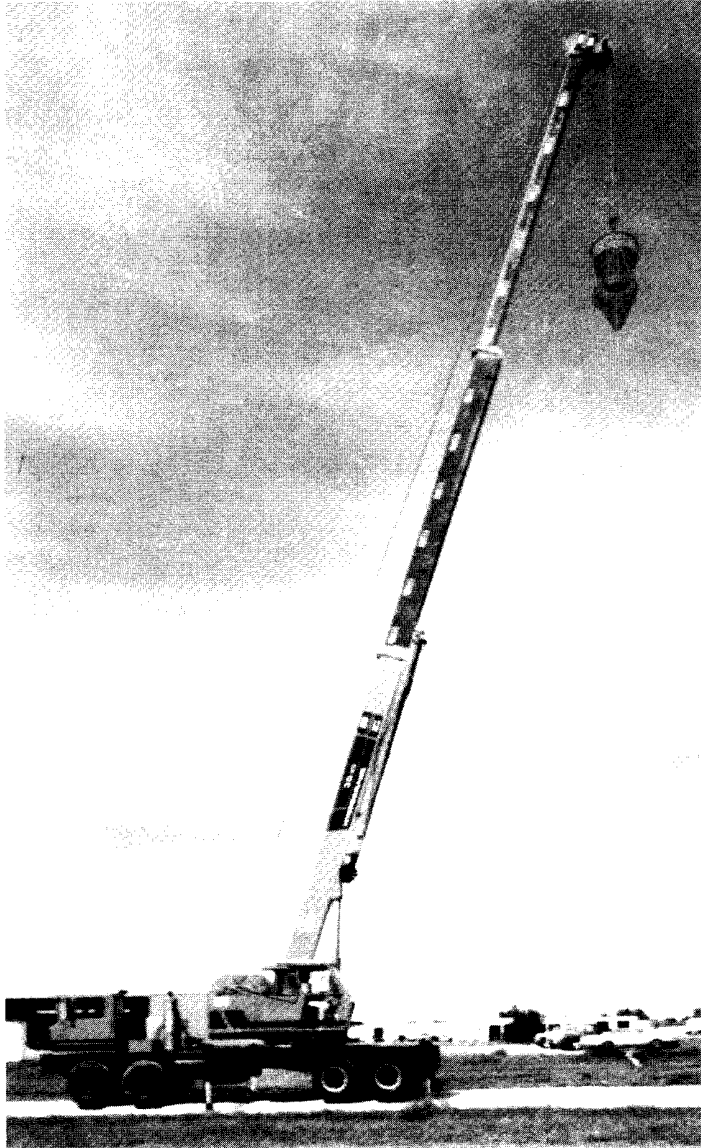
Once at the job site, you shut down the 30-XC's carrier engine. You put fewer hours on it. Consume less fuel. Reduce main function power losses by the elimination of the hydraulic rotary joint between the carrier and upper works.

It makes good sense to put the crane-function power source in the upper works where it belongs. The upper works engine is matched to the requirements of crane work. The 130 horsepower engine is the right size, making it fuel and power efficient.

SWING

Smooth Bucyrus-Erie hydraulic swing is accomplished through a combination of a vane-type motor driving a planetary unit with an integral static brake. In addition, B-E utilizes its own ball-bearing swing circle to provide the smoothest operation possible for the swing function.





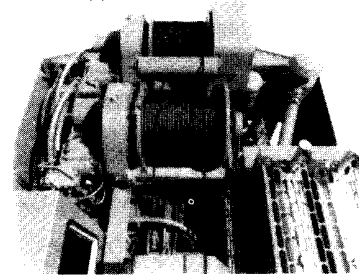
PUT YOURSELF BEHIND THE CONTROLS OF THE 30-XC

More extra capability is provided by the 30-XC through its BUCYRUS-ERIE® designed and built hoists. These hoists have set a standard in the industry for smoother, faster control and fast line speeds.

The main hoist is the B-E Model 10 hoist unit. The hoist provides a maximum 10,000 lbs. of available single line pull, and line speeds up to 540 feet per minute (164.6 mpm).

An optional auxiliary Model 10 hoist unit is available.

Four gear-type hydraulic pumps provide a 116 gallon per minute (628 lpm) flow at 2600 rpm. The hydraulic control valves are pressure-compensating dual-pool type designed by Bucyrus-Erie Company for hydraulic crane application.

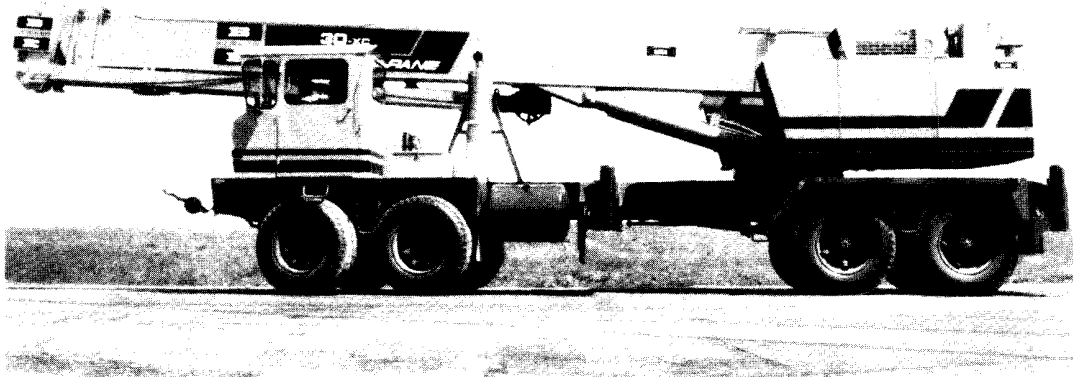


B-E's proven, true-controlled free-fall system (optional). Hydraulic systems are disengaged completely so cycles are fastest and component wear is minimized. An extra capability advantage over competitors on fast-cycling cement pouring or steel setting jobs.



The 30-XC is another example of why B-E has a reputation for building machines which are "operator's machines." That means a comfortable seat, sensible control arrangement and good visibility. But it means more. It also means B-E controls are so good they make the 30-XC seem like an extension of the operator's own hands as it picks, hoists and swings loads.

The operator has instant feel, smooth inching ability and stepless speed control. The hoist line speed is constant for a given operator lever position, whether the load is light or heavy.



SPECIFICATIONS

Travel Height 11'9½" (3,6 m)
 Clearance Height . . . 10'7" (3,2 m)
 Tailswing 8'9" (2,7 m)
 Overall Width 8'0" (2,4 m)
 Overall Length 39'9" (12,1 m)

Axle Loading - Machine Weights

Basic Machine

Front Axle . . . 22,000 lb. (9.979 kg)
 Rear Axle . . . 30,800 lb. (13.971 kg)
 Total Axle . . . 52,800 lb. (23.950 kg)

Includes: dual diesel engines;
 full fuel; outriggers complete;
 80 ft. (24,4 m) full power boom;
 main hoist;
 and 2400 lb. (1.089 kg) counter-
 weight

Add-On Options

B-E #10 auxiliary hoist with rope
 (in place of 750 lb. counterweight
 [340 kg])

20 ft. (6,1 m) tuckaway jib

20 ft. - 30 ft. (6,1 m - 9,1 m)
 telescopic tuckaway jib

50 ft. (15,2 m) lattice jib stowed

Weighted hook

Four sheave hook block

Machine Components - Upper Works

Revolving Frame - All welded alloy
 steel

Diesel Engine - Standard 135 hp
 at 2600 rpm

Fuel Supply - 50 gallon (189 liter)
 capacity

Hydraulic Pumps - Four gear-type,
 direct driven with master clutch
 standard. 116 gpm (628 lpm) at
 2600 rpm

Hydraulic Valves - Pressure com-
 pensating dual-spool type

Hydraulic Reservoir - System
 capacity 140 gallons (530 liters)

Oil Cooler - Oil-to-air type

Swing Circle - B-E ball bearing
 design

Counterweight - Shell type with
 2400 lb. (1.089 kg) ballast capacity

Boom - Three section; two full-
 power to 80 ft. (24,4 m)

Main Hoist - B-E Model #10;
 10,000 lb. (4.536 kg) maximum
 available pull; 540 fpm (165 mpm)
 maximum speed

Machine Components - Carrier

Frame - Alloy steel boxed-beam
 members

Diesel Engine - Standard 216 hp
 at 3300 rpm

Fuel Supply - 60 gallon (227 liters)
 capacity

Front Axle - Tandem, non-driving
 type; 36,000 lb. (16.329 kg)
 dynamic capacity

Rear Axle - Tandem with 34,000 lb.
 (15.422 kg) dynamic capacity

Front Suspension - Spring-
 mounted tandem

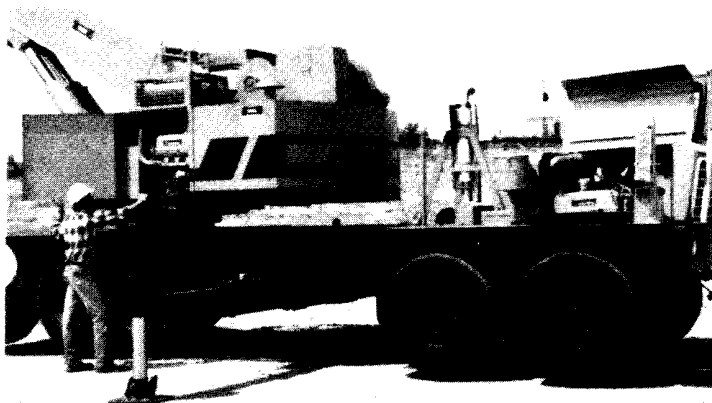
Rear Suspension - Tandem
 walking beams

Transmission - Thirteen forward
 speeds

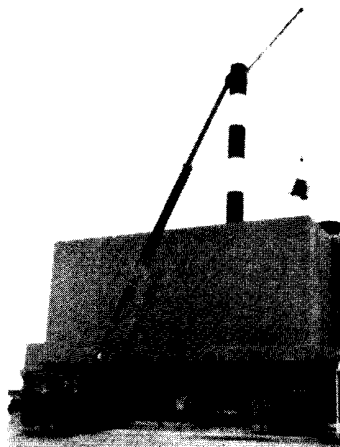
Geared Speed - 55 miles per hour
 (88,5 kph)

Outriggers - Two stage, telescoping
 to 20 ft. (6,1 m)

30-XC for Extra Capability

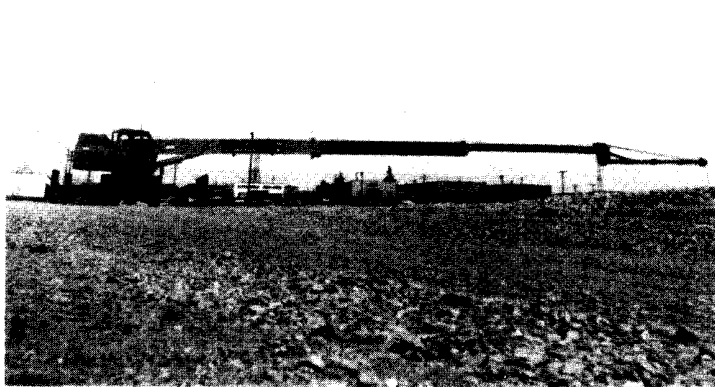


- XC** - The only dual-engine 30-ton machine on the road.
- XC** - 20 ft. (6.1 m) telescoping outriggers with self-storing floats.
- XC** - 270° lifting quadrant with identical load ratings over side and rear.
- XC** - More lift capacity pound for pound.
- XC** - B-E designed hoists
- XC** - B-E proven controlled free-fall (optional)
- XC** - 3.8 rpm swing speed
- XC** - Quality designed and built by Bucyrus-Erie



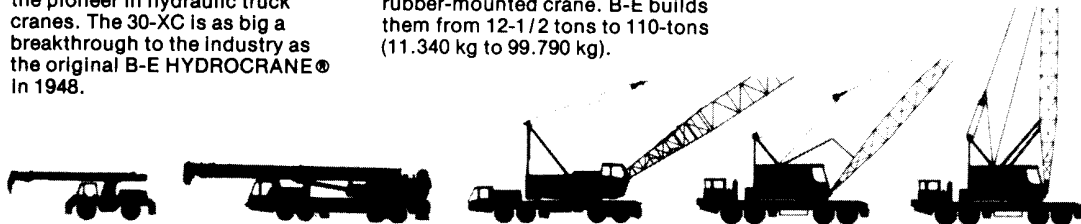
- XC** - Lightest 30-ton (27,216 kg) crane on the road.
- XC** - Permit-free operation in more states.
- XC** - Best engine weight-to-horsepower ratio.
- XC** - Travel and operating weight of machine are the same

Look to B-E for Extra-Capability Cranes



The 30-XC is brought to you by the pioneer in hydraulic truck cranes. The 30-XC is as big a breakthrough to the industry as the original B-E HYDROCRANE® in 1948.

The 30-XC is not our only great rubber-mounted crane. B-E builds them from 12-1/2 tons to 110-tons (11,340 kg to 99,790 kg).



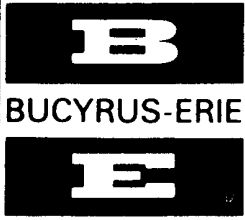
Stop by your B-E dealer for the 30-XC, or any of our other fine cranes.



It is the policy of Bucyrus-Erie Company to improve its products continually. The right is reserved to make changes in specifications or design which is the opinion of this Company are in accordance with this policy, or which are necessitated by the unavailability of materials. The description herein is for the purpose of identifying the type of machine, and does not limit or extend the express warranty provisions in any contract of sale.

Bucyrus-Erie Company
South Milwaukee, Wisconsin 53172

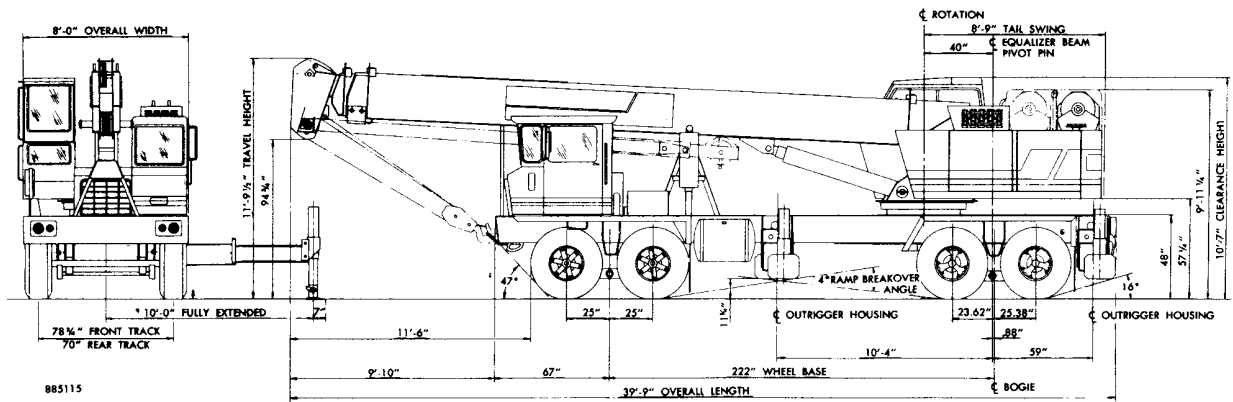
No. 1019 15MM977 Litho in U.S.A.



30-XC

HYDROCRANE®

30 TON HYDRAULIC TRUCK CRANE SPECIFICATIONS



HOIST DRUMS										
Hoist Unit	Drum	Type of Lagging	Layer of Rope	Pitch Diameter (Inches)	Normal Range		High Range		Rope Capacity	
					Maximum Line Pull in Pounds	Maximum Line Speed (FPM)	Maximum Line Pull in Pounds	Maximum Line Speed (FPM)	With Controlled Free Fall (Feet)	Without Controlled Free Fall (Feet)
B-E Model 10	Main 5/8 Inch Rope	Standard	1 st.	11 3/8	10,000	158	4,980	328	82	102
			2 nd.	12 3/8	9,080	174	4,480	361	172	214
			3 rd.	13 3/8	8,320	190	4,110	394	270	337
		High Speed	4 th.	14 3/8	7,680	206	3,790	427	376	470
			1 st.	17 3/8	6,430	245	3,180	509	127	159
			2 nd.	18 1/2	6,040	261	2,980	542	262	328
B-E Model 10	Auxiliary (Runner) 5/8 Inch Rope	Standard	1 st.	11 3/8	10,000	158	—	—	82	102
			2 nd.	12 3/8	9,080	174	—	—	172	214
			3 rd.	13 3/8	8,320	190	—	—	270	337
		High Speed	4 th.	14 3/8	7,680	206	—	—	376	470
			1 st.	17 3/8	6,430	245	—	—	127	159
			2 nd.	18 1/2	6,040	261	—	—	262	328

ENGINE SPECIFICATIONS — UPPER							
Make	Model	Type	Cylinders	Bore x Stroke (Inches)	Displacement (Cubic Inches)	Horsepower S. A. E. Gross	Max. Altitude (Feet)
General Motors	4-53N	Diesel	4	3 7/8 x 4 1/2	212	130 at 2600 RPM	4,000
Cummins	V-378C	Diesel	V6	4 5/8 x 3 3/4	378	135 at 2600 RPM	6,000

WEIGHTS IN POUNDS (APPROXIMATE)				
Type	Net	Working	Export Shipping	Ships Option Tons
Crane	52,800	53,050	53,650	98

30-XC HYDROCRANE®

30 TON HYDRAULIC TRUCK CRANE

PCSA CLASS 10-111

MAXIMUM ALLOWABLE LOADS — CRANE SERVICE*																					
WEIGHT OF HOOKS, HOOK BLOCKS, SLINGS, JIBS, AND ALL OTHER LOAD HANDLING DEVICES, EXCEPT THE HOIST ROPE, SHALL BE CONSIDERED PART OF THE LOAD.																					
BOOM LENGTH IN FEET																					
Load Rad. In Feet	31.5			40			48			56			64			72			80		
	Boom Angle In Deg.	Boom Point Pin Height (Ft.-In.)	Out-riggers Set' Load In Pounds	Boom Angle In Deg.	Boom Point Pin Height (Ft.-In.)	Out-riggers Set' Load In Pounds	Boom Angle In Deg.	Boom Point Pin Height (Ft.-In.)	Out-riggers Set' Load In Pounds	Boom Angle In Deg.	Boom Point Pin Height (Ft.-In.)	Out-riggers Set' Load In Pounds	Boom Angle In Deg.	Boom Point Pin Height (Ft.-In.)	Out-riggers Set' Load In Pounds	Boom Angle In Deg.	Boom Point Pin Height (Ft.-In.)	Out-riggers Set' Load In Pounds			
10	68	36-4	60,000																		
12	65	35-6	52,800	71	44-9	52,800	74	53-2	45,800												
15	58	33-10	42,500	66	43-6	42,500	71	52-2	39,800	74	60-7	36,800									
20	47	29-11	31,500	58	40-9	31,500	64	50-0	31,500	68	58-9	29,800	72	67-4	26,800	74	75-10	24,800			
25	33	23-10	23,800	49	36-11	23,800	57	47-0	23,800	63	56-4	23,800	67	65-4	21,800	70	74-0	20,800			
30				38	31-6	17,800	50	43-2	17,800	57	53-4	17,800	62	62-9	17,800	66	71-9	17,800			
35							41	38-0	14,100	50	49-5	14,100	56	59-6	14,300	61	69-1	14,300			
40							30	30-10	11,100	43	44-6	11,100	51	55-8	11,100	56	65-10	11,100			
45										34	38-0	8,900	44	50-10	8,900	51	61-11	8,900			
50										25	28-7	7,100	38	44-10	7,100	46	57-3	7,100			
55													29	36-9	5,900	40	51-6	5,900			
60													18	24-0	4,800	33	44-3	4,800			
65																24	34-2	4,000			
70																	28	42-6	3,400		
75																	19	29-9	2,800		

CAUTION: BEFORE SWINGING UPPER OVER SIDE WITHOUT OUTRIGGERS, MACHINE MUST BE LEVEL, TIRES PROPERLY INFLATED, BOOM FULLY RETRACTED WITHOUT JIB ATTACHED TO BOOM POINT AND ELEVATED TO MINIMUM ANGLE OF 50 DEGREES. DO NOT LIFT LOADS OR EXTEND BOOM WITHOUT "OUTRIGGERS SET".

CAUTION: LONG CANTILEVER BOOMS CAN CREATE A TIPPING CONDITION WHEN IN EXTENDED AND LOWERED POSITION WHERE NO LOAD IS SHOWN ON THE LOAD RATING CHART. AT A GIVEN RADIUS, TIPPING CONDITIONS SHALL BE ASSUMED TO EXIST.

"OUTRIGGERS SET"

833345K1

See quadrant diagram "OUTRIGGERS SET". These are the Maximum Allowable Loads which can be lifted Over the Side or Over the Rear. This machine must always be operated with the outriggers fully extended and set to a distance of 20 feet between centerlines of the float connections with all tires clear of the ground.

DO NOT lift or swing loads within the quadrant designated Over Front.

Maximum Allowable Loads shown in shaded area limited by factors other than tipping.

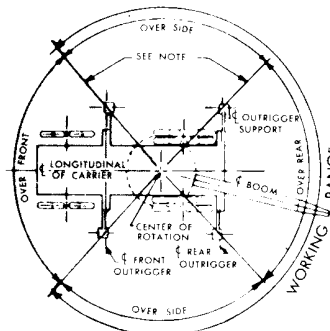
Crane Loads do not exceed 85% of the tipping loads with the machine leveled and standing on a firm, uniform supporting surface.

"OFFSET"

Angular offset from centerline of boom to centerline of jib.

MAXIMUM ALLOWABLE LOADS—20 FT. TUCKAWAY JIB*			
WEIGHT OF HOOKS, HOOK BLOCKS, SLINGS, JIBS, AND ALL OTHER LOAD HANDLING DEVICES, EXCEPT THE HOIST ROPE, SHALL BE CONSIDERED PART OF THE LOAD.			
OUTRIGGERS SET* — LOADS IN POUNDS			
LOADS SHOWN ARE FOR ALL BOOM LENGTHS			
Boom Angle In Degrees	0 Offset**	15 Offset**	30 Offset**
75	10,000	7,500	6,300
70	8,000	6,300	5,700
65	6,200	5,600	4,800
60	5,200	4,600	4,100
55	4,400	3,900	3,600
50	3,800	3,400	3,200
45	3,100	3,000	2,800
40	2,500	2,400	2,300
35	2,000	1,900	1,900
30	1,600	1,600	1,600

QUADRANT DIAGRAM
MACHINE — "OUTRIGGERS SET"



NOTE: THESE LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED.

CRANE AND JIB SERVICE

Maximum Allowable Loads shown apply only to machines with all components in first class condition built or recommended by Bucyrus-Erie Company.

Maximum Allowable Loads are based on freely suspended loads with the machine leveled and standing on a firm, uniform supporting surface. Practical working loads depend on supporting ground, the effect of shock or side loading, wind, and other factors affecting stability, hazardous surroundings, experience of personnel and proper handling, all of which must be taken into account by the operator.

Maximum Allowable Loads are based on components and conditions shown under "LIMITATIONS" and "MACHINE EQUIPMENT".

Maximum Allowable Loads are in accordance with P.C.S.A. Standard #2.

Load Radius is the horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with load applied.

WARNING: The information contained in this specification is to be used only as a guide in evaluating the performance of a machine. For operation of a machine always refer to the capacity plate on the machine (since this specification may apply to a different model or series).

30-XC HYDROCRANE®

30 TON HYDRAULIC TRUCK CRANE

MACHINE EQUIPMENT

Counterweight

Single Hoist Unit — 2400 pounds of punchings.

Two Hoist Units — 1650 pounds of punchings.

Carrier

222 in. W.B. - 8 ft. 0 in. wide FWD conventional cab carrier with hydraulic outriggers to 20 ft. - 0 in. spread.

Wire Rope

Main Hoist 5/8" dia., 6 x 25, IPS, IWRC, 29,000 lbs. minimum breaking strength.

Aux. Hoist 3/4" dia., 8 x 19, Extra IPS, IWRC, 29,400 lbs. minimum breaking strength.

For complete wire rope specifications, refer to instruction manual for this machine.

Jibs (optional)

Telescopic-Tuckaway Jib (20 Feet/30 Feet)

Lattice Tubular Jib — 1 1/2 Inch Diameter Chords

LIMITATIONS

Main Hoist Unit: Hoist Tackle

Loads over	7,500	15,000	22,500	30,000	37,500	45,000	52,500
Parts of line	2	3	4	5	6	7	8

Aux. Hoist Unit: Hoist Tackle

Loads over	7,500	15,000	22,500	30,000	37,500	45,000	52,500
Parts of line	2	3	4	5	6	7	8

Boom Telescope

Maximum Allowable Load which may be telescoped is limited by boom angle, hydraulic pressure, and boom lubrication.

Machine Weight

Maximum Allowable Load ratings are based on a machine having a minimum front axle loading of 22,000 lbs. and a minimum rear axle loading of 30,800 lbs. with the boom in the boom rack.

Jib Hoist Tackle

For loads over 7,500 pounds use 2 parts of line.

LOAD RATING DEDUCT DATA

Weight of hooks, hook blocks, slings, jibs, and all other load handling devices, except the hoist rope, shall be considered part of the load.

Jibs — Maximum Allowable Loads on main boom sheaves must be reduced as follows:

Jibs — (when lifting over main boom with jib attached)

20 ft. Tuckaway Jib on Boom Point	1400 lbs.
20 ft. Tuckaway Jib Stored	420 lbs.
20 ft.-30 ft. Telescopic Tuckaway Jib on Boom Point	2200 lbs.
20 ft.-30 ft. Telescopic Tuckaway Jib Stored	560 lbs.
Lattice Jib on Boom Point	
20 Ft.	1000 lbs. 40 Ft. 1700 lbs.
30 Ft.	1300 lbs. 50 Ft. 2150 lbs.

When hook block is suspended on boom point sheaves, the load over the jib point sheave must be reduced as follows:

20 Ft. Jib	300 lbs.	40 Ft. Jib	250 lbs.
30 Ft. Jib	270 lbs.	50 Ft. Jib	225 lbs.

When Tuckaway jib is in storage position on underside of boom, the load over the jib point sheave must be reduced as follows:

Lattice Jib Length	TUCKAWAY JIB	
	20 Ft. Standard	20 Ft.-30 Ft. Telescopic
20 Ft. Jib	125 lbs.	175 lbs.
30 Ft. Jib	115 lbs.	155 lbs.
40 Ft. Jib	110 lbs.	145 lbs.
50 Ft. Jib	100 lbs.	130 lbs.

MAXIMUM ALLOWABLE LOADS OVER SIDE OR REAR FOR TELESCOPIC TUCKAWAY JIB WITH OUTRIGGERS SET. LOADS SHOWN ARE FOR ALL BOOM LENGTHS.†						
WEIGHT OF HOOK, HOOK BLOCKS, SLINGS AND ALL OTHER LOAD HANDLING DEVICES, EXCEPT THE HOIST ROPE, SHALL BE CONSIDERED PART OF THE LOAD.						
Boom Angle In Degrees	20 Ft. Jib			30 Ft. Jib		
	0° Offset*	15° Offset*	30° Offset*	0° Offset*	15° Offset*	30° Offset*
75	10,000	7,500	6,300	6,800	5,000	4,600
70	8,000	6,300	5,700	6,300	4,800	4,000
65	6,200	5,600	4,800	5,000	4,100	3,400
60	5,200	4,600	4,100	4,500	3,300	2,900
55	4,400	3,900	3,600	3,700	2,700	2,500
50	3,800	3,400	3,200	3,400	2,300	2,200
45	3,100	3,000	2,800	2,200	2,000	2,000
40	2,500	2,400	2,300	1,900	1,800	1,800
35				1,700	1,600	1,600
30				1,400	1,300	1,300

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*Maximum offset (angular centerline of boom to centerline of jib).

†Shaded area indicates machine stability. Unshaded area indicates that maximum allowable load is limited by factors other than stability. Loads do not exceed 85% of tipping loads over the sides or the rear, with machine supported and leveled on fully extended outriggers and standing on a firm, uniform supporting surface.

MAXIMUM ALLOWABLE LOADS OVER SIDE OR REAR FOR LATTICE JIB WITH OUTRIGGERS SET. LOADS SHOWN ARE FOR BOOM LENGTHS FROM 61 FT. TO 80 FT.†												
WEIGHT OF HOOKS, HOOK BLOCKS, SLINGS, JIBS, AND ALL OTHER LOAD HANDLING DEVICES, EXCEPT THE HOIST ROPE, SHALL BE CONSIDERED PART OF THE LOAD.												
Boom Angle In Degrees	20 Ft. Jib			30 Ft. Jib			40 Ft. Jib			50 Ft. Jib		
	0° Offset*	15° Offset*	30° Offset*	0° Offset*	15° Offset*	30° Offset*	0° Offset*	15° Offset*	30° Offset*	0° Offset*	15° Offset*	30° Offset*
75	10,000	7,800	6,300	7,800	5,800	4,800	6,200	4,000	3,500	3,800	2,700	2,300
70	8,100	6,300	5,700	6,800	5,400	4,700	5,100	3,500	3,100	3,400	2,300	2,100
65	6,300	5,700	5,000	5,500	4,500	4,000	3,700	2,800	2,600	2,500	1,800	1,700
60	5,600	4,700	4,200	4,400	3,700	3,500	2,900	2,200	2,200	1,800	1,400	1,400
55	4,700	4,100	3,800	3,600	3,100	3,100	2,200	1,900	1,900	1,300	1,100	1,100
50	4,000	3,600	3,400	2,900	2,600	2,600	1,700	1,600	1,600	900	800	800
45	3,300	3,100	2,900	2,500	2,300	2,300	1,400	1,300	1,300	700	600	600
40	2,600	2,500	2,400	2,200	2,000	2,000	1,200	1,100	1,100	500	500	500
35	1,100	900	800	1,100	1,000	1,000	1,000	900	900	300	300	300
30	1,000	1,000	1,000	1,000	1,000	1,000	800	800	800	200	200	200

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*Maximum offset (angular centerline of boom to centerline of jib).

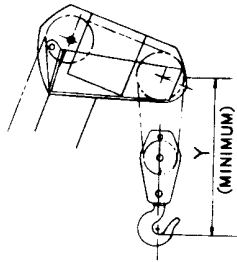
†Shaded area indicates machine stability. Unshaded area indicates that maximum allowable load is limited by factors other than stability. Loads do not exceed 85% of tipping loads over the sides or the rear, with machine supported and leveled on fully extended outriggers and standing on a firm, uniform supporting surface.

LIMITATIONS

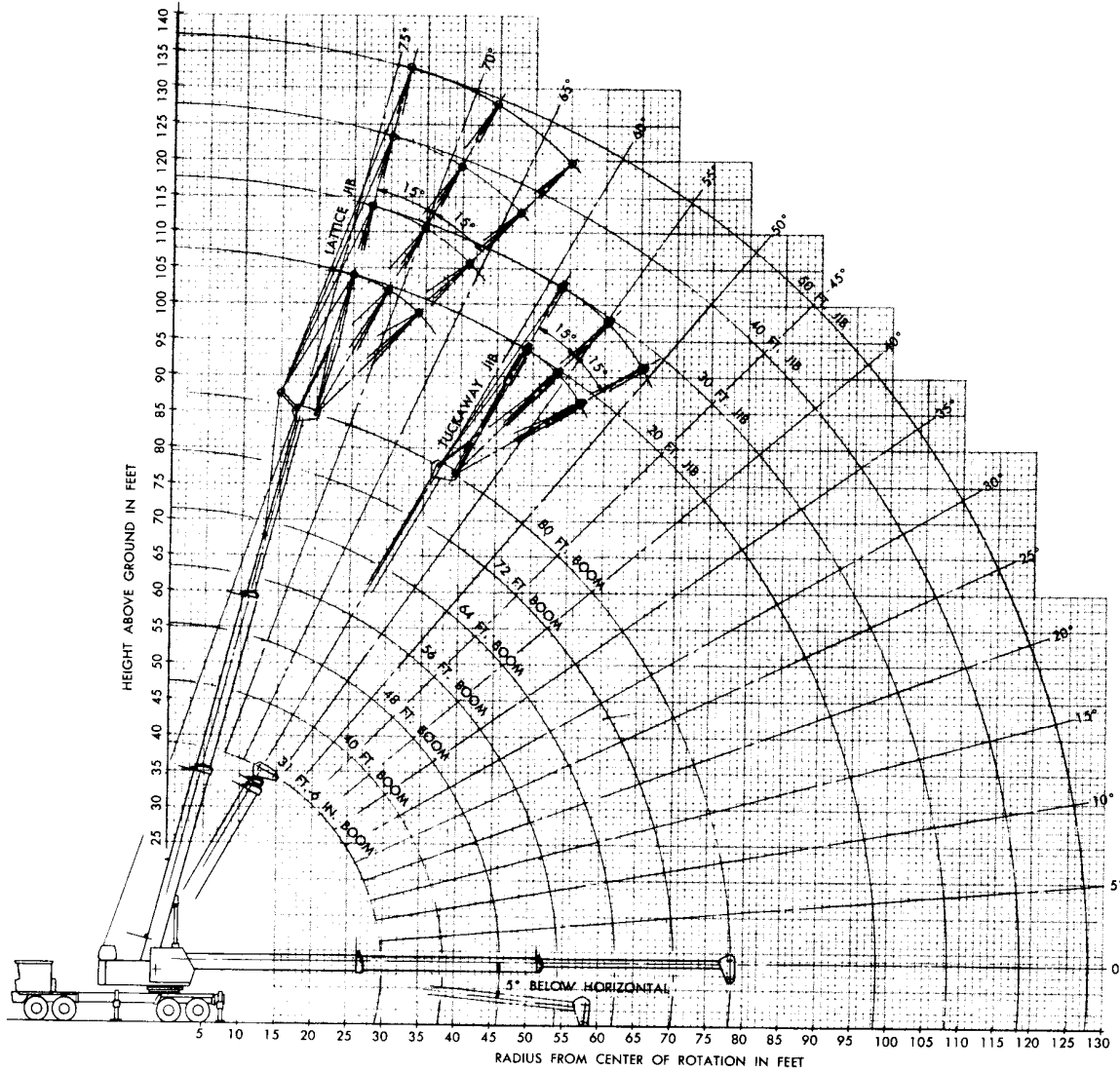
Minimum length of boom for lattice jib service is 61 feet. For operation of lattice jib, the upper boom section must be fully extended, hydraulically locked out of boom telescoping circuit, and mechanically locked with rear guy pendant pin.

30-XC HYDROCRANE®

30 TON HYDRAULIC TRUCK CRANE



HOOK BLOCKS		
Capacity (Tons)	Number of Sheaves	Y (Inches)
30	4	46
10	1	37
5 Ton Weighted Hook		36



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30-XC HYDROCRANE®

30 TON HYDRAULIC TRUCK CRANE

UPPER WORKS

Revolving Frame:

All welded, reinforced alloy steel plate construction with all primary structural members boxed, for maximum rigidity.

Engine:

Diesel engine with 12 volt electric starting system and alternator. Fuel tank capacity 50 gallon.

Hydraulic Pumps:

Four, gear type, tandem mounted, direct driven. Total flow, 116 GPM at 2600 RPM. Master clutch standard.

Hydraulic Valves:

Pressure compensating dual spool type, specially designed by Bucyrus-Erie Company for smooth precision control of all functions.

Hydraulic Reservoir:

Closed type, with integral baffles and return line diffuser. System capacity 140 gallons.

Filter System:

Return line type with replaceable 10 micron element and filter condition indicator.

Swing:

Hydraulic vane type motor driving a precision double reduction planetary swing unit with integral disc brake. Brake is spring set with

hydraulic release. Maximum swing speed is 3.1 rpm.

Swing Circle:

Precision ball bearing swing circle, designed and built by Bucyrus-Erie Company.

Counterweight:

Welded steel plate construction, shell type with variable ballast to suit optional equipment.

Boom:

31 ft. 6 in. to 80 ft. long, three sections full power with synchronized, single lever, extension and retraction. Integral holding valves on both telescoping cylinders. Boom extend and retract time is 60 seconds (minimum).

Boom Elevation:

Twin double acting hydraulic cylinders with integral holding valve. Elevation from minus 5 degrees to 75 degrees. Combination control lever provides for hand or foot operation. Boom elevation times are 37 seconds (minimum) raising and 56 seconds (minimum) lowering.

Operator's Compartment:

Independent of machinery cab with windows on four sides and overhead for full visibility. Sliding left hand window and sliding door

with two position lock. Front window panel is removable. With front panel removed and glareproof overhead panel hinged open, the operator has unrestricted visibility. Bucket seat and windshield wiper are standard. Operator controls include hand and foot throttle and full length control levers.

Main Hoist Drum:

Precision, high speed, planetary hoist units are custom designed and built by the Bucyrus-Erie Company. Hydraulic motor driven with power up and down. Integral automatic brake prevents load creep. Two speed control is standard on main drum. Controlled free fall optional, allows high speed lowering under full control of foot pedal operated mechanical brake.

High speed lagging optional. Lagging fits over reeved drum. Line required for operation is unspooled from top layers of drum. Lagging installed, then respool. Unused line is stored under high speed lagging.

Auxiliary Hoist Drum:

A second hoist drum that mounts ahead of main drum is optional. It is a Bucyrus-Erie Company designed and built unit and includes same features as main drum. Controlled free fall and high speed lagging are available as options.

CARRIER

Chassis:

Specially designed and built to Bucyrus-Erie Company specifications. Equipment includes front and rear fenders, top frame decking, towing eyes at front and rear, steps, and grab handles. A 60 gallon fuel tank is mounted on side of the frame. Standard carrier has 222 in. wheelbase and 8 ft. 0 in. overall width.

Outriggers:

Hydraulically powered, double box type welded to frame, front and rear. Two stage telescoping beams extend to 20 ft. centerline to centerline of vertical jacks and retract to 8 ft. overall width. High strength alloy steel is used throughout. Vertical cylinders are equipped with double lock valves to prevent drift either up or down. Alloy steel floats are self-storing when vertical cylinders are retracted. Standard controls are located in crane operator's cab.

Axles:

Front Axles: Non-driving type, 78³/₄ in. track. Dynamic capacity of tandem is 36,000 pounds.

Rear Axles: Rockwell Standard SLHD with interaxle differential. Dynamic capacity of tandem, 34,000 pounds. 71¹/₂ inch track. 6.167:1 ratio, standard. 5.29:1 ratio optional with GM engine.

Suspension:

Front: Spring suspension with shock absorbers.
Rear: Tandem walking beams.

Wheels:

Steel spoke type.

Tires:

Front: (Four) 15 x 22.5 16 ply, highway tread standard.

Rear: (Four) 15 x 22.5 16 highway tread standard. Custom extra grip tread optional.

(Eight) 10 x 20 12 ply non-directional tread optional.

Brakes:

Service Brakes: Air brakes on both front and both rear axles.

Front: 17¹/₄ in. x 4 in.

Rear: 16¹/₂ in. x 7 in.

Parking Brakes: Maxi spring loaded brake chambers on both rear axles with reserve (emergency release) air tank.

Steering:

Hydraulic power assist type is standard.

Power Plant:

General Motors 6V-53N diesel engine, 6 cylinder, 319 cu. in. displacement is standard. Rating is 210 HP (SAE gross) at 2800 RPM, 12 volt electric starting system. Cummins V-555 and VT-555 engines are optional.

Clutch:

13 in. diameter, two plate.

Transmission:

Fuller RT-613 with 13 speeds forward and 3 reverse. Roadranger type with single shift lever.

Ratios:

Forward	
1st	- 18.00:1
2nd	- 14.04:1
3rd	10.96:1
4th	- 8.64:1
5th	- 6.74:1
6th	5.26:1
7th	4.09:1
8th	- 3.29:1
9th	2.62:1
10th	2.05:1
11th	1.60:1
12th	- 1.24:1
13th	- 1.00:1

Reverse

Low --- 19.00:1

Inter. --- 9.12:1

Dir. --- 2.77:1

Cab:

One-man type offset to left side of carrier. West Coast type mirrors, Bostrom Viking T-bar seat is standard.

Instruments:

Speedometer, voltmeter, tachometer, oil pressure indicator, fuel gauge, water temperature indicator, air pressure gauge, and low air pressure warning device.

Accessories:

Standard equipment includes: sealed beam headlights, tail and stop lights, dome light, front and rear directional signals, clearance lights and reflectors, electric horn, windshield washer and wiper, and heater and defroster. Optional equipment includes: Spare tire and rim, air horn, hourmeter, low oil pressure warning device, back-up alarm, heavy duty cooling package, Jacobs engine brake, spotlight, and hook block storage box.

Geared Speed:

With standard engine at governed speed (MPH): Maximum 61

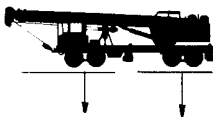
Miscellaneous:

GVW Rating (pounds)	70,000
Turning Radius	56 ft.
Clearance Radius	58 ft.

30-XC HYDROCRANE®

30 TON HYDRAULIC TRUCK CRANE

AXLE LOADS IN POUNDS

222 INCH WHEELBASE CARRIER				TOTAL
1	Machine (Including diesel engines in upper and carrier, full fuel, outriggers, 80 ft. boom, main hoist, and 2,400 pounds counterweight ballast.) NOTE: Does not include operator.	22,000	30,800	52,800
2	Machine with Bucyrus-Erie Company Model #10 Auxiliary Hoist and 1,650 pounds counterweight ballast.	22,150	31,460	53,610
3	Machine with 20 ft. Tuckaway Jib	23,000	30,740	53,740
4	Machine with 20-30 ft. Telescopic Tuckaway Jib	23,250	30,795	54,045
5	Machine with 50 ft. Lattice Jib	23,220	31,150	54,370
6	Machine with 20 ft. Tuckaway and 50 ft. Lattice Jib (1 + 3 + 5)	24,230	31,090	55,320
7	Machine with 20-30 ft. Telescopic Tuckaway and 50 ft. Lattice Jibs (1 + 4 + 5)	24,475	31,150	55,625
8	Machine with Auxiliary Hoist and 20 ft. Tuckaway Jib (1 + 2 + 3)	23,160	31,400	54,560
9	Machine with Auxiliary Hoist and 20-30 ft. Telescoping Tuckaway Jib (1 + 2 + 4)	23,400	31,455	54,855
10	Machine with Auxiliary Hoist and 50 ft. Lattice Jib (1 + 2 + 5)	23,370	31,810	55,180
11	Machine with Auxiliary Hoist, 20 ft. Tuckaway and 50 ft. Lattice Jibs (1 + 2 + 3 + 5)	24,375	31,750	56,125
12	Machine with Auxiliary Hoist, 20-30 ft. Telescoping Tuckaway and 50 ft. Lattice Jibs (1 + 2 + 4 + 5)	24,620	31,810	56,430
13	5 Ton Weighted Hook on Carrier Frame	+ 84	+ 46	+ 130
14	5 Ton Weighted Hook at Front Bumper	- 169	- 39	- 130
15	10 Ton Single Sheave Block on Carrier Frame	+ 128	+ 72	+ 200
16	10 Ton Single Sheave Block at Front Bumper	- 260	- 60	- 200
17	30 Ton Four Sheave Block in Storage Box (Including Weight of Storage Box)	+ 470	+ 130	+ 600
18	30 Ton Four Sheave Block at Front Bumper	- 630	- 115	- 515
19	Optional 10 x 20—12 ply Rear Duals instead of Standard	—	+ 450	+ 450



BUCYRUS-ERIE COMPANY

General Offices: South Milwaukee, Wisconsin, U. S. A. 53172



It is the policy of Bucyrus-Erie Company to improve its products continually. The right is reserved to make changes in specifications or design which in the opinion of this Company are in accord with this policy, or which are necessitated by the unavailability of materials. The description herein is for the purpose of identifying the type of machine, and does not limit or extend the express warranty provisions in any contract of sale.

Spec. No. 30-XC-677

7.5M-HB

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