HC-108B **Tephyrcrane**

Feature for feature . . . matchless in its work range

Check this Buyer's Guide to quick facts and features.

STANDARD

UPPER

Speed-o-Matic controls All-welded, stress-relieved upper frame Involute-splined heat-treated shafting

Machine cut spur gears and pinions Exclusive drum shaft design Extended front and rear drum shafts Fully interchangeable clutches

Independent boomhoist Boom lowering clutch

Eight adjustable conical hook rollers, mounted in four equalized pairs

Rollers, roller brackets and roller path are

Pin-connected crane boom

Two-piece, box-lattice crane boom

Fixed boom backstops-spring loaded bumpers (standard angle boom)

Friction type swing brake

Heavy duty retractable high gantry

Extender cables

Foot-throttle

Three boompoint sheaves on anti-friction

Boomhoist lever kick-out device

OPTIONAL

UPPER

Wide selection of gasoline or diesel engines equipped with friction clutch, hydraulic coupling or torque converter

Cotta two-speed transmission for gasoline

Throttle control mounted on swing or hoist levers

Reversing clutches for either or both main operating drums

Third operating drum

Hydraulic jack for raising or lowering retractable high gantry

"HI-LITE" tubular boom with telescopic boom backstops

Crane boom cable supporting rollers

Crane boom angle indicator

Visual drum rotation indicator

Two-speed hoist drums

CARRIER

Electric remote control

Hydraulic outrigger beams and jacks (cab or ground controlled arrangements

Choice of diesel engines

CARRIER

Heavy-duty custom built 4-axle carrier Hydraulic power steering Planetary rear axles 12 speeds forward and 3 reverse Tapered rear outrigger assembly Double box, removable front and rear outriggers with full width sliding beams Outrigger beams mounted on rollers Full width fenders Storage type running boards 8 x 4 drive 8-wheel brakes

Screw-type outrigger jacks and light-weight

available or combination of both)

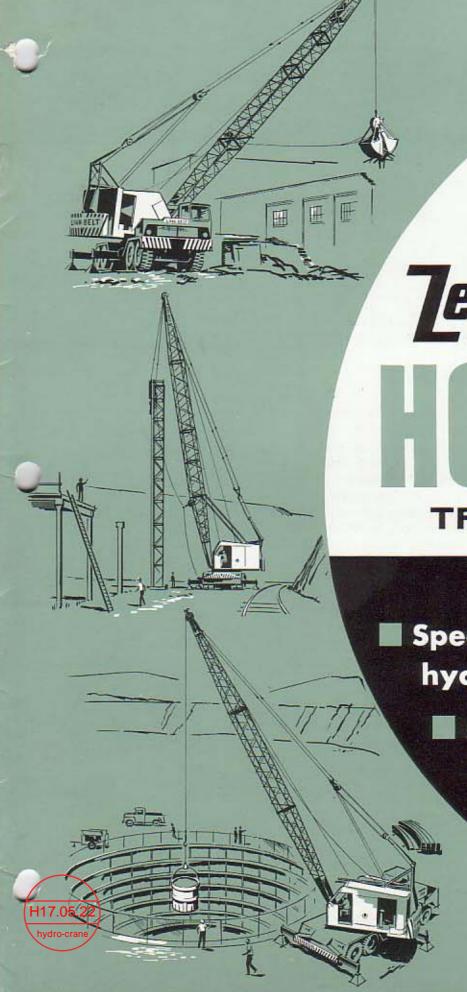
Woodstock, Ontario, Canada

Power cranes and shovels . . . diesel pile hammers . . . all hydraulic excavators

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Minneapolis, Minnesota 55431 Telephone No. 920-3900

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LINK-BELT

45-TON **Tephyrcrane**

TRUCK-CRANE

■ Speed-o-Matic power hydraulic controls

> ■ Angle-type boom and revolutionary "HI-LITE" boom

Sales & Service Headquarters

210 East First Street Duluth, Minnesota 55802

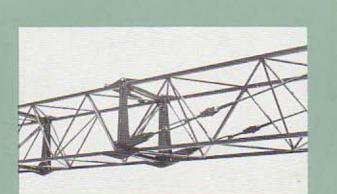
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UPPER

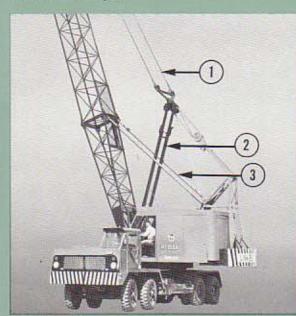
CARRIER

For long booming...the revolutionary "Hi-Lite" tubular boom design

Less weight + double strength Fore capacity, longer reach



MIDPOINT SUSPENSION CABLES-This cable arrangement furnished with "HI-LITE" boom gantry lends support to extra long booms at mid-point . . . reduces boom deflection when raising boom from ground. Required with all "HI-LITE" booms over 130 feet long and optional for use with



① EXTENDER CABLES (Standard) connect bridle or "Hi-Lite" boom gantry to boom head. For long boom work—over 130 feet—two sets of extender cables are required—one set to boom head and the other to boom at mid-point. Reduces boom deflection when raising boom from ground

SPECIAL "HI-LITE" BOOM GANTRY is required for "Hi-Lite" boom only if over 130 feet long, to increase the angle of support and give a better angle of lift, It can also be used for booms undel 17005e22 converts to a short boom for dismantling see strip-down Page 14.

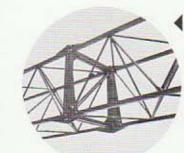
SPRING-LOXUDE TELESCOPIC BOOM BACKSTOPS especially designed for HLLite' boom to give rigid, high support at minimum radius... also repin to "Hi-Lite" boom gantry only when main boom is removed.



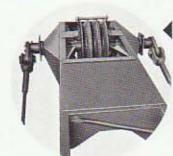
Unassisted, the HC-108B raises a total of 200 feet of boom and jib from ground to sky ...

Applied geometry and new steel pay off. Use of an age-old geometric figure-the tetrahedron-plus high strength, light weight steel tubing explains how it's possible for

this 45 ton rig to pick up from the ground 150 feet of main boom plus 50 feet of jib or 150 feet of main boom alone . . . both unassisted . . . with "Hi-Lite" boom.



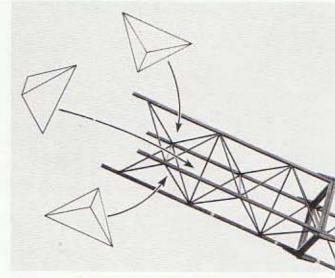
PIN CONNECTIONS-are stand ard for both the angle-type boom and the optional "HI-LITE" boom. They permit fast, simple folding . . . save time when inserting or removing boom extensions. Because chords are butted together, boom stresses are not on the connecting pins, All boom section butt plates are precision machined to eliminate possible high spots . . . assure proper full-face mating of sections.



THREE SHEAVE HEAD MACHIN-ERY for either standard angle boom or optional "HI-LITE" boom features three boom-point sheaves mounted on anti-friction bearings. No need to lower boom for daily greasing. Triple sheaves permit multiple reeving of hoist line for extra fine control in spotting loads. Jib peak sheaves also on anti-friction



A STUDY IN SYMMETRY is this end view of the optional "HI-LITE" tubular boom, Pyramidlike, tetrahedronal cross bracing design cuts long boom deflection and whipping action to a safe minimum. The four main chords are sealed square tubes of high-strength, lightweight alloy steel Latticework and internal cross bracing are of sealed, round tubing



TETRAHEDRON IS STRONGEST OPEN BRACED GEOMETRIC FIGURE and is the only geometric figure made of just four sides. And, because the four sides are all triangular in shape, this pyramid-like structure offers the greatest resistance to stresses or loadings from all directions. Hundreds of these triangles combine to form scores of tetrahedrons throughout the length of the "Hi-Lite" boom. All work together as a brace against the combined forces of compression,

CABLE SUPPORTING ROLLERS are required when a third drum cable passes over crane boom. One roller is fur-nished as standard for "Hi-Lite" booms, 40 feet to 100 feet long. These rollers, full width of boom and mounted on anti-friction bearings, protect any long boom from cable slap or wear, also give longer cable life.

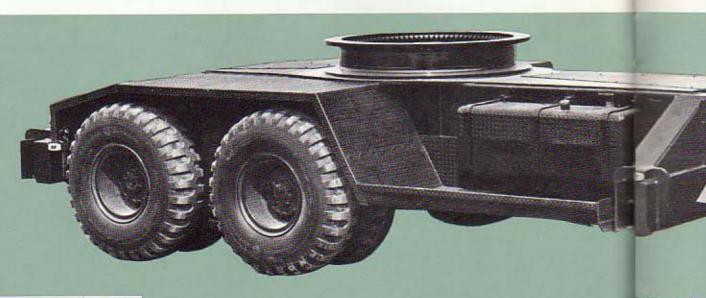
Job-tailored safety-rated features include

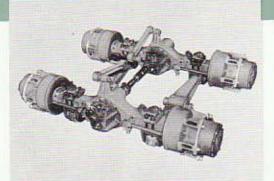
spring-loaded fixed boom backstops for angle booms and telescopic boom backs for "Hi-Lite" booms, extender cables for both booms, hydraulic controlled ng brake, Hip7eQ5.22h dependent boom-hoist . . . power up and down, automatic brake and safety locking pawl, boom hoist kickout device. Among optional features are boom angle indicator, drum rotation indicator, cable supporting rollers for top side of crane booms and roller type hoist cable guards for both crane booms.



HC-108B CARRIERS

cat-quick on the road...tigers on the job





PLANETARY AXLES are well suited for truck-crane carriers because they provide high mechanical efficiency and place the final force at the rim of the wheel for greater traction effort. Additional advantages are their relative lightweight, low maintenance record and high



BOGIE OR WALKING BEAM SUPPORT for both front and rear axles on 4-axle carrier allows tandem wheels to follow uneven terrain for maximum traction and

Standard 4-axle carrier

Custom-built to Link-Belt Speeder's specifications, this specially designed carrier provides a sturdy, stable working platform for all lifting of trouble-free service.

It features these outstanding customer benefits as standard equipment:

- Hydraulic power steering
- Full-floating walking beam support for tandem front and rear axles
- 12 speeds forward and 3 reverse provide a wide range of speeds for both on and off-highway travel
- Planetary rear axles
- 8-wheel air brakes
- Removable front and rear outrigger boxes and beams
- Diamond plate rear fenders

Optional features include:

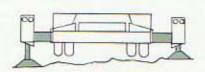
- DicH17.05.22
- Electris remote control
- Screw type outrigger jacks and lightweight pontoons
- Hydraulically controlled outrigger beams and jacks

Power Hydraulic Outriggers

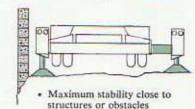


each cylinder by a pilot-operated safety check valve . . fixed connection between check valve and cylinder . . assuring maximum safety during lifts. Check valve Optional hydraulic outriggers have indi- sure in the Speed-o-Matic system and and connections are protected by a steel

vidual beams and piston jacks which are assures no loss of pressure at the operapositioned quickly and accurately. Max- tor's control panel while positioning the imum stability is insured even on the hydraulic outriggers. All hoses are conroughest terrain or close to structures or obstacles. No additional cribbing for any external abuse. A 1176.05.22 valve proper adjustment is necessary. Directional control valve at operator's stand pressure due to accidental interpretations. provides oil pressure for the hydraulic Quick disconnect on hoses permits outoutriggers. This valve locks existing presrigger boxes to easily be removed.



· Maximum stability on roughest terrain



- Three Optional Arrangements · Two-point contact (rear only) with individual cab controls for both
- · Four-point contact (front and rear) with individual ground-operated controls for beams and jacks at all four contact points.
- · Four-point contact with rear two points operable from operator's cab.

crane jobs . . . offers the quality construction needed for many years

HYDRAULIC OIL IS POSITIVELY checked in

REMOVABLE FRONT AND REAR OUTRIGGER BOXES AND BEAMS add to the ease of stripping weight from the HC-108B for highway travel. Full-width, double sliding beams in both front and rear boxes are mounted on rollers for fast, easy extension or retraction. Screw-type outrigger jacks are optional and the lightweight pontoons. also optional, feature a quick connect and disconnect socket.