No other machine in the work range can compare... with the

HC-108A  ZephyrCranes

True power hydraulic control system
Smooth Speed-o-Matic power speed work, cuts operator fatigue and needs less adjustment than other systems.

Unique full-function design permits independent machine operations
Separate shafts, gears and clutches for each function allow simultaneous performance of many operations... greatly reduce power train wear.

Lasting strength and stamina
The HC-108A features quality materials and precision fabrication throughout. There's far less chance for misalignment and resulting wear.

More readily accessible than most service areas would believe possible
Machine can be easily field stripped without removing major portions of cab.

Check these standard features, many of which are obtained only as optional extras on other machines or are entirely exclusive with Link-Belt Speeder

CARRIER
- Heavy-duty custom built 3-wheel carrier
- Hydraulic power steering
- Power brakes
- 12-speed, forward and reverse gear
- Telescopic rear and front assembly
- Double box, removable front and rear superstructures with full width climbing beams
- Overhead beams mounted on wheels
- Full fenders
- Storage type running boards
- 6 x 4 drive
- 4-wheel brakes

UPPER
- Speed-o-Matic controls
- All welded, tractor-trailer type super structure
- Bolted-soldered heavy-gage tubing throughout
- Machine cut gear and axles
- Extended rear drum shafts
- Fully-interchangeable cushions
- Independent front and rear hydraulics
- Universal latching clamps
- Eight adjustable control boss clamps mounted on four equals poles
- Rollers, roller brackets and roller path not heat-treated
- Pin-connected crane boom
- Two-place, back-up crane boom
- Rigid boom back-lower spring-loaded bumpers (standard angle boom)
- Rotation type swing brake
- Heavy duty, non-corrosive high-mower
- Extended cables
- Front diamonds
- Three boomoperating sheaves on needle bearings

Get all the optional features you need to custom-tailor the machine to the job

CARRIER
- 4-wheel drive (5 x 4 drive with 4-wheel brakes)
- Electric remote control
- Screw-type outrigger jacks and light weight positioners
- Hydraulic outrigger beams and jacks (both on spreader, centered outrigger available)
- Choice of diesel engines

UPPER
- Wide selection of gasoline or diesel engines equipped with friction clutch, hydraulic coupling and voltage converter
- Cuts two-speed transmissions for gasoline engines
- Throttle control mounted on swing or hole treads
- Resolving clutches for either of both main operating drum
- Third operating drum

The HC-108A... an advance design 40-ton capacity truck crane engineered for both current and future assignments

Sales & Service Headquarters
MILLER EQUIPMENT COMPANY
32910 Plymouth Road
LIVONIA, MICHIGAN
P. O. Box 2030

40-ton capacity Truck cranes
with Speed-o-Matic power hydraulic controls and featuring the revolutionary new "HI-LITE" boom

GRAND RAPIDS 9, MICHIGAN
9125 28th St. S. W.
P. O. Box 375

Lewes 2-2344

Printed in U.S.A.
cat-quick on the road... tigers on the job

Standard 3-axle carrier

Custom-built to Link-Belt Speeder's specifications, this specially designed carrier provides a sturdy, stable working platform for all lifting crane jobs... offers the quality construction needed for many years of trouble-free service.

It features these outstanding customer benefits as standard equipment:
- Hydraulic power steering
- Full-floating walking beam support for tandem rear axles
- 12 speeds forward and reverse provide a wide range of speeds for both on and off-highway travel
- 6 x 4 drive
- Planetary rear axles
- 6-wheel air brakes
- Removable front and rear outrigger boxes and beams
- Diamond plate rear fenders

Optional features include:
- Diesel engine
- Electric remote control
- Screw type outrigger jacks and lightweight pontoons
- Hydraulically controlled outrigger beams and jacks

Optional 4-axle carrier

This sturdy, highly mobile carrier was designed specifically to distribute axle loadings more evenly over the full length of the carrier. Front and rear tandem axles are bogie-mounted. Standard features include 6 x 4 drive with 6-wheel air brakes, 12 speeds forward and reverse, power steering, planetary rear axles, removable front and rear outrigger boxes and beams and diamond plate rear fenders. Optional equipment is the same as listed for the 3-axle carrier.

HYDRAULIC OUTRIGGER JACKS AND BEAMS (optional): Power hydraulic retraction of outrigger beams and jacks for fast setup or getaway. Readout for actual boom time is increased. Tow arrangements are available:

- Two-point contact (rear only) with individual side controls for both beams and jacks.
- Four-point contact (front and rear) with individual ground-located controls for beams and jacks at all four contact points.
Introducing the revolutionary

Less weight + double strength = more capacity, longer reach

new "HI-LITE" tubular boom

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

The ancient Greeks had a word for it—tetrahedron—and Link-Belt Speeder has developed a unique application for it... the result is a revolutionary design change in the conventionally styled crane boom.

**TETRAHEDRON IS STRONGEST GEOMETRIC FIGURE**

The tetrahedron is the only solid geometric figure made up 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.

**STANDARD ANGLE-TYPE BOOM**

Usually used in all general purpose lifting crane applications, the standard angle-shaped boom is 3/4 of the tetrahedron, tetrahedral construction, with steep angles at the joints. Variations in this basic boom are available in up to 25 foot sections. The HC-108A provides the basic boom and the necessary support for the conventional crane jib.

**ROOMIEST LEVEL SIDE-OUT OPTION:**

A design feature of the HC-108A is the roomiest level side-out option. By using a simple mechanism, the boom can be levelled, the normal practice where the boom is tilted, the HC-108A design feature allows the jib to swing freely from the side of the crane.

**FIN CONNEXIONS are standard for both the angle-type booms and the optional "HI-LITE" booms.**

**SPECIAL "HI-LITE" BOOM GUARD is required for "HI-LITE" booms over 130 feet long to increase the angle of support between boom and jib.**

**Other job-tailored crane features include**

- spring-loaded rigid boom backstops for single booms and telescopic backstops for "HI-LITE" booms.
- extended cables for both booms and hydraulic-controlled swing brakes.
- Among optional features are boom angle indicator, drum rotation indicator and cable supporting rollers for top sides of long crane booms. Also, roller type boom-point cable guard for single booms.

A STUDY IN SUPPORT is this end view of the optional "HI-LITE" tubular boom. Pivoted into the tetrahedral crane structure, it is a unique design which reduces the number of support points and increases the overall stability of the crane.

**RODJOINT SUSPENSION CABLES:**

These special suspension cables are used in place of conventional cables in the "HI-LITE" feature. They provide greater control, safety and reduced maintenance. A combination of two steel cables forms the main support of the HC-108A crane.

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**STANDARD ANGLE-TYPE BOOM:**

A standard design used in all general purpose lifting crane applications. It is the conventional type of crane boom, with the basic boom and jib section forming a single, integral unit.

**ROOMIEST LEVEL SIDE-OUT OPTION:**

A feature of the HC-108A, the roomiest level side-out option allows the boom to be levelled and the jib to swing freely from the side of the crane.

**SPECIAL "HI-LITE" BOOM GUARD:**

Required for booms over 130 feet long, it increases the angle of support between boom and jib.

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