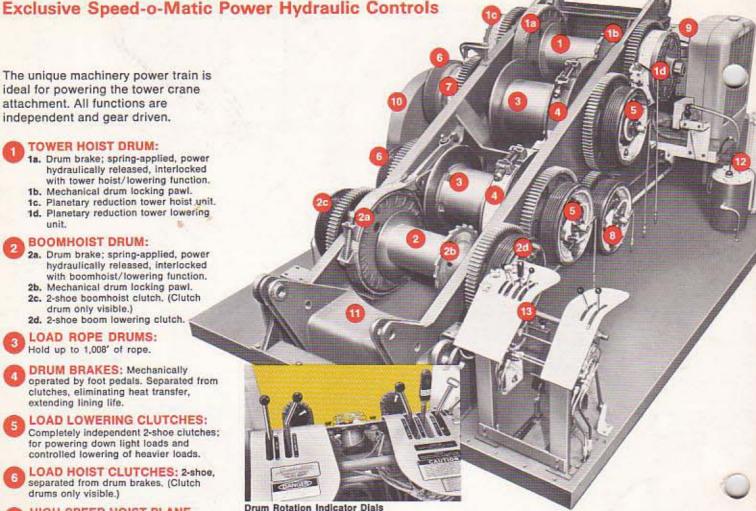
The unique machinery power train is ideal for powering the tower crane attachment. All functions are independent and gear driven.

Famous Full-Function Upper Design

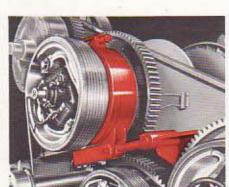


- 1a. Drum brake; spring-applied, power hydraulically released, interlocked with tower hoist/lowering function.
- 1b. Mechanical drum locking pawl. 1c. Planetary reduction tower hoist unit.
- 1d. Planetary reduction tower lowering
- **BOOMHOIST DRUM:** 
  - 2a. Drum brake; spring-applied, power hydraulically released, interlocked with boomhoist/lowering function.
  - 2b. Mechanical drum locking pawl. 2c. 2-shoe boomhoist clutch, (Clutch
  - drum only visible.) 2d. 2-shoe boom lowering clutch.
- LOAD ROPE DRUMS:
- Hold up to 1,008' of rope.
- DRUM BRAKES: Mechanically operated by foot pedals. Separated from clutches, eliminating heat transfer, extending lining life.
- LOAD LOWERING CLUTCHES: Completely independent 2-shoe clutches; for powering down light loads and controlled lowering of heavier loads.
- LOAD HOIST CLUTCHES: 2-shoe, separated from drum brakes, (Clutch drums only visible.)
- HIGH-SPEED HOIST PLANE-TARY DRIVE UNIT: Optional on front and rear hoist drums. Gives rope hoist speed up to 304 f.p.m. on 1st layer, 455 f.p.m. on 7th layer.
- SWING: 2-shoe swing clutches transmit power smoothly to the vertical swing shaft. (Only left side swing clutch
- ENGINE: Diesel engine with torque
- TRANSMISSION: Engine power to machinery through chain enclosed in chain case.
- UPPER FRAME: Jig welded and stress relieved for strength and durability; line bored for proper shaft and gear alignment.
- POWER PACKAGE FOR POWER HYDRAULIC CONTROLS: Vanetype pump, belt driven from engine; piston-type accumulator and sump tank. Normal system operating pressure, 900 to 1,050 p.s.i.
- CONTROL CONSOLE: Exclusive Speed-o-Matic power hydraulic controls, time-tested and proven throughout the



Rotation indicator dials for both the front and rear drums are mounted on the operator's control console.

The flexibility of Link-Belt Speeder design makes possible independent, planetary-driven, 2-speed front and rear rope drums and, at the same time, retain standard speed for swing, tower, and boom hoist.



2-Speed Rope Drums, Planetary Driven

With an extended drum shaft, planetary is mounted between the drum gear and clutch drum; provides up to 70% increased hoist speed (up to 455 f.p.m. on 7th layer of rope on drum). Engaging standard 2-shoe clutch provides standard rope speed; planetaries are controlled by push button located on hoist drum control lever.

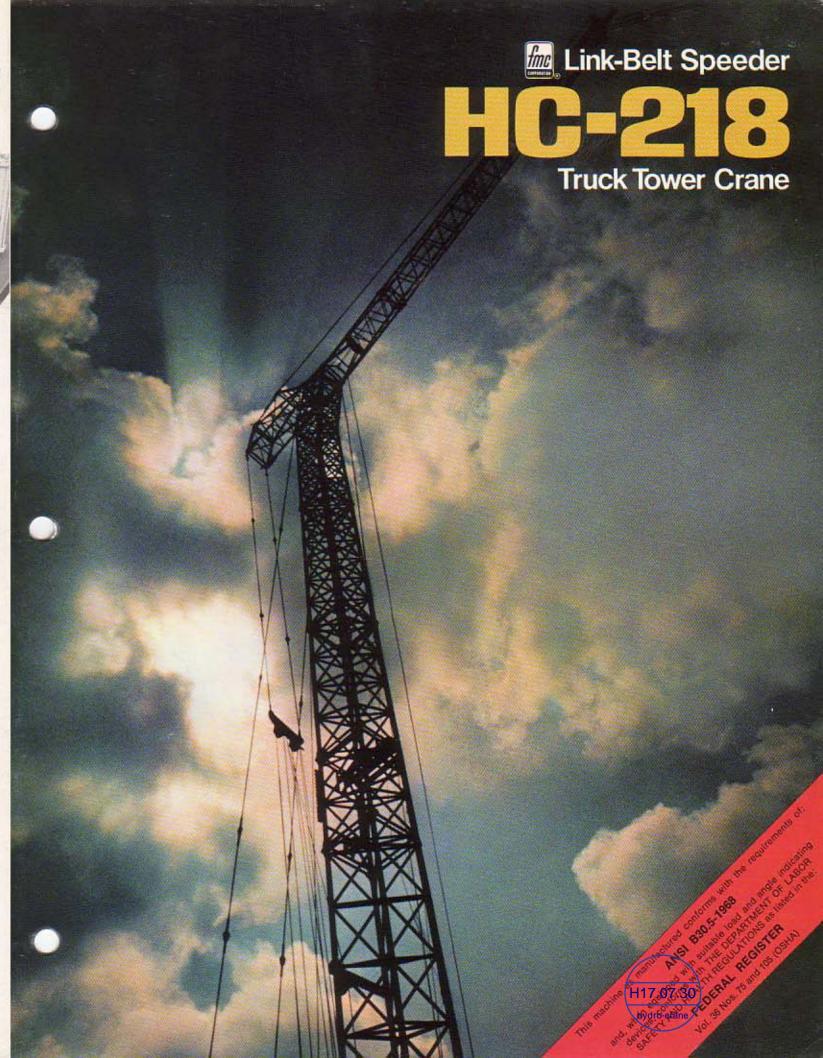
The tower and boom hoist rope drum brakes are automatically spring applied and power hydraulically released. The swing brake is automatically spring applied and power hydraulically released and can be set manually to hold crane upper and tower attachment at any swing position, or can be set manually to engage partially for a slight drag when making precision lifts. Swing brake is controlled from operator's position. The HC-218 also features a swing lock as standard equipment.

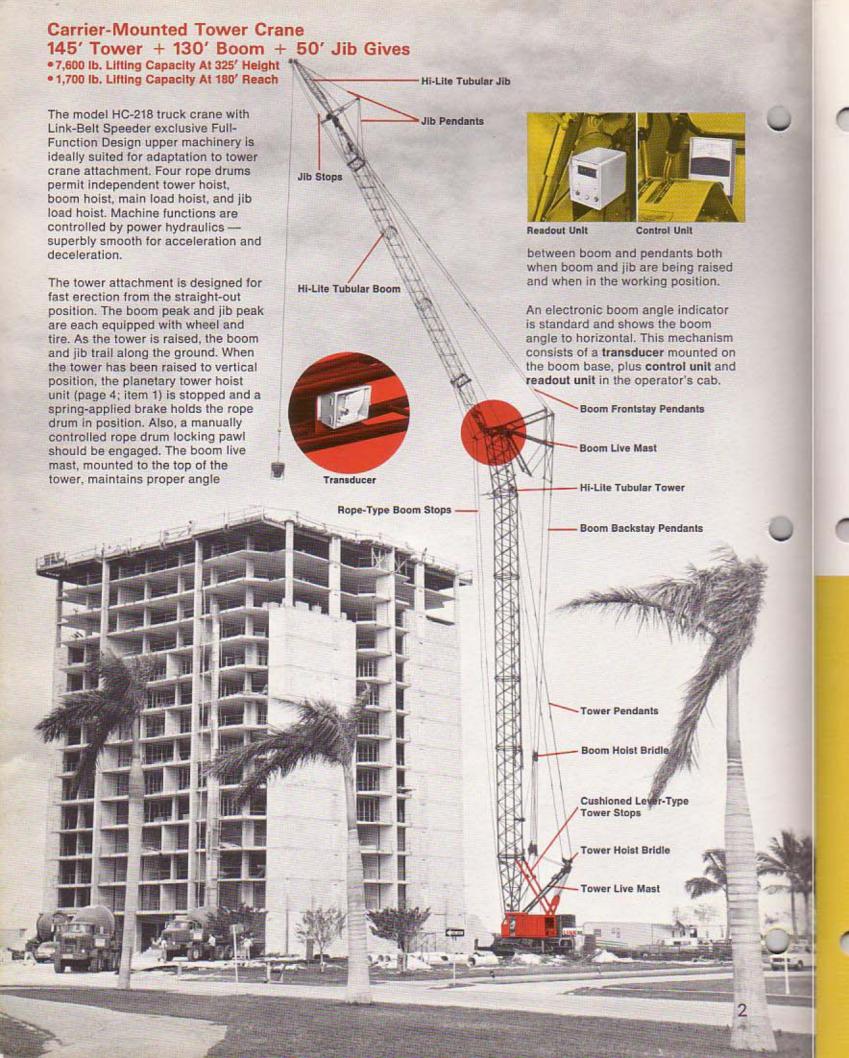
We are constantly improving our products and therefore reserve the right to change designs and specifications.



Cedar Rapids, Iowa . Woodstock, Ontario, Canada . Queretaro, Mexico . Milan, Italy









**Tower Hoist Kick-Out Device** 

A tower hoist kick-out device is standard. Should the operator neglect to shut off the tower hoist, as the tower approaches the vertical position, this kick-out device activates a mechanism that automatically disengages the tower hoist and applies the spring-applied rope drum brake.

Standard boom peak is equipped with two sheaves. Jib peak is equipped with one sheave. Boom is equipped with hoist line deflector rollers. Cushioned, lever-type tower stops and rope-type boom stops are standard.

The tubular Hi-Lite tower, boom, and jib are outstanding in design and are

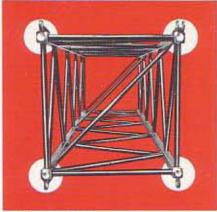
precision built, using special automatic machine tools and fixtures.

Special 10' tower section with sheaves is available to permit use of 50' tower as a boom for assembling the tower attachment.

The tower is especially designed to perform its functions in supporting the boom, jib, and load. Tower chords are square tube with round tubular lattice. Tower sections are pin-connected to facilitate the insertion or removal of sections. Minimum tower length is 70'; maximum, 155'. (Refer to flysheet for available tower/boom/jib lengths.) Tower section butt plates are precision machined for full-face mating of sections. Male and



Pin-Connected Boom



Pin-Connected Tower

female connecting lug arrangement aids in proper assembly.

Pin connected boom and jib have round alloy steel tubular chords.

Machine coped lattice ends match the contour of the chords and are carefully welded in place with 360° welds. The method of welding the in-line pin lugs to the round chord tube is an exclusive development of Link-Belt Speeder engineering/manufacturing technology. Tapered end pins are held in place with latch pins.

## Link-Belt Speeder Custom-Designed Carrier For Mobility And On-The-Job Durability

