

Link-Belt
CONSTRUCTION EQUIPMENT

Rough Terrain Cranes

22 - 60 Tons



Link-Belt Hydraulic Rough Terrain Cranes — A blend of performance features, reliability, and value

Booms

- Patented boom design provides superior strength to weight ratio.
- 2, 3 and 4 section booms available.
- Optional swing-away lattice flys and/or A-frame jibs - stowable for enhanced tip height.
- —3° Boom angle for easy rigging.
 - + 80° Boom angle for increased work height.

Operator's Cab

- Industry's finest cab — deluxe roomy interior with fully adjustable fabric seat.
- Tinted glass — standard.
- Sliding windows with swing-up roof window allows maximum ventilation and comfort.
- Comprehensive & easy to read dash-mounted instrumentation.
- Cab rubber mounted to reduce noise and vibration.
- For fleet owners, all cab controls are identical.
- Foot pedals available for swing brake and boomhoist provide multiple function capabilities.

Load Hoist System

- 3 types of winch designs available.
 - Model 1M — 1 speed power up / power down
 - Model 2M — 2 speed power up / power down
 - Model 3M — Freefall with 2 speed power up / power down
- Link-Belt's exclusive true gravity controlled free fall for superior duty-cycle production.
- 5° inward sloped flanges on drum lagging ensures smooth wire rope wrapping.
- Main and auxiliary winches — always the same size for improved operation and production.
- Line speeds - up to 548 fpm.
- Line pulls - up to 15,870 lbs.

Swing System

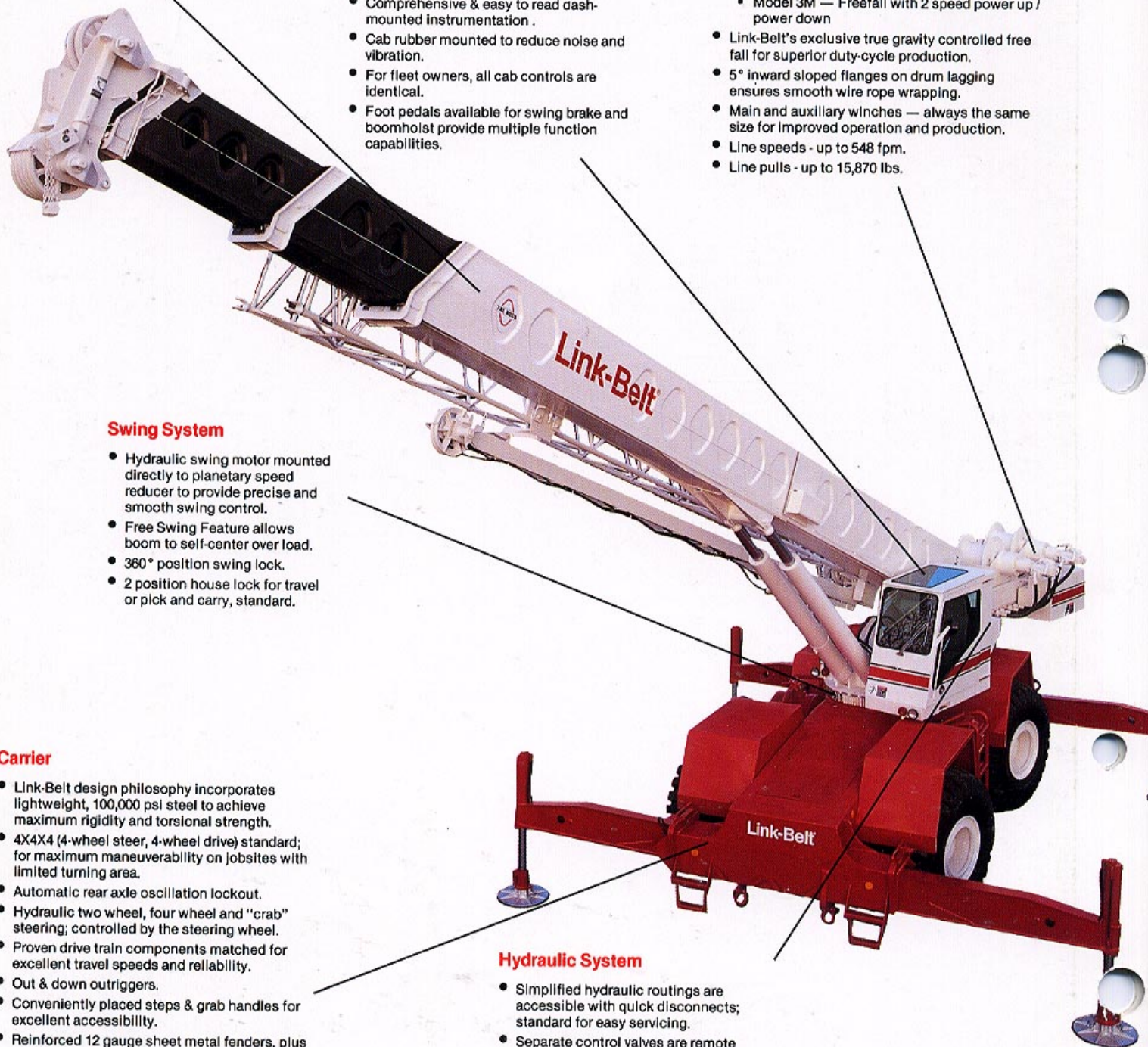
- Hydraulic swing motor mounted directly to planetary speed reducer to provide precise and smooth swing control.
- Free Swing Feature allows boom to self-center over load.
- 360° position swing lock.
- 2 position house lock for travel or pick and carry, standard.

Carrier

- Link-Belt design philosophy incorporates lightweight, 100,000 psi steel to achieve maximum rigidity and torsional strength.
- 4X4X4 (4-wheel steer, 4-wheel drive) standard; for maximum maneuverability on jobsites with limited turning area.
- Automatic rear axle oscillation lockout.
- Hydraulic two wheel, four wheel and "crab" steering; controlled by the steering wheel.
- Proven drive train components matched for excellent travel speeds and reliability.
- Out & down outriggers.
- Conveniently placed steps & grab handles for excellent accessibility.
- Reinforced 12 gauge sheet metal fenders, plus large engine access doors.

Hydraulic System

- Simplified hydraulic routings are accessible with quick disconnects; standard for easy servicing.
- Separate control valves are remote mounted for each operating circuit providing easy service access.
- Available pump disconnect — aids in cold weather starting and extends pump life.



Link-Belt Control Center— Comfortable, clean design



▲ Operator's Control Center

Link-Belt — long the leader in hydraulic crane operator cab design, offers these features:

- Full instrumentation and toggle switches with international symbols dash-mounted for convenience.
- Tilt/telescoping steering wheel.
- Circuit breakers dash-mounted for accessibility.
- Reliable rubber encased toggle switches protect against dust and moisture.
- Human engineered low effort control levers.
- For fleet owners — all hydraulic crane controls are identical for ease of operation.
- Standard cab features:
 - Six-way adjustable seat.
 - Tinted glass.
 - Swing-up top window — gas cylinder supported.
 - Sliding windows for excellent visibility & ventilation.

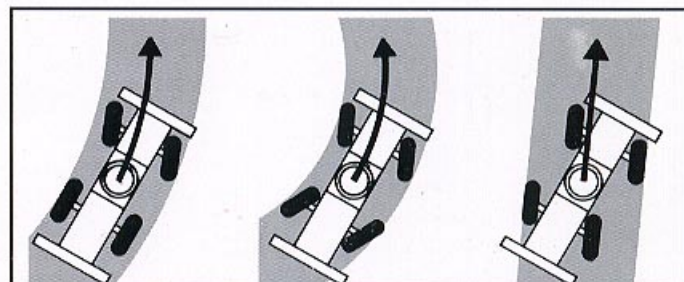
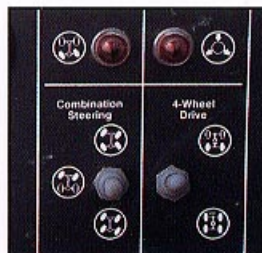


▲ Tilt/telescoping steering wheel for enhanced accessibility. Steering wheel tilts out of the way for crane operation.

Maneuverability

Three-mode full power steering

Convenient dash-mounted toggle switches offer choices of 2 or 4-wheel drive and three steering modes - all controlled from the steering wheel.



Two-wheel Steer

Four-wheel Steer

"Crab" Steer

Hoist Systems — Matched to your job requirements

- 3 design types
- Equal size main and auxiliary winches sized to machine capacity
- Freefall — Link-Belt exclusive design

Model 1M Winch

One speed power up/power down

Single speed hydraulic motor, planetary gear drive with integral automatic brake and 5° sloped flanges.

Model 2M Winch

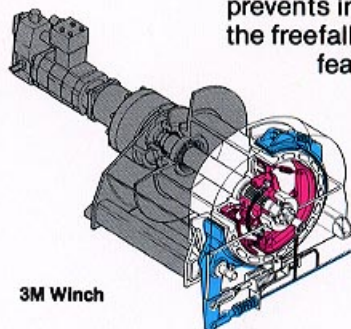
Two speed power up/power down

Two speed hydraulic motor, planetary drive with integral automatic brake and 5° sloped flanges.

Model 3M Winch

Two speed power up/power down PLUS True Gravity Controlled Freefall.

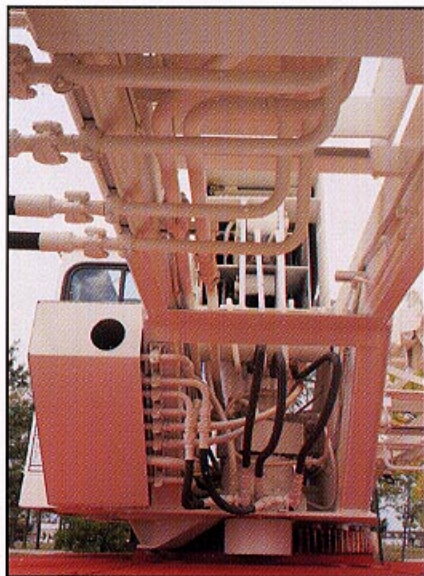
Two speed hydraulic motor, planetary drive with integral automatic brake and 5° sloped flanges PLUS Link-Belt's exclusive drum brake assembly—optional.



The model 3M winch is activated by 3 simple steps that provides the user unsurpassed performance in duty cycle operation. The system has built-in dead-man overrides that prevents inadvertent activation of the freefall system. The 3M winch features:

- Dual independent braking system.
- Cooler running hydraulic system
- Less component wear
- High line speeds

State-Of-The-Art Systems — Clean, efficient designs



▲ Simplified Routings

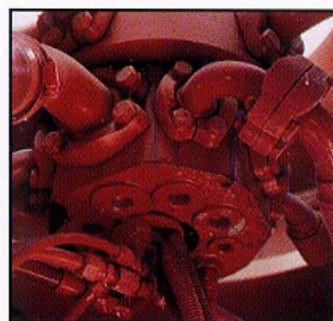
All Link-Belt hydraulic cranes incorporate well thought out routings for easy access. Fittings and connections are staggered where necessary for quick and easy servicing.

Quick Disconnects

Standard on all hydraulic cranes for fast convenient system pressure checks.

For Fleet Owners ▶

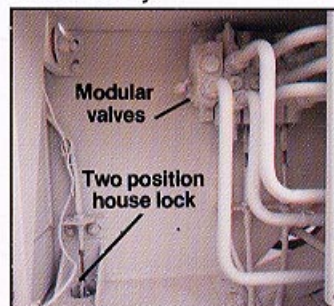
One 6 micron hydraulic filter fits 22 different Link-Belt hydraulic crane models. This design concept reduces your parts inventories and simplifies servicing.



▲ Accessibility Designed In

Rotating joint has split flange fittings and clearance for accessibility.

Separate modular valves for each circuit provide simplified routings for accessibility. ▼





Link-Belt's Patented Boom Design

Embossed sidewall stiffeners with no-weld corners

Boom Concept

The arrangement of high strength angle chords (corners) with high formability steel sidewalls (embossments) places the most steel at corners where maximum stress is concentrated. The result: maximum strength with minimum weight.

Embossed Sidewall Stiffeners

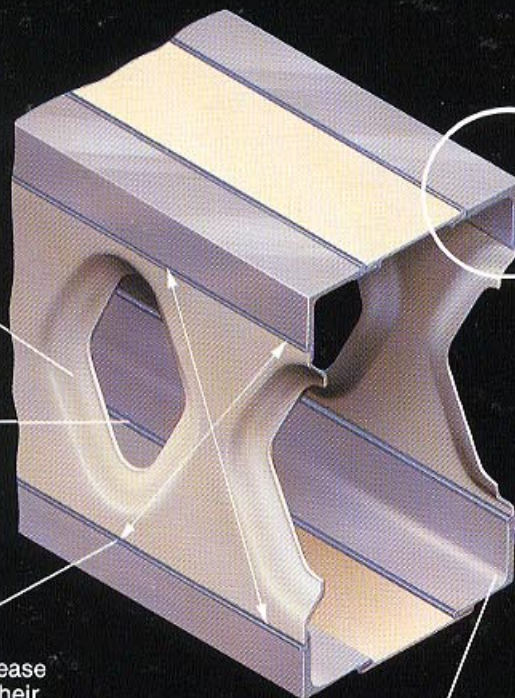
Increases sidewall stiffness.

Diamond-Shaped Punchouts

Reduces boom weight while enhancing accessibility.

Sidewall Design Concept

Not only do the embossments increase sidewall stiffness, but because of their placement they naturally transfer stresses uniformly to the high strength angle chords (corners) - a concept derived from Link-Belt lattice boom technology.



Angle Chords

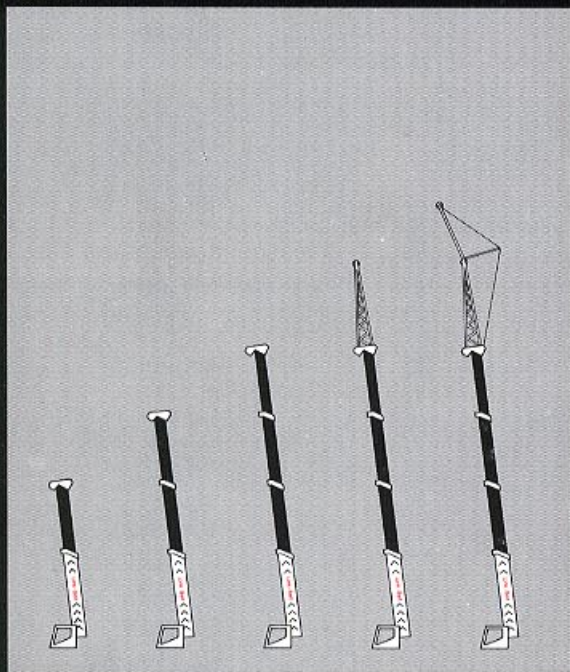
100,000 psi high strength steel angle chords are precision machined for boom sidewall overlap. This design allows all interior and exterior boom welds to be offset or staggered for maximum structural integrity.

NO WELDS IN HIGH STRESS CORNERS

Time Proven Boom Design

Over a decade and thousands of hydraulic crane booms later, Link-Belt's exclusive, patented design is unchanged — state-of-the-art — before its time; providing superior capacities, tip heights and reliability.

It is true testimony to Link-Belt's engineering design achievement that this design concept is being imitated today for optimum performance.



▲ Stowable Attachments

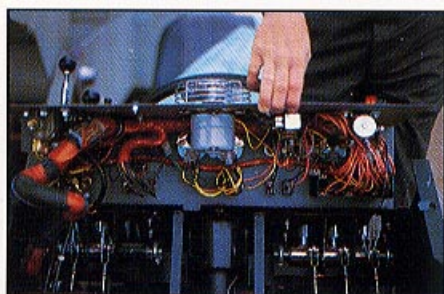
A-Frame jib can also be removed for increased fly capacities.

◀ Attachment Flexibility

Your choice:

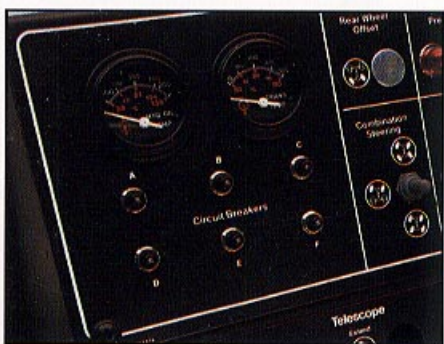
- 2 section boom — 49' 6"
- 3 section booms — up to 85'
- 4 section booms with power manual section — up to 110'
- Stowable flies — one piece, lattice — up to 33'
- Stowable A-Frame jibs — offsets to 5°, 17½° or 30° — up to 25'

Designed-In Added Value—Reliable components and access to serviceable items



▲ Centralized Electrical System

Because all instrumentation is dash mounted, 4 bolts remove the panel to quickly & easily expose the electrical system.



▲ Circuit Breakers

In-the-dash circuit breakers are easily resettable within reach of the operator. No fuses or in-line problems.



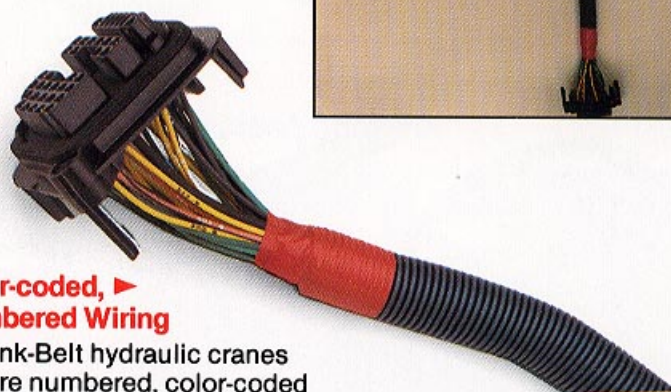
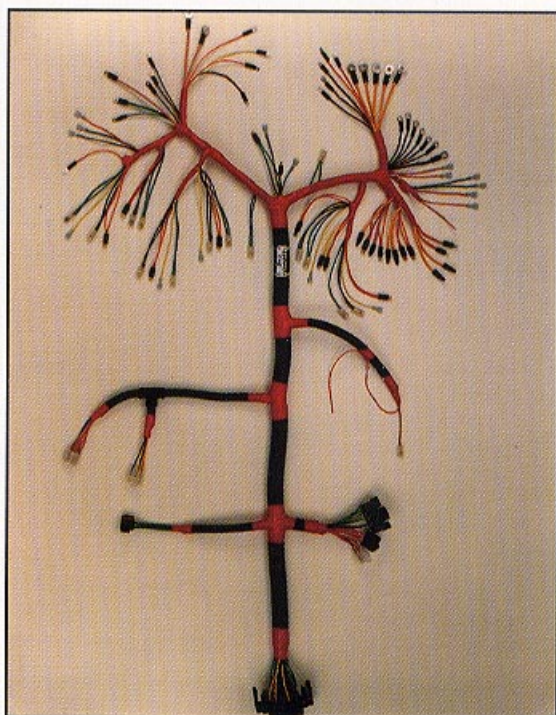
▲ Accessible Collector Ring

Quick removal of a protective cover exposes the collector ring, with the boom at any angle.

State-of-the-Art Wire Harness

All Link-Belt hydraulic cranes have Packard XL automotive-type wire harnesses throughout for outstanding long term reliability.

— For fleet owners, all models feature uniform routing of wire harnesses.



Color-coded, ► Numbered Wiring

All Link-Belt hydraulic cranes feature numbered, color-coded wiring that is encased in a protective sheath. Brass spade-type connectors greatly improve reliability. Uniform routing makes servicing and troubleshooting easier than ever before.

Link-Belt Hydraulic Rough Terrain Cranes are made in the USA and deliver the industry's finest combination of performance features, PLUS, state-of-the-art "designed-in" reliability and serviceability features. Your Link-Belt distributor stands ready to assist you in discovering the industry's best investment.



Authorized Link-Belt Distributor