Full-Function Upper for Maximum Application Versatility
Performs Functions Simultaneously or Independently

Link-Belt Speeder
LS-118
60-Ton Crawler Crane

1. DIESEL ENGINE WITH TORQUE CONVERTER: GM 6-71 is standard. GM 8-71 is optional.
2. UPPER FRAME: All-angled plates relieved for strength and flexibility. The boxed for ease of service which ensures properly aligned shafts and gears and minimizes wear and down-time.

3. TRAVEL: Independent, 3-wheel drive, planetary pinion gearing. Power is transmitted directly to the track through a 2-speed, 3-wheel drive. (Note: TH rudiments are visible.)

4. SWING: A pair of swing drives mounted directly to the vertical and horizontal axis. (Note: SWINGdrive is visible.)

5. BOOMHOIST: Independent, gear drive with 8-inch clutches for both raising and lowering. The boom raising motion is opposite to that of the boom raising motion of the boom.

6. JIB HOIST: Independent, 7-inch clutches for both raising and lowering. (Note: BOOMdrive is visible.)

7. DRUMS: Front and rear crane drum. A single set of front and rear drums is available. (Note: BOOMdrive is visible.)

8. DRUM BRAKES: Mechanically operated by foot pedal. Drum brakes are clamped directly to the drum and do not require long or separate drives of both brake drums applied to shafts in crane.

9. LOAD LOWERING CLUTCHES: (Optional) Complete independent front, rear and main. Power is handled by a 6-inch clutches for front and rear at lower. The drum is driven by a single driving drum and can be operated in any one of the crane.

10. THIRD DRUM: (Optional) Independent, 6-inch drum mounted in the front. (Note: DRUMdrive is visible.)

11. POWER PACKAGE FOR POWER HYDRAULIC CONTROLS: Uses high pressure, ball driven from engine, pump type engine driven and suitable tank. Normal system operating pressure: 000 to 1,500 psi.
**Lower Designed for Mobility and Extra Strength**

*Fast, Effortless Hydraulic Steering*

The LS-116 lower, including side frames, is self-levelling and stress-relieved to provide a durable lifting base. Lower frame is fine bored for mounting of the travel shaft. The steer, travel, and brake mechanism is enclosed within the cabody.

Eight hardened, conical hook rollers, mounted on anti-friction bearings, join the upper to the lower. Rollers, mounting brackets, and roller path are all heat treated for long, trouble-free service. The conical shape of these rollers matches the taper inside the top and bottom flanges of the roller path for smooth swing. Rollers are shim-adjusted for wear.

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**Exclusive Speed-o-Matic Power Hydraulic Control**

*Fast, Precise Response For All Functions*

The new LS-116 incorporates more features as standard equipment than any other machine in its class. What's more, it is designed specifically to meet the needs of the 60-ton crawler crane user... with more than satisfactory performance. And, how does it accomplish this? By including as standard equipment in every machine such features as diesel engine with torque converter; catwalks and railings along both sides of cab; hydraulic counterweight lowering; hydraulic, retractable rear gantry, removable or powered hydraulic retractable and extendible crawler side frames; independent boomstand with power boom raising and lowering clutches; boomcontrol limiting device; 30" wide track shoes, plus a lower 17" long and up to 15' 6" wide with power hydraulic steer-travel.

The standard lifting crane attachment includes a 3-piece, pin-connected, 40' Hi-Lift tubular boom complete with boom angle indicator, dual, lever-type boom stops, five boompoint sheaves, boom mast, and boom-mounted hoist rope supporting roller. The LS-116 upper design is Link-Belt Speeder's exclusive Full-Function, permitting independent or simultaneous operation of all machine functions. Also available are money-saving options such as independent 3rd drum, independent travel, load lowering clutches for either or both main rope drums, 2-speed gear-driven or 2-speed planetary-driven rope drums, and swing brake.

The fully independent boomstand features power hydraulic 2-shoe clutch control for both precision raising and lowering of the boom. Boomstand is gear driven. An automatic spring applied rope drum brake is power hydraulically released for boom raising and lowering. Also, a manually controlled drum locking pin holds the boom at fixed operating radius.

For superb control of all the machine functions, the LS-116 incorporates Link-Belt Speeder's famous Speed-o-Matic power hydraulic control system. Proven in use by over 14,000 crane-excavator users, this system is unaffected by day-to-day atmospheric variations and, does not require priming or bleeding. Oil under pressure from the bell-driven vane-type pump or from the pressure-accumulator storage tank does the work.

Short-throw levers in operator control console activate variable pressure valves from which oil under pressure is reared to each 2-shoe clutch for proper, positive response. Speed-o-Matic power hydraulics... the exclusive control system that permits the use of 2-shoe clutches for all machine functions.

The drum brakes are mechanically operated by foot pedals.