Technical Data
Specifications & **Angle** Boom Capacities

**LS-208H II**

Crawler Crane
80 Ton (72.57 metric ton)

CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator’s Manual to determine allowable crane lifting capacities and assembly and operating procedures.
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Specifications
Lattice Boom Crawler Crane
LS–208H II 80–ton (72.57 metric ton)
HYLAB Series

<table>
<thead>
<tr>
<th>General Dimensions</th>
<th>English</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tailswing of counterweight ‘A’</td>
<td>13’–3”</td>
<td>4.04m</td>
</tr>
<tr>
<td>Maximum live mast working height</td>
<td>30’–9”</td>
<td>9.4m</td>
</tr>
<tr>
<td>Boom foot pin diameter</td>
<td>3.5”</td>
<td>8.9cm</td>
</tr>
<tr>
<td>Distance between inside of boom foot lugs</td>
<td>27”</td>
<td>0.7m</td>
</tr>
</tbody>
</table>
LS–208H II Machine Transport Weights – approximate

Transport Weight
Rope on both drums, Backstops, Catwalks, and 1/3 tank of fuel
92,094 lbs. (41,773kg)

Upper & Carbody Shipping Weight
Rope on both drums, Backstops, Catwalks, and 1/3 tank of fuel
55,334 lbs. (25,099kg)

Tread Members w/ 36” (0.9m) Shoes
18,380 lbs. (8376kg)

20’ (6.1m) Top Section
Tube: 2,700 lbs. (7 225kg)
Angle: 3,195 lbs. (1 449kg)

20’ (6.1m) Base Section
Tube: 1,790 lbs. (812kg)
Angle: 2,853 lbs. (1 294kg)

"A" Upper Counterweight
19,600 lbs. (8 990kg)

"B" Upper Counterweight
20,100 lbs. (9 117kg)

Front Mounted Third Drum w/o Rope
1,345 lbs. (610kg)
### Machine Working Weight

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Gross Weight (lbs.)</th>
<th>Ground Bearing Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Base Machine equipped with 40' (12.2m) of tubular boom, live mast, “A” counterweight, 610' (186m) front hoist rope, 540' (164.6m) rear hoist rope, 80-ton (72.6m) hook block, 77 gallons (291.4L) of fuel, and 200 lbs. (90.7kg) operator.</td>
<td>117,291 (53 202)</td>
<td>7.48 (0.52)</td>
</tr>
<tr>
<td>2</td>
<td>Option #1 plus “B” counterweight, midpoint pendants, and 150’ (45.7m) of boom extensions to obtain 190’ (57.91m) of main boom.</td>
<td>145,355 (65 932)</td>
<td>9.26 (0.65)</td>
</tr>
<tr>
<td>3</td>
<td>Option #2 plus 60’ (18.3m) of jib and 15–ton (13.6m) hookball – subtract 20’ (6.1m) of boom extension and midpoint pendants to obtain maximum 170’ + 60’ (51.82 + 18.29m) of main boom + jib.</td>
<td>147,060 (66 705)</td>
<td>9.37 (0.66)</td>
</tr>
<tr>
<td>4</td>
<td>Base Machine equipped with 40’ (12.2m) of angle boom, live mast, “A” counterweight, 610’ (186m) front hoist rope, 540’ (165m) rear hoist rope, 80–ton (72.6m) hook block, 77 gallons (291.4L) of fuel, and 200 lbs. (90.7kg) operator.</td>
<td>118,849 (53 909)</td>
<td>7.58 (0.53)</td>
</tr>
<tr>
<td>5</td>
<td>Option #4 plus “B” counterweight and 110’ (33.5m) of boom extensions to obtain 150’ (45.7m) of main boom.</td>
<td>147,719 (67 004)</td>
<td>9.42 (0.66)</td>
</tr>
<tr>
<td>6</td>
<td>Option #5 plus 60’ (18.3m) of jib and 15–ton (13.6m) hookball to obtain maximum 150’ + 60’ (45.7 + 18.3m) of main boom + jib.</td>
<td>150,787 (68 396)</td>
<td>9.61 (0.67)</td>
</tr>
</tbody>
</table>

**Notes:**
1. Ground bearing pressure is based on the total weight distributed evenly over the track contact area.
2. Total contact area for 36” (0.91m) track shoes is 15,689 in² (101,219cm²).
Attachment Options

■ **40’ – 190’ (12.2 – 57.9m) Tube Boom**

Basic Tube Boom – 40’ (12.2m) two-piece design that utilizes a 20’ (6.1m) base section and a 20’ (6.1m) open throat top section with in-line connecting pins on 54” (1.4m) wide and 44” (1.1m) deep centers.

- Boom feet on 50” (1.3m) centers
- 3” (76.2mm) diameter chords
- Lugs on base section to attach carrying links
- Skywalk platform
- Deflector roller on top section
- Permanent skid pads mounted on top section to protect head machinery
- Rigid sheave guards
- Five 18” (0.5m) root diameter steel sheaves mounted on sealed anti-friction bearings.
- Mechanical boom angle indicator

Optional – Handling system that mounts in the boom base to allow loading/unloading of a counterweight or a boom section onto transport trailers.

Tube Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10’ (3.05m) increments. Midpoint pendant connections are required at 80’ (24.4m) for the 190’ (57.9 m) boom length.

<table>
<thead>
<tr>
<th>Tube Boom Extensions</th>
<th>Suggested Quantity for Max. Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>10’ (3.05m)</td>
<td>1</td>
</tr>
<tr>
<td>20’ (6.10m)</td>
<td>1</td>
</tr>
<tr>
<td>30’ (9.14m)</td>
<td>4</td>
</tr>
</tbody>
</table>

- Deflector roller on top of each section
- Appropriate length pendants
- Maximum tube boom tip height of 193’ (58.8m)

■ **40’ – 150’ (12.2 – 45.7m) Angle Boom**

Basic Angle Boom – 40’ (12.2m) two-piece design that utilizes a 20’ (6.1m) base section and a 20’ (6.1m) open throat top section with in-line connecting pins. Boom extensions are 48” (1.2m) wide and 48” (1.2m) deep at outside dimensions of angles.

- Boom feet on 50” (1.3m) centers
- 4” X 4” X 0.38” (101.6 x 101.6 x 9.5mm) angle chords
- Lugs on base section to attach carrying links
- Skywalk platform
- Deflector roller on top section
- Permanent skid pads mounted on top section to protect head machinery
- Rigid sheave guards
- Four 18” (0.5m) root diameter steel sheaves mounted on sealed anti-friction bearings.
- Mechanical boom angle indicator

Angle Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10’ (3.05m) increments. Midpoint pendant connections are not required.

<table>
<thead>
<tr>
<th>Angle Boom Extensions</th>
<th>Suggested Quantity for Max. Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>10’ (3.05m)</td>
<td>1</td>
</tr>
<tr>
<td>20’ (6.10m)</td>
<td>2</td>
</tr>
<tr>
<td>30’ (9.14m)</td>
<td>4</td>
</tr>
</tbody>
</table>

- Deflector roller on top of each section
- Appropriate length pendants
- Maximum angle boom tip height of 154’ (46.9m)

■ **30’ – 60’ (9.1 – 18.3m) Tube Jib**

Basic Tube Jib – 30’ (9.14m) two-piece design that utilizes a 15’ (4.6m) base section and a 15’ (4.6m) top section with in-line connecting pins on 32” (0.8m) wide and 24” (0.6m) deep centers.

- 2” (50.8mm) diameter tubular chords
- One 18.5” (0.46m) root diameter steel sheave mounted on sealed anti-friction bearings.
- 15’ (4.6m) jib extensions provide jib lengths at 45’ (13.76m) and 60’ (18.3m)
- Jib offset angles at 5, 15 and 25 degrees
- Maximum tip height of boom + jib is 233’ (71.02m) using the tube boom and 214’ (65.23m) using the angle boom.

■ **Auxiliary 5’ (1.5m) Tip Extension**

Designed to use instead of a jib to provide clearance between working hoist lines. The extension is equipped with a single 15.25” (0.4m) root diameter steel sheave mounted on sealed anti-friction bearings. Maximum capacity is 9-ton (8.2mt).

■ **Boom Hoist System**

Designed to lift off maximum boom or maximum boom plus jib unassisted. Operates up to a maximum boom angle of 82 degrees. Automatically limits maximum boom angle operation.

- Retractable gantry frame
- Pin-on bail frame
- 14-part reeving with 5/8’ (14.7mm) type ‘AC’ wire rope
- Bridle assembly
- 24’ (7.3m) live mast (optional for angle attachment)
- Two 1.25” (31.8mm) pendants
- Tubular boom backstops (rigid type)
- Sheaves contain sealed anti-friction bearings
- Boom speed from 10°–70° is 52 seconds with no load and 94 seconds with full load. Speed was determined using 100’ (30.5m) of tube boom
Revolving Upperstructure

■ Frame
All welded steel frame with precision machined surfaces for mating parts.

■ Engine

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Bore and stroke – in (mm)</td>
<td>5.12 x 5.91 (130 x 150)</td>
</tr>
<tr>
<td>Piston displacement – in³ (cm³)</td>
<td>729 (11945)</td>
</tr>
<tr>
<td>Engine rpm at full load speed</td>
<td>2000</td>
</tr>
<tr>
<td>Hi–idle rpm</td>
<td>2200</td>
</tr>
<tr>
<td>Full load speed – horsepower (kw)</td>
<td>263 (196)</td>
</tr>
<tr>
<td>Peak torque – ft lb (joule)</td>
<td>746 (1011)</td>
</tr>
<tr>
<td>Peak torque – rpm</td>
<td>1400</td>
</tr>
<tr>
<td>Electrical system</td>
<td>24 volt</td>
</tr>
<tr>
<td>Batteries</td>
<td>2–12 volt</td>
</tr>
</tbody>
</table>

■ Hydraulic System Specifications

**Hydraulic Pumps** – The pump arrangement is designed to provide hydraulically powered functions allowing positive, precise control with independent or simultaneous operation of all crane functions.
- Two variable displacement pumps operating at 4,000 psi (281kg/cm²) and 64 gal/min (243L/min) powers load hoist drums, boom hoist drum, optional third drum, and travel.
- One fixed displacement gear type pump operating at 3,600 psi (250kg/cm²) and 31 gal/min (117L/min) powers the swing and treadermember retract cylinders.
- One fixed displacement gear type pump operating at 3,000 psi (210kg/cm²) and 35 gal/min (130L/min) powers the swing motor.
- One fixed displacement gear type pump operating at 1,200 psi (84.4kg/cm²) and 10.5 gal/min (39.7L/min) powers the pilot control system, clutches, brakes and pump controls.

**Pump Control (“Fine Inching”) mode** – Special pump setting, selectable from operator’s cab, that allows very slow movements of load hoist drums, boom hoist drum, and travel for precision work.

**Hydraulic Reservoir** – 79 gal (300L), equipped with sight level gauge. Diffusers built in for deaeration.

**Filtration** – One 10 micron, full flow, line filter in the control circuit. All oil is filtered prior to entering the reservoir.

**Counterbalance Valves** – All hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop if the hydraulic pressure is suddenly lost.

■ Load Hoist Drums
Each drum contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.
- Power up/down & free–fall operation modes
- Automatic brake mode (spring applied, hydraulically released, band type brake)
  - 1” (25.4mm) grooved lagging
  - Drum pawl controlled manually
  - Electronic drum rotation indicators
  - Mounted on anti–friction bearings
  - 18.70” (0.47m) root diameter
  - 33.86” (0.86m) flange diameter
  - 20.47” (0.52m) width

**Note:** The freefall operational mode is designed to prevent load lowering even if the freefall switch is accidentally activated. The automatic brake mode meets all OSHA requirements for personnel handling.

**Drum Clutches** – Speed—o—Matic™ power hydraulic two shoe clutch design that uses a 26” (0.66m) diameter X 5” (127mm) wide shoe that internally expands to provide load control. Swept area is 408 in² (2 632cm²).

■ Optional Front Mounted Third Hoist Drum
The hydraulic winch is pinned to the front of the upper frame and is used in conjunction with a fleeting sheave and 3–sheave idler assembly to run the wire rope over the boom top section.
- Free–spooling capability for pile driving applications
  - 10.63” (0.27m) root diameter
  - 20” (0.51m) flange diameter
  - 13.5” (0.34m) width
- Mounted on anti–friction bearings

■ Boom Hoist Drum
Contains a pilot controlled, bi–directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.
- Spring applied, hydraulically released, disc type brake controlled automatically
  - 5/8” (15.88mm) grooved lagging
  - Drum pawl controlled manually
  - Mounted on anti–friction bearings
  - 10.71” (0.27m) root diameter
  - 23.62” (0.60m) flange diameter
  - 10.23” (0.26m) width

■ Swing System
Mechanical linkage controls the dual bi–directional axial piston motors and the planetary gear reduction unit to provide positive control under all load conditions.
- Spring applied, hydraulically released, 360 degree multi–plate brake
- Free swing mode when lever is in neutral position
- Two position positive house lock
- Audio/Visual swing alarm
- Maximum swing speed is 3 rpm

■ Upper Counterweight
Consist of a two piece design that can be easily lowered to the ground using the gantry.
- 19,600 lbs. (8 890kg) “A” upper counterweight
- 20,100 lbs. (9 117kg) “B” upper counterweight can be added to maximize capacities

■ Operator’s Cab and Controls
Fully enclosed modular steel compartment is independently mounted and insulated to protect against vibration and noise.
- All tinted/tempered safety glass
- Sliding entry door and front window
- Swing up roof window with wiper
- Door and window locks
- Heater with circulating fan
- Air conditioner
- Sun visor
- Engine instrumentation panel (tachometer, voltmeter, engine oil pressure, engine water temperature, fuel level, hydraulic oil temperature, and service monitor system)
- Electronic drum rotation indicators
- Six way adjustable seat with seat belt
- Dry chemical fire extinguisher
- Hand and foot throttle
- Fully adjustable single axis control levers
- Swing lever with swing brake and horn located on handle
- Bubble type level

(continued on page 7)
### LS–208H II Load Hoisting Performance

Available line speed and line pull – based on Mitsubishi 6D24–TEB at 2,000 rpm full load speed. Line pulls are not based on wire rope strength. See Wire Rope Capacity Chart for maximum permissible single part of line working loads.

#### Front or Rear Drum – 1" (25.4 mm) Wire Rope

<table>
<thead>
<tr>
<th>Rope Layer</th>
<th>Maximum Line Pull</th>
<th>No Load Line Speed</th>
<th>Full Load Line Speed</th>
<th>Pitch Diameter</th>
<th>Layer</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb</td>
<td>kg</td>
<td>ft/min</td>
<td>m/min</td>
<td>ft/min</td>
<td>m/min</td>
</tr>
<tr>
<td>1</td>
<td>43,394</td>
<td>19,683</td>
<td>184</td>
<td>56</td>
<td>92</td>
<td>28</td>
</tr>
<tr>
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<td>39,395</td>
<td>17,669</td>
<td>203</td>
<td>62</td>
<td>101</td>
<td>31</td>
</tr>
<tr>
<td>3</td>
<td>36,070</td>
<td>16,361</td>
<td>221</td>
<td>67</td>
<td>111</td>
<td>34</td>
</tr>
<tr>
<td>4</td>
<td>33,263</td>
<td>15,088</td>
<td>240</td>
<td>73</td>
<td>120</td>
<td>36</td>
</tr>
<tr>
<td>5</td>
<td>30,862</td>
<td>13,999</td>
<td>259</td>
<td>79</td>
<td>129</td>
<td>39</td>
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<tr>
<td>6</td>
<td>28,784</td>
<td>13,056</td>
<td>277</td>
<td>84</td>
<td>138</td>
<td>42</td>
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<tr>
<td>7</td>
<td>26,968</td>
<td>12,232</td>
<td>296</td>
<td>90</td>
<td>148</td>
<td>45</td>
</tr>
</tbody>
</table>

#### Boom Hoist Drum – 5/8" (15.9mm) Wire Rope

<table>
<thead>
<tr>
<th>Rope Layer</th>
<th>Maximum Line Pull</th>
<th>No Load Line Speed</th>
<th>Full Load Line Speed</th>
<th>Pitch Diameter</th>
<th>Layer</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb</td>
<td>kg</td>
<td>ft/min</td>
<td>m/min</td>
<td>ft/min</td>
<td>m/min</td>
</tr>
<tr>
<td>1</td>
<td>18,623</td>
<td>8,447</td>
<td>209</td>
<td>63.8</td>
<td>108</td>
<td>33.0</td>
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<tr>
<td>2</td>
<td>16,761</td>
<td>7,603</td>
<td>233</td>
<td>70.9</td>
<td>120</td>
<td>36.3</td>
</tr>
<tr>
<td>3</td>
<td>15,237</td>
<td>6,912</td>
<td>256</td>
<td>78.0</td>
<td>132</td>
<td>40.3</td>
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<tr>
<td>4</td>
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<td>6,336</td>
<td>279</td>
<td>85.1</td>
<td>144</td>
<td>44.0</td>
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<td>5,848</td>
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<td>92.2</td>
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<td>47.6</td>
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<tr>
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<td>5,430</td>
<td>326</td>
<td>99.3</td>
<td>168</td>
<td>51.3</td>
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<tr>
<td>7</td>
<td>11,174</td>
<td>5,068</td>
<td>349</td>
<td>106.4</td>
<td>180</td>
<td>55.0</td>
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<tr>
<td>8</td>
<td>10,476</td>
<td>4,752</td>
<td>372</td>
<td>113.5</td>
<td>192</td>
<td>58.6</td>
</tr>
</tbody>
</table>

#### Front Mounted Third Drum – 5/8" (15.9mm) Wire Rope

<table>
<thead>
<tr>
<th>Rope Layer</th>
<th>Maximum Line Pull</th>
<th>No Load Line Speed</th>
<th>Full Load Line Speed</th>
<th>Pitch Diameter</th>
<th>Layer</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>lb</td>
<td>kg</td>
<td>ft/min</td>
<td>m/min</td>
<td>ft/min</td>
<td>m/min</td>
</tr>
<tr>
<td>1</td>
<td>15,041</td>
<td>6,822</td>
<td>157</td>
<td>48</td>
<td>143</td>
<td>44</td>
</tr>
<tr>
<td>2</td>
<td>13,537</td>
<td>6,140</td>
<td>175</td>
<td>53</td>
<td>159</td>
<td>48</td>
</tr>
<tr>
<td>3</td>
<td>12,307</td>
<td>5,582</td>
<td>192</td>
<td>59</td>
<td>175</td>
<td>53</td>
</tr>
<tr>
<td>4</td>
<td>11,282</td>
<td>5,117</td>
<td>210</td>
<td>64</td>
<td>191</td>
<td>58</td>
</tr>
<tr>
<td>5</td>
<td>10,414</td>
<td>4,724</td>
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<td>69</td>
<td>207</td>
<td>63</td>
</tr>
<tr>
<td>6</td>
<td>9,671</td>
<td>4,387</td>
<td>245</td>
<td>75</td>
<td>223</td>
<td>68</td>
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#### Wire Rope Application

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
<th>Type</th>
<th>Maximum Permissible Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
<td>ft</td>
<td>m</td>
</tr>
<tr>
<td>Boom Hoist</td>
<td>5/8</td>
<td>15.9</td>
<td>610</td>
</tr>
<tr>
<td>Front Hoist</td>
<td>1</td>
<td>25.4</td>
<td>620</td>
</tr>
<tr>
<td>Rear Hoist (Optional)</td>
<td>1</td>
<td>25.4</td>
<td>540</td>
</tr>
<tr>
<td>Rear Hoist (Optional)</td>
<td>1</td>
<td>25.4</td>
<td>540</td>
</tr>
<tr>
<td>Third Drum (Optional)</td>
<td>5/8</td>
<td>15.9</td>
<td>385</td>
</tr>
<tr>
<td>Third Drum (Optional)</td>
<td>5/8</td>
<td>15.9</td>
<td>385</td>
</tr>
</tbody>
</table>

#### Rope Type

- **RB**: 19 x 19 Rotation Resistant – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – Swaged – SF=5.1
- **ZB**: 36 x 7 – Non-rotating – Extra Improved Plow Steel – Right Lay – Regular Lay – S.F.=5.1
- **WB**: 8 Strand – Regular Lay
- **AC**: 9 x 40 Strand, Post Formed, Swaged–Constructex – Crush Resistant

* Use of swivel ball is not recommended.
Revolving Upperstructure  (continued from page 5)

■ Load Indicator/ Rated Capacity Limiter

Standard Equipment – PAT EI–65 load indicator provides two lineriders, angle sensor, computer, display, and anti–two block equipment to provide the following information.
- Boom length & angle
- Jib length & angle
- Load on hook
- Load radius
- Tip height
- Anti–two block warning & function limiters
- Operation mode
- Operator settable alarms provide audio/visual warning

Optional Equipment – PAT DS–350 rated capacity limiter provides all the same equipment and features of the standard EI–65 in conjunction with the following features.
- Provides an audio/visual warning when the load on hook is within 90% of the cranes rated load.
- Provides an audio/visual warning and limits functions when the load on hook is at 100% of the cranes rated load.

Note: The DS–350 function limiters are activated for anti–two block and overload conditions. These limiters are designed to prevent hoist up on front and rear drums and boom down.

■ Additional Equipment – Standard
- 57.9” (1.5m) outside diameter turntable bearing
- Front, right, & left side removable catwalks
- 77 gal (291.5L) fuel tank (usable quantity)
- Machine lifting links

■ Additional Equipment – Optional
- Rud–o–matic® model 1248 tagline winder for angle boom (double barrel, spring wound, drum type)
- Rud–o–matic® model 648 tagline winder for tube boom
- Full revolving type Fairleader with barrel, sheaves, and guide rollers

Lower Structure

■ Lower Frame

All welded box construction frame with precision–mached surfaces for turntable bearing and rotating joint.
- 8'–10.7” (2.7m) overall width
- 11'–11” (3.6m) overall length

■ Treadmembers

All welded, precision–machined, steel frames can be hydraulically extended and retracted by a hydraulic cylinder mounted in the lower frame.
- 14' (4.3m) extended gauge
- 8'–11” (2.7m) retracted gauge
- 20'–2” (6.2m) overall length
- 36” (0.9m) wide track shoes
- 11 sealed (oil filled) track rollers per treadmember
- Sealed (oil filled) idler and drive sprockets
- Compact travel drives
- Hydraulic self adjusting tracks

Travel and Steering – Each treadmember contains a pilot controlled, bi–directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

■ Additional Equipment

- Individual control provides smooth, precise maneuverability including full counter–rotation
- Spring applied, hydraulically released disc type brake controlled automatically
- Maximum travel speed is 1.0 mph (1.6km/h) in high speed and 0.6 mph (1km/h) in low speed
- Designed to 30% gradeability
The capacity portion of the Technical Data booklet has been removed from this file.

Please contact your distributor for a copy of the capacities.