Optional Equipment

Vacuum protection kit including window covers
Intake air pre-cleaner
Exhaust spark arrestor
Shovel light
Block heater
Auxiliary hydraulics - Additional foiling and piping for hydraulic powered attachments.

Maximum pressure 4800 psi (33,095 kPa) Maximum flow 15 GPM (57 L/min)

Attachments

Quick change and reversible buckets fabricated of steel plate, with high strength low alloy cutting edges and wear strips. Standard attachments available for wide range of applications. Capacities shown are in heaped cu. yd.

8045-6020 24” (610mm) Excavating bucket
8045-6021 30” (762mm) Excavating bucket
8045-6022 36” (914mm) Excavating bucket
8045-6023 42” (1072mm) Excavating bucket
8045-6024 48” (1219mm) Excavating bucket

Vandalism protection kit including

Maximum flow 15 GPM (57 L/min)


It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

GRADALL

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Certified ISO 9001

Form No. 10819 7/08 Printed in USA
Crawler Drive

Dual range, high torque piston motor powers each track. Three-stage planetary drive with integral speed limiting valve and automatic spring-set/hydraulic release wet disc parking brake.

Travel Speed: on flat, level surface:
- High Speed: 3.4 mph (5.5 km/h)
- Low Speed: 1.9 mph (3.1 km/h)

Automatic two-speed control shifts crawler drive into low speed under difficult travel conditions. Manual override switch for loading the machine for transport.

Gradesability: 58%, limited by engine lubrication requirements

**Individual Track Control**
Tracks counter-rotate to pivot machine about the swing centerline. Electronically operated travel alarm signals crawler movement in either direction.

**Function Forces**

**Rated Boom Force:** 24041 lb (111 kN)

**Rated Bucket Breakout Force:** 25605 lb (113 kN)

**Weight**

Approximate working weight with 36' (10.9m) excavating bucket, fuel tank half full and no operator.

<table>
<thead>
<tr>
<th>Size</th>
<th>Weights</th>
<th>Weighing Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.5'</td>
<td>54,542 lb (24499 kg)</td>
<td>66 psi (455 kPa)</td>
</tr>
<tr>
<td>23.6'</td>
<td>53,336 lb (24176 kg)</td>
<td>66 psi (455 kPa)</td>
</tr>
</tbody>
</table>

**Notes:**

- Drawbar Pull 38324 lb (170 kN)

**Gradable Model XL 5200 III Lift Capacity - lb. (kg)**

<table>
<thead>
<tr>
<th>Load Point</th>
<th>Load Radius</th>
<th>Maximum Lift Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over</td>
<td>Over End</td>
<td>Over Side</td>
</tr>
<tr>
<td>15' (4.6m)</td>
<td>30345</td>
<td>29435</td>
</tr>
<tr>
<td>10' (3.0m)</td>
<td>26065</td>
<td>25255</td>
</tr>
</tbody>
</table>

**NOTE:** The above loads are in compliance with the SAE standard J1097 DEC2005. They do not exceed 87% of hydraulic lifting capacity on 79% of tipping capacity.

- Loads shown in shaded areas indicate the load is limited by tipping rather than hydraulic lifting capacity.

- The rated lift capacity is based on the machine being equipped with 15,500 lb (7030 kg) counterweight, standard boom, standard tires, no auxiliary hydraulics, and no bucket.

- Adjust the listed rated capacities by subtracting the value listed for bucket/attachment used.

- The load point is located on the bucket pivot point, including loads listed for maximum radius.

- Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

- **ATTENTION:** All rated loads are based on the machine being stationary and level on a firm supporting surface. The user must make allowance for particular job conditions such as soft or uneven ground, out of level conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must read and understand the operator manual before operating this machine. Rules for safe operation of equipment must be adhered to at all times.

**Dimensions**

- A Overall length with bucket open: 28'11" (8.8)
- B Overall length without bucket: 23'8" (7.2)
- C Overall height with bucket: 10'9" (3.3)
- D Bucket height without bucket: 10'2" (3.1)
- E Width of upperstructure: 8'6" (2.6)
- F Minimum clearance, upperstructure to undercarriage: 9'10" (3.0)
- G Minimum clearance, upperstructure to groundline: 9'10" (3.0)
- H Nominal distance between centerlines of drive sprockets: 3265 (10.5)
- J1 Axis of rotation to centerline of drive sprockets: 511° (1.7)
- J2 Nominal distance between centerlines of drive sprockets and idles: 110° (3.4)
- J3 Axis of rotation to end of track assembly: 67° (2.0)
- J4 Nominal overall length of track assembly: 153° (4.2)
- K Width of crawler (standard): 106° (3.2)
- L Weight of crawler (optional): 910° (3.0)
- M Minimum radius of bucket teeth at maximum bucket pivot height: 11'5" (3.5)
- N Minimum clearance, upperstructure to groundline: 8'6" (2.6)
- O Track gage, roller centerline to roller centerline: 730° (2.4)
- P Width of crawler track assembly (standard): 315° (800 mm)
- Q Width of crawler track assembly (optional): 316° (800 mm)
- R Maximum radius at groundline: 313° (10.3)
- S Maximum digging depth: 254° (7.7)
- T Maximum depth for 8' level cut: 237° (7.2)
- U Minimum radius at groundline: 114° (3.3)
- V Boom pivot point at groundline: 9° (1.9)
- W Boom pivot point at lift: 11° (1.9)
- X Minimum radius of bucket teeth at maximum pivot height: 228° (6.9)

- Metric units are meters (m) unless noted.

- AV Minimum telescoping boom length Boom pivot to bucket pivot: 54° (1.5)
- AW Telescoping boom travel: 140° (4.3)
- AX Bucket tilt angle (both sides of center): 110°
- BB Maximum radius of working equipment: 345° (10.5)
- BC Maximum height of working equipment 257" (7.7)
- BD Maximum bucket tooth height: 237° (7.1)
- BE Minimum clearance of bucket tooth with bucket pivot at maximum height: 1711° (5.3)
- BF Minimum clearance of fully cycled bucket at maximum boom height: 119° (3.5)
- BG Minimum height of working equipment with bucket below groundline: 140° (4.3)
- BH Radius of bucket tooth at maximum height: 293° (9.3)
- BJ Minimum radius of bucket tooth at maximum pivot height: 228° (6.9)
Crawler Drive

Dual range, high torque piston motor powers each track. Three-stage planetary drive with integral speed limiting valve and automatic spring-set/hydraulic release wet disc parking brake.

Travel Speed: on flat, level surface
High Speed: 3.4 mph (5.5 km/h)
Low Speed: 1.9 mph (3.1 km/h)
Automatic two-speed control shifts crawler drive into low speed under difficult travel conditions. Manual override switch for loading the machine for transport.

Gradesability: 58%, limited by engine lubrication requirements

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Individual Track Control

Tracks counter-rotate to pivot machine about the swing centerline. Electronically-operated travel alarm signals crawler movement in either direction.

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Function Forces

| Rated Boom Force: | 24,041 lb (111 kN) |
| Rated Bucket Breakout Force: | 25,605 lb (113 kN) |

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Weight

Approximate working weight with 36'' (914mm) excavating bucket, fuel tank half full and no operator.

<table>
<thead>
<tr>
<th>Pin Size</th>
<th>Weights</th>
<th>Bourdon Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.5''</td>
<td>3800mm</td>
<td>54,452 lb (24699 kg)</td>
</tr>
<tr>
<td>23.6''</td>
<td>6000mm</td>
<td>53,336 lb (24179 kg)</td>
</tr>
</tbody>
</table>

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GRADALL Model XL 5200 III Lift Capacity - lb. (kg)

<table>
<thead>
<tr>
<th>LOAD POINT HEIGHT</th>
<th>LOAD RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10' (3.0m)</td>
<td>3575 (16.25)</td>
</tr>
<tr>
<td>15' (4.6m)</td>
<td>5512 (24.88)</td>
</tr>
<tr>
<td>20' (6.1m)</td>
<td>5575 (24.80)</td>
</tr>
<tr>
<td>25' (7.6m)</td>
<td>5575 (24.80)</td>
</tr>
</tbody>
</table>

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NOTE: The above loads are in compliance with the SAE standard J1097 DEC2005. They do not exceed 87% of hydraulic lifting capacity or 79% of tipping capacity.

Loads shown in shaded areas indicate the load is limited by tipping rather than hydraulic lifting.

The rated lift capacity is based on the machine being equipped with 15,500 lb (7,030 kg) counterweight, standard boom, standard tires, no auxiliary hydraulics, and no bucket.

Adjust the listed rated capacities by subtracting the value listed for bucket/attachment used.

- 8045-6007 60'' (1.5 m) Ditching - 807 lb (366 kg)
- 8045-6006 66'' (1.7 m) Ditching - 1148 lbs (521 kg)
- 8045-6002 24'' (610 mm) Excavating - 660 lbs (300 kg)
- 8045-6020 30'' (762 mm) Excavating - 711 lbs (323 kg)
- 8045-6022 36'' (914 mm) Excavating - 741 lbs (335 kg)
- 8045-6023 42'' (1.1 m) Excavating - 841 lbs (382 kg)
- 8045-6117 48'' (1.2 m) Excavating - 959 lbs (435 kg)
- 8045-6013 72'' (1.8 m) Dredging - 1114 lbs (505 kg)
- 8065-6102 40'' (1.0 m) Excavating - 1292 lbs (583 kg)
- 8065-6024 8'' (2.4 m) Single Tooth Ripper - 630 lbs (286 kg)
- 8065-6009

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GLASS, Model XL 5200 III Lift Capacity - lb. (kg)

<table>
<thead>
<tr>
<th>LOAD POINT HEIGHT</th>
<th>LOAD RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10' (3.0m)</td>
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<td>20' (6.1m)</td>
<td>5575 (24.80)</td>
</tr>
<tr>
<td>25' (7.6m)</td>
<td>5575 (24.80)</td>
</tr>
</tbody>
</table>

---

NOTE: Bucket adjustment values are 87% of the actual bucket weights.

The load point is located on the bucket pivot point, including loads listed for maximum radius.

Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

ATTENTION: All rated loads are based on the machine being stationary and level on a firm supporting surface. The user must make allowance for particular job conditions such as soft or uneven ground, out of level conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must read and understand the operator manual before operating this machine. Rules for safe operation of equipment must be adhered to at all times.

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Dimensions

- A Overall length with boom open: 28'11'' (8.8)
- B Overall length without boom: 26'8'' (8.1)
- C Overall height with boom up: 10'9'' (3.3)
- D Overall height without boom: 10'2'' (3.1)
- E Weight of upperstructure: 8'6'' (2.6)
- F Minimum clearance, upperstructure to undercarriage: 9'0'' (2.7m)
- G Swing clearance, rear of upperstructure: 8'6'' (2.6)
- H Top of cab to groundline: 9'10'' (3.0)
- I Clearance, upperstructure to groundline: 23' (7)
- J1 Axis of rotation to centerline of drive spindles: 9'1'' (2.7)
- J2 Nominal distance between centerlines of drive spindles and idles: 11'0'' (3.4)
- J3 Axis of rotation to end of track assembly: 6'10'' (2.1)
- J4 Nominal overall length of track assembly: 13'8'' (4.2)
- K Width of crawler (standard): 10'6'' (3.2)
- L Width of crawler (optional): 9'10'' (3.0)
- M Ground clearance (per SAE J1314): 18' 644 mm
- N Track gauge, roller centerline to roller centerline: 7'10'' (2.4)
- O Weight of track assembly (standard): 31.5'' (800mm)
- P Weight of track assembly (optional): 23.6'' (600mm)
- Q Maximum radius at groundline: 33'11'' (10.3)
- R Maximum digging depth: 26'4'' (7.7)
- S Minimum deviation of vertical wall which can be excavated: 5'6'' (1.7)
- T Minimum level cut radius with bucket flat on groundline: 17'4'' (5.3)
- U Minimum radius of bucket teeth at maximum boom height: 11'9'' (3.6)
- V Minimum clearance of bucket teeth at maximum boom height: 10'11'' (3.3)
- W Maximum height of working equipment with bucket below groundline: 14'0'' (4.3)
- X Radius of bucket teeth at maximum height: 29''3'' (74)
- Y Minimum radius of bucket teeth at maximum bucket height: 22''6'' (5.8)

Metric units are meters (m) unless noted.
Optional Equipment
Vandalism protection kit including window covers.
Intake air pre-cleaner.
Exhaust spark anemotor.
Strobe light.
Block heater.
Auxiliary hydraulics - Additional hoisting and piping for hydraulic powered attachments. [Maximum pressure 4800 psi (33,095 kPa) Maximum flow 30 GPM (114 L/min).

Attachments
Quick change and reversible buckets fabricated of steel plate, with high strength, low alloy cutting edges and wear strips. Standard attachments available for wide range of applications. Capacities shown are in heaped cu. yd.

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Certified ISO 9001

PRELIMINARY

GRADALL
XL 5200 III
HYDRAULIC EXCAVATOR

FORM NO. 10819 7/08

0845-6020 24" (610mm) Excavating bucket
0845-6021 30" (762mm) Excavating bucket
0845-6022 36" (914mm) Excavating bucket
0845-6023 42" (1072mm) Excavating bucket
0845-6024 48" (1219mm) Excavating bucket
0845-6019 72" (1830mm) Dredging bucket
8055-6001 15" (381mm) Trenching bucket
8065-6010 21" (533mm) Trenching bucket
8065-6011 24" (610mm) Ditching bucket
8065-6012 28" (711mm) Ditching bucket
8065-6013 36" (914mm) Dredging bucket
8055-5001 (8055-5002) Telestick attachment
8065-6028 4' (1.2m) Boom extension
8065-6029 4'-1/2" (1.3m) Boom extension
8065-6030 5' (1.5m) Boom extension
8065-6031 5'-1/2" (1.6m) Boom extension

Intake air pre-cleaner.

HYDRAULIC EXCAVATOR

Four cylinders, inline 4-cylinder, liquid cooled, electronic controlled. Vertical cam style cylinder head. Cylinder head is equipped with electronic fuel/water separator. Genset Rating: 130 HP @ 2000 RPM (193kW) 498 ft-lb (675Nm) Net Rating: 153 HP @ 2000 RPM (184kW)

Variable vesus fan clutch system. Vertical stacked hyd oil cooler, charge air cooler and radiator.

Maximum slope: 30°

12 volt starter, 100 amp alternator, two SAE J306 S 1000 CCA batteries, two-stage dry type air filter, centrifugal air cleaner and centrifugal pre-cleaner and safety element. Exhauster and service indicator.

Fuel tank capacity: 99 gallons (375 L)

Oil Capacity
Reservoir system 65 gallons (246 L).
Pressurized reservoir with visual oil level gauges.

Filtration System
10 micron rection filter, 10 micron pilot filter.
Fin and tube-type oil cooler with thermal bypass and relief valves.

Pressure-compensated, load-sensing valves with circuit relief in all cylinders.

Upperstructure Engine

Swing, 68hp (51 kW); tilt, 21 hp (16 kW), 2 propel motors, 120 hp (89 kW) each.
Operating pressures:

Swing 4,500 psi (310BAR)
Tilt 4,500 psi (310BAR)
Propel 4,900 psi (33 1B AR)

PUMPS
One load-sensing, axial piston pump, oil flow 0-110 GPM (0-435 L/min)

SYSTEM MONITOR
Electronic monitor in cab indicates low hydraulic fluid level, high hydraulic fluid temperature, system working pressure, system pilot pressure.

SYSTEM SPECIFICATIONS
Four cylinders:

• 1 tool 5.0” ID, 32” rod (127 mm x 76 mm), 250 HP (185kW) stroke.
• 2 tool 4.75” ID, 32” rod (121 mm x 85 mm), 310 HP (231 kW) stroke.
• 1 telescopic 3.75” ID, 27” rod (95 mm x 70 mm), 14 HP (10.4kW) stroke.

Four hydraulic motors
Swing, 68hp (51 kW); tilt, 21 hp (16 kW), 2 propel motors, 120 hp (89 kW) each.

Controls
Two electronic joysticks (hoist and bucket, telescope and swing), one rocker switch (tilt) control upperstructure. Joysticks mounted on arm pods, independently adjustable for individual operator comfort and convenience.

Quick change joystick pattern switch located on instrument panel. Joysticks are self-centering; when controls are released, power for movement disengages and swing and tilt brake set automatically.

Two electric foot pedals (left handlebar) control crawler travel speed and direction, crawler steering, and crawler brakes. Toggle switch on arm pod allows selection of two crawler speed ranges.

Engine Controls and Instrumentation
Key operated ignition/starter switch, throttle, air cleaner condition indicator and main battery disconnect switch. Electronic monitor indicates fuel level, low battery charge, tube oil pressure, high coolant temperature, engine rpm, and engine hours. Fuel saving feature sends engine rpm to idle when control circuits are in neutral for seven seconds.

Swing
Priority swing circuit with axial piston motor. Flawless transmission.
Swing speed: 70 rpm

Swing Brake
Automatic spring-set/hydraulic release wet disc parking brake. Dynamic braking is provided by the hydraulic system.