

YARD CRANE

NOTES

1. Rated lifting capacities, with or without outriggers, are the maximum loads covered by the manufacturer's warranty with the machine standing on a firm, level and uniform supporting surface. Capacities do not exceed 85% of tipping.
2. For certain conditions, capacities are controlled by machinery strength. In these cases, machine tipping must not be relied upon as the capacity limitation.
3. For clamshell and magnet operation, weight of bucket and load should not exceed 90% of lifting capacities.
4. The weights of all load-handling devices are considered part of the load lifted and suitable allowances for them should be made.

* * 6. Rear axle lockouts must be set to maintain published capacities.



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GROVE *Hydraulic* CRANES

SPECIFICATIONS Model 1012D – YARD CRANE

SUPERSTRUCTURE

BOOM — Full power telescope

19-43', 3-section, 24' telescope, with boom-mounted hoist winch.

BOOM ELEVATION — 0° through 70°; independent control; TWIN double-acting hydraulic cylinders.

HOIST WINCH (MAIN) — Boom mounted, model 40SECR; power up and down; hydraulic motor driven planetary gear with integral automatic brake; drum - 9" diameter; drum capacity - 300' (½"); single line pull - 8000# maximum; single line speed (no load) - 175 fpm maximum.

CABLE — ½" x 200'; no hook block; **BOOM HEAD** - three sheave

SWING — 140° rotation; ball-bearing swing circle, actuated by TWIN hydraulic cylinders with cushion valve; speed 3.0 RPM.

* 1. 270° rotation; ball bearing swing circle, external ring gear and pinion with worm drive reduction unit powered by hydraulic motor; swing speed 3.0 RPM.

* 2. 360° continuous rotation, specifications same as #1; with rotary coupling.

CHASSIS

FRAME — Ruggedly-designed one-piece weldment with steel I-beam main frame, cross members, counterweight, enclosed with heavy gauge protective steel shell, engine hood and sides.

OUTRIGGERS — Front only — hydraulic, individually and independently controlled from operator's position; safety check valves.

* REAR OUTRIGGERS

ENGINE

MAKE

TYPE

BORE AND STROKE

GROSS B. H. P.

GROSS TORQUE

GOVERNOR (Mechanical)

ELECTRIC SYSTEM

GAS

Ford 300

6 Cyl. O. H. V.

4.00" x 3.98"

149 @ 2800 RPM

284 @ 2000 RPM

2800 RPM

12 Volt

* GAS

Ford 361

8 Cyl. O. H. V.

4.05" x 3.50"

168 @ 2800 RPM

330 @ 2000 RPM

2800 RPM

12 Volt

* DIESEL

GM 4-53 4-Valve

4 Cyl. O. H. V.

3.875" x 4.50"

130 @ 2800 RPM

271 @ 1500 RPM

2800 RPM

12 Volt HD Battery

TRANSMISSION AND TORQUE CONVERTER — 4 speed forward and reverse transmission. Torque converter with dry disc type spring-loaded clutch.

* **AUTOMATIC TRANSMISSION AND TORQUE CONVERTER** — Power shift, constant mesh; 4 speed forward and reverse, with torque converter. Full-flow oil cooler with external heat exchanger and dash-mounted oil temperature gauge.

DRIVE SHAFT — Heavy duty industrial type with double universal needle bearing joints.

PARKING BRAKE — Hand lever control, mechanical, mounted on transmission drive line. Mico brake lock on service brakes.

DRIVING AXLE, FRONT — Planetary, full floating axle shafts, spiral bevel differential, with 16½" x 6" air brakes.

STEERING AXLE, REAR — Wide track. Axle oscillation 0" to 10" with two (2) positive hydraulic ram oscillation lockouts, controlled from operator's position.

TURNING RADIUS — 17' 6"

TIRES — FRONT (4) 12.00 x 20-16 ply non-directional

REAR (2) 12.00 x 20-16 ply highway tread

* **FRONT ONLY** (4) 12.00 x 20 - 16 ply rock service universal

WIDTH (overall) with standard tires — 8'3"

ROAD SPEED

STANDARD TRANSMISSION AND ENGINE, @ 2400 RPM

DRAWBAR PULL

GRADEABILITY (No Load/Paved Surface)

1st Gear

2.13 MPH

28,400#

57.5 %

2nd Gear

4.41 MPH

13,500#

27.0 %

3rd Gear

8.10 MPH

6,490#

14.0 %

4th Gear

15.60 MPH

3,850#

7.75%

CONTROLS — 4-way hydraulic valves, anti-cavitating, with main by-pass relief valve and independent circuit relief valves.

PUMP — Hydraulic, two pump system, gear type; 60 GPM combined capacity.

* **LIGHTS** — Two (2) recessed front head lamps; two (2) recessed rear combination tail and white back-up or work lights; horn.

* **CAB** — All steel, fully enclosed; skylight; safety glass windows; weather stripped; electric windshield wiper; left and right hand doors; hot water heater.

* **PINTLE HOOK** — Front and/or rear.

* **TOWING WINCH** — Hydraulic, model 40SCR, planetary gear, 11000# capacity, 6½" drum diameter, high speed payout, cable capacity — 300' of ½" diameter; (no cable); front or rear mounted.

WEIGHT — 50,000# approximate.

* **DENOTES OPTIONAL EQUIPMENT**

Constant improvement and engineering progress makes it necessary that we reserve the right to make specification, equipment and price changes without notice.

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