

STC-60

GENERAL SPECIFICATIONS

CRANE CAPACITY RATING MAXIMUM REACH TIP HEIGHT HYDRAULIC EXTENSION MANUAL EXTENSION (MAXIMUM) ROTATION (STANDARD) CRANE WEIGHT STORAGE HEIGHT (CRANE ONLY) OUTRIGGER SPAN (OPTIONAL EQUIPMENT) RETRACTED EXTENDED MOUNTING PLATE DIMENSIONS RECOMMENDED PUMP CAPACITY PER MINUTE OPERATING PRESSURE (DIFFERENTAIL) BOOM ELEVATION RANGE MINIMUM LOAD RADIUS FROM CENTER LINE

32.000 ft. lbs. 20' 0" 19' 7" 60" 48" 360° CONTINUOUS 975 lbs. 34.4" 95" 143" 23.5" X 20.5" 6 gal. 2400 psi -10° TO +80° 31.3"

152.4 cm 121.9 cm 443.3 kg 87.4 cm

4.42 TM

6.09 m

5.97 m

241.3 cm 363.2 cm 59 X 52 cm 22.71 165.5 bar

79.5 cm

1361 kg

9.5 mm

22.8 m

2.7 MT

3.6 MT

7.3 m/min.

*VERTICAL DISTANCE FROM BASE PLATE TO CENTER OF SHEAVE TIP PIN

GENERAL EQUIPMENT SEPECIFICATIONS

WINCH 38:1 RATIO WORM GEAR BARE DRUM SINGLE LINE PULL 3000 lbs. LINE SPEED-4TH LAYER 1 PART LINE 24 ft./min. WIRE ROPE DIAMETER 3/8" WIRE ROPE LENGTH 75' BALL BEARING SWIVEL HOOK 3 T 2-PART LINE BLOCK 4 T RATIO CABLE TO SHEAVE PITCH DIAMETER 18:1 RATIO CABLE TO WINCH DRUM DIAMETER 18:1 **CYLINDERS** BOOM LIFT CYLINDER 4 in. BOOM ETENDED CYLINDER 2 in. LOAD HOLDING VALVES

ROTATION DRIVE

DIRECTIONAL CONTROL VALVE OPERATION CONTROL PEMDANT

101.6 mm 50.8 mm INTERGRAL COUNTERBALANCE

85:1 RATIO SELF LOCKING WORM

4 SECTION STACKABLE SOLENOID WITH MANUAL OVERRIDE 25' (7.6 M) LONG HARD WIRED

OVERLOAD PROTECTION SYSTEM

ACTIVE FUNCTION CUTOUT



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HYDRAULIC SYSTEM/POWER SOURCE

The STC 60 is designed for use with an open center hydraulic system when equipped as standard. The system requires an approximate 10 horsepower to supply 6 gallons per minute and 2400 PSI.Power supply is generally a direct mounted pump and PTO for truckchassis applications, however other power supplies can be utilized.

Crane utilizes a four section, stackable, electric solenoid operated directional control valve with a 25 foot hard wired pendant control. A pressure relief is not supplied. In instances where a relief cannot be incorporated into other hydraulic system components, the optional inline relief should be ordered.

HOLDING VALVES

The base (extension) end of boom lift and extension cylinders are equipped with pilot operated counterbalance valves built into the cylinder. The counterbalance valve provides protection from boom collapse in the event of a hydraulic system failure or hose break. In addition, the counterbalance valves smooth lowering of the boom under load and also act as a thermal relief to prevent excessive pressure build up due to thermal expansion of the hydraulic oil.

WINCH SYSTEM

The winch is powered by a low-speed high-torque hydraulic motor through a 38:1 ratio worm gear with an automatic mechanical brake for load holding. Winch system is equipped with 75' of 3/8" diameter wire rope of 6 x 25 construction. A ball bearing swivel hook is provided for single line applications and a 2-part line block is provided. Overhaul weights may be optionally supplied.

ROTATION SYSTEM

Rotation is accomplished by a turntable bearing, driven by a lowspeed high-torque motor through a worm gearbox. The 85:1 ratio Nis self locking to prevent movement when the rotation system is not operating. Continuous rotation allows fast boom movement to any rotational position.

OVERLOAD PROTECTION

An active overload protection system is standard. The system senses overload conditions and prevents operation of boom extend and winch raise functions in the event of an overload. Boom retract and winch lower functions remain operational and allow crane operation to alleviate the overload condition. When systems are within rating limits the system will automatically reset to normal operation.

CONTROLS

Equipped as standard, control of the crane is provided by a hard wired remote pendant providing on-off operation of crane functions. Switches provided are military spec sealed toggle, capable of reliable operation in harsh operating enviroments which may be encountered.

DIMENSIONAL CONFIGURATION



OPTIONAL EQUIPMENT

ELECTO-HYDRAULIC FLOW CONTROL: System provides an electrically controlled variable flow control valve which is operated at the remote control pendant. The valve will allow control of the oil volume supplied to the crane directional valve and therefore will control the crane function operating speeds. This system uses the same control switches as the standard on-off control in conjunction with a variable controller to regulate crane function speeds.

CONTROL PENDANTS: The standard remote pendant can be equipped with a rotary actuator for control of electro-hydraulic flow control system described above.

A hard wired pendant may be optionally supplied which uses an index finger trigger actuator for true one hand control of all crane functions and function operating speeds.

A radio remote control is also available which provides operation of the crane without wired cables and allows complete freedom of movement. The unit is FCC approved and uses a multiple coding system to eliminate any possibility of accidental operation. The radio remote may be equipped for on-off or remote speed control operation.

STABILIZERS: Stabilizer systems can be provided in manual or hydraulic versions. A standard configuration is available or a custom design can be provided for specific requirements.

WINCH OPTIONS: Optional worm gear or planetary winches can be supplied in single speed or two speed versions which can provide line speeds of more than 100 feet per minute single line, using hydraulic flows recommended for standard cranes.

OTHER OPTIONS: A variety of other equipment can be provided to meet the needs of specific applications. Special equipment includes lifting hooks, flow adjusters to allow user changeable selection of maximum crane funtion speeds, inline relief valves, pallet forks, grapples and other items too numerous to mention. Please contact JOMAC, LTD or your dealer for evaluation of any special requirements.

CAPACITY CHART





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