

2820 Performance Characteristics

	SPECIFICATION	PTO
ROTATION	400° (7.0 rad)	58 seconds
LOWER BOOM ELEVATION	-0° to +72° (0 to +1.3 rad)	12 seconds up 15 seconds down
EXTENSION CYLINDER (2)	60" / 48" (152.4 cm / 121.9 cm)	18 seconds out 17 seconds in
WINCH	single part line	27 ft/min (8.2 m/min)
WINCH	two part line	13.5 ft/min (4.1 m/min)

2820 System Specifications

POWER SOURCE

PTO DRIVEN - Integral mounted hydraulic pump and PTO application. Other standard power sources may be used. Minimum power required is 15 horsepower based on 6 GPM (22.7 liters/min) at 3,000 PSI (207 bar).

CYLINDER HOLDING VALVES

The base ends (extend sides) of the lower boom and extension cylinders are equipped with integral-mounted counter-balance valves to prevent sudden cylinder collapse in case of hose or other hydraulic failure. The extend side of the lower boom cylinder is equipped with a 10 gpm counterbalance valve.

The counter balance valve serves several functions. First, it is a holding valve. Secondly, it is designed to control the speed at which the lowering function operates, and allows that motion to be metered under load. Finally, it prevents the loss of an excess amount of oil in the event of a hose failure. Only the oil in the hose, at the time of the failure, will be lost.

ROTATION SYSTEM

Turntable bearing with external worm gear powered with a high-torque hydraulic motor through a self-locking worm. Total gear reduction is 85 to 1.

HYDRAULIC SYSTEM (PTO DRIVEN)

Open-centered, full-pressure system that requires 6 gpm optimum oil flow at 3000 psi. Four-spool, stack-type, electric, remote control valve with 30-foot control cable. System includes control valve and return-line filter.