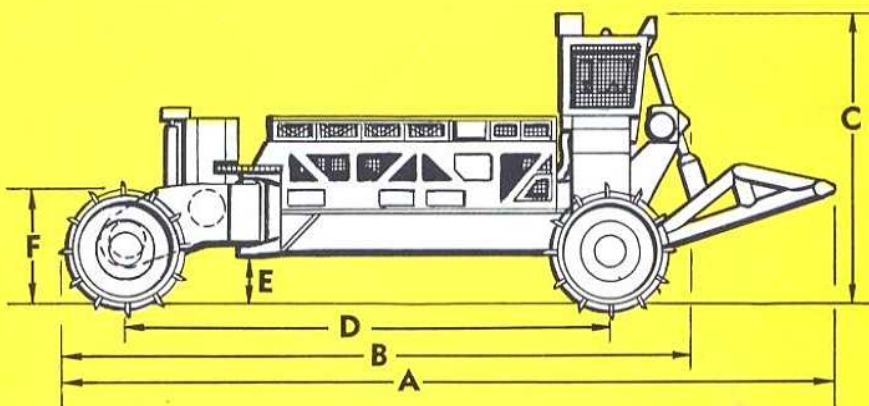


# LETOURNEAU Model G-80 ELECTRIC DRIVE TREE CRUSHER



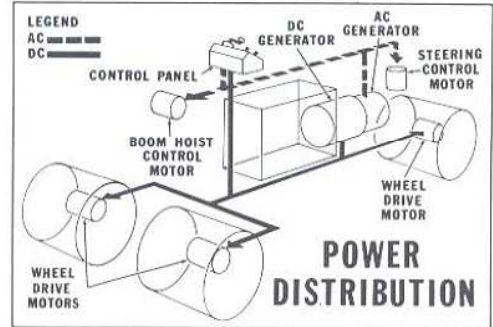
*"Electric Drive Means Performance"*



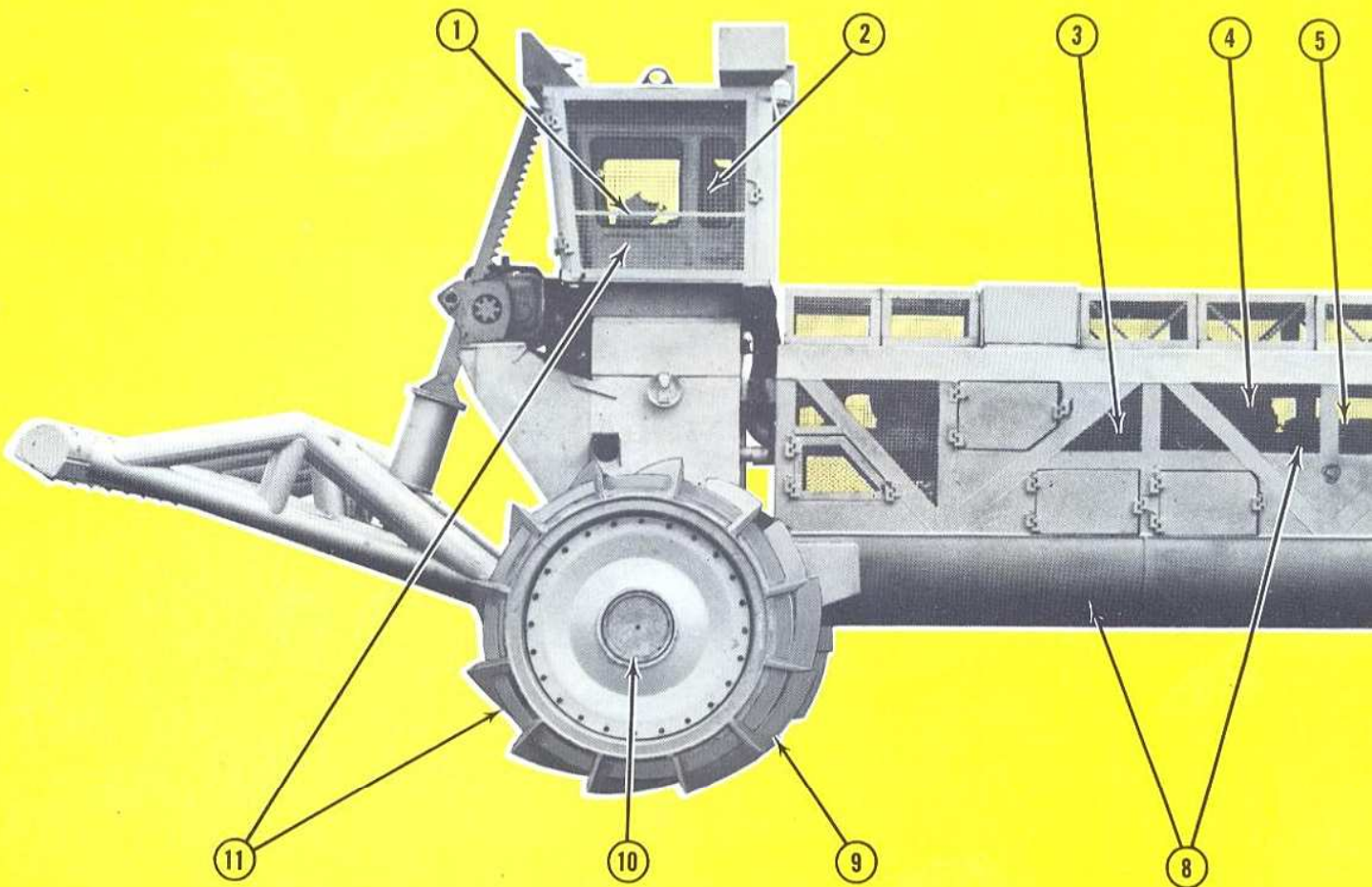
Model	A	B	C	D	E*	F
G-80	49'-3"	38'-8"	19'-7"	30'-8"	49"	6'-0"
	15.01M	11.79M	5.97M	9.35M	124 cm	1.83M

# LeTOURNEAU Model G-80 ELECTRIC DRIVE TREE CRUSHER

Heavy duty LeTourneau D.C. generator directly connected to the engine supplies controllable power to the three powerful D.C. roller drive motors. A.C. power is provided for push beam lift, tilt and pitch motors, and the steering control motor. All operational controls are located on the control panel for ease of operation.



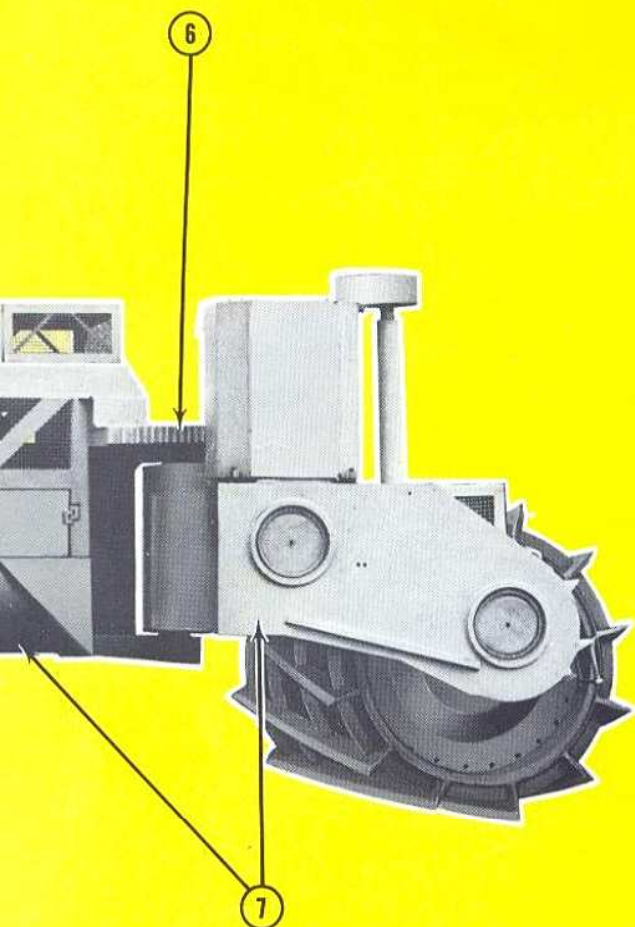
The Challenger with what it takes to be The New L







## and Clearing Champion



**1. CONTROLS:** All operating controls are centrally located for ease of operation. A hand-operated rheostat-type control governs the forward and reverse speeds, including power and braking. The operator performs instant steering and push beam functions through the use of finger-tip controls. These electric controls result in faster, safer operations for increased production.

**2. OPERATOR COMFORT:** Roomy operator's compartment is equipped with comfortable adjustable seat. Control panel and operator's seat can revolve as a unit, positioned for the best operating efficiency. Mesh Cab. All-weather cab inside mesh enclosure supplied as an option. Heaters, defrosters, air-conditioning are available options.

**3. MAINTENANCE:** Elimination of torque converter, transmission, universal joints and normal power train systems reduces maintenance costs. Electro-dynamic (regenerative) braking is a feature of the LeTourneau electric drive that provides braking without mechanical wear, further reducing maintenance costs. Accessibility and standardization of components reduces repair time.

**4. SERVICE ACCESSIBILITY:** Oil, filters, fuel oil filters, batteries and air cleaners are all located for quick and easy changes. Generators and motors are readily accessible for fast inspection and/or servicing.

**5. ENGINE:** Diesel engine directly coupled to the main D.C. generator provides a constant R.P.M. Constant engine power provides controllable "work power" through electric drive and longer engine life.

**6. POWER STEERING:** Fully articulated steering is provided by electric power through a gear and quadrant arrangement. Steering angle of  $45^\circ$  enables the Crusher to turn in a radius of 68 feet.

**7. OVERALL DESIGN FEATURES:** Special rugged 2-piece articulated main frame engineered for severe land clearing applications. Module design provides accessibility to major components for normal servicing and ease of maintenance.

**8. TREMENDOUS POWER:** Combination of great weight, 635 HP and 11'-8" height of push beam gives irresistible pushing force to fell large trees on a production basis.

**9. BALANCED TRACTION:** Electric drive provides compensating torque to the roller drums, resulting in balanced traction under a wide range of operating conditions.

**10. BRAKES:** Regenerative braking with no wearing parts provides positive brake control.

**11. EFFICIENCY:** Electric drive and controls utilize engine power most effectively. The electric drive provides infinite speeds in the entire operating range in either forward or reverse travel direction. Operations are unaffected by climatic changes and give the same degree of efficiency through their life span. LeTourneau Electric Drive means performance.



# LeTOURNEAU Model G-80 ELECTRIC DRIVE TREE CRUSHER



LONGVIEW, TEXAS 75601  
PHONE: A-C 214-753-4411  
CABLE: BOBLETORNO

**POWER SYSTEM:** (Electric) DC and AC Generators direct coupled to engine to provide DC power to roller drive motors and AC power to operate controls.

**FINAL DRIVE:** (Electro-Mechanical) Electric Drive in all three drums. Each roller drum is a powered wheel assembly complete with a DC Motor and Driver Unit.

**TRAVEL SPEED:** (Variable Control) Forward and Reverse 0-4 MPH (0-6.4 KmPH)

**CONTROL:** Hand operated rheostat-type governs speed, power, and braking.

**STEERING:** (Articulated) Control-AC Electric Motor through gear reduction and quadrant.

Steering Angle	45°
Turning Radius	68'-0" (20.73M)
Width required for 180° non-stop turn	134'-0" (40.84M)

**BRAKES:** (Electro-dynamic) Multiple Disc-type parking and emergency.

**OPTIONAL EQUIPMENT:** 635 HP 16V-71N Diesel engine, adjustable push beam, 27' x 6' root rake, enclosed operator's cab with heavy duty windshield wipers and 110 volt lights, electric heater-defroster kit, and cold weather starting equipment. Consult factory for special attachments, special roller drums and knifeblades.

#### ENGINE:

Make	Detroit Diesel, Model 12V-71N
Maximum Horsepower	475, @ Governed 2100 RPM
Bore and Stroke	4¼" x 5" (10.8 cm x 12.7 cm)
Number of Cylinders	12; Displacement, 852 cu. ins. (13.96 liters)
Fuel Tank Capacity	1000 Gal. (3,785 liters)
Starting System	24 volts
Fuel, Oil, and Air Filters	2 each
Engine Driven Accessories	Excitation Generator

GENERAL DATA	U.S.	METRIC
A—Overall Length	49'-3"	(15.01M)
B—Overall Length Less Push Beam	38'-8"	(11.79M)
C—Overall Height (Cab)	19'-7"	(5.97M)
Overall Height (Push Beam)	11'-8"	(3.56M)
Overall Width (Push Beam)	27'-0"	(8.23M)
Overall Width (Over Front Rollers)	26'-0"	(7.92M)
D—Wheelbase	30'-8"	(9.35M)
E—Ground Clearance		
Under Front Axle	44"	(112 cm)
Under Rear Axle	38"	(97 cm)
*Under Frame	49"	(124 cm)
Fuel Capacity (approximate)	1,000 Gal.	(3,785 liters)
Weight (approximate)	140,000 LBS.	(63,504 Kg)
Roller Drums:		
Width	10'-0"	(3.05M)
F— Diameter	6'-0"	(1.83M)
Diameter with standard 6" knifeblades	7'-0"	(2.13M)