Chassis Equipment

- Regular Cab with Back Front Axle
- Engine 450 HP with 1650 ft/lbs torque
- Tandem Dual Rear Wheels
- 206 CT
- 66,000 lb GVWR – 80,000 lb GCWR
- Engine brake with on/off switch & setting control
- 6-speed Allison 4500 RDS Automatic Transmission with Auto Neutral & PTO Provision
- Air Brakes with Heated Air Dryer
- MFS-20-133A 20,000 lb Front Axle or Equal
- Meritor RT-46-160P 46,000 lb Rear Axle with Lubricating Pump or Equal
- 4.30 Ratio with Driver Controlled Traction Differential Both Axles
- 20,000 lb Flat Leaf Front Suspension
- TuFtrak 46,000 lb 2-Stage Rear Spring Suspension or Equal
- Full Doble Channel Frame with Minimum 31 Section Modulus, PSI 120,000 min
- Full Gauges
- 1,500 Watt / 115 Volt Block Heater
- Engine Heater Receptacle Mounted under LH Door
- Engine Warning & Shutdown System
- Circuit Breakers
- AM/FM Stereo Radio Minimum
- Dual Air Horns
- Individual Air Suspended Drivers Seat
- Two Man Passenger Seat
- Front Tow Hooks
- Daytime Running Lights
- Dual West Coast Heated Mirrors 102 Width
- 8” Convex Mirrors Mounted Below Primary Mirrors
- Air Ride Cab
- 5” Fender Extensions

Crane Specs

- 23 Ton Behind Cab Mount 90’ Boom Truck Crane with Crane Stow Toward Rear of Vehicle
- Hydraulically Operated, Telescoping and Meets SAEJ765 stability requirements with 85% tipping factor
- Stowed Boom Height not exceed 159” when mounted on a 38” chassis frame. The width no more than 96” and require no more than 51” for mounting. Boom storage support shall be removable and not consume any deck length
- The crane will incorporate a torsion-resisting sub-base which bolts to the crane frame and runs the length of the chassis frame to tie-in with the rear stabilizers
- It will be equipped with dual operation dual operation control stations with winch and crane lever orientation identical on each side and labeled for easy control identification

Crane Specs, continued

- Each station will have a foot operated throttle, emergency stop switch, horn, control levers and load chart. The control levers to be installed 40 to 50 inches in height from platform floor
- Non-skid expanded steel control platform with easy access step
- Glycerin filled pressure gauge to monitor hydraulic pressure installed at one operation station
- Level bubble shall be installed at both operation stations on a machined surface parallel to the swing bearing
- Each operator station shall have a durable weather-proof capacity, instruction and safety placards describing the crane function
- Hot shift PTO with three section pump: Crane function 18 gpm, Winch 34 gpm and Rotation 10 gpm
- Control valves are of the “direct acting/sliding spool type” with operator control levers directly connected
- All high pressure hydraulic hoses shall be of a steel braid reinforced construction with 4:1 safety factor
- All high pressure hose fittings to be O-Ring Seal Fittings (ORS)
- Hydraulic reservoir shall be no less than 66 gallons and have a clean out port, removable magnetic plug and a 10 micron return line filter. 100% filtration is to be provided
- The boom shall be a 4-section telescoping design fully hydraulic and have nylon pads impregnated with molybdenum disulfide and Teflon plugs
- Extension and retraction of the boom shall be proportional with holding valves on all cylinders to prevent retraction except when under power
- The boot will extend to a maximum height of 89’ and retracted length shall not be longer than 24’ 6”
### Crane Specs, continued

- The boom shall meet all SAE J-765 stability test requirements and SAE J1063 stress requirements
- The boom will rotate a minimum of 375 degrees with rotation speed adjustable and provide a minimum rotation speed of 45 seconds
- Rotation shall be 375 degree non-continuous with cushioned rotation stop. The wing speed shall be easily adjustable
- Main Outriggers “A” type out and down on each side of the frame. Boxed type construction with minimum extended span of 21 ft when measured from the pad center at ground level. 18” x 18” pads minimum. The outriggers must have the capacity of providing a minimum of 10.5” of ground penetration
- The outrigger will not bind when raising or lowering and will have sufficient design to lift a fully loaded chassis
- They Hydraulic Winch will be boom mounted and have a geroler motor with planetary gear reduction for “power down” load lowering. The line shall be no less than 325 ft of 9/16” spin resistant 19.25 ton bonding strength wire rope. The winch shall have 3,000 lb line pull at 243 fpm full drum
- The crane will be equipped with a device to help prevent sheave case and/or cable damage by sensing the position of the winch cable end attachments with respect to he sheave case. The system will interrupt and shut down the “winch up” and/or “telescope out” functions that can cause “two-blocking”
- Cylinders on the crane will be double acting with shaft packings of polyurethane U-cup type. Shafts are high yield, stress relieved and chrome plated
- Stabilizers will be mounted behind rear tires made of double box beam type construction. The cylinders are fully enclosed and the outriggers are fully hydraulic with a minimum reach of 16’ horizontal span and 25” vertical movement
- The crane will have a Load Moment Indicator (LMI) it will have display console mounted on a swing arm bracket allowing full view of LMI from either console. It will display load radius, load on loadline, boom angle, boom length, tip height. It will provide a visual aid depicting the amount of crane capacity being utilized. This will assist the crane operator in preventing crane overload. It will stop all normal crane functions that can cause overload when maximum capacity is exceeded
- The crane will have remote control
- Front bumper stabilizer will be installed

### Truck Equipment

- Platform Body 22’ long with 12” side rails and four tie down ratchet straps mounted on curbside
- Two step rear bumper with cable step
- Rail Racks 1 each side designed to carry two each 115 RE rail
- Two JoBox Steel 24” x 24” x 60” Underbody boxes one mounted each side
- Long tool storage between frame rails rear
- Two Go Lights mounted to Crane control station
- K-200 Multi-ball and pintal hitch with glad hands and electric hookup
- Electric brake controller in cab
- PH200 30,000 lb. air pintal hook
- Mud flaps & backup alarm
- Triangle Reflector Kit / Fire Extinguisher / First Aid Kit
- Two work lights mounted Crane control station
- Amber strobe light one front and two rear
- Insulated Hydraulic Rail Gear with front and rear brakes and rail sweeps
- Rail dogs hydraulic
- 15,000 lb front mounted hydraulic winch
- 10 GPM hydraulic Tool Circuit
- LED Signal Directional Rack
- 2,000 watt inverter with 35 foot cord
- 6-switch panel in cab for all lights and PTO
- Rhino lining on flat bed, steps and interior of JoBox under body boxes
- 15,000 lb front mounted hydraulic winch
- Hydraulic tool storage box mounted under body

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