

**STATE OF MINNESOTA  
EQUIPMENT SPECIFICATION**

**SPECIFICATION:** 620-818

August, 2018  
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**1.0 SCOPE**

***MOTOR GRADER***

This unit shall be the most current advertised production model as modified per specifications and approved by Mn/DOT. Unit to be furnished with all standard equipment advertised whether or not specifically called for here, except where the item is replaced by optional over standard equipment or conflicting equipment is specified. The unit shall be complete with all equipment required and ready for immediate operation to function as listed below. Unit must meet all applicable codes and standards.

**2.0 MOTOR GRADER REQUIREMENTS**

- 2.1 Motor grader shall have backup alarm.
- 2.2 Motor grader shall have an operator warning system.
- 2.3 Motor grader shall have inside cab gauges or electronic monitoring which include fuel, articulation, engine coolant temp, hour meter, speedometer tachometer, oil pressure and voltmeter/alternator.
- 2.4 Unit shall have inside cab wide angle rearview mirror and outside mounted mirrors.
- 2.5 Cab shall have R.O.P.S.
- 2.6 Unit shall have seat belt.
- 2.7 Unit shall have hand and foot throttle.
- 2.8 Unit shall have front windshield washer and wiper system.
- 2.9 Unit shall have hydraulic blade side shift and tip.
- 2.10 Unit shall have parking brake.
- 2.11 Unit shall have vandal proof caps and engine compartment.
- 2.12 Unit shall have moldboard with replaceable edges.
- 2.13 Unit shall have work lights.
- 2.14 Unit shall have cab/bar mounted lights.
- 2.15 Unit shall have cab heater with front and rear window defroster.
- 2.16 Engine shall be liquid cooled diesel.
- 2.17 Unit shall have engine coolant heater with weather proof plug.
- 2.18 Unit shall have cold starting aid system.
- 2.19 When offering attachments such as (but not limited to) V-plows, scarifier, wing plows, etc., price must include everything needed so unit is complete, installed and ready to use by the operator from the cab.
- 2.20 Motor grader shall be delivered with 1 complete additional set of OEM air and fluid filters.
- 2.21 Manufacturer's standard color acceptable, lead free paint.
- 2.22 The Contract Vendor to ensure equipment meets all current Federal and Minnesota safety codes.
- 2.23 Each motor grader shall be supplied with one set of parts, service, repair and operations manuals.