

APPENDIX
MINIMUM SPECIFICATIONS BY SERIES

1. **TABLES:** The lawn mowers shall be furnished with all equipment and accessories as listed in the manufacturer's printed literature for each unit. It is the vendor's responsibility to ensure that products meet or exceed all requirements of this specification.

A list of required items, in addition to or in lieu of, the general requirements in Paragraph 5 of 515-MW-03 specification, precedes the tables for each series.

2. **LIGHT-DUTY ROTARY LAWN MOWERS (Series 10 and 20):** (Recommended for 100 hours annual use maximum). All units shall be furnished complete with standard equipment and factory-installed accessories as listed in the manufacturer's printed literature for the models listed herein:

- 2.1. **BLADE:**

- 2.1.1. All blade attachments shall be high strength steel.

- 2.1.2. A safety stop mechanism shall be provided.

- 2.2. **ENGINE:**

- 2.2.1. **Fuel Tank:** Metal, minimum 26 gauge; or plastic, minimum 0.11 inches thick, with minimum one (1) quart capacity.

- 2.2.2. **Power:** Minimum horsepower shall be as shown in the Tables.

- 2.3. **MOWER DECK AND CHASSIS:**

- 2.3.1. **Design:** The deck shall be designed to allow close trimming against walls, trees, shrubs, walks and fences.

- 2.3.2. **Grass Discharge Chute:** When so specified in the Invitation for Bids, the mower shall be equipped with a rear grass discharge chute. If a rear discharge chute is provided as standard equipment, the mower shall be furnished with a grass catcher meeting the requirements of ANSI/OPEI B71.1 and 71.4.

2.4. MOWER DRIVE SYSTEM (Self-propelled models):

2.4.1. Design (for Series 29 big-wheel only): Splined rollers propelling the rear wheels shall be allowed as a driving system.

2.4.2. Friction type drive mechanism in which the drive power is acceptable.

2.5. WHEELS: The wheels shall be metal or plastic.

2.6. OPTIONS: The following options shall be provided on Series 11 through 29 when so specified in the Invitation for Bids. When requested and provided, all options shall be provided with all parts required for the unit to be fully operational with the equipment purchased without ordering additional parts.

OPTIONS

Option No.	Description	Series Availability
1	Extra Cutter Blade	11 through 29
2	Two-cycle Engine	11, 13 & 24 <u>only</u>
3	Grass Catcher: furnished with minimum of 1-1/2 bushel capacity and complete with mounting brackets.	11 through 29
4	Rear Grass Discharge Chute (Requires Option No. 3)	11 through 29
5	I.C. Engine (with cast iron cylinder sleeves, minimum)	11 through 29
6	Semi-pneumatic Rear Rubber Tires	27 & 29 <u>only</u>
7	Mulching Kit	11, 13 & 24 <u>only</u>

**LIGHT-DUTY, HAND-PROPELLED, 4-CYCLE, ROTARY LAWN MOWERS
SERIES 11 -- 18" TO 20" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	18
Mower Deck: Material	Steel
Mower Deck: Gauge	14
Engine: Block Material	Aluminum
Engine: Crank Diameter, In.	.875
Engine: Horsepower	3.5
Engine: Type ¹	Standard
Engine: Displacement, cc	148
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	1.5
Discharge Chute Location	Standard
Handles: Diameter, in.	.875
Handles: Thickness, gauge	18
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ See Option 2 for ordering two-cycle engines.	

**LIGHT-DUTY, HAND-PROPELLED, 4-CYCLE, ROTARY LAWN MOWERS
SERIES 13 -- 21" TO 23" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	As Shown
Mower Deck: Gauge	14
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.875
Engine: Horsepower	3.5
Engine: Type	Standard
Engine: Displacement, cc	148
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	1.5
Discharge Chute Location	Standard
Handles: Diameter, in.	.875
Handles: Thickness, gauge	18
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ See Option 5 for ordering engines with cast iron cylinder liners.	

**LIGHT-DUTY, SELF-PROPELLED, 4-CYCLE, ROTARY LAWN MOWERS
SERIES 24 -- 21" TO 23" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM ¹	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	As Shown
Mower Deck: Gauge	14
Engine: Block Material ²	Aluminum
Engine: Crank Diameter, In.	.88
Engine: Horsepower	3.75
Engine: Type	Standard
Engine: Displacement, cc	164
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	1
Discharge Chute Location	Standard
Handles: Diameter, in.	.875
Handles: Thickness, gauge	18
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ Rear Bagger is standard. Mower converts to side discharge without use of tools.	
² See Option 5 for ordering engines with cast iron cylinder liners.	

**LIGHT-DUTY, HAND-PROPELLED, 4-CYCLE, BIG-WHEEL, ROTARY LAWN MOWERS
SERIES 27 -- 21" TO 24" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	Steel
Mower Deck: Gauge	14
Engine: Block Material	Aluminum
Engine: Crank Diameter, In.	.88
Engine: Horsepower	4
Engine: Type	Standard
Engine: Displacement, cc	190
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	1.5
Discharge Chute Location	Standard
Handles: Diameter, in.	.875
Handles: Thickness, gauge	16
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	14
Weight, Pounds	Standard

**LIGHT-DUTY, SELF-PROPELLED, BIG-WHEEL, ROTARY LAWN MOWERS
SERIES 29 -- 21" TO 26" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM ¹	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	Steel
Mower Deck: Gauge	14
Engine: Block Material	Aluminum
Engine: Crank Diameter, In.	.75
Engine: Horsepower	6
Engine: Type	I.C.
Engine: Displacement, cc	206
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	2
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	14
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	14
Weight, Pounds	Standard
¹ Splined roller propelling the rear wheels are allowed as a driving system for Series 29.	

- 3. COMMERCIAL ROTARY LAWN MOWERS (Series 30 and 40):** All units shall be furnished complete with standard equipment (except as may be modified to meet the requirements of this specification) and factory-installed accessories as listed in the manufacturer's printed literature for the models specified herein:
- 3.1. BLADE ATTACHMENT:** All blade fastening devices and alignment and shear pins shall be 1018 steel or higher.
 - 3.2. ENGINE, INDUSTRIAL/COMMERCIAL TYPE:**
 - 3.2.1. Block:** Aluminum block with cast iron cylinder sleeves or better.
 - 3.2.2. Fuel Tank:** Manufacturer's standard.
 - 3.2.3. Power:** Minimum horsepower shall be as shown in tables.
 - 3.3. MOWER DECK AND CHASSIS:** The mower deck and chassis shall meet the chassis impact test (See Paragraph 6.4.).
 - 3.3.1. Grass Discharge Chute:** When so specified in the Invitation for Bids, the mower shall be equipped with a rear grass discharge chute. If a rear discharge chute is provided as standard equipment, the mower shall be furnished with a grass catcher meeting the requirements of ANSI/OPEI B71.1 and 71.4.
 - 3.4. MOWER DRIVE SYSTEM (SELF-PROPELLED MODELS):**
 - 3.4.1. Design:** For commercial units, friction-type drive mechanism in which the drive power is applied to tire treads of drive wheels, is not acceptable.
 - 3.4.2. Transmission:** The drive system shall contain a transmission with gears fully enclosed in an oil- or grease-filled housing.
 - 3.5. WHEELS:** The wheels shall be metal with greaseable ball/rolling bearings.
 - 3.6. OPTIONS:** The following options shall be provided when so specified in the Invitation for Bids. When requested and provided, all options shall be provided with all parts required for the unit to be fully operational with the equipment purchased without ordering additional parts.

OPTIONS

Option No.	Description	Series Availability
1	Extra Cutter Blade	33, 34, 43, & 45
3	Grass Catcher: furnished with minimum of 1-1/2 bushel capacity and complete with mounting brackets.	33, 34, 43, & 45
4	Rear Grass Discharge Chute (Requires Option No. 3)	33, 34, 43, & 45
7	Mulching Kit	34, 43, & 45 <u>only</u>

**COMMERCIAL, HAND-PROPELLED, ROTARY LAWN MOWERS
(WITH 4-CYCLE ENGINES)
SERIES 33 -- 21" to 22" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	Steel/ Aluminum
Mower Deck: Gauge (Steel)	14
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.875
Engine: Horsepower	5
190Engine: Type	I.C.
Engine: Displacement, cc	153
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	1
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	16
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

**COMMERCIAL, HAND-PROPELLED, ROTARY LAWN MOWERS
(WITH 2-CYCLE ENGINES)
SERIES 34 -- 20" TO 22" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	20
Mower Deck: Material	Steel/Aluminum
Mower Deck: Gauge	14
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.875
Engine: Horsepower	6.5
Engine: Type	I.C.
Engine: Displacement, cc	124
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	2
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	16
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

**COMMERCIAL, SELF-PROPELLED ROTARY LAWN MOWERS
(WITH 4-CYCLE ENGINES)
SERIES 43 -- 21" to 22" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	Steel/ Aluminum
Mower Deck: Gauge (Steel)	14
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.88
Engine: Horsepower	6
Engine: Type	I.C.
Engine: Displacement, cc	153
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	1.6
Discharge Chute Location	Standard
Handles: Diameter, in.	1
Handles: Thickness, gauge	16
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

**COMMERCIAL, SELF-PROPELLED, ROTARY LAWN MOWERS
(WITH 2-CYCLE ENGINES)
SERIES 45 -- 21" to 22" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	21
Mower Deck: Material	Steel
Mower Deck: Gauge	14
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.88
Engine: Horsepower	4
Engine: Type	I.C.
Engine: Displacement, cc	127
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	2.1
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	14
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	Standard
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

- 4. HEAVY-DUTY, COMMERCIAL, BIG-WHEEL, ROTARY LAWN MOWERS (SERIES 50 AND 60):** All units shall be furnished complete with standard equipment (except as may be modified to meet the requirements of this specification) and factory-installed accessories as listed in the manufacturer's printed literature for the models specified herein:
- 4.1. BLADE ATTACHMENT:** All blade fastening devices and alignment or shear pins shall be 1018 steel or greater.
 - 4.2. BLADE DRIVE SYSTEM:** The cutting blade shall be driven by adequately sized V-belts and pulleys, flat belts and pulleys, or by enclosed gears. At the option of the manufacturer, one fractional horsepower V-belt, minimum 0.875 inch wide may be used for mowers have a cutting width of not more than 25 inches. The blade drive system shall not slip in heavy use. Any mechanism used shall meet or exceed the requirements of the CPSC, ANSI/OPEI B71.1 and 71.4.
 - 4.3. ENGINE, INDUSTRIAL/COMMERCIAL TYPE:**
 - 4.3.1. Block:** Aluminum block with cast iron cylinder sleeves or better.
 - 4.3.2. Fuel Tank:** Manufacturer's standard.
 - 4.3.3. Power:** Minimum horsepower shall be as shown in tables.
 - 4.4. HANDLES (STEERING):** Mower handles shall be fabricated from a minimum gauge steel tubing as listed in the tables with bracing sufficient to prevent any noticeable twisting or distortion when manipulating the mower on turns or hills. The handle should have a height adjustment feature with a positive lock.
 - 4.5. MOWER DECK:** The mower deck shall be constructed of a minimum gauge steel as listed in the tables and shall be reinforced to provide a rigid platform under all operating conditions.
 - 4.6. MANDREL HOUSING:** The mandrel housing for the blade shaft shall be constructed of steel, cast iron, or cast alloy, and shall be equipped with upper and lower ball or roller bearings permanently lubricated and sealed or fittings for external lubrication shall be provided.
 - 4.7. MOWER DRIVE SYSTEM (SELF-PROPELLED MODELS):**
 - 4.7.1. Design:** For commercial units, friction type drive mechanism in which the drive power is applied to tire treads of drive wheels, is not acceptable, except for Big-wheel mowers in Series 63 and 65.
 - 4.8. WHEELS AND TIRES:**
 - 4.8.1. Tires, Front:** The two front tires shall be semi-pneumatic rubber tires.
 - 4.8.2. Tires, Rear:** The rear tires shall be minimum two-ply heavy-duty pneumatic rubber tires (See Option 6 for semi-pneumatic tires).

4.8.3. Wheels, Front: The two front wheels shall be the manufacturer's standard size but shall be all metal construction and may be fixed or caster type. Front caster wheels are required on Series 55 and 65.

4.8.4. Wheels, Rear: The two rear wheels on Series 50 and 60 mowers shall be heavy-duty large wheels (with a minimum diameter as listed in the tables) made of nylon, steel, or magnesium-aluminum alloy.

4.9. OPTIONS: The following options shall be provided when so specified in the Invitation for Bids. When requested and provided, all options shall be provided with all parts required for the unit to be fully operational with the equipment purchased without ordering additional parts.

OPTIONS

Option No.	Description	Series Availability
1	Extra Cutter Blade	53, 63, & 65
3	Grass Catcher: furnished with minimum of 1-1/2 bushel capacity and complete with mounting brackets.	53, 63, & 65
6	Semi-pneumatic Rear Rubber Tires	53, 63, & 65
7	Mulching Kit	53, 63, & 65

HEAVY-DUTY, HAND-PROPELLED, BIG-WHEEL, ROTARY LAWN MOWERS SERIES 53 -- 22" to 24" Cutting Width

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	22
Mower Deck: Material	Steel
Mower Deck: Gauge	12
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.88
Engine: Horsepower	6
Engine: Type	I.C.
Engine: Displacement, cc	206
Fuel Tank Material	Steel/ Plastic
Fuel Tank Capacity quarts	2
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	14
Handles: Adjustment	Standard
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	16
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

**HEAVY-DUTY, SELF-PROPELLED, BIG-WHEEL, ROTARY LAWN MOWERS
SERIES 63 -- 24" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	24
Mower Deck: Material	Steel
Mower Deck: Gauge	12
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	.88
Engine: Horsepower	6
Engine: Type	I.C.
Engine: Displacement, cc	206
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	2
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	14
Handles: Adjustment	Standard
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	20
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

**HEAVY-DUTY, SELF-PROPELLED, BIG-WHEEL,
ROTARY LAWN MOWERS
SERIES 65 -- 25" TO 32" Cutting Width**

See General Requirements in Paragraph 5 in 515-MW-03 Specification.

ITEM	2003 Min.
Model	
Cutting Width, In.	25
Mower Deck: Material	Steel
Mower Deck: Gauge	12
Engine: Block Material ¹	Aluminum
Engine: Crank Diameter, In.	1
Engine: Horsepower	8
Engine: Type	I.C.
Engine: Displacement, cc	319
Fuel Tank Material	Metal/ Plastic
Fuel Tank Capacity quarts	3
Discharge Chute Location	Standard
Handles: Diameter, in.	.88
Handles: Thickness, gauge	14
Handles: Adjustment	Standard
Front Wheel Diameter, In.	Standard
Rear Wheel Diameter, In.	20
Weight, Pounds	Standard
¹ Aluminum with cast iron cylinder sleeves or better.	

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