

**MD73**  
**MD83**  
**MD93**  
Disc Mower

# SERVICE MANUAL

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## **SERVICE MANUAL**

**MD73  
MD83  
MD93**

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# INTRODUCTION

# Contents

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## INTRODUCTION

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## Safety rules


### Personal safety





This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.**

### Machine safety

**NOTICE:** Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

### Information

**NOTE:** Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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## Safety rules - Personal safety

### General safety rules

Use caution when you operate the machine on slopes. Raised equipment, full tanks and other loads will change the center of gravity of the machine. The machine can tip or roll over when near ditches and embankments or uneven surfaces.

Never permit anyone other than the operator to ride on the machine.

Never operate the machine under the influence of alcohol or drugs, or while you are otherwise impaired.

Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin, causing serious injury or infection.

- DO NOT use your hand to check for leaks. Use a piece of cardboard or paper.
- Stop the engine, remove the key, and relieve the pressure before you connect or disconnect fluid lines.
- Make sure that all components are in good condition. Tighten all connections before you start the engine or pressurize the system.
- If hydraulic fluid or diesel fuel penetrates the skin, seek medical attention immediately.
- Continuous long term contact with hydraulic fluid may cause skin cancer. Avoid long term contact and wash the skin promptly with soap and water.

Keep clear of moving parts. Loose clothing, jewelry, watches, long hair, and other loose or hanging items can become entangled in moving parts.

Wear protective equipment when appropriate.

DO NOT attempt to remove material from any part of the machine while it is being operated or while components are in motion.

Make sure that all guards and shields are in good condition and properly installed before you operate the machine. Never operate the machine with shields removed. Always close access doors or panels before you operate the machine.

A person or pet within the operating area of a machine can be struck or crushed by the machine or its equipment. DO NOT allow anyone to enter the work area.

Raised equipment and/or loads can fall unexpectedly and crush persons underneath. Never allow anyone to enter the area underneath raised equipment during operation.

Always keep windows, mirrors, all lighting, and Slow-Moving Vehicle (SMV) emblem clean to provide the best possible visibility while you operate the machine.

Operate controls only when seated in the operator's seat, except for those controls expressly intended for use from other locations.

Before you leave the machine:

1. Park the machine on a firm, level surface.
2. Put all controls in neutral or park lock position.
3. Engage the parking brake. Use wheel chocks if required.
4. Lower all hydraulic equipment — Implements, header, etc.
5. Turn off the engine and remove the key.

### WARNING

**Some components may continue to run down after you disengage drive systems. Make sure that you fully disengage all drive systems. Wait for all movement to stop. Failure to comply could result in death or serious injury.**

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When, due to exceptional circumstances, you would decide to keep the engine running after you leave the operator's station, then you must follow these precautions:

1. Bring the engine to low idle speed.
2. Disengage all drive systems.
3. Shift the transmission into neutral.
4. Apply the parking brake.

### **General maintenance safety**

Keep the area used for servicing the machine clean and dry. Clean up spilled fluids.

Service the machine on a firm, level surface.

Install guards and shields after you service the machine.

Close all access doors and install all panels after servicing the machine.

Do not attempt to clean, lubricate, clear obstructions, or make adjustments to the machine while it is in motion or while the engine is running.

Always make sure that working area is clear of tools, parts, other persons and pets before you start operating the machine.

Unsupported hydraulic cylinders can lose pressure and drop the equipment, causing a crushing hazard. Do not leave equipment in a raised position while parked or during service, unless the equipment is securely supported.

Jack or lift the machine only at jack or lift points indicated in this manual.

Incorrect towing procedures can cause accidents. When you tow a disabled machine follow the procedure in this manual. Use only rigid tow bars.

Stop the engine, remove the key, and relieve pressure before you connect or disconnect fluid lines.

Stop the engine and remove the key before you connect or disconnect electrical connections.

Replace damaged or worn tubes, hoses, electrical wiring, etc.

When welding, follow the instructions in the manual. Always disconnect the battery before you weld on the machine. Always wash your hands after you handle battery components.

### **Wheels and tires**

Make sure that tires are correctly inflated. Do not exceed any recommended load or pressure. Follow the instructions in the manual for proper tire inflation.

Tires are heavy. Handling tires without proper equipment could cause death or serious injury.

Never weld on a wheel with a tire installed. Always remove the tire completely from the wheel prior to welding.

Always have a qualified tire technician service the tires and wheels. If a tire has lost all pressure, take the tire and wheel to a tire shop or your dealer for service. Explosive separation of the tire can cause serious injury.

DO NOT weld to a wheel or rim until the tire is completely removed. Inflated tires can generate a gas mixture with the air that can be ignited by high temperatures from welding procedures performed on the wheel or rim. Removing the air or loosening the tire on the rim (breaking the bead) will NOT eliminate the hazard. This condition can exist whether tires are inflated or deflated. The tire MUST be completely removed from the wheel or rim prior to welding the wheel or rim.

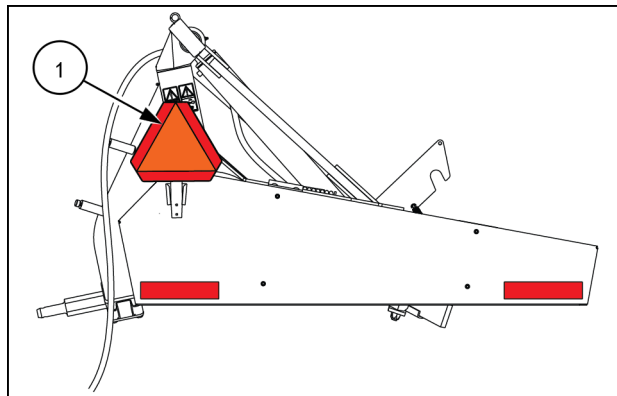


**⚠ Driving on public roads and general transportation safety ⚠**

Comply with local laws and regulations.

Use appropriate lighting to meet local regulations.

Make sure that the Slow-Moving Vehicle (SMV) emblem (1) is visible (if equipped).



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Make sure that the brake pedal latch is engaged. You must lock brake pedals together for road travel.

Use safety chains for trailed equipment when safety chains are provided with machine or equipment.

Lift implements and attachments high enough above ground to prevent accidental contact with road.

When you transport equipment or a machine on a transport trailer, make sure that it is properly secured. The Slow-Moving Vehicle (SMV) emblem on the equipment or machine is covered while being transported on a trailer.

Be aware of overhead structures or power lines and make sure that the machine and/or attachments can pass safely under.

Travel speed should be such that you maintain complete control and machine stability at all times.

Slow down and signal before turning.

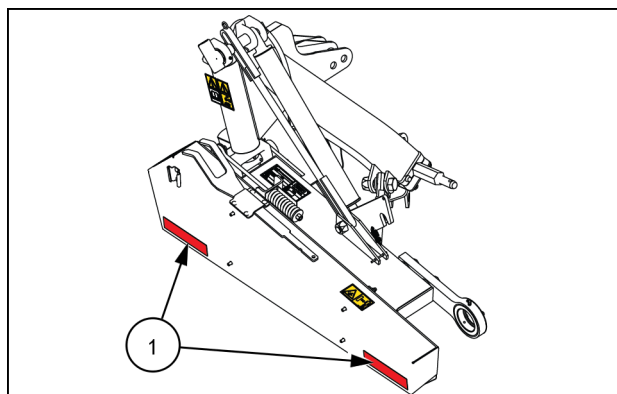
Pull over to allow faster traffic to pass.

Follow correct towing procedure for equipment with or without brakes.

**⚠ Reflectors and warning lights ⚠**

You must use flashing amber warning lights when you operate equipment on public roads.

Red reflectors (1) are located on the drive belt shield.



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## Personal Protective Equipment (PPE)

Wear Personal Protective Equipment (PPE) such as hard hat, eye protection, heavy gloves, hearing protection, protective clothing, etc.

## Do Not Operate tag

Before you start servicing the machine, attach a 'Do Not Operate' warning tag to the machine in an area that will be visible.

## Hazardous chemicals

If you are exposed to or come in contact with hazardous chemicals you can be seriously injured. The fluids, lubricants, paints, adhesives, coolant, etc. required for the function of your machine can be hazardous. They may be attractive and harmful to domestic animals as well as humans.

Material Safety Data Sheets (MSDS) provide information about the chemical substances within a product, safe handling and storage procedures, first aid measures, and procedures to take in the event of a spill or accidental release. MSDS are available from your dealer.

Before you service your machine check the MSDS for each lubricant, fluid, etc. used in this machine. This information indicates the associated risks and will help you service the machine safely. Follow the information in the MSDS, and on manufacturer containers, as well as the information in this manual, when you service the machine.

Dispose of all fluids, filters, and containers in an environmentally safe manner according to local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information.

Store fluids and filters in accordance with local laws and regulations. Use only appropriate containers for the storage of chemicals or petrochemical substances.

Keep out of reach of children or other unauthorized persons.

Applied chemicals require additional precautions. Obtain complete information from the manufacturer or distributor of the chemicals before you use them.

## Utility safety

Make sure that the machine has sufficient clearance to pass in all directions. Pay special attention to overhead power lines and hanging obstacles. High voltage lines may require significant clearance for safety. Contact local authorities or utilities to obtain safe clearance distances from high voltage power lines.

Retract raised or extended components, if necessary. Remove or lower radio antennas or other accessories. Should a contact between the machine and an electric power source occur, the following precautions must be taken:

- Stop the machine movement immediately.
- Apply the parking brake, stop the engine, and remove the key.
- Check if you can safely leave the cab or your actual position without contact with electrical wires. If not, stay in your position and call for help. If you can leave your position without touching lines, jump clear of the machine to make sure that you do not make contact with the ground and the machine at the same time.
- Do not permit anyone to touch the machine until power has been shut off to the power lines.

## Electrical storm safety

Do not operate machine during an electrical storm.

If you are on the ground during an electrical storm, stay away from machinery and equipment. Seek shelter in a permanent, protected structure.

If an electrical storm should strike during operation, remain in the cab. Do not leave the cab or operator's platform. Do not make contact with the ground or objects outside the machine.

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## Safety rules - Ecology and the environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances.

### Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products contain substances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
- Avoid spillage when you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- The air-conditioning system contains gases that should not be released into the atmosphere. Consult an air-conditioning specialist or use a special extractor to recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
- Protect hoses during welding. Penetrating weld splatter may burn a hole or weaken hoses, allowing the loss of oils, coolant, etc.

### Battery recycling

Batteries and electric accumulators contain several substances that can have a harmful effect on the environment if the batteries are not properly recycled after use. Improper disposal of batteries can contaminate the soil, groundwater, and waterways. CASE IH strongly recommends that you return all used batteries to a CASE IH dealer, who will dispose of the used batteries or recycle the used batteries properly. In some countries, this is a legal requirement.



### Mandatory battery recycling

**NOTE:** The following requirements are mandatory in Brazil.

Batteries are made of lead plates and a sulfuric acid solution. Because batteries contain heavy metals such as lead, CONAMA Resolution 401/2008 requires you to return all used batteries to the battery dealer when you replace any batteries. Do not dispose of batteries in your household garbage.

Points of sale are obliged to:

- Accept the return of your used batteries
- Store the returned batteries in a suitable location
- Send the returned batteries to the battery manufacturer for recycling

## Torque

**NOTE:** In the metric tables, nominal sizes M4 through M8 hardware torque specifications are shown as a Newton meters (pound-inches) numerical value.

Nominal sizes M10 through M24 hardware torque specifications are shown as a Newton meters (pound-feet) numerical value.

### Metric hex head (non-flange) hardware

Plain (PLN) – an unplated hardware finish with residual manufacturing oils

Zinc-dichromate (ZND) – a yellow colored chemical plating formula yellow applied to the hardware

Nominal size	Class (CL) 8.8 bolt and Class (CL) 8 nut	Class (CL) 10.9 bolt and Class (CL) 10 nut	Locknut CL 8 w/CL 8.8 bolt	Locknut CL 10 w/CL 10.9 bolt
	PLN and ZND	PLN and ZND	ZND	ZND
	N·m (lb in)	N·m (lb in)	N·m (lb in)	N·m (lb in)
M4	3.5 (31)	5.0 (44)	1.4 (13)	2.8 (25)
M5	7.0 (62)	10 (88)	2.9 (26)	5.5 (49)
M6	11.8 (104)	17 (150)	4.9 (43)	9.4 (83)
M8	28.8 (255)	41.3 (366)	11.9 (105)	23 (204)
	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)
M10	57 (42)	82 (60)	24 (17)	45 (33)
M12	100 (74)	143 (105)	41 (30)	79 (38)
M14	159 (117)	227 (168)	66 (48)	125 (92)
M16	248 (183)	354 (261)	102 (75)	195 (144)
M18	352 (260)	487 (359)	145 (107)	268 (198)
M20	500 (369)	690 (509)	206 (152)	380 (280)
M24	865 (638)	1195 (882)	357 (263)	657 (485)

### Metric flange head hardware

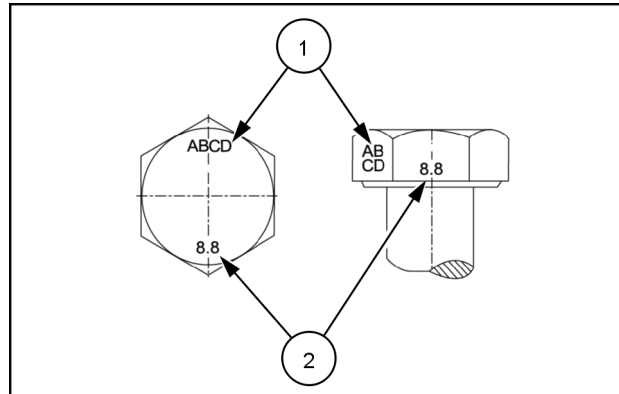
Plain (PLN) – an unplated hardware finish with residual manufacturing oils

Zinc-dichromate (ZND) – a yellow colored chemical plating formula yellow applied to the hardware

Nominal size	Class (CL) 8.8 bolt and Class (CL) 8 nut	Class (CL) 10.9 bolt and Class (CL) 10 nut	Flange locknut CL 8 w/CL 8.8 bolt	Flange locknut CL 10 w/CL 10.9 bolt
	PLN and ZND	PLN and ZND	ZND	ZND
	N·m (lb in)	N·m (lb in)	N·m (lb in)	N·m (lb in)
M4	3.8 (34)	5.5 (49)	4.2 (37)	6.1 (54)
M5	7.7 (68)	11 (97)	8.5 (75)	12 (106)
M6	13 (115)	18.7 (166)	14.3 (127)	20.6 (182)
M8	31.7 (281)	45.5 (403)	35 (310)	50 (443)
	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)
M10	63 (47)	90 (66)	69 (51)	99 (73)
M12	110 (81)	157 (116)	121 (89)	173 (128)
M14	175 (129)	250 (184)	193 (142)	275 (202)
M16	272 (201)	389 (287)	299 (221)	428 (316)
M18	387 (286)	535 (395)	426 (315)	589 (435)
M20	550 (406)	759 (560)	605 (447)	835 (616)
M24	951 (702)	1315 (970)	1046 (772)	1447 (1067)

**Identification markings**

**Metric hex head, flange hex head and carriage bolts, Classes (CL) 5.6 and upward**

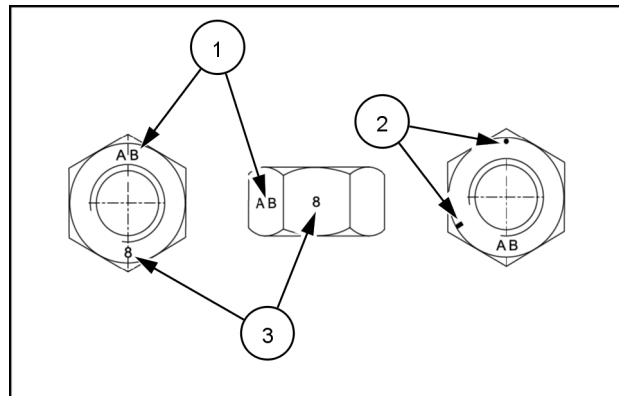


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**Metric bolt identification markings**

1. Manufacturer's identification
2. Property class

**Metric hex nuts and locknuts, Classes (CL) 05 and upward**



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**Metric hex nut identification markings**

- (1) – Manufacturer's identification
- (3) – Property class
- (2) – Clockwise type markings indicate property class and may include manufacturer identification (if applied), Example: property marks **240°** apart (shown) at the eight o'clock position indicate a Class 8 property, and marks **300°** apart at the ten o'clock position indicate a Class 10 property.

**NOTE:** In the Imperial units tables, the nominal sizes, **1/4 (0.25) in (inch)** and **5/16 (0.3125) in (inch)** hardware torque specifications are shown as a Newton meters (pound-inches) numerical value.  
Nominal sizes **3/8 (0.375) in (inch)** through **1 (1.0) in (inch)** hardware torque specifications are shown as a Newton meters (pound-feet) numerical value.

**Inch hex head (non-flange) hardware**

Plain (PLN) – an unplated hardware finish with residual manufacturing oils

Zinc-dichromate (ZND) – a yellow colored chemical plating formula yellow applied to the hardware

Nominal size	SAE Grade (GR) 5 bolt and nut	SAE Grade (GR) 8 bolt and nut	Locknut GR B w/ GR 5 bolt	Locknut GR C w/ GR 8 bolt
	PLN and ZND	PLN and ZND	ZND	ZND
	N·m (lb in)	N·m (lb in)	N·m (lb in)	N·m (lb in)
<b>1/4 (0.25) in</b>	13 (115)	18 (159)	7.2 (64)	10 (89)
<b>5/16 (0.3125) in</b>	27 (239)	38 (336)	14.9 (132)	21 (186)
	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)
<b>3/8 (0.375) in</b>	47 (35)	67 (49)	26 (19)	37 (27)
<b>7/16 (0.4375) in</b>	76 (56)	107 (79)	42 (31)	59 (44)
<b>1/2 (0.50) in</b>	116 (85)	164 (121)	64 (47)	90 (67)
<b>9/16 (0.5625) in</b>	167 (123)	236 (174)	92 (68)	130 (96)
<b>5/8 (0.625) in</b>	231 (170)	326 (240)	127 (94)	179 (132)
<b>3/4 (0.75) in</b>	410 (302)	578 (426)	226 (166)	318 (234)
<b>7/8 (0.875) in</b>	660 (486)	931 (687)	363 (267)	512 (378)
<b>1 (1.0) in</b>	989 (729)	1396 (1030)	544 (401)	768 (567)

**Inch flange head hardware**

Plain (PLN) – an unplated hardware finish with residual manufacturing oils





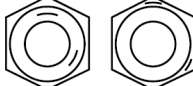
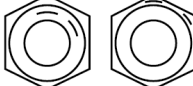



Zinc-dichromate (ZND) – a yellow colored chemical plating formula yellow applied to the hardware

Nominal size	SAE Grade (GR) 5 bolt and nut	SAE Grade (GR) 8 bolt and nut	Flange locknut GR F w/ GR 5 bolt	Flange locknut GR G w/ GR 8 bolt
	PLN and ZND	PLN and ZND	ZND	ZND
	N·m (lb in)	N·m (lb in)	N·m (lb in)	N·m (lb in)
<b>1/4 (0.25) in</b>	14 (124)	20 (177)	15.4 (136)	22 (195)
<b>5/16 (0.3125) in</b>	29 (257)	42 (372)	32 (283)	46 (407)
	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)
<b>3/8 (0.375) in</b>	52 (38)	74 (54)	57 (42)	81 (9)
<b>7/16 (0.4375) in</b>	84 (62)	118 (87)	92 (68)	130 (96)
<b>1/2 (0.50) in</b>	127 (94)	180 (133)	140 (103)	198 (146)
<b>9/16 (0.5625) in</b>	184 (136)	259 (191)	202 (150)	285 (210)
<b>5/8 (0.625) in</b>	254 (187)	358 (264)	279 (206)	394 (290)
<b>3/4 (0.75) in</b>	450 (332)	636 (469)	495 (365)	700 (516)
<b>7/8 (0.875) in</b>	725 (535)	1024 (755)	798 (589)	1126 (831)
<b>1 (1.0) in</b>	1088 (802)	1536 (1133)	1197 (882)	1690 (1246)

**Identification marking**

**Grades of inch bolts and free-spinning nuts**


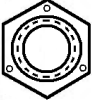
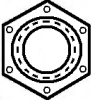

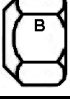
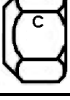



**SAE (J995) bolt head and nut grade identification**

Grade identification marking	Grade Marking description
	<p><b>Grade 2</b> No line marks</p>
	<p><b>Grade 5</b> Three line marks</p>
	<p><b>Grade 8</b> Six line marks</p>
	<p><b>Grade 2</b> No circumferential line marks</p>
	<p><b>Grade 5</b> Two circumferential line marks located 120° apart</p>
	<p><b>Grade 8</b> Two circumferential line marks located 60° apart</p>
	<p><b>Grade 2</b> No circumferential line marks</p>
	<p><b>Grade 5</b> Two circumferential line marks located 120° apart</p>
	<p><b>Grade 8</b> Two circumferential line marks located 60° apart</p>

**Grades of inch prevailing torque locknuts, all metal (three common marking methods)**

On prevailing torque locknuts, the grade of nut is identified by one of three different sets of markings that denote the strength level and manufacturer.

**Common prevailing torque locknut grade identification markings**

Grade identification marking	Grade Marking description
	<p><b>Grade A</b> No marks</p>
	<p><b>Grade B (hex nut) and Grade F (flange nut)</b> Three raised or indented dot marks (Marks do not have to be in corners.)</p>
	<p><b>Grade C (hex nut) and Grade F (flange nut)</b> Six raised or indented dot marks (Marks do not have to be in corners.)</p>
	<p><b>Grade A</b> No letter mark on side flat</p>
	<p><b>Grade B</b> Letter B on side flat</p>
	<p><b>Grade C</b> Letter C on side flat</p>
	<p><b>Grade A</b> No notches</p>
	<p><b>Grade B</b> One circumferential notch on all six corners</p>
	<p><b>Grade C</b> Two circumferential notches on all six corners</p>



## General specifications

### Cutterbar

	MD73	MD83	MD93
Cutting width	2040 mm (80 in)	2400 mm (94 in)	2800 mm (110 in)
Cutting height	32 – 89 mm (1.25 – 3.5 in)	32 – 89 mm (1.25 – 3.5 in)	32 – 89 mm (1.25 – 3.5 in)
Cutterbar tilt angle	0 – -10°	0 – -10°	0 – -10°
Cutterbar operating range	+18 – -32°	+18 – -30°	+18 – -28°
Breakaway angle	19°	30.5°	30.5°
Type	Modular	Modular	Modular
Number of discs	5	6	7
Knives per disc	2	2	2
Disc cutting diameter	500 mm (19.7 in)	500 mm (19.7 in)	500 mm (19.7 in)
Disc speed	3000 RPM	3000 RPM	3000 RPM

### Driveline

	MD73	MD83	MD93
Power Take Off (PTO) horsepower requirement - (minimum)	33 kW (45 Hp)	40 kW (55 Hp)	44 kW (60 Hp)
Input speed	540 RPM	540 RPM	540 RPM
Driveline protection	Belt drive to cutterbar, overrunning clutch on PTO shaft	Belt drive to cutterbar, overrunning clutch on PTO shaft	Belt drive to cutterbar, overrunning clutch on PTO shaft
Belt tension	Spring-loaded tensioner with adjustment gauge	Spring-loaded tensioner with adjustment gauge	Spring-loaded tensioner with adjustment gauge

### Hydraulics and hitch

	MD73	MD83	MD93
Hydraulic circuits required	One remote	One remote	One remote
Minimum relief pressure required	104 bar (1500 psi)	104 bar (1500 psi)	104 bar (1500 psi)
Hitch	Category I	Category II	Category II

### Dimensions and weight

	MD73	MD83	MD93
Overall width	3524 mm (138.75 in)	4070 mm (160.25 in)	4616 mm (181.75 in)
Overall length	1283 mm (50.5 in)	1283 mm (50.5 in)	1283 mm (50.5 in)
Height, transport position*	2489 mm (98 in)	3035 mm (119.5 in)	3581 mm (141 in)
Hitch	546 kg (1200 lb)	639 kg (1405 lb)	698 kg (1535 lb)

**NOTE:** \* Transport height is based on hitch pins being 609 mm (24 in) above the ground on model MD73 and 457 mm (18 in) above the ground on models MD83 and MD93 as specified earlier in this manual.

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