SG28 PTO STUMP GRINDER



Operator's Manual

MechMaxx

www.mechmaxx.com

Your new SG28 PTO Stump Grinder offers quality construction, and is easy and safe to operate. With proper use and care, it is designed to give you many years of dependable service.

Prepare to experience the durability to take on any job with the ease, portability, and convenience of your new SG28 PTO Stump Grinder !

MAX performance,MAX Value,MAX Support that's Stump Grinder

- √ Enhanced design features come standard
- √ Engineered for the best user experience
- √ Quality metal parts are used instead of plastic
- √ A robust warranty supports all products
- √ Budget-friendly prices make it practical

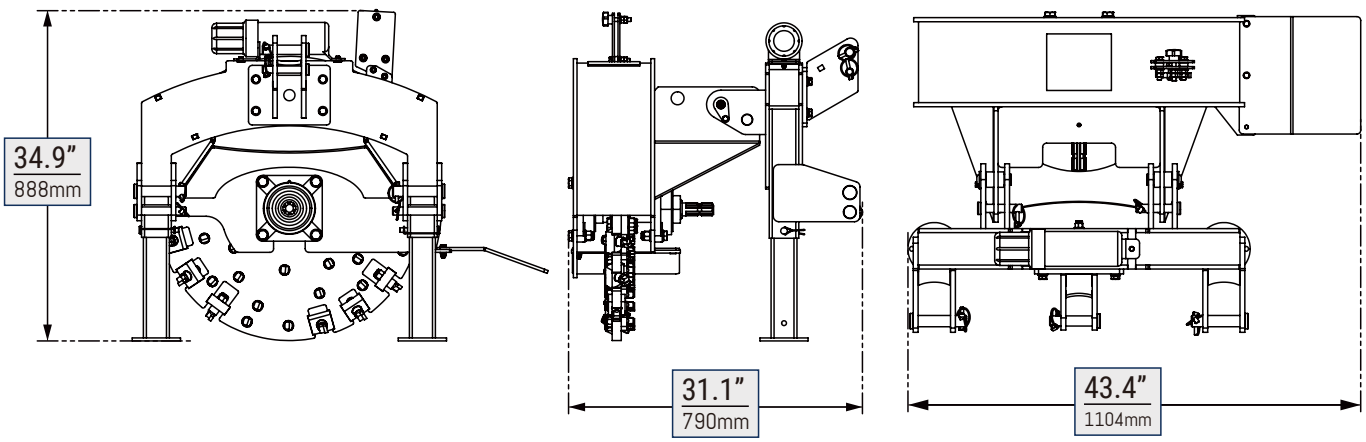
TABLE OF CONTENTS

TABLE OF CONTENTS	1
SPECIFICATIONS	2
OVERALL DIMENSIONS	2
3-POINT HITCH DIMENSIONS	3
SAFETY SIGNS	3
SAFETY	4
GENERAL SAFETY RULES	4
PERSONAL SAFETY	4
UNPACKING THE CONTAINER	6
CONTENTS SUPPLIED	7
TO-SCALE HARDWARE	8
ASSEMBLY	9
TOP LINK BRACKET	9
DEFLECTOR	9
CHAINSAW HOLDER	9
MANUAL TUBE	10
KNOW YOUR MACHINE	11
SET-UP PROCEDURES	12
TRIMMING THE PTO SHAFT	12
DETERMINE DRIVESHAFT LENGTH	12
PTO SHAFT CLUTCH RUN-IN	13
FLYWHEEL TOOTH TORQUING	14
OPERATION	15
STARTUP	16
PREPARATION FOR USE	16
ATTACH STUMP GRINDER TO TRACTOR	16
STUMP GRINDING PROCEDURE	18
MACHINE USE AND CARE	20
MAINTENANCE	21
REPLACING TEETH	21
GREASING	21
TROUBLESHOOTING	22
STORAGE	23
PARTS DIAGRAM	24
PARTS LIST	25

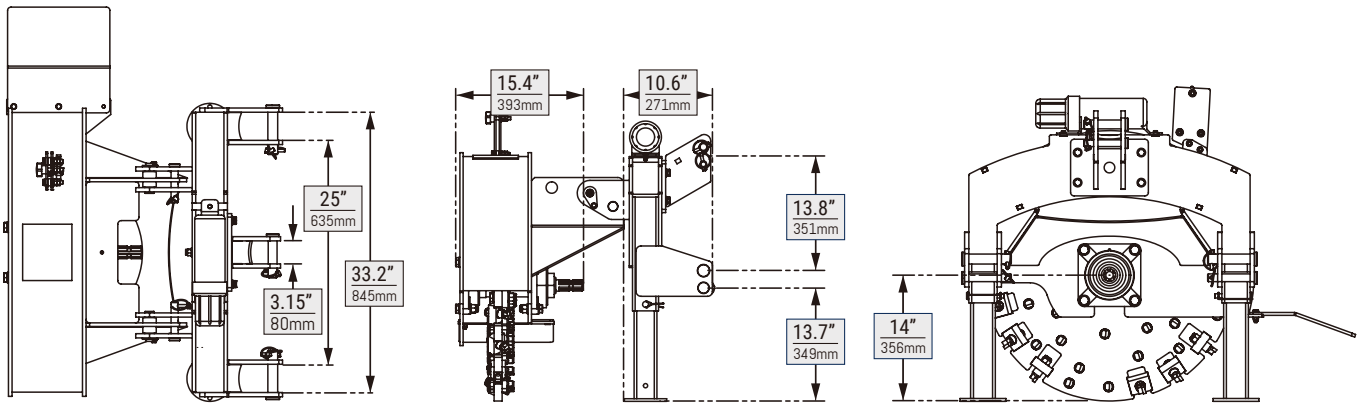
SPECIFICATIONS

Model	SG28
Flywheel Diameter	28 in
Flywheel Thickness	1 in
Carbid Tip	44 pcs
Carbid Tip Material	YG11C
Tip Holder Material	42CrMo
PTO HP Required	35-80 HP
PTO Shaft (Included Shipping)	1-3/8” 6 Spline Tractor and Implement Ends PTO Driveline Shaft with Slip Clutch
Friction Torque Limiter (Slip Clutch)	Included
Mounting	3 Point Hitch Cat 1 &2
PTO Input	540 RPM
Max. Torque	1200 N·m
PTO Shaft Weight	44 lbs
Dimensions	42.5 x 27.7 x 37.9 in
Packing Size	37 X 33.4 X 35.4 in
Weight (N.W/G.W.)	670 / 736 lbs

OVERALL DIMENSIONS



3-POINT HITCH DIMENSIONS



SAFETY SIGNS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.

DANGER

ROTATING KNIVES HAZARD

To prevent serious injury or death from rotating knives:

- DO NOT go under frame when rotor is turning or engine is running. Keep others away.
- Disconnect & lockout power source BEFORE adjusting or servicing.
- Keep hands, feet, hair, and clothing away from moving parts.

WARNING

The PTO Driveline MUST be measured and cut (if required) as per the Owner's Manual. Failure to do so will result in damage to both the tractor and the implement.

DANGER

ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY!

DO NOT OPERATE WITHOUT :

- All driveline guards, tractor, and equipment shields in place.
- Drivelines securely attached at both ends.
- Driveline guards that turn freely on driveline.

DANGER

ROTATING BLADES KEEP HANDS AWAY

WARNING

To Prevent Serious Injury Or Death:

- Read and understand Operator's manual before using.
- Do not permit riders on the tractor or mower. Never carry child on tractor seat.
- Operate with guards installed and in good condition.
- Operate only with tractor equipped with ROPS and seatbelts.
- Keep away from moving parts.
- Stop engine, set brake and wait for all moving parts to stop before dismounting.
- Be sure lights and reflectors required by law are clean and in good working order before transporting.
- Do not allow children to operate mower.
- Travel with SMV and lights that follow local codes.
- Clean debris from mowing area.
- Do not operate in the raised position.
- Support securely before working beneath unit.
- Review safety instructions annually.

CAUTION



WARNING

Read and understand operators manual before using this machine.

CAUTION

BEFORE OPERATION, PULL OUT THE PIN.

SAFETY

GENERAL SAFETY RULES

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation.

If the unit is to be used by someone other than original purchaser or loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, other people, and property.

> ⚠ Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock,fire, and/or serious injury.

> ⚠ The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product but must be supplied by the operator.

- All Federal and State laws and any regulation having jurisdiction covering the safety requirements for use of the machine take precedence over the statements in this manual. Users of this machine must adhere to such regulations.
- Only people that have read and understood these instructions are permitted to use the stump grinder.
- Inspect the stump grinder and tractor at the beginning of every working day and repair any defects.
- Do not disable or remove the stump grinder's safety devices.
- Always locate and mark buried wires, cables, and pipelines prior to grinding.

PERSONAL SAFETY

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

- Stay alert, watch what you are doing and use common sense when operating machinery. Do not use a machine when you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating machinery may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents often cover moving parts and should be avoided.
- Use safety apparel and equipment. Use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use a dust mask in dusty work conditions. This applies to all persons in the work area. Also use nonskid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.
- Do not overreach. Keep proper footing and balance at all times.
- Remove adjusting keys or wrenches before connecting to the power supply or turning on the machine. A wrench or key that is left attached to a rotating part of the machine may result in personal injury.
- Never conduct any maintenance or make any other adjustments while the tractor engine is running. Always shut the tractor engine off, remove the ignition key, and keep the engine off before carrying out any of the following procedures. Consult your tractor's operator manual for safe shutdown procedures to prevent accidental ignition.
- Never allow passengers to ride on the stump grinder.

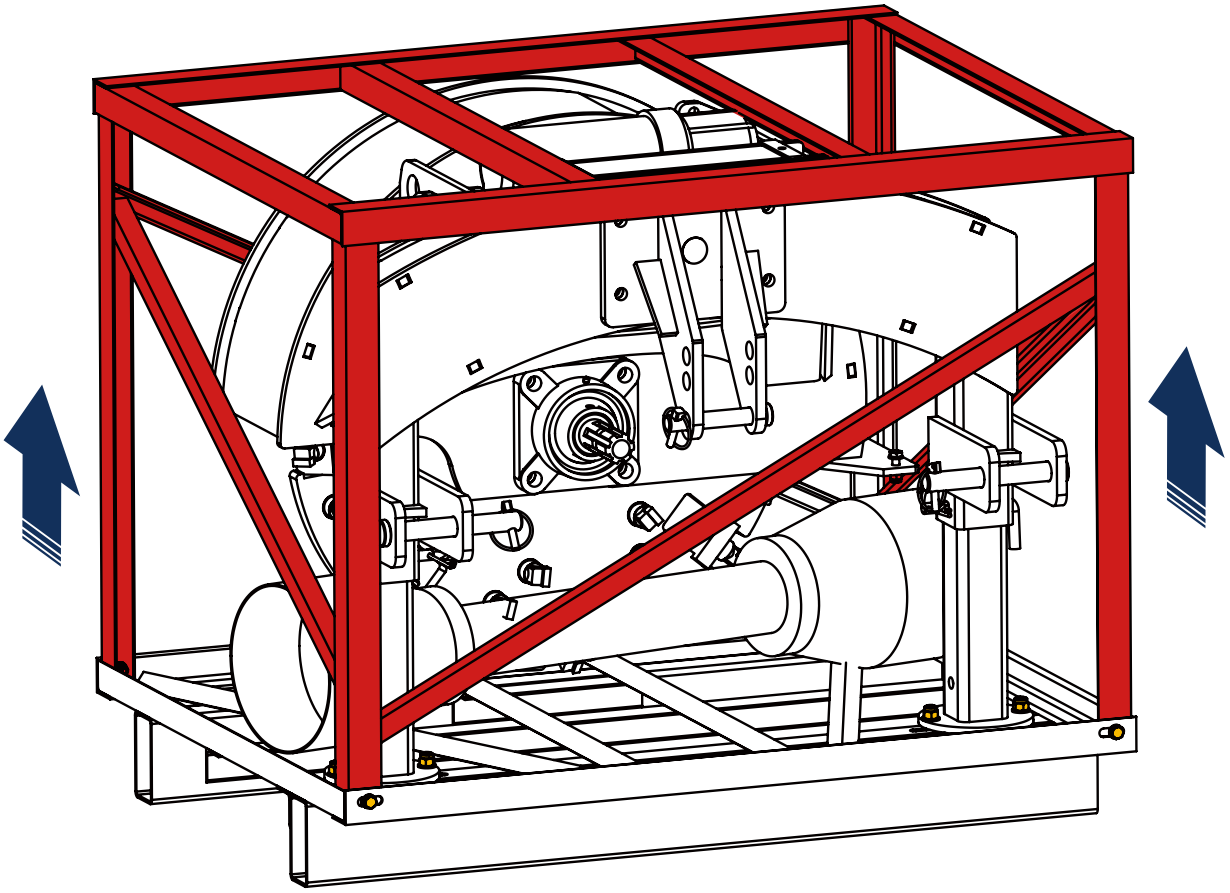
Identify hazards and take preventive steps to avoid accidents and minimize risk. Possible hazards include, but are not limited to, moving parts, thrown objects, weight of the machine and components, and the operating environment.

Thoroughly inspect the area in which you are working, keeping it clean and free of debris to prevent tripping. Operate on a flat level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation maintenance, repair, or moving.

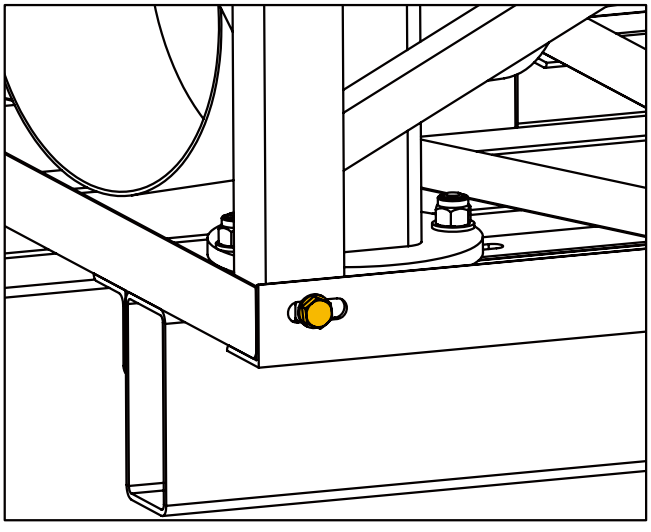
Keep all bystanders and pets at least 75 feet away. If you are approached, stop the unit immediately.

UNPACKING THE CONTAINER



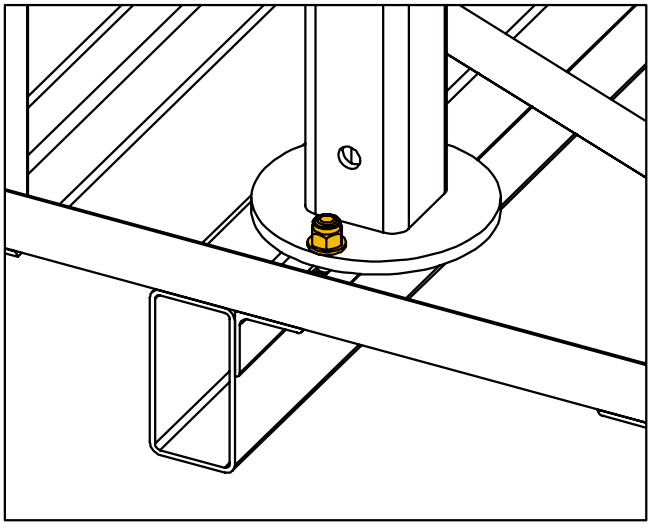
TOP FRAME

Unfasten the M8 X 20 mm hex bolts from the four (4) bottom corners of the crate and remove the top frame.



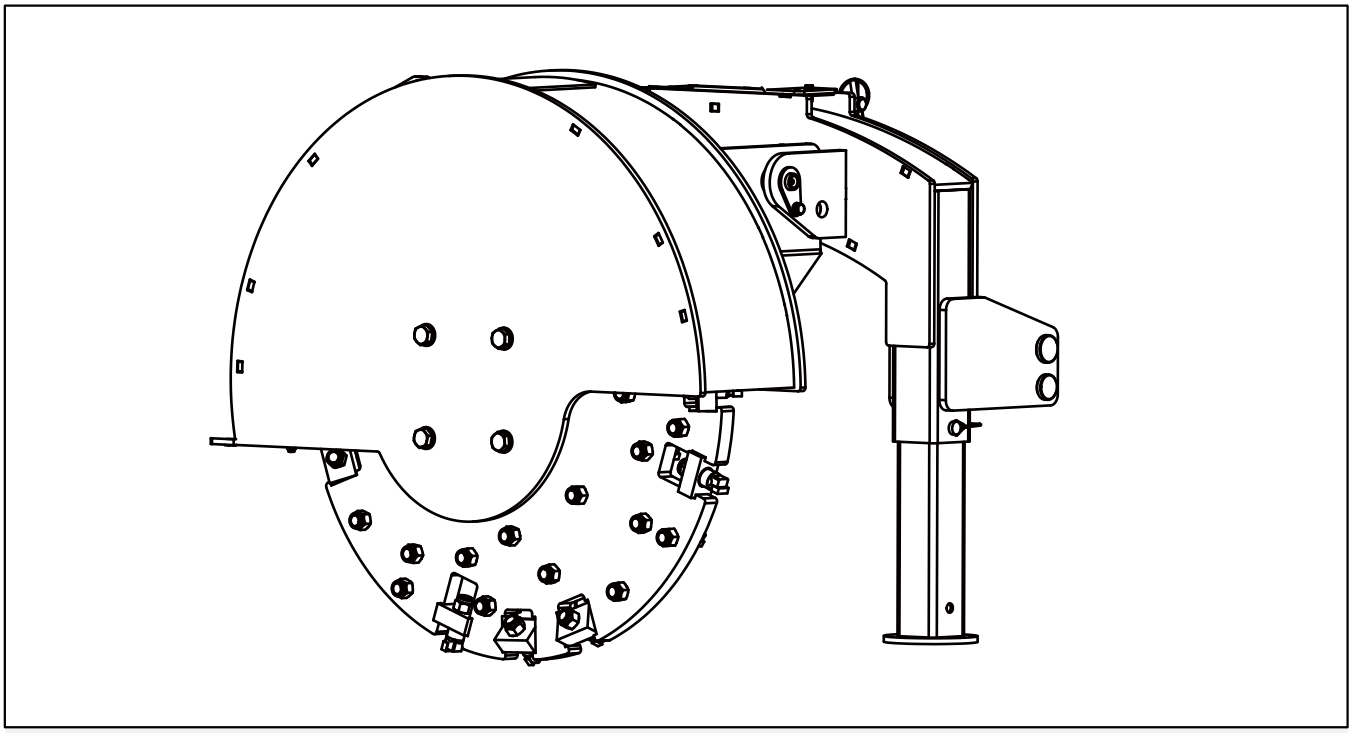
SUPPORT LEG

Unfasten the two (2) M10 × 25 mm hex bolts securing both support legs to the bottom crate frame.

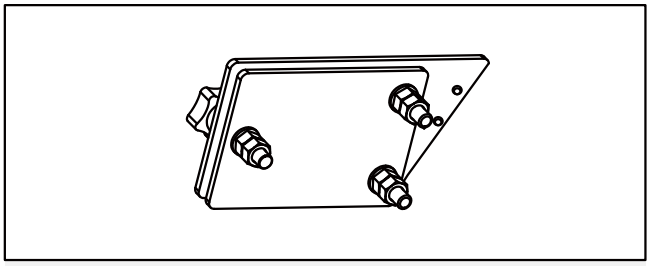


CONTENTS SUPPLIED

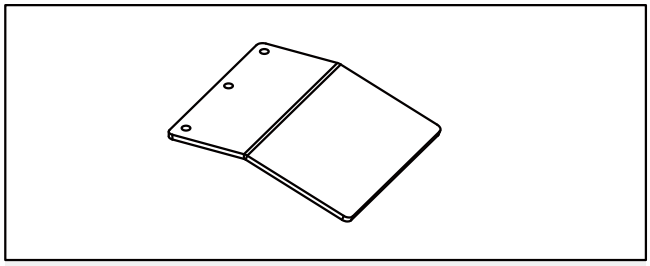
Your PTO Stump Grinder comes partially assembled and contains the following:



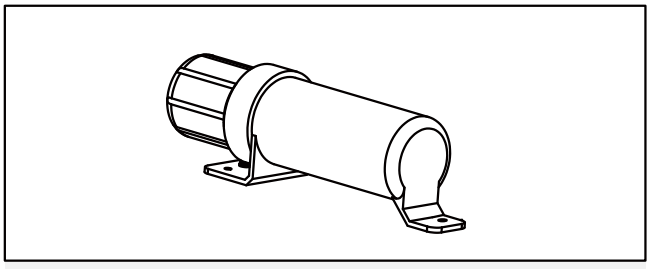
1x SG28 STUMP GRINDER



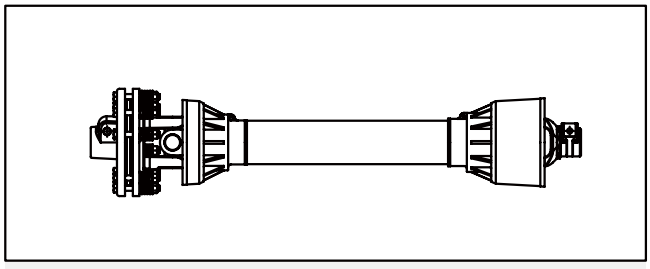
1x Chainsaw Holder Assembly



1x Deflector Plate



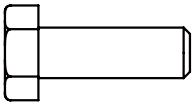
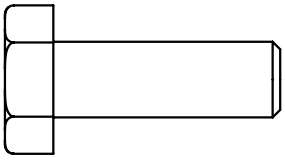
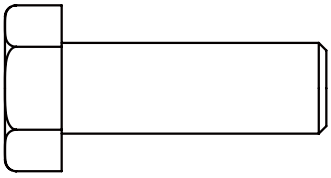
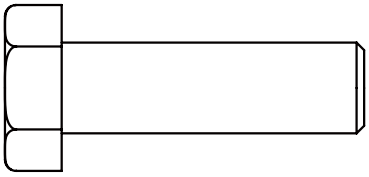
1x Manual Tube

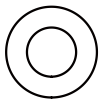
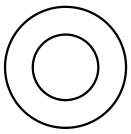
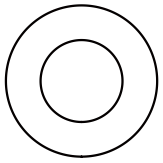
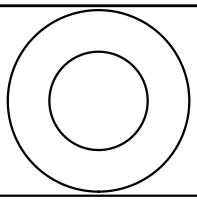


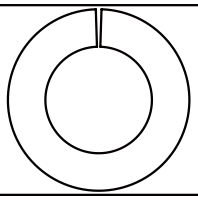
1x PTO Shaft

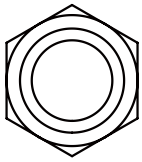
Verify all component and hardware quantities are correct prior to assembling the stump grinder.

TO-SCALE HARDWARE

Hex bolt M6 X 20mm 2X	
Hex bolt M8 X 30mm 3X	
Hex bolt M10 X 35mm 2X	
Hex bolt M12 X 40mm 4X	

Flat washer 6 6X	
Flat washer 8 6X	
Flat washer 10 2X	
Flat washer 12 4X	

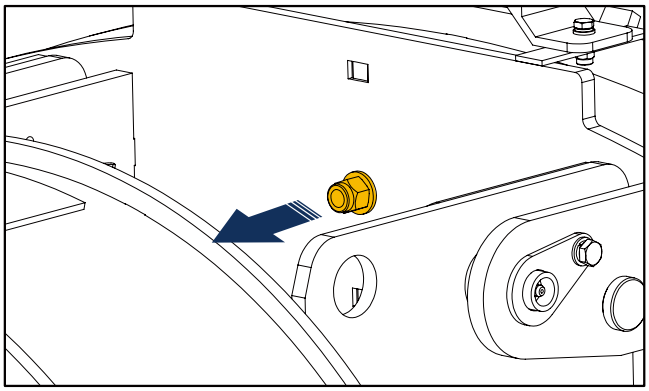
Spring washer 12 4X	

Hex lock nut M6 2X	
Hex lock nut M8 3X	
Hex lock nut M10 2X	

ASSEMBLY

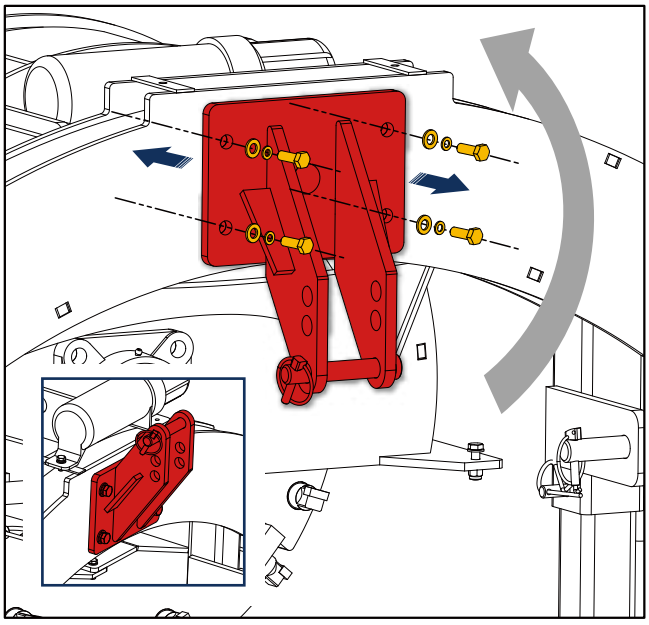
TOP LINK BRACKET

Loosen the nut on the front side of the back frame just enough so the top link bracket can be rotated 180° for the next assembly step.



Hex lock nut M12	

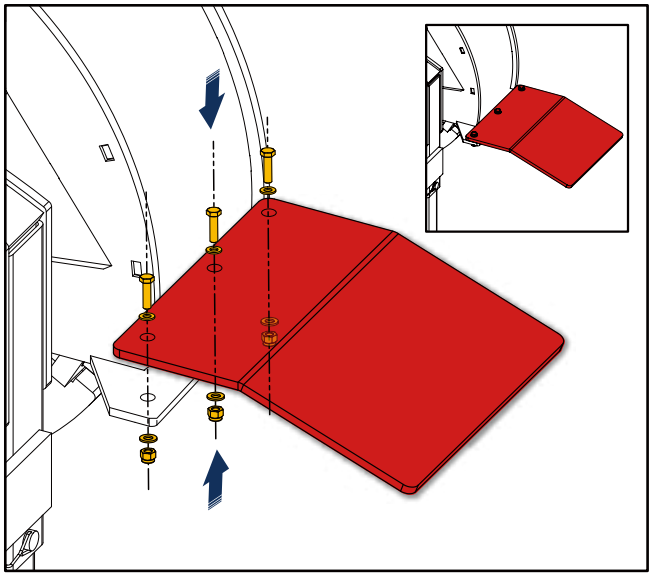
Orient the top link bracket so that it is rotated 180° from how it was shipped in the previous step.The hitch pin must be on top. Secure it to the back frame using four (4) M12 X 40 mm hexbolts, M12 flat washers,and Spring washer 12.



4X	Hex bolt M12 X 40mm	
4X	Flat washer 12	
4X	Spring washer 12	

DEFLECTOR

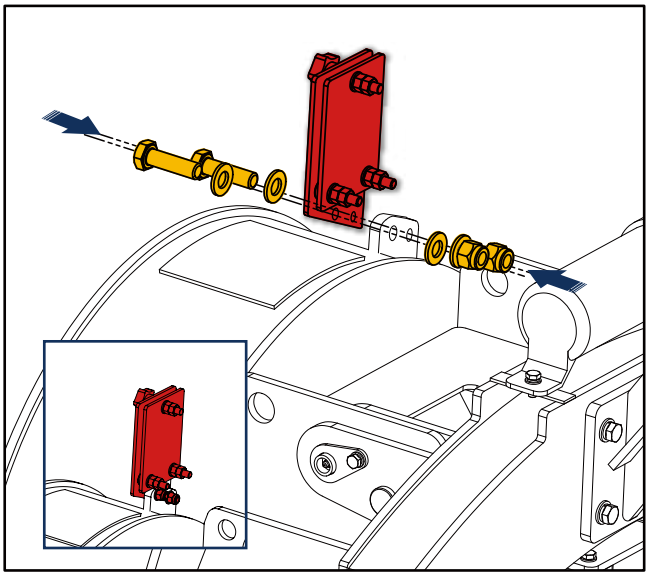
Using the hardware listed below, assemble the deflector to the flywheel housing as shown.



3X	Hex lock nut M8	
3X	Hex bolt M8 X 30mm	
6X	Flat washer 8	

CHAINSAW HOLDER

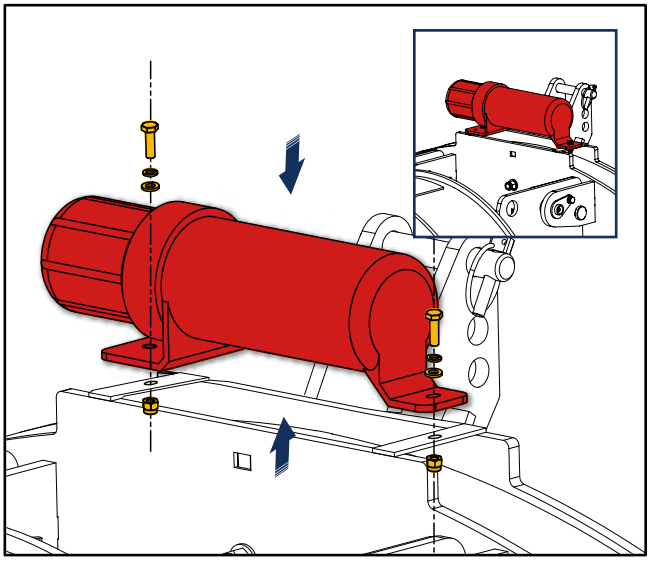
Using the hardware listed below, assemble the chainsaw holder to the flywheel housing as shown.



2X	Hex lock nut M10	
2X	Hex bolt M10 X 35mm	
2X	Flat washer 10	

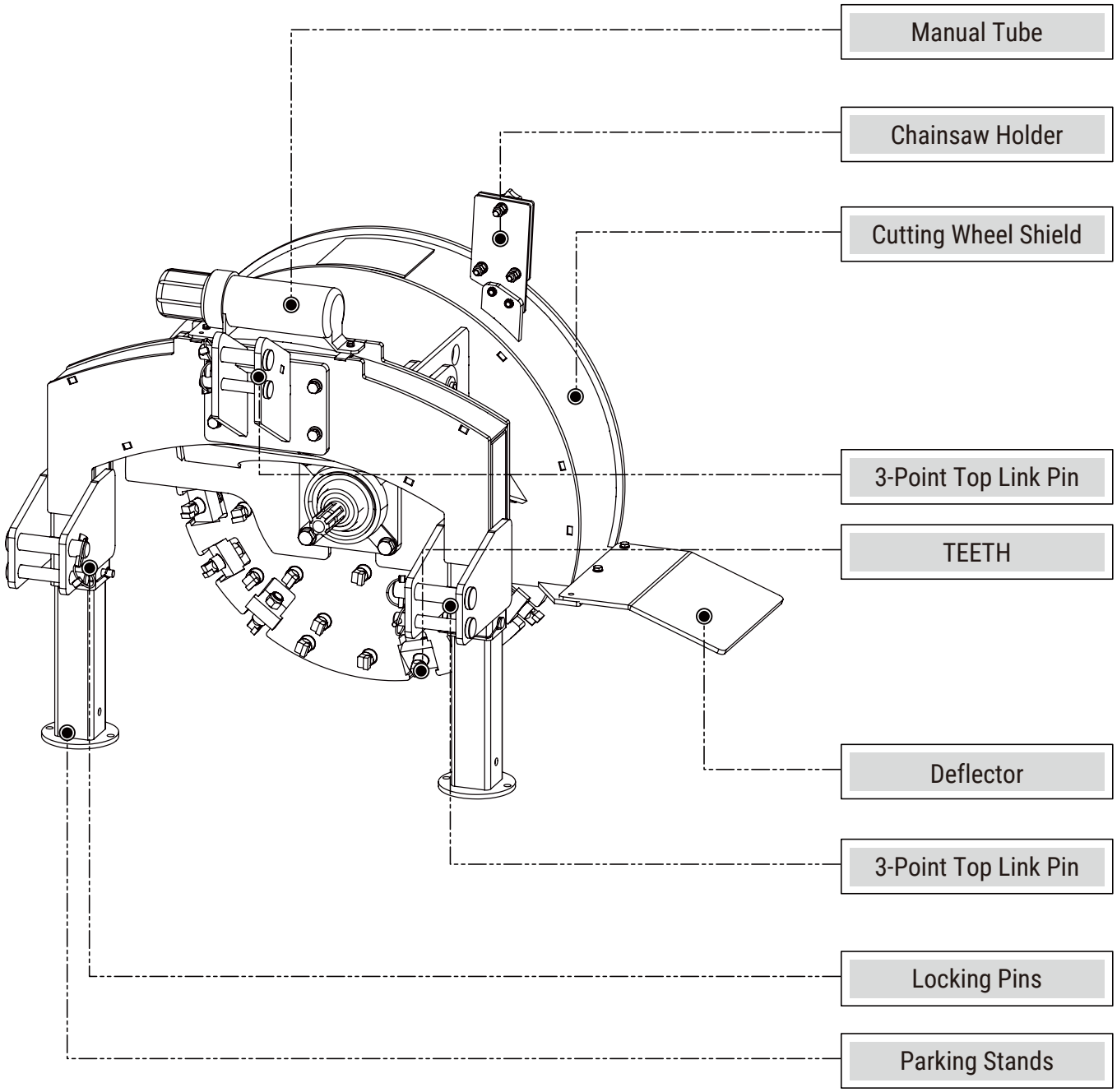
MANUAL TUBE

Using the hardware listed below, assemble the manual tube to the back frame as shown.Remove the cap from the manual tube to gain access to the centre mounting hole.



2X	Hex lock nut M6	
2X	Hex bolt M6 X 20mm	
2X	Flat washer 6	

KNOW YOUR MACHINE



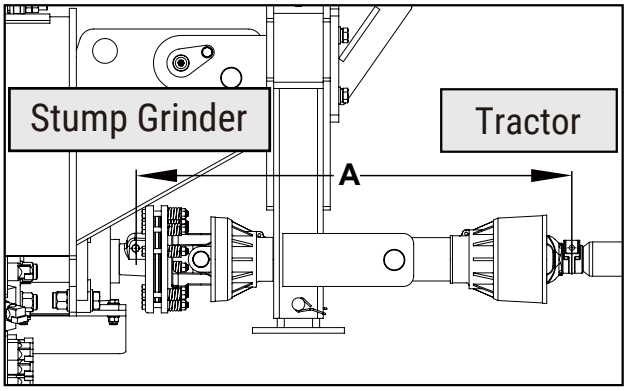
SET-UP PROCEDURES

TRIMMING THE PTO SHAFT

The stump grinder is shipped with a slip clutch PTO shaft that can be fitted to most Category 1 tractors. The PTO shaft may need to be trimmed depending on your tractor and configuration. Follow the steps below to ensure the PTO shaft is correctly fitted to your tractor.

Note: the slip clutch end of the PTO shaft mounts to the stump grinder.

- Attach the stump grinder to the tractor's 3-point hitch system. Do not install the PTO shaft.
- Raise the stump grinder so that the shaft on the tractor is in line with the shaft on the stump grinder.
- Measure the distance between the locking grooves on the splined shafts of the tractor and stump grinder (Dim A) as shown below:



Determine Driveshaft Length

Verify the distance between the locking pins on the PTO shaft while in the compressed state(Dim B) as shown in the image below. It should measure 34" (862.5 mm).

If Dim A is at least 1" (25 mm) longer than Dim B, the PTO shaft does not require trimming. It is recommended the shaft not be used if there is less than 6" (150 mm) of overlap between the two halves of the PTO shaft when the equipment is in the operating position.

If Dim B is longer than Dim A, the PTO shaft will require trimming. Use this equation to calculate the correct amount to trim:

(B- A) +1 inch =C (Amount to Trim)

Once C has been calculated, trim that amount from BOTH halves of the PTO shaft safety cover first, then trim the same amount from both shafts. This will ensure the safety cover on each end remains a few inches back from the ends of the shafts, otherwise PTO shaft reassembly could be difficult.



After trimming both halves of the PTO shaft, use a file to remove any burrs or sharp edges and slide the halves back together, ensuring they telescope in-and-out freely. The PTO shaft is now ready to connect the stump grinder to the tractor for operation.

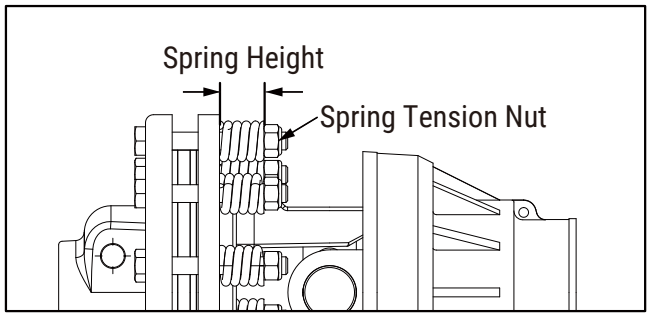
PTO SHAFT CLUTCH RUN-IN

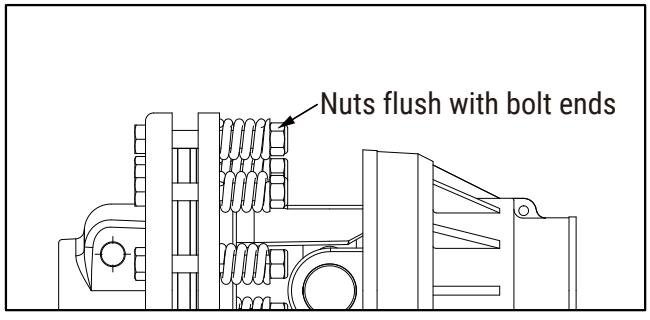
The stump grinder is shipped with a slip clutch PTO shaft. Follow the steps below before usingyour stump grinder to ensure the PTO shaft clutch plates are set properly.

This procedure should be performed periodically during ownership as the clutch plates can stick together, particularly after long periods of inactivity. This can prevent the plates from slipping during operation as designed, resulting in high loads and possible damage to the steel shaft, which is not covered under warranty.

⚠ Entanglement in a rotating driveshaft can cause serious injury or death.Disconnect and lockout power source before adjusting or servicing.

- Connect the PTO shaft to the stump grinder and tractor with the clutch end of the PTO shaft mounted to the stump grinder. Insert the locking pin on the clutch yoke and tighten the nut using a wrench/socket.
- Using a coloured pencil or marker, scribe a line across the exposed edges of the clutch plates.
- Using a wrench/socket, loosen all 8 spring tension nuts uniformly until the ends of the nuts are flush with the ends of the bolts .



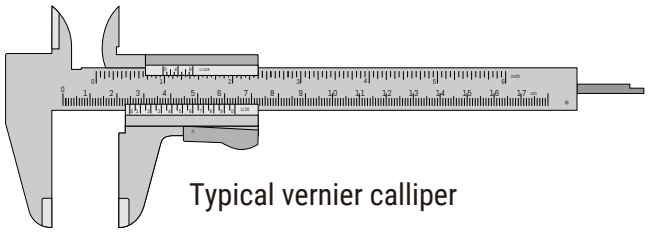


- Tighten all 8 nuts until the proper spring height dimension values are achieved per the "PTo Shaft Clutch Spring Height vs. Horsepower" table for your PTO output horsepower. It is recommended that a calliper (either digital, dial, or vernier-similar to the one shown below) be used to accurately verify the spring height measurements. After setting all 8 spring heights, the clutch is now ready for use.

PTO Shaft Clutch Spring Height vs. Horsepower

Clutch Flange Dia	PTO hp	Spring Height
7-5/8" (200 mm)	35-80 hp	1.16 in (29.5 mm)

All ratings are at 540 rpm PTO speed

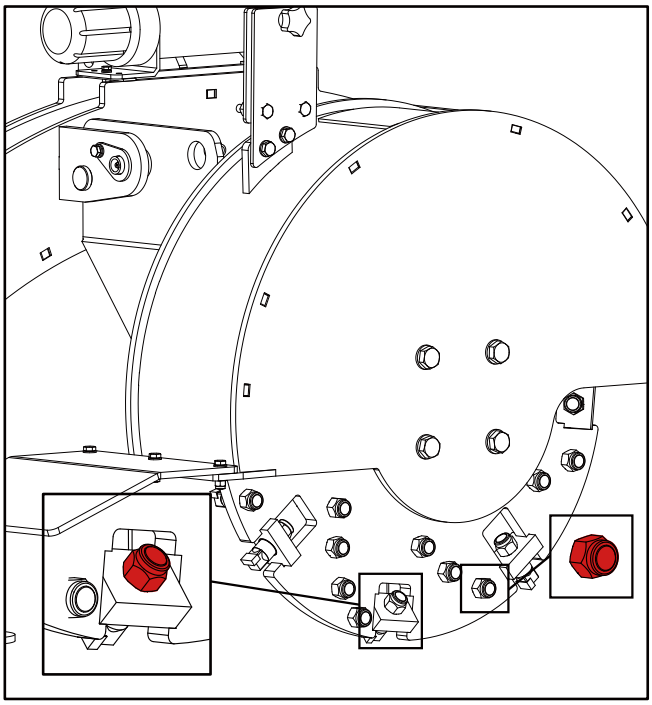


Typical vernier calliper

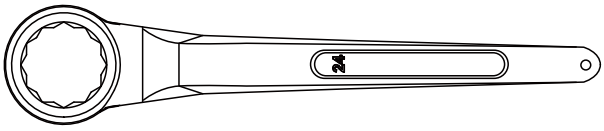
- The clutch should be checked during the first hour of use and periodically each week thereafter. Excessive clutch plate slippage, burning odour, or visible smoking should not be observed during use.

FLYWHEEL TOOTH TORQUING

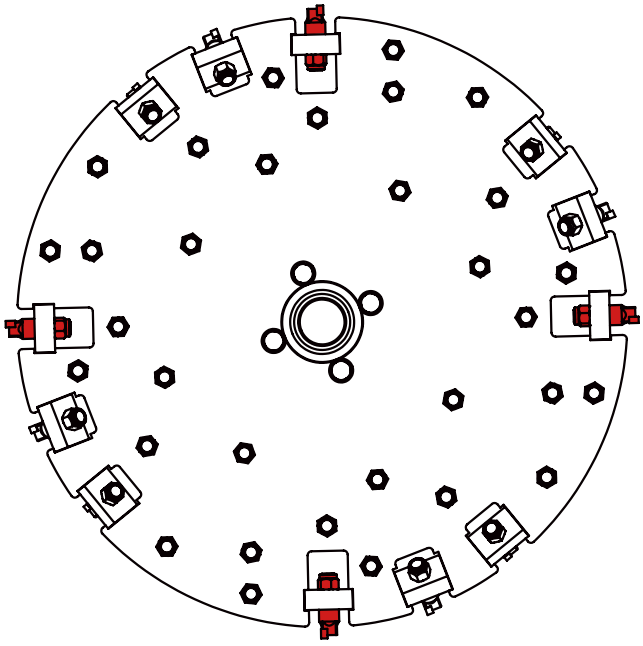
Prior to each operation, be sure to tighten all 44 teeth using a ring spanner with a 24 mm socket.



TORQUE ADAPTER



Slide the ring spanner over the nut and torque the nut by rotating it clockwise. Repeat the process for all four (4) of the outward-pointing teeth.



OPERATION

PRE-START CHECKLIST

Check these items:	Frequency
Check the three lynch pins on the hitch to verify they are securely fastened.	Each operation.
Verify the pins on each end of the drive shaft are secured.	Each operation.
Verify the safety chains on the drive shaft are securely attached to the cover.	Each operation.
Grease pivot pins	Each operation.
Verify the cutting tips on the cutting wheel are tight.	Every 4 hours.

STARTUP

PREPARATION FOR USE

> The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product but must be supplied by the operator.

> Wear an approved dust mask or respirator.Follow local, state and federal regulations.

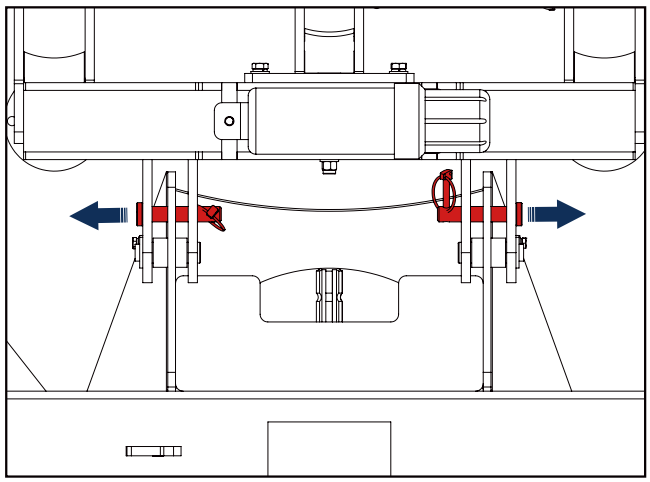
Although the stump grinder has been carefully inspected and checked prior to shipment from manufacturer, it is recommended that the unit be thoroughly inspected. Check all bolts for tightness and remove all shipping tags, bags, skids, and blocking. Remove any masking materials affixed during painting. Inspect the tractor and any accessory equipment to verify that nameplates and all safety warning, caution signs and decals provided with the equipment are in place and clearly visible. Verify the three lynch pins are securely fastened. Visually inspect the unit before each start up. Check for loose or missing parts and any damage that may have occurred during moving or shipping.

Review all tractor pre-start instructions, and ensure that all recommended steps and procedures have been followed. Never bar over the rotor, This could cause damage and result in personal injury or equipment damage.Note: Always keep the weight of the machine in mind. Never position body in line of impact.

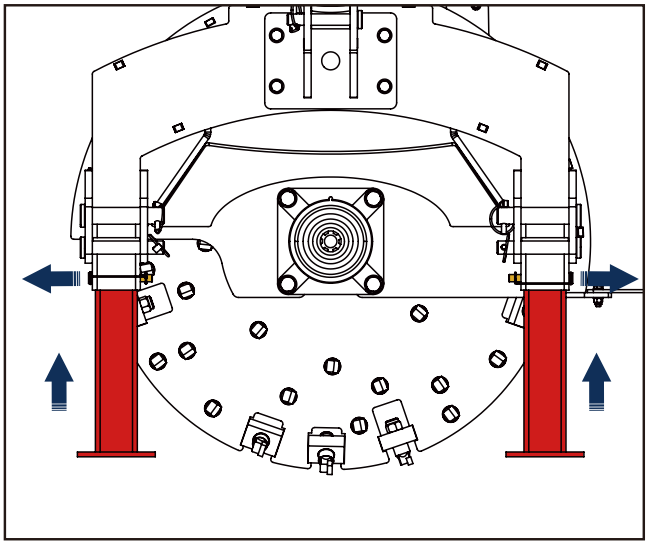
ATTACH STUMP GRINDER TO TRACTOR

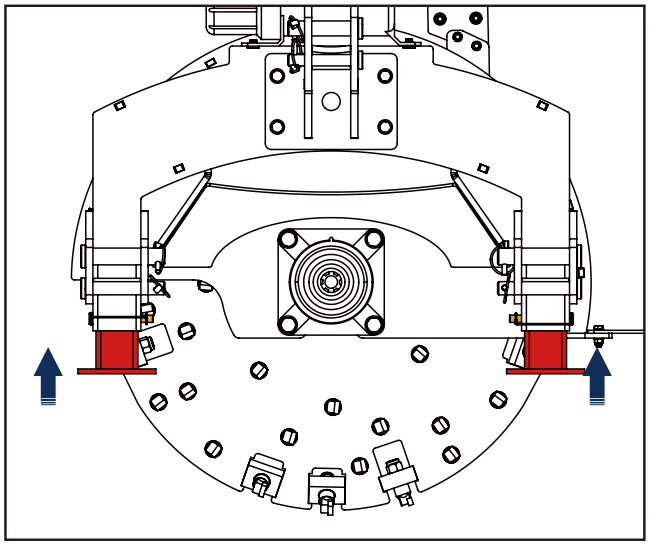
To prevent injury or machine damage put transmission in "Park" and check the full range of hitch for interference, binding or PTO separation.Never position yourself between tractor and stump grinder.Only experienced and properly trained operator's should operate the tractor and stump grinder.

- Check for loose teeth or any other loose parts.
- Verify there is sufficient visibility and maneuverability to move up to stump grinder.
- Remove the stabilizer pin prior to operation as shown below:

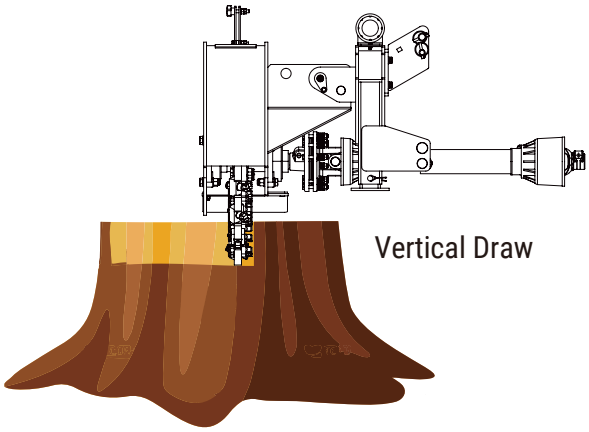


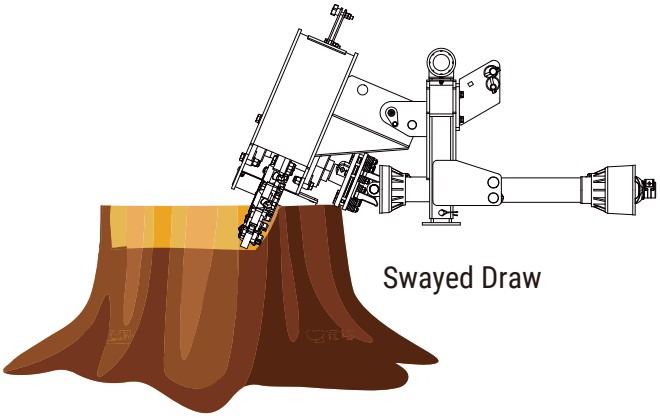
- Remove the leg locking pins, slide the legs up inside the tubes, and reinstall the locking pins to secure them in place.





- Reverse over a tree stump and lower the stump grinder so it will remove 2" (50 mm) perpass. Always ensure the grinder is cutting properly and not jumping around erratically
- Once the stump is at ground level, continue to take up to 2" (50 mm) deep passes until the stump and roots are 4-6" (100-150 mm) below grade. Keep a watch out for foreign objects below the soil like rocks or buried metal. These can damage or break the teeth resulting in poor grinding performance.
- During operation, never allow the stump grinder to sway to an extreme angle that fully compresses the suspension. The SG28 stump grinder is designed to operate while being pulled through a stump in a swayed draw orientation; however, grinding efficiency decreases as the amount of sway increases.
- If the tractor advances faster than the flywheel can remove material, or if excessive material is removed in a single pass, immediately stop forward movement and allow the stump grinder to return to a vertical draw position. Reduce travel speed and/or take a shallower cut as necessary.





STUMP GRINDING PROCEDURE

Observe all operating and safety instructions in thismanual and those on the Stump Grinder before using this machine.

When engaging and disengaging the PTO, the engine speed should always be low. Once the PTO is engagedand ready to start cutting, raise the PTO speed to 540 RPM and maintain throughout stump cutting operation. ALWAYS operate the PTO at 540 RPM. This is necessary to maintain proper wheel speed to obtain a clean, smooth cut. Do not disengage PTO when the engine is at full PTO RPM. Always bring the tractor engine to idle speed before disengaging the PTO.

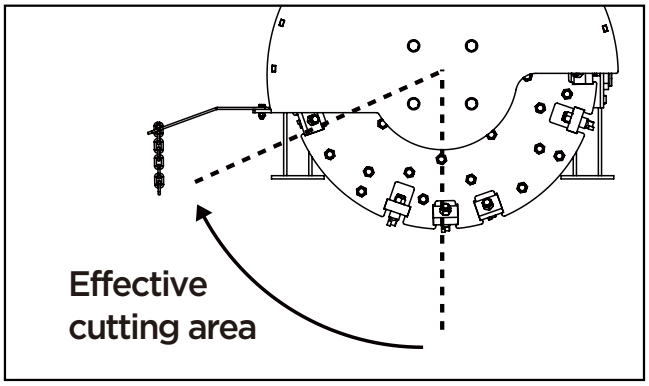
> ⚠ Before moving the machine into position, remove loose chunks of wood, stones, wire, and other debris from the stump and work area that might be thrown, causing injury or damage.

> ⚠ When cutting a stump, the operator must wear eye protection and must stay on the power unit seat.

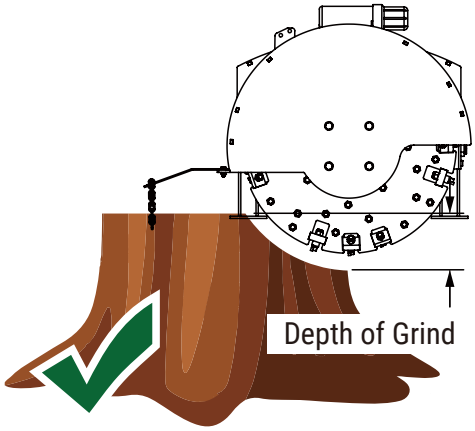
Start the wheel on the edge of the stump and engage the side hydraulic cylinder to make a light cut across the stump.

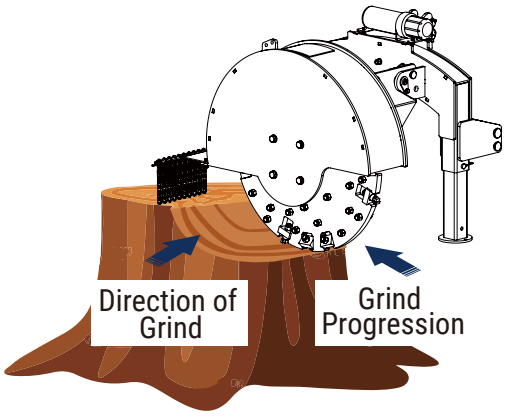
When the first cutting pass is complete, raise the cutting wheel slightly with the depth control cylinder and then activate the side control cylinder to move the wheel back to the start position.

The flywheel spins clockwise (when facing the rear of the machine) with the effective cuttingarea in the lower-left quadrant as shown below:



When grinding a tree stumpalways start from the right side of the stum, moving incrementally to the left, pulling the grinder straight forward through the stump on each pass. When grindi softwoods like pine, spruce, or poplar, it may be permissible to remove upwards of 2" (50 mm) of material per pass. However, hardwoods like oak, ash, and birch can be much more dense and the depth of grind may only be up to 1" (25 mm). If the chassis is swaying like described in the previous section, or the grinder is vibrating or bouncing, reduce the depth of cut or fee rate accordingly.

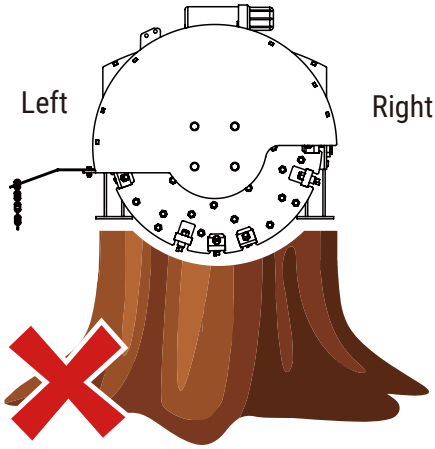


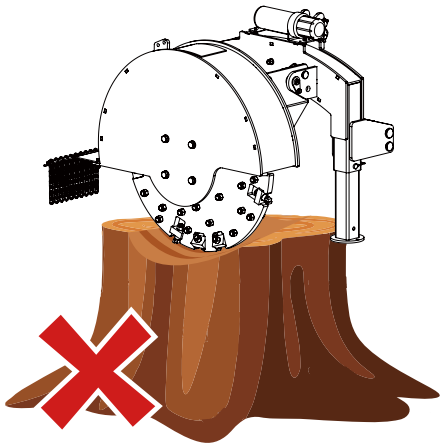


INCORRECT GRINDING PROCEDURES

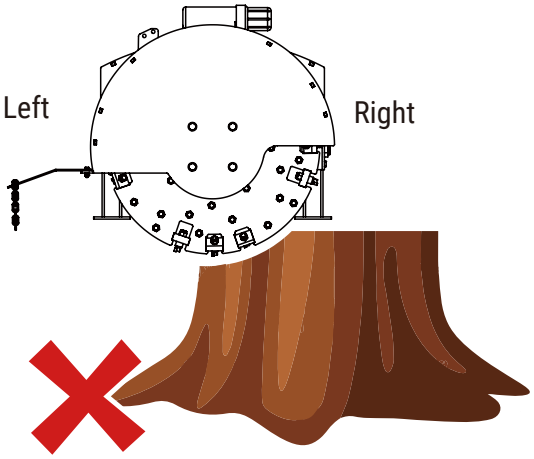
It is critical that the stump grinder is never pulled through the centre of a stump or ground from left-to-right. This will induce severe vibration and cause the grinder to sway and bounce. It may also damage the machine and/or break teeth.

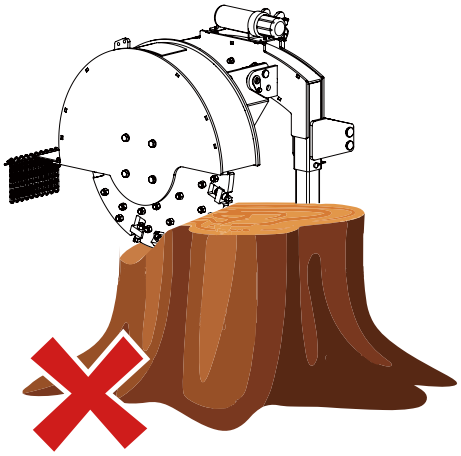
PULLING THROUGH THE CENTRE





GRINDING LEFT-TO-RIGHT





MACHINE USE AND CARE

Always be sure the operator is familiar with proper safety precautions and operation techniques before using machine.

Do not force the machine. Machines do a better and safer job when used in the manner for which they are designed.

Storing the machine. When the machine is not in use, store it in a dry, secure place or keep it well-covered and out of the reach of children. Inspect the machine for good working condition prior to storage and before each use.

Maintain the machine. It is recommended that the general condition of the machine be examined before it is used. Keep your machine in good working order by adopting a program of conscientious repair and maintenance in accordance with the recommended procedures found in this manual. If any abnormal vibrations or noise occurs, turn the machine off immediately and have the problem corrected before further use.

Cleaning. Use a pressure washer to clean the carbide teeth while taking care not to pressure-wash the bearings as this could introduce water into areas of the machine that may cause malfunction or damage.

Use only accessories that are recommended by the manufacturer. Accessories that may be suitable for another machine may create a risk of injury when used on this machine.

Always operate the machine with all safety devices and guards in place and in good working order. DO NOT modify or make changes to safety devices. DO NOT operate the machine if any safety devices or guards are missing or inoperative.

Never leave the machine running unattended.

Never use the machine to grind anything other than stumps or for any purpose other than grinding stumps as described in this manual.

MAINTENANCE

Proper routine maintenance is critical to operator safety, achieving proper stump grinding results, and prolonging the life of the machine.

Before cleaning and/or any maintenance is performed on the stump grinder, always turn off the tractor engine and disconnect the PTO shaft.

Inspect the machine before each use for loose nuts and worn cutting teeth and clean any debris that has built-up.

After 2 hours of operation, check for loose nuts and worn cutting teeth. Tighten and replace as necessary.

Grease the bearings and the pivot pins on the main housing as needed before each use Do not over-grease the bearings as this can blow out the seals and cause premature bearing failure. Refer to section, GREASING, for information.

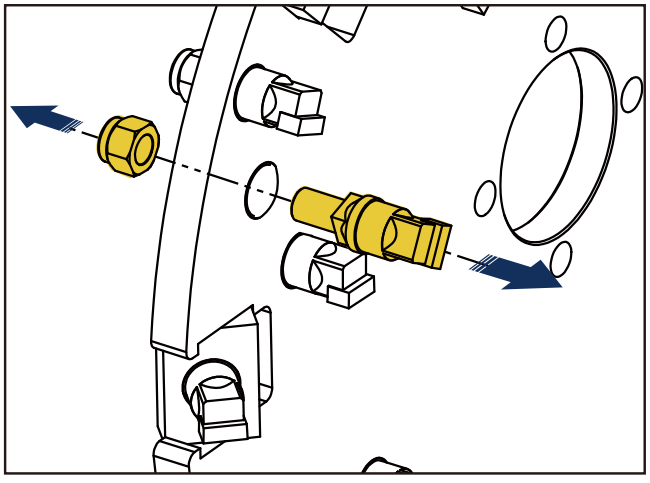
Inspect the clutch plates on the PTO shaft periodically to ensure that they are not seized together.

REPLACING TEETH

Disconnect the PTO shaft from the tractor and set the stump grinder on a flat, level surface.

Remove the M16 X 1.5 lock nut (fine thread) from the back of the tooth using a 24 mm wrench or socket.

Remove the worn cutting tooth while noting its orientation so that the replacement tooth will be installed in the same manner.

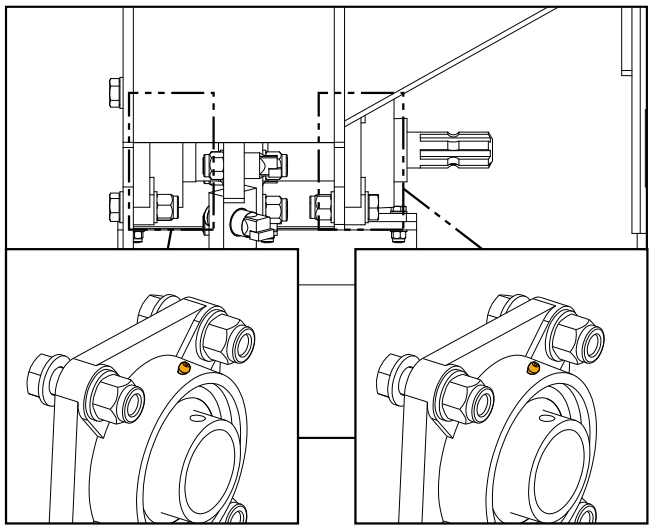


Install the replacement tooth and lock nut using a torque wrench set to 160 ft-lb (215 N-m).

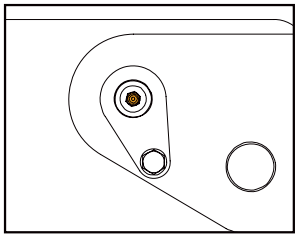
GREASING

The stump grinder has six (6) grease points: two (2) flywheel bearings, two (2) hinge pins, and two (2) on the PTO shaft. Check each grease point prior to use and add grease as needed.

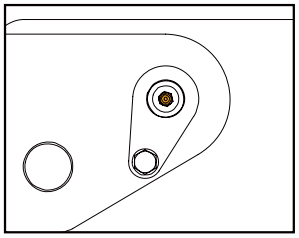
Warning: These grease points come pre-greased from the factory. Do not add grease to these points on a new stump grinder. Over-greasing can damage the bearing seals.



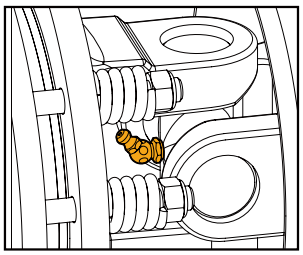
Flywheel Shaft Bearings (Underside of Flywheel Housing)



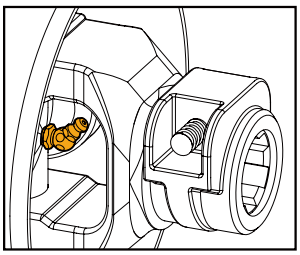
Right Pivot Hinge



Left Pivot Hinge



PTO Shaft: Slip Clutch End



PTO Shaft: Tractor End

TROUBLESHOOTING

PROBLEM	CHECK	SOLUTION
Cutting wheel does not spin.	Cutting wheel jammed.	Remove material from cutting wheel.
	Slip clutch is slipping.	Remove jam from cutting wheel.
Tractor is not able to lift 3-point.	Tractor is too small.	Move link pins to the top position on the stump grinder to add leverage.
Cutting wheel cannot be lifted high enough.	Stump too tall.	Cut stump shorter. Shorten top link on 3-point hitch.
Cutting wheel cannot be lowered far enough.	Top link not correct length.	Lengthen top link on 3-point hitch.
Cutting wheel does not have much power.	Tractor too small.	Verify tractor is properly sized for grinder.
	Slip clutch is slipping.	Check to determine if the slip clutch is hot. Use Caution: This Can Be Very Hot! A hot clutch does NOT grip. Slippage on the clutch occurs if there is more power than the unit is rated for. A bigger tractor can be used if it is idled down as this will decrease the output power of the engine. Take smaller passes (less cutting) to decrease the strain on the clutch. Turn the flow control knob to a lower number to reduce the strain on the slip clutch.

STORAGE

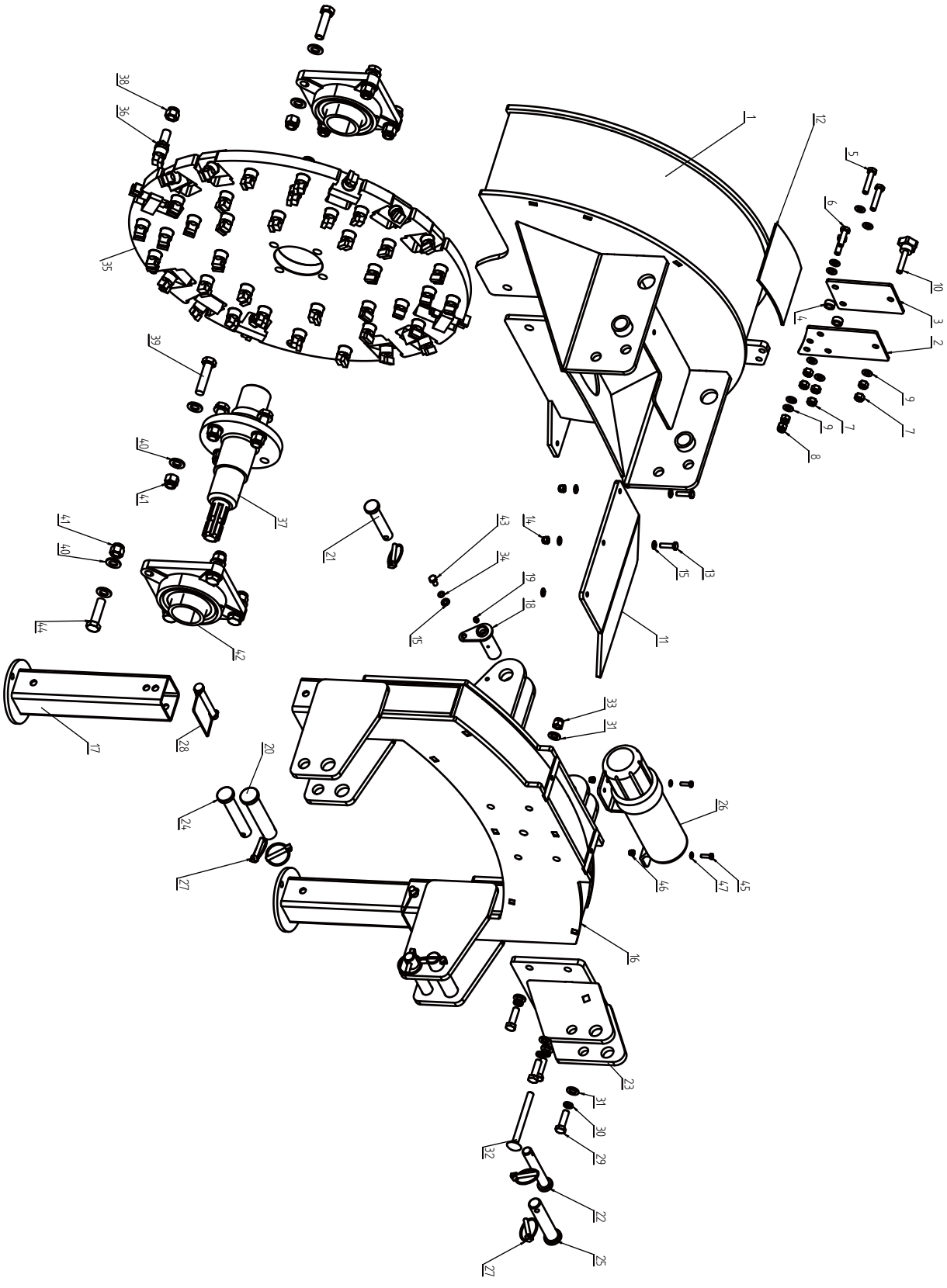
STORING GRINDER

- Store grinder in a dry place.
- Clean grinder thoroughly. Dirt and wood chips will draw moisture and cause rust.
- Lubricate machine. (See Service and Maintenance section.)necessary. (See Service and Maintenance section.)
- Check condition of cutting teeth. Replace as
- Check for loose or missing hardware.
- Paint parts as necessary.
- Store PTO driveshaft off the ground.

REMOVE FROM STORAGE

- Review Operator's manual and check adjustments.
- Lubricate machine. (See Service and Maintenance section.)
- If parts have been replaced, verify they run properly.

PARTS DIAGRAM



PARTS LIST

NO.	Description	Qty
1	Main body weldment	1
2	Clamp plate 2	1
3	Clamp plate 1	1
4	Retaining ring	2
5	Hex head bolt, fully threaded M10×50	2
6	Hex head bolt, fully threaded M10×35	2
7	Hex nut M10	6
8	Nylon insert hex lock nut M10	2
9	Flat washer, Grade A 10	9
10	Hand-tightened star knob bolt	1
11	Guard plate	1
12	Rubber pad	1
13	Hex head bolt, fully threaded M8×30	3
14	Nylon insert hex lock nut M8	3
15	Flat washer, Grade A 8	8
16	Bracket	1
17	Support leg	2
18	Pivot shaft	2
19	Straight grease fitting M6	2
20	Pin 28-140	2
21	Pin 20-110	2
22	Pin 19-125	1
23	Lug plate assembly	1
24	Pin 22-140	2
25	Pin 25-125	1
26	Large document tube	1
27	Ring pin Q8	8
28	Square locking pin	2
29	Hex head bolt, fully threaded M12×40	4

NO.	Description	Qty
30	Standard spring washer (assembly) 12	4
31	Flat washer, Grade C 12	5
32	Round head square neck bolt M12×130	1
33	Nylon insert hex lock nut M12	1
34	Standard spring washer (assembly) 8	2
35	Cutter disc	1
36	Cutter blade	44
37	Cutter disc main shaft	1
38	Nylon insert hex lock nut M16	44
39	Hex head bolt M16×70	4
40	Flat washer, Grade A 16	24
41	Nylon insert hex lock nut M16	12
42	Square flange bearing	2
43	Hex head bolt, fully threaded M8×16	2
44	Hex head bolt, fully threaded M16×55	8
45	Hex head bolt, fully threaded M6×20	2
46	Nylon insert hex lock nut M6	2
47	Flat washer, Grade C 6	2

MechMaxx

info@mechmaxx.com