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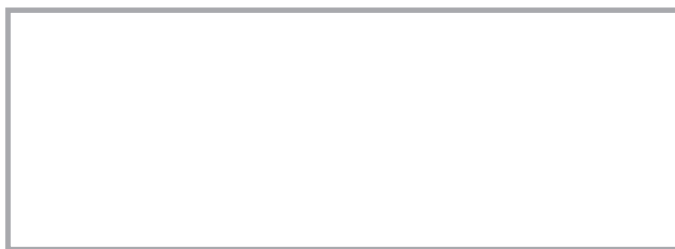
Operating Instructions

Groundnut Digger



Operating Instructions

Groundnut Digger



Dealer's information

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IDENTIFICATION

The identification plate on the machine shows the following information:

- Manufacturer's Name
- Serial number
- Model
- Weight
- Year
- Power
- Size



These data are very important to check the compatibility between the machine and the tractor and when ordering spare parts.

OPERATOR'S PREREQUISITES

To avoid danger to himself or others, the operator must have the appropriate:

1. **Physical condition:** Have good sight and hearing, Capacity to carry out all operation required.
2. **Mental condition:** Capacity to understand, be responsible and careful when using the machine.
3. **Training:** The user must have read and understood this booklet, the symbols shown on the machine and qualified to operate the tractor and the implements attached to it.

GENERAL SAFETY INSTRUCTION

During operation keep away from rotating parts and PTO shaft do not remove safety guards during operation or with the engine running.

1. Servicing lubrication etc. should be carried out with the engine stopped, the brakes applied and locked and the starter key removed. Once the machine is raised do not work underneath it unless supported securely.
2. When travelling on the public road disconnect the PTO shaft and carefully follow traffic regulations of your Country
3. When lifting the machine always use appropriate lifting gears attached to the lifting eyes on the machine.
4. The operator should be experienced, in good health to avoid dangers to himself and others and wear appropriate working garments to avoid injuries.
5. Do not work when dark unless suitable lighting is available.

WORK CLOTHING

The operator must wear the following protective garments:

1. Working gloves
2. Overall of appropriate size
3. Protective glasses
4. Protective helmet
5. Working boots

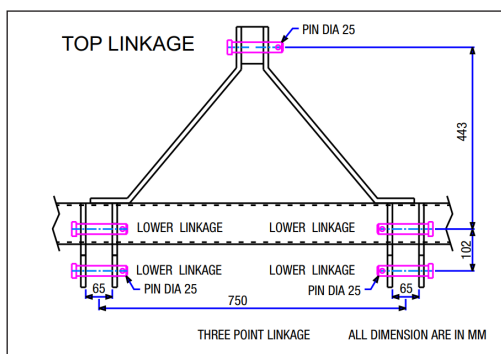
INSTRUCTIONS FOR USE

ATTACHING MACHINE TO TRACTOR

The groundnut digger can be used with any type of tractors with a three point linkage. Read the tractor's instruction manual before attaching the machine to the tractor. On a flat surface, reverse tractor to the machine, stop the engine, apply the brakes, attach the lower links first and then the top link. Before attaching the machine to the tractor, adjust the brackets to match the tractor arms distance.

1. Remove the safety pins from the hitch pins. Position the tractor arms between the lower linkages and secure them with the hitch pins. Refit the safety pins.
2. Position the top link arm between the top linkage plates and insert the hitch pin. Refit the safety pin. Adjust the top link so that when in operation the machine is parallel to the ground. Lock the top link.
3. Adjust check chains or links in order to allow only a minimum sideways movement.
4. To Shaft length - If necessary, cut the PTO shaft to the right length following the shaft manufacturer instructions. Prior to cutting the shaft, ensure that a minimum of 100mm overlap is achieved and ensure that the sliding halves of the PTO shaft do not "bottom" when in work.

Check that the guard's chains are properly secured. Insert one end of the drive shaft into the machine input shaft. If the shaft is fitted with a clutch, this must be installed on the implement end. Re-fit the P.T.O. guard and insert the other end of the drive shaft into the tractor's P.T.O. and make sure that the locking pin is correctly located. Check that the guards chains are properly secured.



TOP LINK ADJUSTMENTS

Adjust the top link to position the machine parallel to the ground when in work.



LOWER LINK ADJUSTMENTS

The lower linkages can be positioned in order to fit tractors with different linkages. Remove the pins and swap the brackets left to right.

— | Hitch Pins

MACHINE ADJUSTMENTS

The working depth of machine's digging teeth is controlled by the handle.



ADJUSTMENT OF DIGGING TEETH & CONVEYOR

To adjust the height of Conveyor :

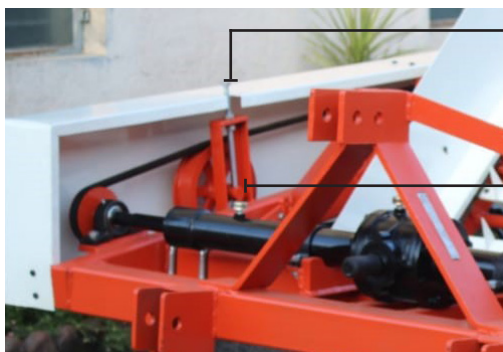
1. Lift the machine with the tractor
2. Unlock Chain from slot
3. Pull/Push the Handle according to the required depth
4. Then lock the Chain in slot



WHEEL ADJUSTMENT

To adjust the machine level:

1. Remove the bolt
2. Adjust wheel part by up/down
3. Then tighten bolt and relocate the bolts making sure to use the same hole on each support



V-BELT ADJUSTMENT

Loose/tighten the bolt indicated in the photo:

1. Clockwise to tighten the belt
2. Counter clockwise to loosen the belt



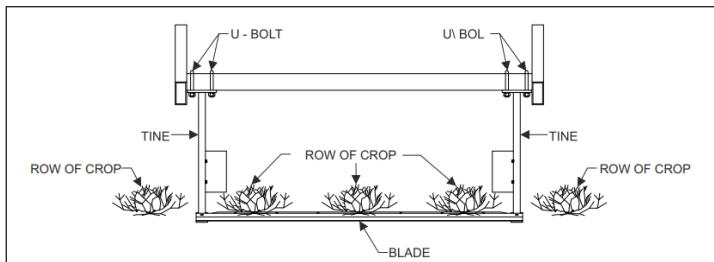
ADJUSTMENT OF CHAIN

Loose/tighten the bolt indicated in the photo:

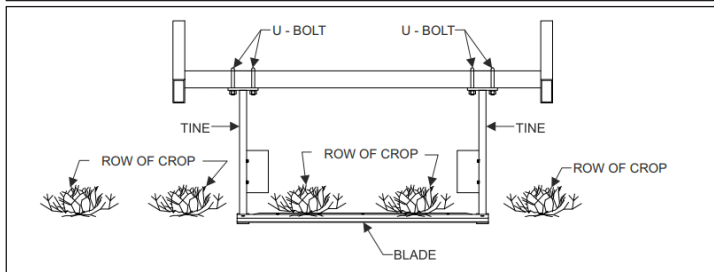
1. Clockwise to tighten the chain
2. Counter clockwise to loosen the chain

BLADE SETTING AS PER RAW DISTANCE

1. Raise and properly support (with blocks or jack stands) the front of digger
2. Loosen four nuts holding the plow shank U-bolts
3. Move tine inside set it in center of two raw as shown in 2nd image
4. Both tine are set in the center of machine show in 2nd image
5. Tighten the plow shank U-Bolt nuts



1st image



2nd image

IN THE FIELD

After all the adjustments are carried out and the machine is properly attached to the tractor, the machine is ready to be used.

1. Lower the machine to 5 cm off the ground.
2. Engage the tractor's PTO and start the machine.
3. Lower the machine.
4. Increase the engine speed to obtain a PTO speed of 540 rpm.
5. Engage a suitable gear and start to move forward.
6. During work always drive in a straight line.
7. When turning, lift the machine to avoid side strain to the parts in touch with the ground.

ROAD TRANSPORT

When transporting the implement on a tractor on public roads ensure that you comply with the relevant regulations:

- Class of roads permitted for travel may be restricted.
- Transport may restricted to daylight or off peak traffic hours.
- Signs indicating width may be required.
- Lights indicating vehicle width if transported within the hours of darkness may be required.
- If in doubt, contact your government department responsible for road transport.

Observe the tractor manufacturers regulations and recommendations specifically those relating to:

- Maximum transport loads.
- Maximum speed

Secure the Digger for transport:

- Disengage the PTO when transporting.
- Ensure all hitch pins are correctly fitted with retaining pins.
- Mechanically secure hydraulic cylinders to prevent cylinders creeping

Passengers:

- Do not allow passengers to ride on the tractor unless a specific seat is provided.
- Do not allow anyone to ride on the implement when it is being transported.

Consider other road users:

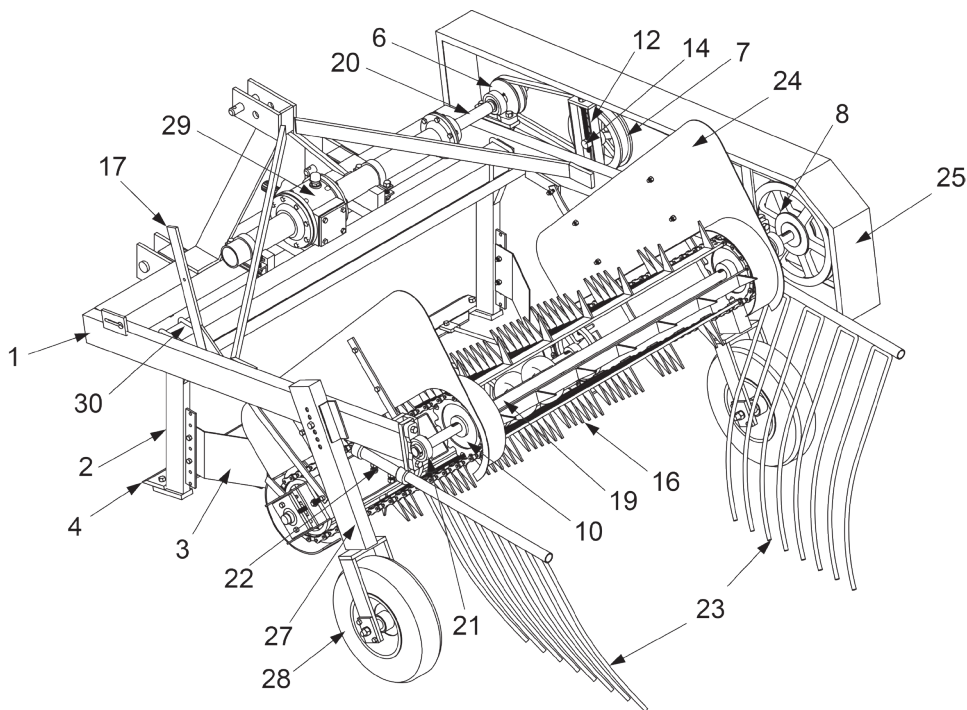
- Plan your route to avoid heavy traffic and peak traffic periods.
- Be a safe and courteous driver. Give way to oncoming traffic in all situations, including narrow bridges, intersections etc.

Adopt safe driving practices:

- Lock tractor brake pedals together. Never use independent braking at transport speeds.
- Drive at a safe speed to ensure control and ability to stop in an emergency. Ensure the additional weight of the harrow on the linkage does not compromise steering and braking - for example front weights or repairs to the brakes may be required if the tractor is not safe to drive.
- Reduce speed during turns. Tractors have not been designed for fast cornering.
- Use engine braking when going down hills - do not coast.
- Do not drink alcohol and drive.

Watch for obstructions, particularly if over-width.

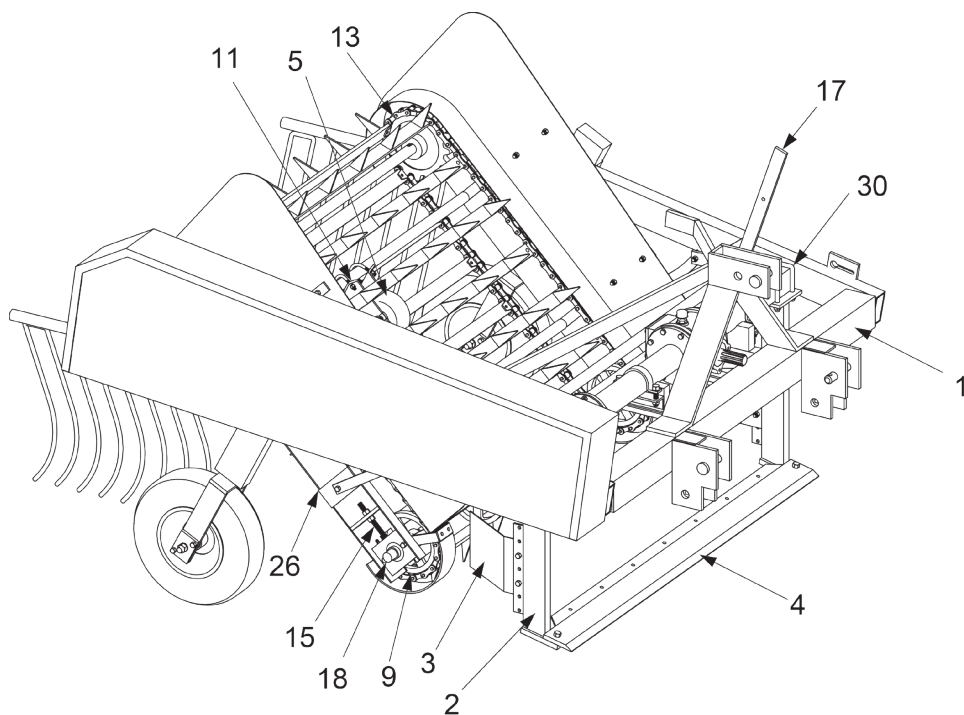
PARTS INDICATION OF GROUNDNUT DIGGER



1. Main Frame
2. & 4. Tine & Blade
3. Crop Guide Plate
6. Gear Box Shaft Pulley
7. V Belt Detting Pulley
8. Conveyor Pulley
10. Chain Gear
12. V Belt Pulley Stand
14. V Belt Setting Pulley Shaft
16. Conveyor
17. Conveyor Adjusting Handle

19. Conveyor Pulley Shaft
20. Gera Box Shaft
21. Padastal
22. Shaking Bar Stand
23. Shacking Bar
24. Chain Cover
25. Pulley Cover
27. Tyre Stand
28. Tractor Grip Tyre
29. Gear Box
30. U-Bolt for Tines

PARTS INDICATION OF GROUNDNUT DIGGER



- | | |
|----------------------|-------------------------------|
| 1. Main Frame | 11. Vibrating Wheel Stand |
| 2. & 4. Tine & Blade | 15. Chain Adjusting Part |
| 3. Crop Guide Plate | 17. Conveyor Adjusting Handle |
| 5. Vibrating Wheel | 18. Chain Guide Wheel Shaft |
| 9. Chain Guide Wheel | 26. C-Channel |
| 13. Chain | 30. U-Bolt for Tines |

MAINTENANCE

LUBRICATION

Every 100 hours:

Check the oil level in the gearbox. If necessary add oil through plug. Use 140 gear oil.

Every 200 days (or once a year):

Replace the oil in the gearbox.

Spare parts:

When calling your dealer to order spare parts, ensure that you have all the identification data of your machine and the correct codes of the parts required.

Genuine parts:

Always use genuine spare parts.

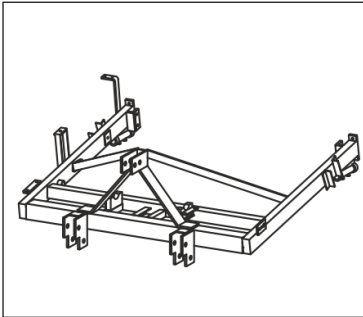
The use of non-genuine parts will nullify the guarantee.



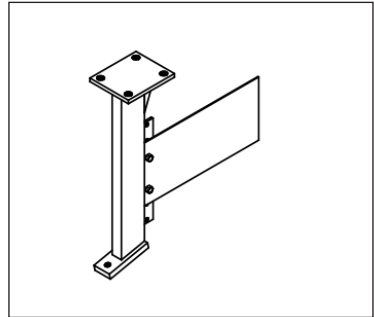
→ Coulter is optional



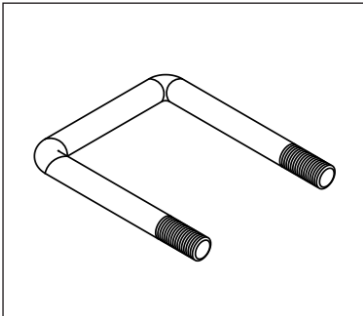
PARTS LIST



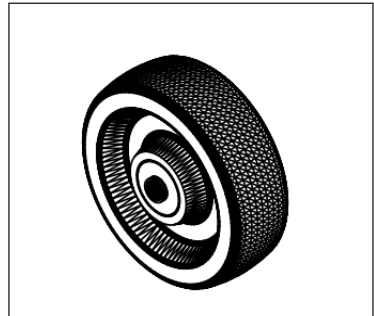
MAIN FRAME



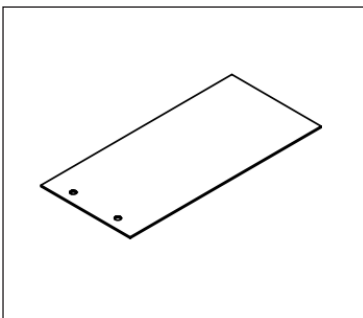
TINE WITH CROP GUIDE PLATE



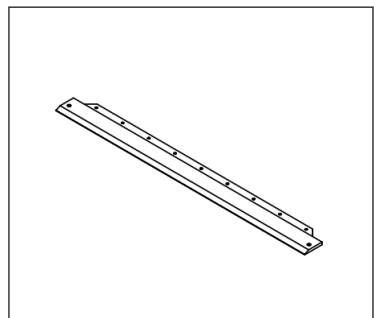
U-BOLT



VIBRATING WHEEL

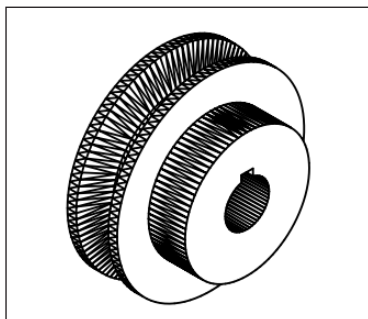


CROP GUIDE PLATE

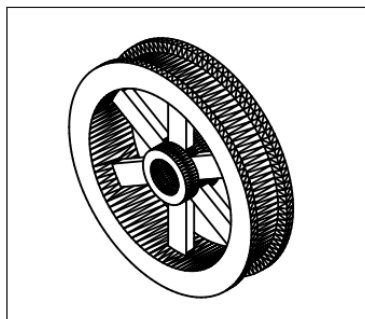


BLADE

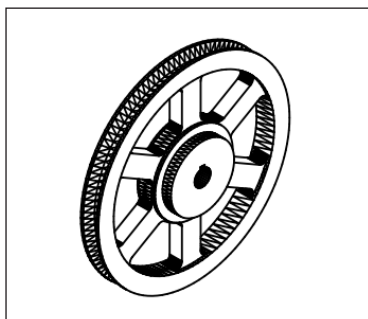
PARTS LIST



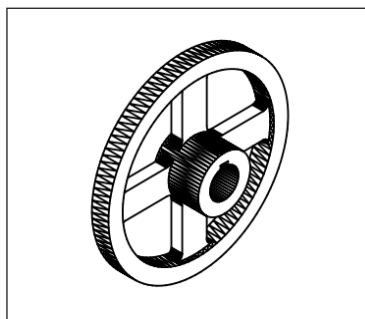
GEAR SHAFT PULLEY



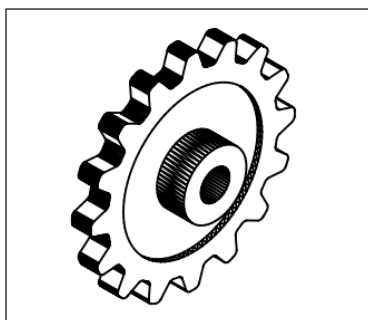
V-BELT SETTING PULLEY



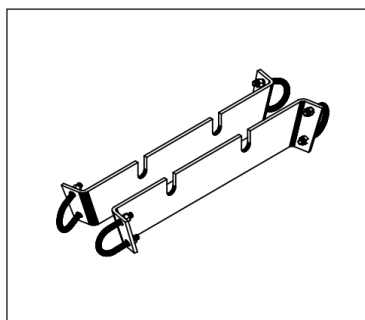
CONVEYOR PULLEY



CHAIN GUIDE WHEEL

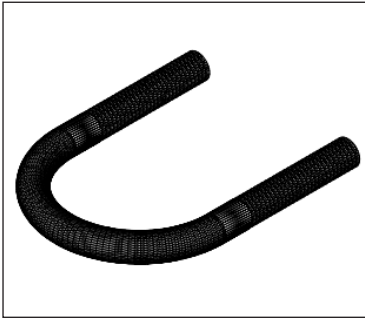


CHAIN GEAR

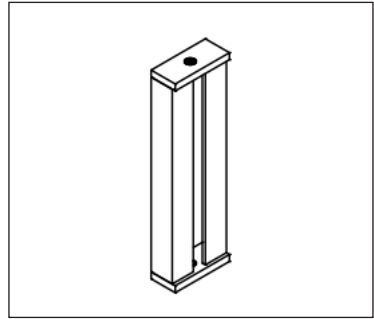


VIBRATING WHEEL STAND

PARTS LIST



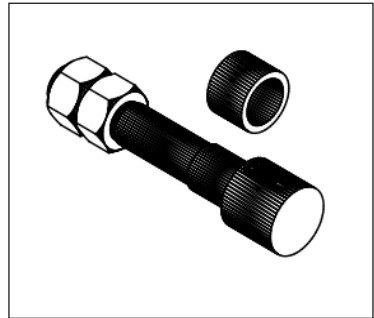
VIBRATING WHEEL U-BOLT



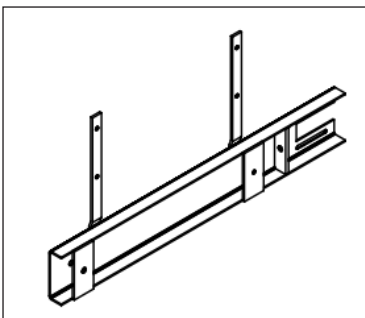
V-BELT SETTING PULLEY STAND



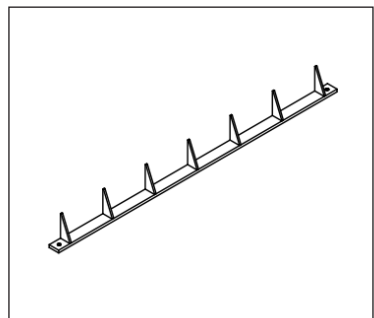
CHAIN LINK



V-BELT SITTING PULLEY SHAFT

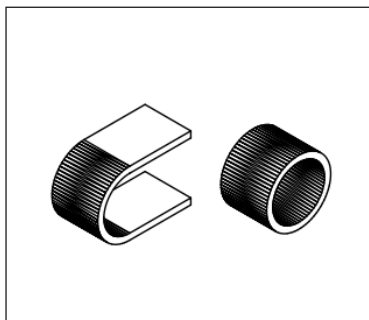


C-CHANNEL

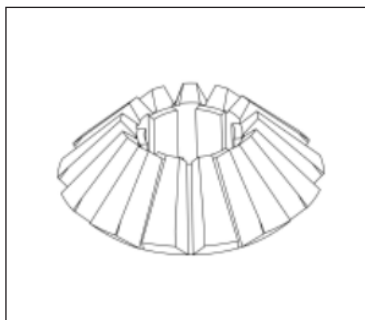


CONVEYOR

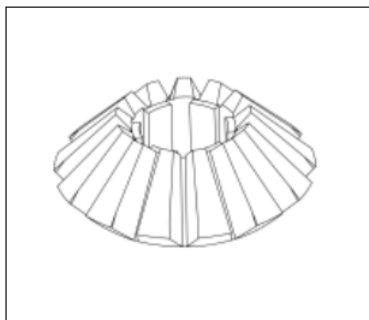
PARTS LIST



CONVEYOR MAIN SUPPORT PART



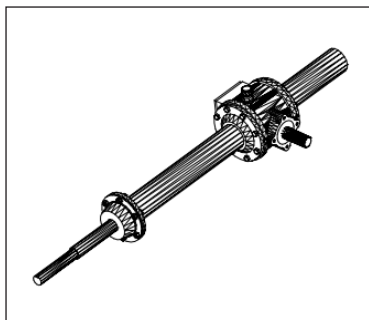
CROWN



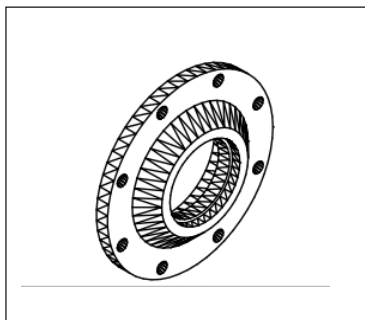
PINION



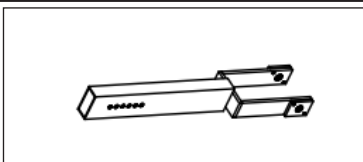
TRACTOR GRIP TYRE



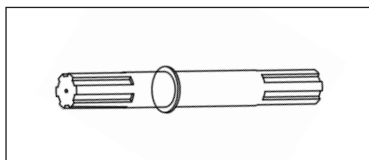
GEAR BOX



GEAR BOX FLANGE



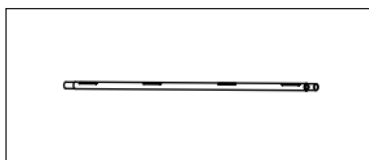
TYRE STAND



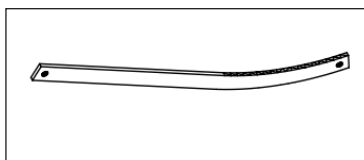
GEAR SHAFT



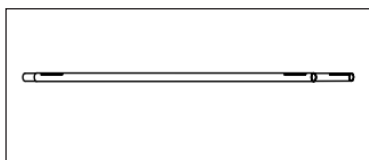
CONVEYOR ADJUSTING HANDLE



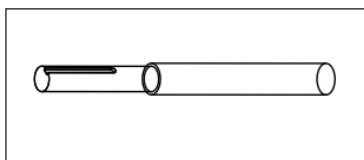
CHAIN GUIDE WHEEL SHAFT



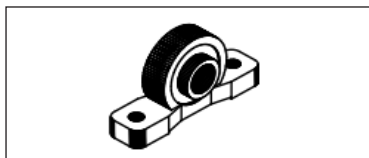
CONVEYOR HANDLE PLATE



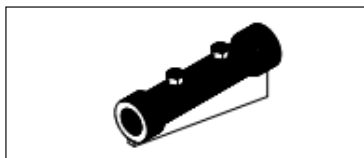
PULLEY SHAFT



GEAR BOX SHAFT



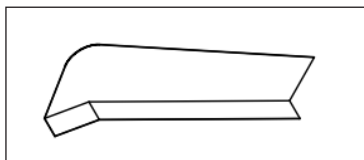
PADASTAL



SHACKING BAR STAND



SHACKING BAR



CHAIN COVER

Incubated at



Accelerated at



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