

USER MANUAL

SIDE FLAIL MOWER

ATTENTION



3-point side flail mower can appear some dangers during use. Read carefully user manual before use.



Thank you for having bought the side flail mower.

Please follow our recommendations in order to be fully satisfied with this purchase.

In this manual, you will find all the information of use and security. It's important to follow the instructions for the regular operation of the machine and the safety of the operator.

Please read attentively and carefully all the operations and the caution concerning the security described in this manual before the use of the machine.

We decline all responsibility for damages caused by the non-reading of the instructions given in this manual or for any use not in accordance with the destination of the machine or lack of maintenance.

All the machines are equipped with an identification plate where you will find the data, which are essential to order the spare parts.

The models may be different for some details.

Each machine is equipped with an identification plate where you will find all the data which are fundamental to verify the compatibility between the machine and the tractor and for all order of spare parts.

The side flail mower is designed for maintenance of the work and clearing of the grass according to the model.

SECURITY

Labels of the safety and plate of the identification



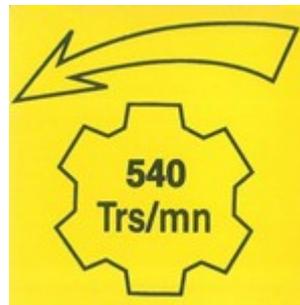
Read user manual before use or maintenance.



Turn off the tractor's engine and remove the key before all the interventions on the machine.



Risk of being caught by the transmission. Don't approach the machine and avoid wearing loose clothes which could become entangled in the moving parts



PTO Speed. 540 tr/min MAX



Risk of projections. To be held apart from the operating range of the machine. To make sure that all the guards are in their place during the use.

Attention to the hydraulic pipes and the machine's deviation

Manufacturer's identification plate :

CE	
TYPE:	YEAR:
SERIAL No.	WEIGHT (Kg)

It's strictly prohibited to remove the safety protections, safety labels and the identification plate from the manufacturer.

Safety rules:

In order to avoid accidents during work, it's necessary to observe the most elementary rules of the prudence:

1. Operator

-The operator should not start the machine if he doesn't have all his mental and physical faculties:

- Good eyesight and good hearing
 - Read and study the user manual
 - Be attentive to his security and others' security
 - Well known the use and maintenance of the machine
 - It's strictly forbidden to drink alcohol, ingest drugs and other substances that might affect the use of the machine
- Don't wear loose floating clothing that could be caught by moving spare parts.
 - Wear the appropriate security equipment:

- Standard working gloves
- Safety shoes
- Helmet
- Hearing protection device
- Protective glasses



Attention! To hydraulic leakage, of fluid under high pressure which can be strong enough to penetrate the skin and cause serious injury. Please check clamping pressure, and the tightness of the flexible fittings before start the system under pressure,

2 . Machine

- The hitch must be done only on the points provided for this purpose in accordance with safety standards
- Prohibit using the machine as means of transport of people, animals or objects.
- The machine should be in perfect working condition , maintained with original parts.
- Use the specific transmission shaft by manufacturer.
- Protective device of transmission should be in good condition.
- Please Check the direction of PTO rotation of the tractor.
- It's strictly prohibited to make modifications on the machine without authorization of the manufacturer.

3. Utilization

- Prudence is required during the hitch of the machine to the tractor and during its uncoupling.
- The maintenance, the cleaning as well as the adjustments must be made only when the tractor engine is turned off and the ignition key is removed.
- Make sure that nobody is in the operating area of the machine.

We decline all the responsibilities for the damages caused by the non-observance of safety rules and of use.

Updated Manual

- The Information, description and illustrations included in this manual reflect the condition and art at the time of machines' commercialization.

The manufacturer reserves the right to make, at any time, any possible modifications to the machinery for technical or commercial reasons. These modifications don't force the manufacturer to intervene on the commercial machines and to this inadequate publication.

The manufacturer considers possible integration which are constantly offered to be conserved with the manual and regarded as an integral part thereof.

USE PREVUE

- Side flail mower is designed in order to be applied in the agricultural filed, for mowing herbs, stems of the plant residue, the product of small topping, perennial plants, twigs, depending on the type of the models. It's ideal for cleaning the edge of roads, ditches, the slope and sloping land.

The use is forbidden: if the machine coupled to the tractor is prohibitive on the land with rocks, on the unstable balance positions. ex: important inclination, along ditches, precipices...

The machine is driven by the tractor with 3 point linkage and acts on the ground by its own weight and the rotation of the rotor, driven by PTO Shaft

The machine is not designed for other fields.

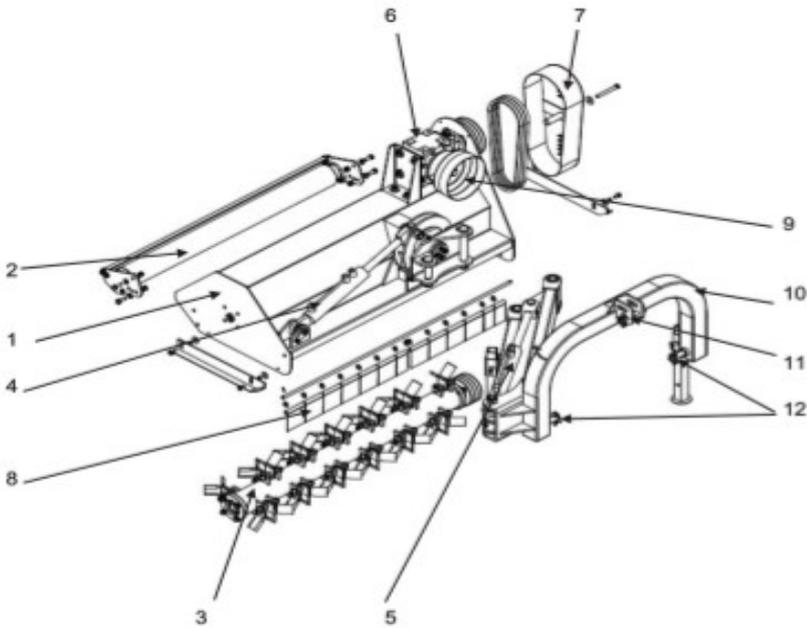
All use of machine different to the mentioned as follows are considered dangerous and unauthorized.

DESCRIPTION

The machine has a rotor of horizontal axle on which are mounted to hammers or blades at a high frequency.

Side flail mower is consist of:

- a chassis
- a 3 point linkage on the tractor
- A connection of PTO shaft
- Cast Iron gearbox
- a rotor
- a roller

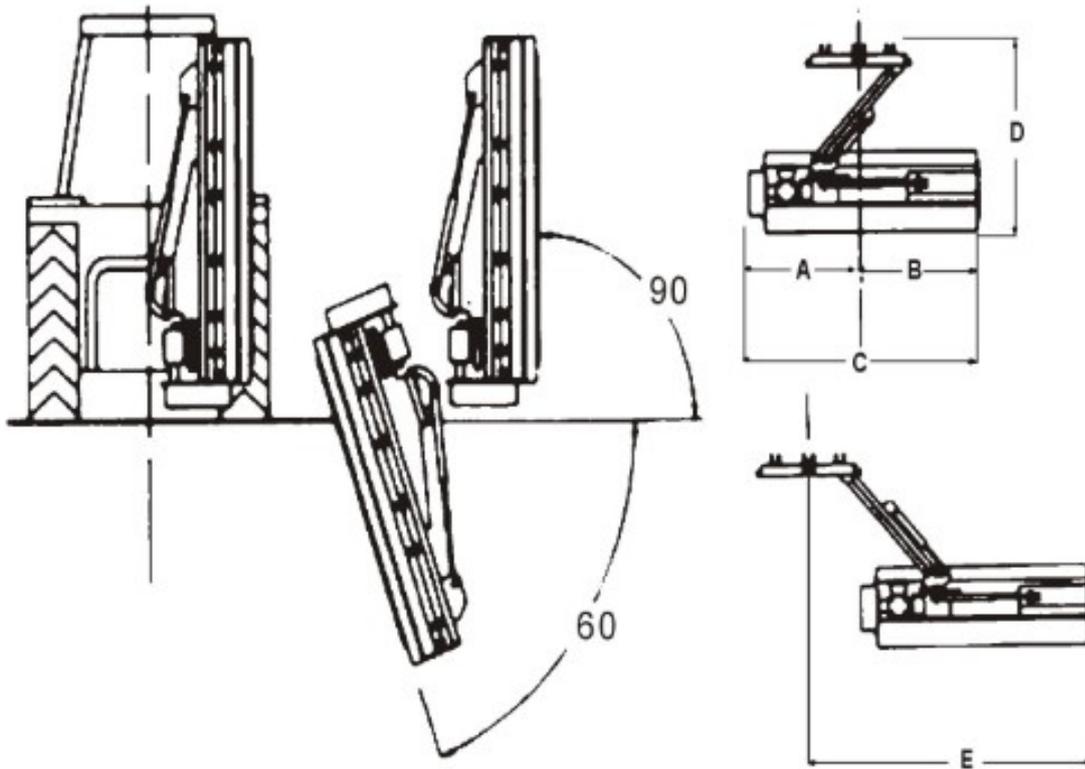


LIST OF PARTS

- 1 Chassis
- 2 Roller
- 3 Rotor
- 4 Rotation cylinder of the body
- 5 Lateral displacement cylinder
- 6. Gearbox
- 7 Lateral protection
- 8 Front protection
- 9 Tractor connector
- 10 Stand bar
- 11 3 point
- 12 Connector of the suspension plate

TECHNICAL DATAS

The machine can work behind the tractor, laterally close to the trench, incline to up or down
The illustration and form as follows will indicate the working sectors.



Angle EFDL: 45°

EFGL: 60°

model	A	B	C	D	E
EFDL-105	600	563	1163	1580	1630
EFDL-115	600	663	1263	1580	1730
EFDL-125	600	763	1363	1580	1830
EFGL-125	716	681	1397	1542	1834
EFGL-135	716	781	1497	1542	1934
EFGL-150	716	931	1647	1542	2084

STORAGE

if the machine is unused for longtime, it must be stored in a protected place against atmospheric agents and cover it to avoid damage. Before depositing it, we should thoroughly clean the machine and lubricate adequately all the mechanical parts for preventing the rust.

Checking the storage's temperature is between 0 c and 50 c. It's preferable to do as follows before the machine stops working for long time.

- Remove any residue stayed in the rotor and in the equipment.
- Clean carefully the machine

- Carry out the general control of the machine to detect the possible damage of the structure, to identify any possible deep abrasion of the paint, to check the original symbols of security which are complete and legible in their positions.
- Lubricate all mechanical parts and clamp pins.
- store the machine in a place, if possible, in a cover place, on a flat surface and solid;

The used oil must be retrieved properly and shall not be eliminated in the environment, in accordance with current rules, it is classified as hazardous waste and should be put to the recycling centers.

For the collection of used oil, it is necessary to be sent to the recycling centers of waste oil.

REUSE AFTER INACTIVITY FOR LONG TIME

Before using the machine for first time, or after inactivity for long time, we should do as follows:

- Check the machine being not damaged.
- Verify the mechanical parts which are in good condition and not rusted
- Check the wearing condition of the equipment.
- Check (when it's applicable) the correct operation of the lamps and the correct electric installation .
- Lubricate carefully for all movable parts
- Check the joints and the pipes without lack of oil.
- Check all protections at properly position, in good condition and complete.

DISASSEMBLY

In the case of the dis-assembly, the machine must be eliminated in the centers, in accordance with the current rules.

It's necessary to separate the plastic or rubber parts, electrical and electronic equipment before elimination.

Recycle possibly the waste oil and place them in the recycle center.

The used oil must be retrieved properly and shall not be eliminated in the environment, in accordance with current law, it is classified as hazardous waste and should be put into recycling centers.

CIRCULATION ON THE ROAD

In that case, we should circulate on a highway and adhere to the rules of the road.

Before rest on the road, it is necessary to set up any bar of lights.

THE TRANSPORT ON ROAD SHOULD BE EXECUTED WITH THE MOST ATTENTION TO AVOID DANGER TO PEOPLE AND TO VEHICLES .

Before the transport, check whether all machines' pieces are complete and in good condition.

- 1- Don't run PTO shaft until that the rotor stops completely
- 2- lift the machine on the ground so that it overturn in the direction vertical .
- 3- Lift the machine so that the transmission components do not touch the ground.



The picture shows the position of the machine during transport.

The stand bar of the machine changes the stability of the tractor, and the ability of steering and braking, which is why we must move at a low speed.

OPERATION AND USE OF MACHINE

During the work, to ensure all the parts of the machine running regularly. we want to remind you that most of the problems and breakdowns which may appear during use of the machine caused by release of the fixed pieces.

In the first period of the machine's life, the mechanical compress device's and hydraulic joints' tightness appear, it is necessary to carry out the control of the machine.

Before using the machine, always ensure there is no person or animal.

It's strictly prohibited to remove and / or modify the protection symbols on the machine.
Don't use the machine if the operator is ill, tired, or under the influence of drugs or alcohol.

Before using the machine, it is necessary to learn the controls and operation.

Inspect the work area to ensure that there is no dangerous obstacles, ex: holes, various objects, especially in the near traffic lines

Before using the machines, you should be familiar with the control ways.

Before discharge from the tractor and before each operation, start the stopping brake of the tractor, turn off the engine, remove the ignition key of the tractor.

MACHINE'S CONNECTION TO THE TRACTOR

The machine should be connected to tractor by PTO shaft(540r/min),by weight and required power.



During the use, adjustment, maintenance, repair or removal, the operator must use the suitable personal protective equipment

ATTENTION:

AVOID STOPPING IN THE FRONT OF MACHINE

AVOID APPEARING PERSONS

DURING THE MOUNTING, THE PTO SHAFT MUST BE STOPPED.

Before installing the machine, check to see if it is on the ground and is level, to see if the lubricating oil is at the proper level and to see if all the parts are in perfect condition.

Check whether the tractor is suitable to the machine.

Ensure that the PTO rotation of tractor are same as the machine's.

After these checks, please carry out as follows:

- Break and turn off the tractor, pull out the key and get off
- Fix the suspension plate so as to prevent the oscillation of the right and left of the machine .
- Install PTO shaft and ensure that the button is inserted into the fissure after having confirmed the length.
- Apply 3 point linkage
- Lift lightly the machine on the ground and uplift the stand bar.
- Remount the hydraulic cylinder pipes

SPECIFICATIONS OF PTO SHAFT

Don't use PTO shaft without protections.

Never cross over the PTO shaft

If the machine is connected to tractor for first time, ensure some conditions as follows:

- Under the conditions of maximum inclination, the cardan is not completely closed in order to avoid damage to the accelerator or the tractor.
- Under the condition that the cardan is very long, it's necessary to shorten by cutting it.

PTO shaft is one part of transmission which can drive the machine. It needs to be adapted to the machine: size and length.

ATTENTION:

PTO shaft may cause some situations of risk and danger.

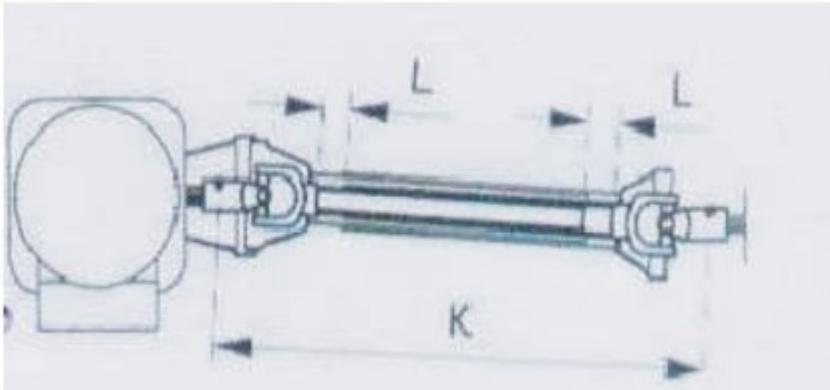
It should do as follows:

- Read and store the notice of instructions.
- Use exclusively PTO shaft shipped with the machine
- Replace some old, broken and absent protections
- Close the tractor engine before operating on PTO shaft

- Don't allow children or strangers approaching the machine during the work of maintenance .
- When the PTO shaft is not usable, place it correctly.
- Wear some suitable clothes(ex: blue working clothes with protection)

First Installation of PTO shaft

Measure the distance K between the grooves of PTO shaft, the machine posted on the ground, and the multiplier aligned on the tractor PTO shaft: adapt the length of the shaft, telescopic tubes allow a gap L between 30 and 40 mm at the end.



THIS OPERATION SHOULD BE CARRIED OUT AT THE FIRST INSTALLATION AND ONCE THE MACHINE IS

ADAPTABLE TO OTHER TRACTOR.

**ATTENTION:
AFER THE INSTALLATION THE CARDAN, FIX THE CHAINS ON THE TWO ENDS.**

IMPORTANT:
Lubricate the PTO shaft in accordance to the notice of instruction

IMPORTANT:
Read carefully the notice of the instruction.

After assembling the PTO shaft, carry out slowly some operations, articulation of the machine to check that the shaft slide freely without collision.

START THE MACHINE

Before starting the work, ensuring that no person or animal appear in the 10 meters away or out of 40 meters

Before starting the work, ensure that ALL the protections of the machine, especially the point sharp, are in good condition and operation.

Before you use the machine for the first time, get empty of rotor for a few minutes.

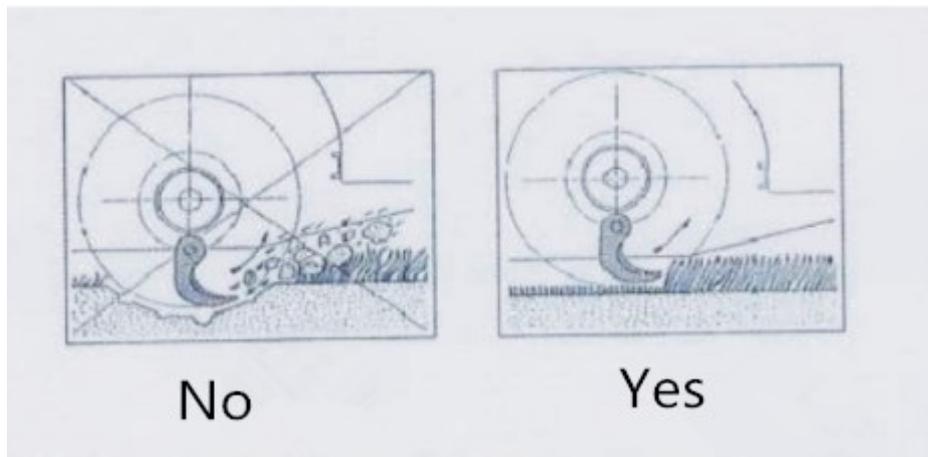
PHASE OF WORK

Before starting the work, ensure that no person or animal appears in the working field of the machine.

The machine is to be used by only one operator positioned in the cab of the tractor.

Before the correct connection to tractor, carry out the operation as follows:

- 1. Action on the air valve which control the articulation cylinder, turn over the machine until put it in the horizontal position.
- 2. Action on the air valve which control the displacement cylinder, move the machine until put it in the work fields.
- 3. Control the lifting, lowering the machine until the roller falls to the ground
- 4. Connect PTO to tractor and gradually accelerate the speed of up to 540 r/ min
- 5. Start to work
- 6. Adjust the mowing height , so that the cutters parts (hammers and blades) connect with the sol .
- 7. Adjust the tractor speed of advance
- 8. Adjust the position of the roller to increase or decrease the cutting height to the ground, at the end of the work, always wait until the rotor stopped.



STOP THE MACHINE

In order to stop the machine, you should:

- 1-Actuating the stopping brake of the tractor
- 2-PTO stopped
- 3-Turn off the tractor
- 4-Always wait that the rotor completely stop before doing all operations in the machines.

THE FOLLOWING OPERATIONS MAY STOP SOME DANGERS:

AVOID PERSONS APPEARING OR PUT THE MACHINE IN THE NEARBY PLACE

In order to disconnect the machine from the tractor, adhere to the following instructions.

1. Stop the PTO Shaft and wait the stopping of rotor
2. Support the machine on the roller
3. Stop the tractor
4. Put the stand bar
5. Put the machine on the ground and stop the tractor
6. Disconnect the 3 point linkage
7. Disconnect PTO shaft and place it in the frame
8. Disconnect the arms of tractor
9. Disconnect the flexible of cylinder

It is necessary that the machine is in a flat and protective area so as to prevent that unauthorized personnel can approach

ADJUSTMENT

ADJUSTMENT OF ADVANCE SPEED

Adjust the speed of work, based on the size of vegetation to cut, and fragmentation that we wish to get.

We need to fix the advance speed of the tractor to the type and the quality of the vegetation, as soon as an excessive speed overload my transmission parts, it will result in low quality vegetation production.

SPEED OF AVANCE SUGGESTED FROM 2 to 4,5 km/h following the vegetation

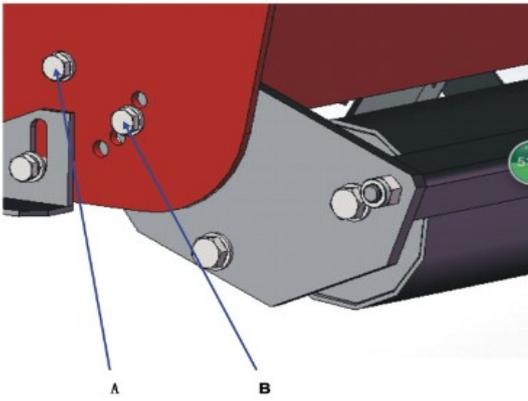
ADJUSTMENT OF CUTTING HEIGHT

In order to adjust the cutting height, it should adjust the position of rear roller
Place the tractor in flat ground, close the engine, the brake, the PTO shaft and the ignition switch.
In general, the blades should always be adjusted to a height to avoid touching the ground.

In order to adjusting the position of roller:

Put the machine on the cabin in the 10cm away, under the left and right of the skate.

- 1.Loosen the roller support on each side by the screw A
- 2.Remove the two screws which have two holes of adjusting height B
- 3.Put the roller in a good position on each same hole then put the nuts B
- 4.Re-tighten two support screw A
- 5.Well control the cutting height



ADJUSTMENT OF TRANSMISSION BELTS

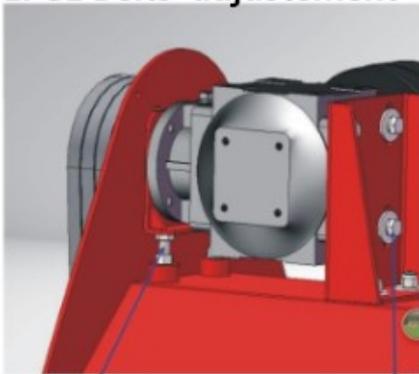
It's necessary to put the machine in flat ground, close the engine, the brake, the pto shaft and the ignition switch.

Disconnect the cover and put it near by the machine with the roller, with the help of a key to tighten the belts, once get a proper tension , check the belt compress can rotate the roller. It should freely rotate

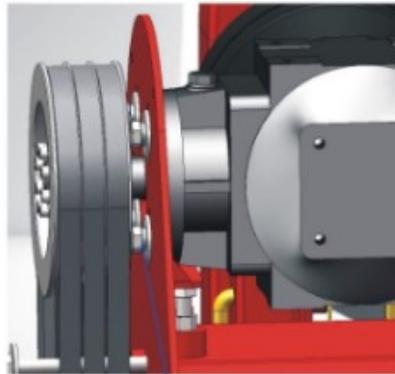
Re-install the cover by the suitable screw

Only when the nuts are loose(fix the compress) or not good use, we can adjust the tension of belts

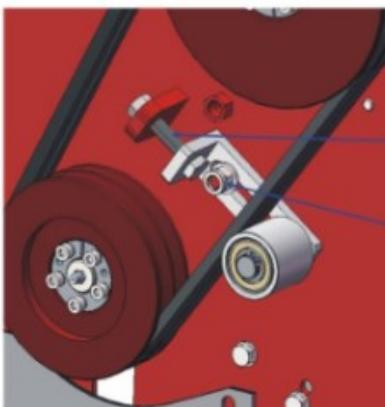
EFGL Belts' ajustement



bolt of the ajustement



bolt of fixation



bolt of the ajustement

bolt of fixation

EFDL Belts' ajustement

Never start work on the belts without the cover

MAINTENANCE OF MACHINE

In the case of damage, the operator must turn off the tractor, pull out the key, get off to see the problem and to make interventions on the machine

we remind you that all operations of the maintenance and repairs are realized in a assembly



workshop

On the condition of the use, the adjustment, the maintenance or the discharge, the operation should use some the individual protection equipment

The used oil must be retrieved properly and shall not be eliminated in the environment, in accordance with current law, it is classified as hazardous waste.

Before starting all of operations of maintenance, the operations as follows should be observed:

- During the operation of maintenance, the machine should be put in the flat and solid ground
- Stop the engine, the brake, pull out the key
- Use some protection equipment(Safety shoes, Standard working gloves)
- if compressed air is used for cleaning, it is necessary to wear the protective glasses
- Don't use unfamiliar repair, always do as instructions or contact the manufacturer or the specialist in this filed
- Attention: replace the damaged hydraulic pipes
- Ensure that the lifting device is adapted to the operation in accordance with the security
- Don't maintain the engine of tractor ignited in a closed place and without air
- avoid the touch between the skin and fuels / lubricants/ fluids. On the condition of the accidental touch with eyes, thoroughly wash them by water
- Don't weld in a closed place or without air
- don't weld on the painted surface or near by it in order to avoid toxic vapor. Remove the paint by the suitable products, then wash the surface.
- Discharge the pressure of hydraulic circuits before the intervention
- don't use your hands to detect the loss of fluid pressure
- the leakage of fluid under pressure can penetrate skin and eyes and lead to very serious consequences

After the maintenance or repairs in the machine, we suggest doing a test for better work

Do as follows:

- 1-Ensure that the roller is connected to the machine
- 2-Avoid anyone approach the machine out of 10m
- 3-Install the PTO and slowly accelerate until reach to the speed 540r/min
- 4-During the test, if the machine shakes, control the blades

If, after having controlled and replaced the blades, we still notice the shaking, it's necessary to adjust the rotor's balance. In this case, it's necessary to send it to dealer

INTERVENTION OF MAINTENANCE

The following interventions requires no specialization. The operator must precisely follow the indications and should carry out the service.

The operator do the maintenance. If the operator don't observe the maintenance standards and the proper functioning of the machine, we will cancel the validity of the guarantee

Increase the frequency of maintenance and operation

In order to use and maintain the best, please follow the indications(after the first 4 hours working, then 40 hours' use)

1. control the fixing of all bolts
2. control the tension of the belt transmission
3. control the lubricants and levels

LUBRICATION

Lubricate the place indicated when using a lubrication pump

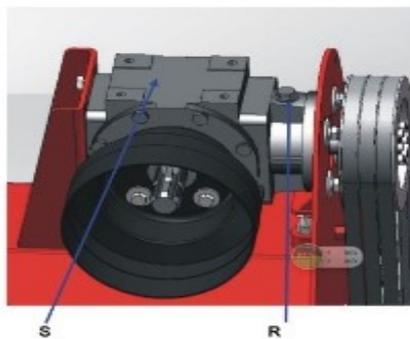
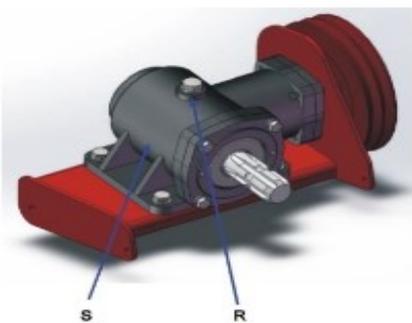
Use a manual lubrication pump

LUBRIFICATION OF TRANSMISSION GROUPE:

At first, clean carefully the pieces near by the bolts in order to prevent the garbage penetrating in interior

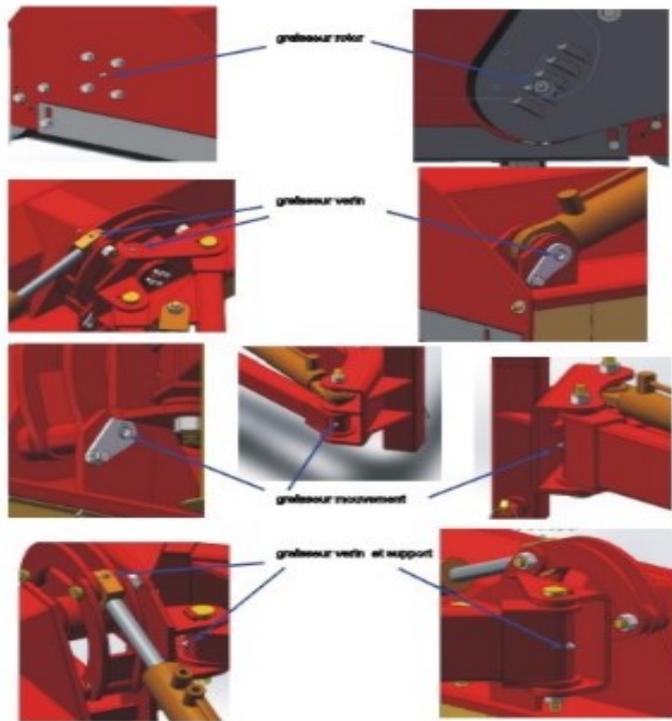
For the transmission assembly

- 1-During the first 20 hours use, control the oil level. Control the oil level every 50 hours
- 2-After the first 40 hours service, empty the oil in the accelerator
- 3-After that, repeat the operation every 250 hours' service
- 4-The oil is put in the gearbox S by a close hole with a bolt R



GENERAL LUBRICATION

- Lubricate every 8 hours' service on the two side of roller
- Rotor: lubricate 1-2 times in order to not damage the interior waterproof parts.
- Lubricator(see the picture)



USE OF THE LUBRICANTS

Gear box oil for speed= SAE 90-140

Rotor-roller leveler-other lubricating place=lubrication EP2

HYDRAULIC INSTALLATION

The machine has 2 cylinders which drives the displacement and rotation of mowers

IMPORTANT: connect the cylinder pipes by two on the valve

verify that the fast lines are inserted

Control the machine in order to check that there is no separating connection, no damaged pipes.

Tighten the separated connection and replace the damaged pipes

REPLACE HYDRAULIC PIPE

Before the replacement of hydraulic pipe, be careful to adopt safety measures for the maintenance, stop the machine, close the valves of the hydraulic system. Before removing hydraulic pipe, make sure that you have removed the residual pressure of the installation.

CONTROL OF BLADES AND HAMMERS

They are made of steel and the heat treatment, excellent resistance when damaged

The size and the weight are controlled, in case of partial or complete replacement, the rotor don't need dynamic balance

The broken or worn tools can transmit vibration to the machine. in this case, stopping working on

the spot and don't re-get it until after replaced the tools.

If, after replacing the tools, there are still some vibrations, the rotor should be subject to a new dynamic balance

ATTENTION: ONLY INSTALL THE ORIGINAL BLADES OR HAMMERS

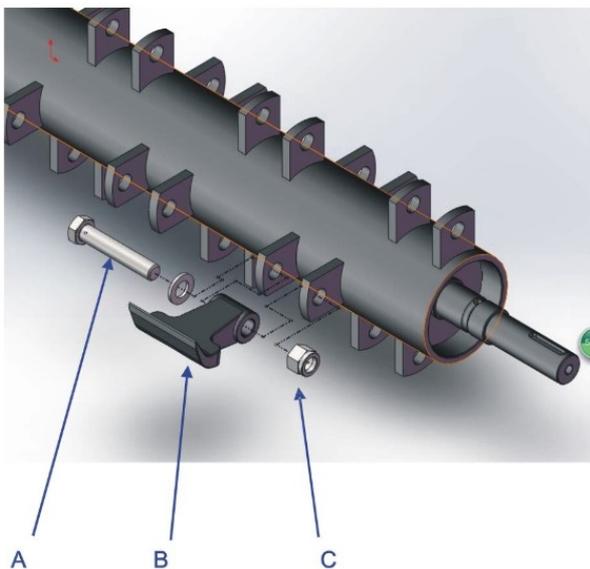
REPLACEMENT OF THE HAMMER:

in case of replacement of a blade, it is recommended to replace the whole set. don't install the original hammers which may be the cause of abnormal vibration of the machine.

In order to realize the following operations, ensure that the PTO is separated. The tractor should be closed.

Carry out the following operations:

- 1-position the following operations;
- 2-unscrew completely the bolt(A) et pull out the screw(B)
- 3-replace the blade(C), install a new bolt
- 4-put the machine in the normal position



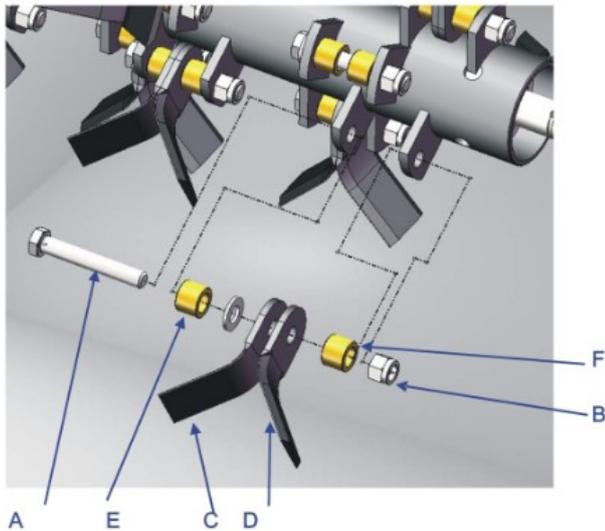
REPLACEMENT OF BLADES

In the case of replacement of a blade, it's recommended to replace the whole set, install the different marks blades which may be the cause of abnormal vibration of the machine

Carry out the following operations:

- 1-put the machine on the position of level
- 2-disconnect the machine from the tractor
- 3-with the help of a jack having a proper load enough , it is also attached to a beam, hook the machine and turn over it
- 4-unscrew completely the bolt(A) and remove the screw(B)

5-replace the blade(C), install a new bolt and take care to engage the head of the screw in the square on the support and tighten it to the end; shaking down during these operations to ensure that the sleeve(E) and spacer(F), which are placed in the same position before the replacement



OUR ORIGINAL SPARE PARTS ARE COMPLETE AND CORRECT TO YOUR MACHINE

CLEANING OF THE MACHINE

Clean the machine, always the tractor stopped and machine without PTO shaft
Carry out cleaning the machine with the water under the pressure

Identify the problems

ABNORMAL	CAUSE	SOLUTION
Non-uniform grinding	Damaged elements	Replace the elements
	Machine not well adjust	Carry out the necessary adjustment
	Machine with obstacles	Reduce the machine's speed
Precocious damage	Stones ground	Re-choose good ground
	Very low cutting height	Adjust the cutting height
Noise of the machine	Rotor is not balanced	Balance it in this specialized factory
	Damaged, old, or broken elements	Replace some elements
	Old roller	Replace the roller
Overheating of the gearbox	The oil level is too high or too low	Balance the level
	Old oil	Replace the oil

Spare parts

The repair and the replacement should be carried out by your technical persons.

MAINTENANCE

Control the tightness of the bolts

1st time.....1 hour

2nd time.....10 hours

After all.....25hours

Lubrication.....5 hours

Control hammers, blades and fixation.....10 hours

Belts.....10hours

Hydraulic pipe.....10 hours

Oil level.....10 hours

Replacement of the oil.....10 hours

GUARANTEE

At the time of delivery, ensure that the machine has not been damaged during transport and its accessories are complete

CONDITION OF THE GUARANTEE

-We guarantee its products for a guarantee of 12 months from the date of delivery. As for the defective spare parts in the material and the construction. In any case, the transport freight and labor will be charged by the customer.

-The guarantee don't include the improper behavior to use of the machine by the operator, as well as some damaged spare parts , such as blades, belts, etc.

-The manufacturer is not responsible for the accidents caused by operator or by the improper use to the machine

A) The guarantee is invalid in the following conditions:

B) A wrong operation method

C) Insufficient maintenance and the lubrication

D) The services and repairs were carried out by persons or companies unapproved

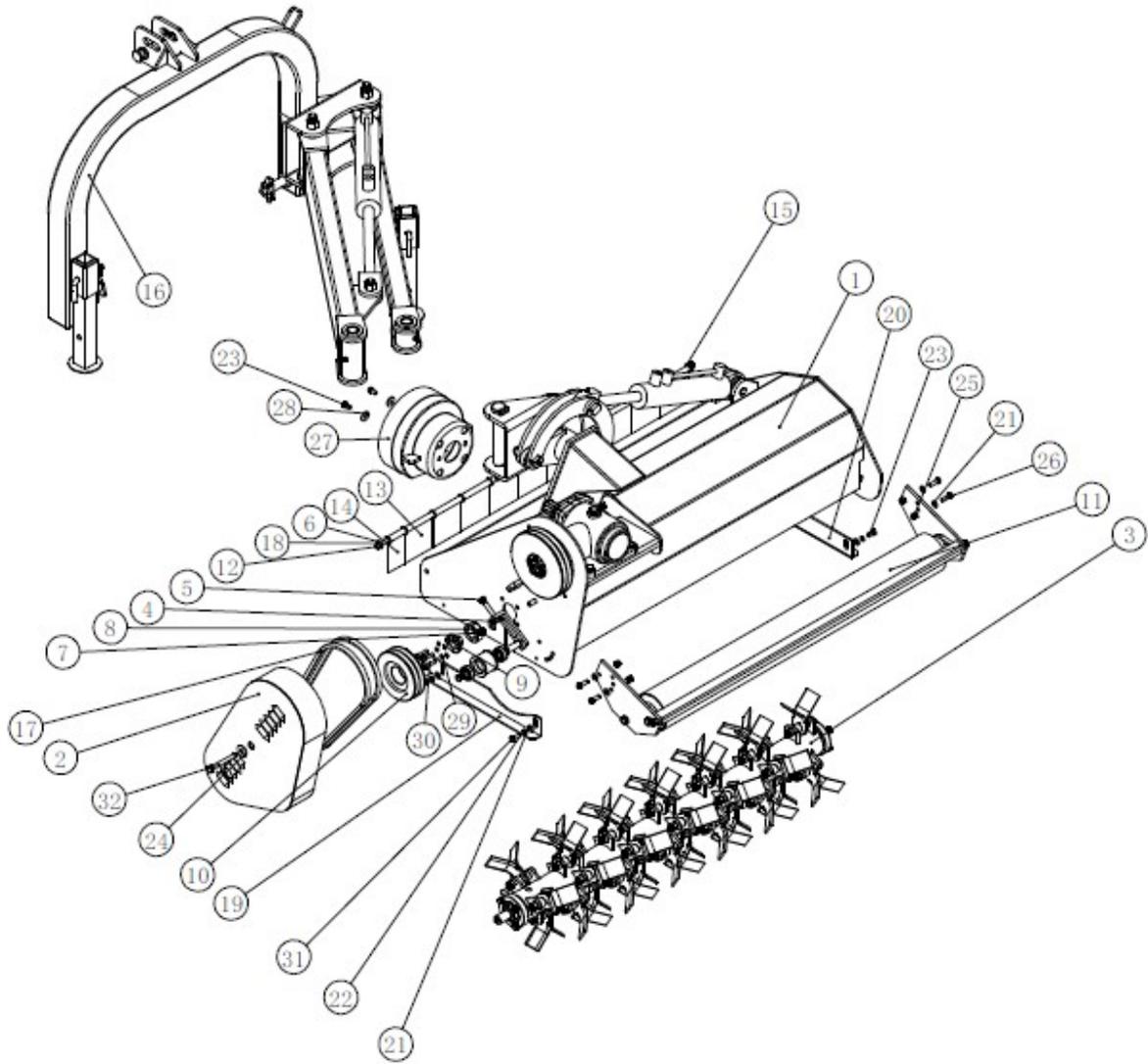
E) Power adapted is excessive

F) Don't follow the instruction in this manual

G)Some unauthorized modification to the machine

EFDL Flail Mower Assembly

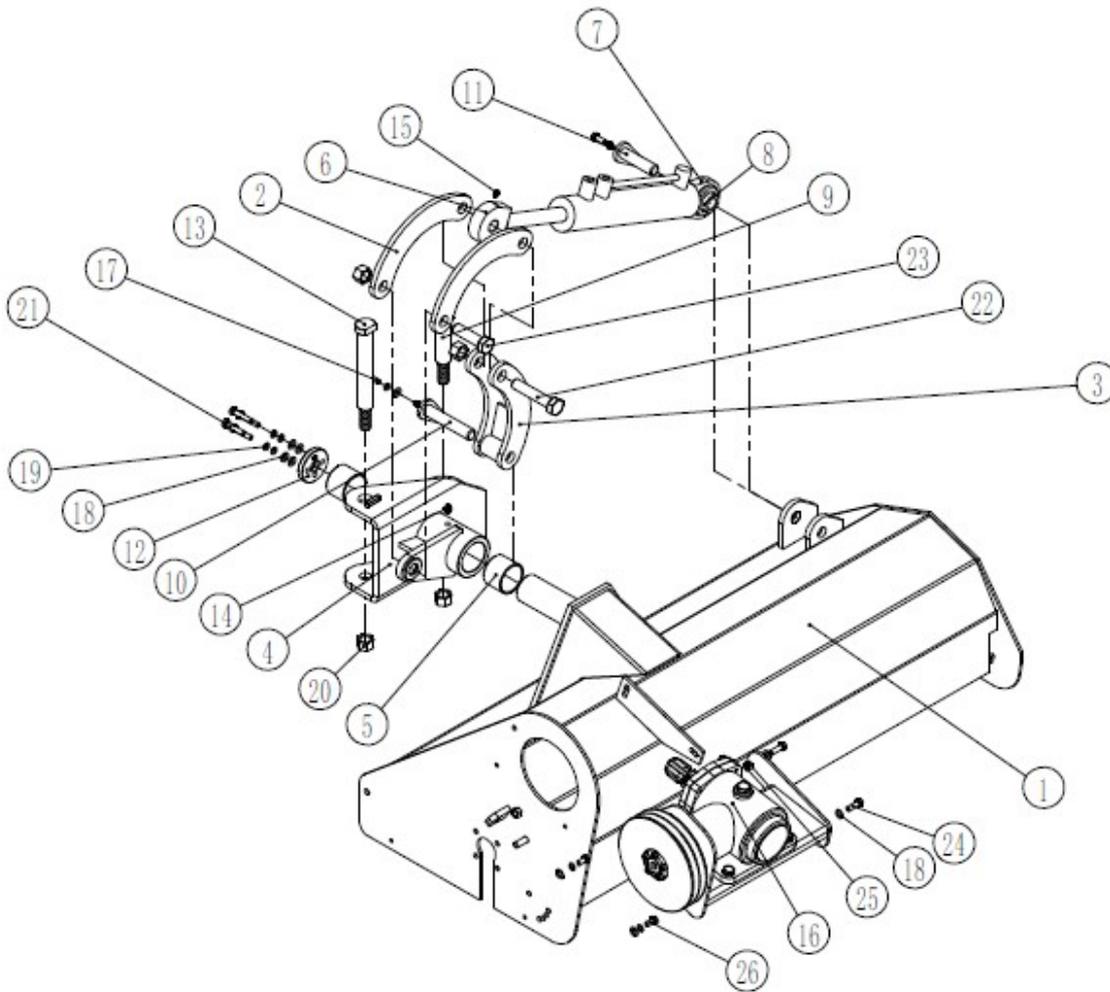
Ser.No	Reference	Name	Qty.
1	EFDL 105-01-001	Main welding assembly	1
2	EFDL 105-00-017	Belt wheel cover	1
3	EF 105-03-001	Blade Axe Assembly	1
4	EFDL 105-00-022	Pinch Roll	1
5	GB/T 6170-2000(M10)	Nuts M10	1
6	GB/T 97.1-2002(10)	Plain washer 10	3
7	GB/T 889.1-2000(M10)	Locknuts M10	1
8	EF 105-02-105	Outer swellable sleeve	1
9	EF 105-02-106	Inter swellable sleeve	1
10	EF 105-02-107	Belt wheel(small)	1
11	EF 105-04-001	Roller Assembly	1
12	EFDL 105-00-101	Combined fender shaft	1
13	EF 105-00-106	Combined fender 1	10
14	EF 105-00-107	Combined fender 2	1
15	GB/T 97.1-2002(10)	Plain washer 10	12
16	EFDL 105-05-001	Sway Frame Assembly	1
17	V A-990	V-belt A-990	2
18	GB/T 879.2-2000(4×20)	Pin 4×20	2
19	EFDL 105-00-019	Anti-friction plate(right)	1
20	EFDL 105-00-011	Anti-friction plate(left)	1
21	GB/T 97.1-2002(8)	Plain washer 8	8
22	GB/T 93-1987(8)	Spring lock washer 8	4
23	GB/T 5783-2000(M8×16)	Bolts M8×16	4
24	GB/T 96.1-2002(10)	Big plain washer 10	1
25	GB/T 889.1-2000(M8)	Locknuts M8	4
26	GB/T 5783-2000(M8×25)	Bolts M8×25	4
27	EFDL 105-00-103	Plastic cover	1
28	GB/T 96.1-2002(8)	Big plain washer 8	2
29	GB/T 93-1987(6)	Spring lock washer 6	5
30	GB/T 70.1-2000(M6×30)	Screw M6×30	5
31	GB/T 5783-2000(M8×20)	Bolts M8×20	2
32	GB/T 5783-2000(M10×80)	Bolts M10×80	1



Main Welding Assembly

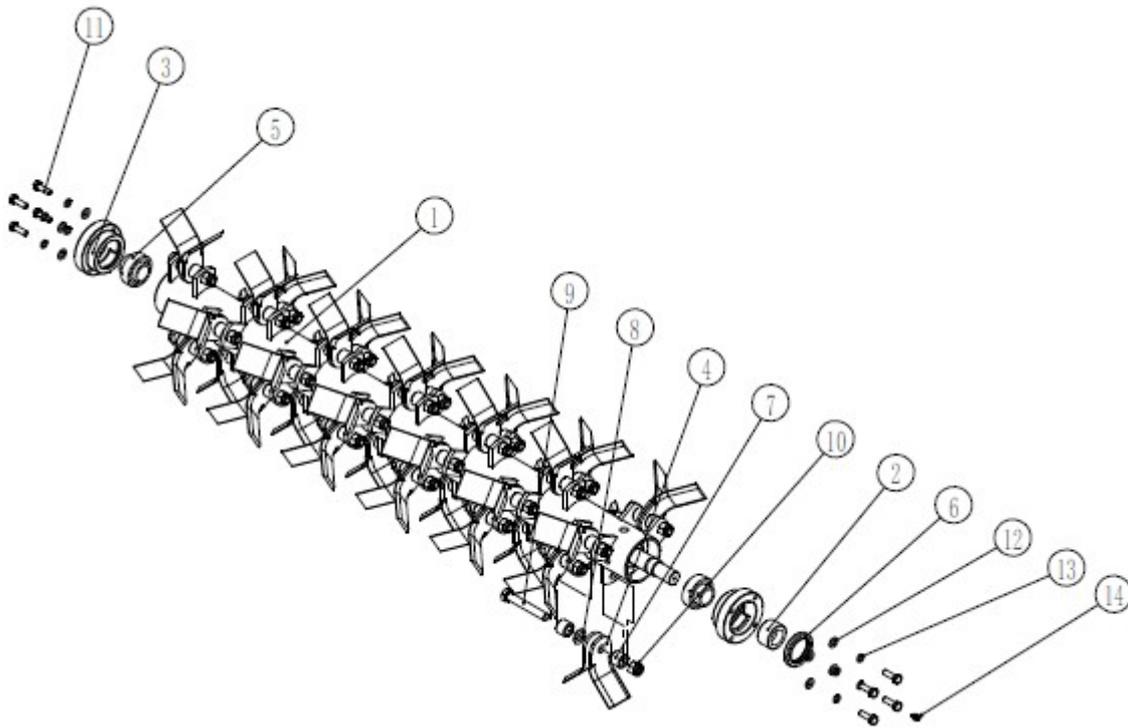
Ser.No	Reference	Name	Qty.
1	EFDL 105-01-011	Main welding	1
2	EFDL 105-01-117	Outer Moon Plate	2
3	EFDL 105-01-118	Inner Moon Plate	1
4	EFDL 105-01-015	Rotating Center Weldment	1
5	SF-2 (5040)	Sleeve SF-2 5040	2
6	EFDL 105-01-131	Side Sway Cylinder	1
7	EFDL 105-01-132		
8	EFDL 105-01-130		
9	EFDL 105-01-116	Pin 3	1
10	EFDL 105-01-115	Pin B	1

11	EFDL 105-01-127	Pin A	1
12	EFDL 105-01-128	End Cover	1
13	EFDL 105-05-114	Pin 1	1
14	JB/T 7940.1-1995(10)	Oil cup 10	1
15	JB/T 7940.1-1995(6)	Oil cup 6	4
16	EFDL 105-02-001	Transmission Assembly	1
17	GB/T 5783-2000(M8×20)	Bolts M8×20	2
18	GB/T 97.1-2002(8)	Plain washer 8	10
19	GB/T 93-1987(8)	Spring lock washer 8	8
20	GB/T 889.1-2000(M18)	Locknuts M18	4
21	GB/T 5783-2000(M8×40)	Bolts M8×40	4
22	EFDL 105-01-129	Long pin for Moon Plate	1
23	EFDL 105-01-126	Short pin for Moon Plate	1
24	GB/T 5783-2000(M8×25)	Bolts M8×25	2
25	GB/T 889.1-2000(M8)	Locknuts M8	2
26	GB/T 5782-2000(M8×16)	Bolts M8×16	2



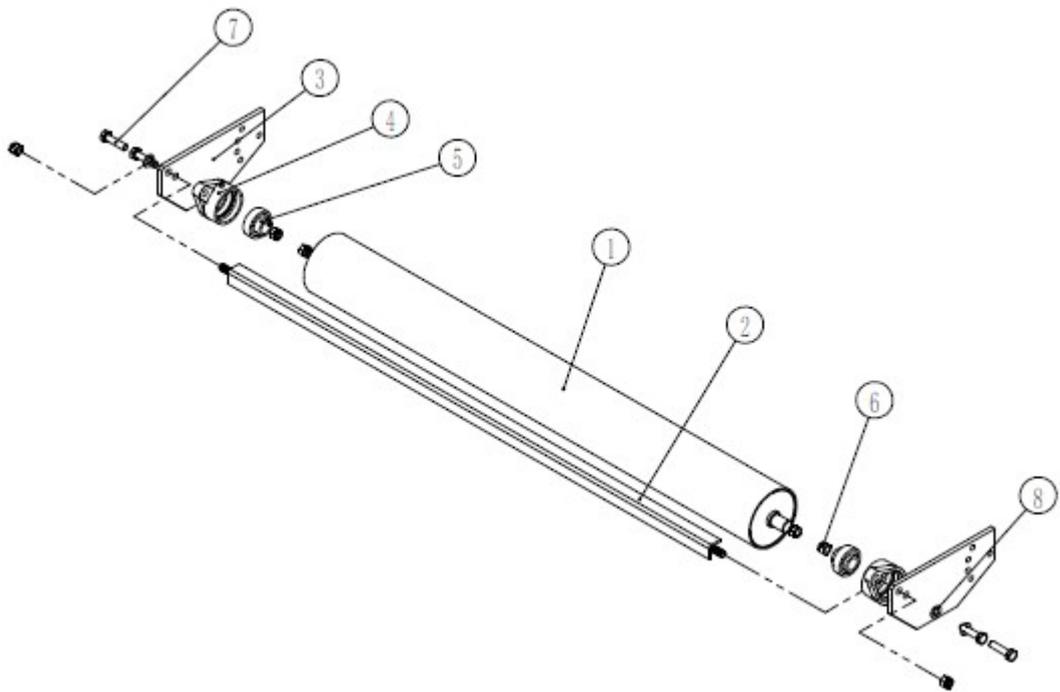
Blade Axle Assembly

Ser.No	Reference	Name	Qty.
1	EF 105-03-011	Blade axle	1
2	EF 105-03-101	Sleeve	1
3	EF 105-02-103	Bearing housing	2
4	EF 105-00-109	Y-blade	72
5	GB/T 3882-1995(UC 205)	Bearing UC 205	2
6	GB/T 13871.1(FB40×55×8)	Oil seal FB 40×55×8	1
7	EF 105-00-108	Spacer	72
8	GB/T 97.1-2002(12)	Plain washer 12	36
9	GB/T 5782-2000(M12×80)	Bolts M12×80	36
10	GB/T 889.1-2000(M12)	Locknuts M12	36
11	GB/T 5783-2000 (M8×25)	Bolts M8×25	8
12	GB/T 97.1-2002 (8)	Plain washer 8	8
13	GB/T 93-1987(8)	Spring lock washer 8	8
14	JB/T 7940.1-1995(6)	Oil cup 6	1



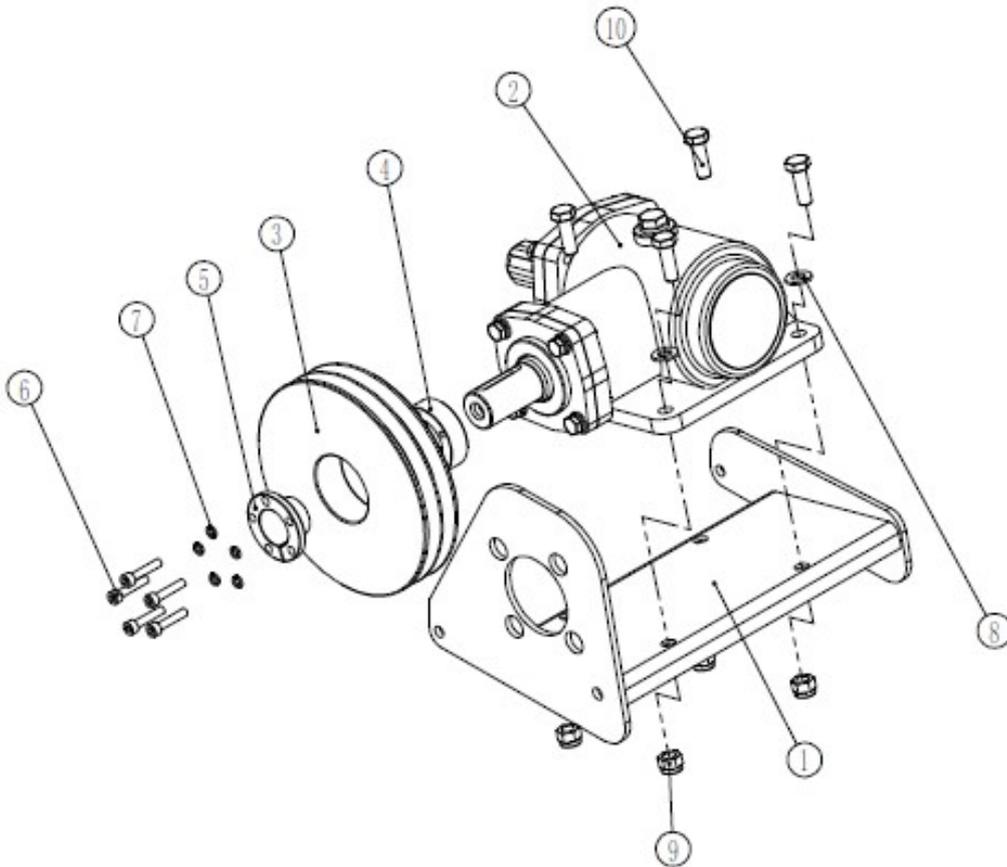
Roller Assembly

Ser.No	Reference	Name	Qty.
1	EF 105-04-011	Roller	1
2	EF 105-04-014	Mud shield	1
3	EF 105-04-110	Supporting plate	2
4	GB/T 7809-1995(FLU 204)	Bearing housing FLU204	2
5	GB/T 3882-1995(UC 204)	Bearing UC 204	2
6	GB/T 889.1-2000(M10)	Locknuts M10	6
7	GB/T 5783-2000(M10×40)	Bolts M10×40	4
8	GB/T 97.1-2002(10)	Plain washer 10	4



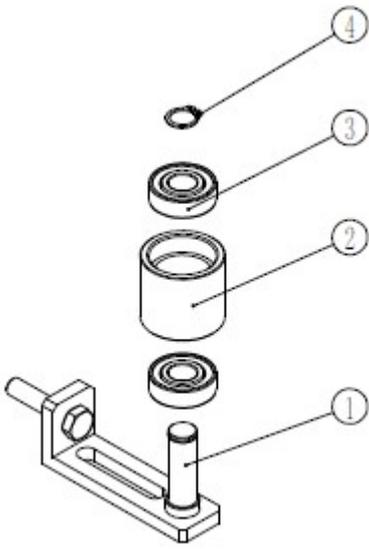
Transmission Assembly

Ser.No	Reference	Name	Qty.
1	EFDL 105-02-011	Gear box seat	1
2	EF 105-02-012	Gear box	1
3	EFDL 105-02-104	Belt Wheel(Big)	1
4	EFDL 105-02-105	Outer swellable sleeve	1
5	EFDL 105-02-106	Inner swellable sleeve	1
6	GB/T 70.1-2000(M6×30)	Screw M6×30	5
7	GB/T 93-1987(6)	Spring lock washer 6	5
8	GB/T 97.1-2002(10)	Plain washer 10	4
9	GB/T 889.1-2000(M10)	Locknuts M10	4
10	GB/T 5783-2000(M10×30)	Bolts M10×30	4



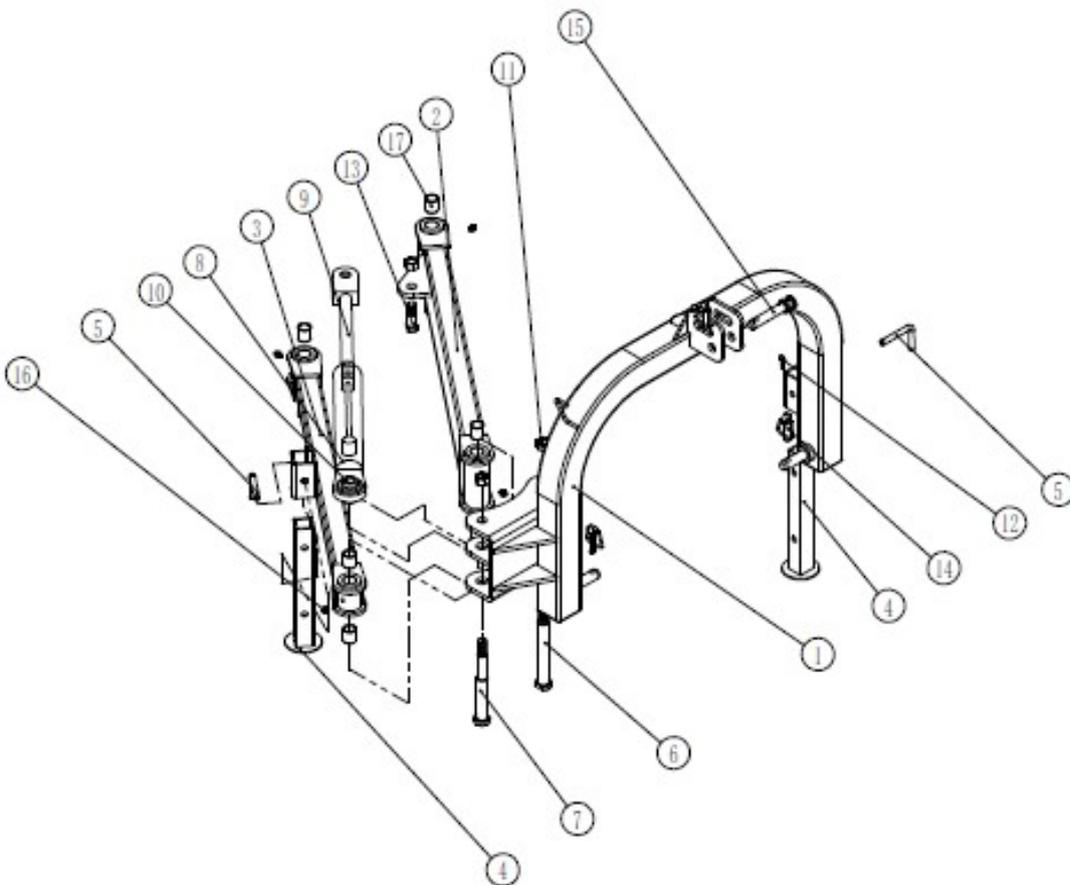
Pingch Roll Assembly

Ser.No	Reference	Name	Qty.
1	EFDL 105-00-140	Pingch roll seat	1
2	EFDL 105-00-141		1
3	GB/T 276-94(6202-2Z)	6202-2Z	2
4	GB 894.1-86(15)	15	1



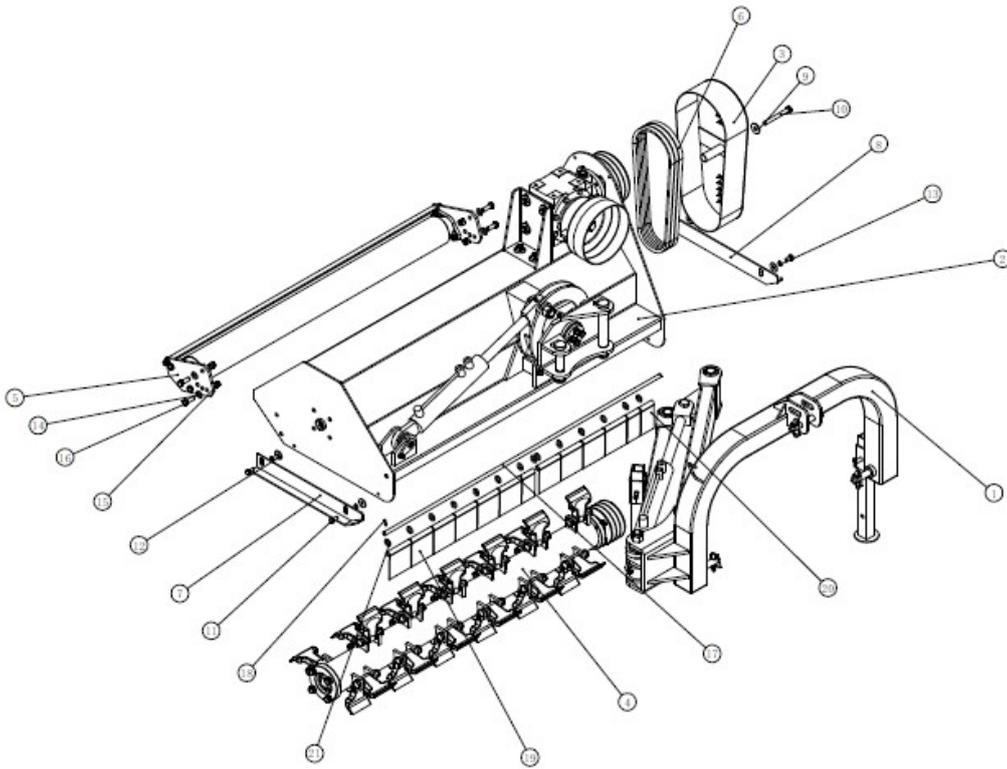
Sway Frame Assembly

Ser.No	Reference	Name	Qty.
1	EFDL 105-05-014	Hanging weldment	1
2	EFDL 105-05-012	Sway frame weldment(big)	1
3	EFDL 105-05-011	Sway frame weldment(small)	1
4	EFDL 105-05-013	Stay bar	2
5	EFDL 105-05-101	Pin for stay bar	2
6	EFDL 105-05-114	Pin 1	1
7	EFDL 105-05-115	Pin 2	1
8	EFDL 105-01-134	Parallel movement cylinder	1
9	EFDL 105-01-133		
10	EFDL 105-01-130		
11	GB/T 6170-2000(M18)	Locknuts M18	3
12		Small R-pin	2
13	EFDL 105-05-113	Pin	1
14	EFG 125-00-018	Lock pin	3
15	EFG 125-00-124	Sup. suspension pin	1
16	JB/T 7940.1-1995(10)	Oil cup 10	4
17	SF-2(2530)	Sleeve SF-2 2530	8



EFGL Flail Mower Assembly

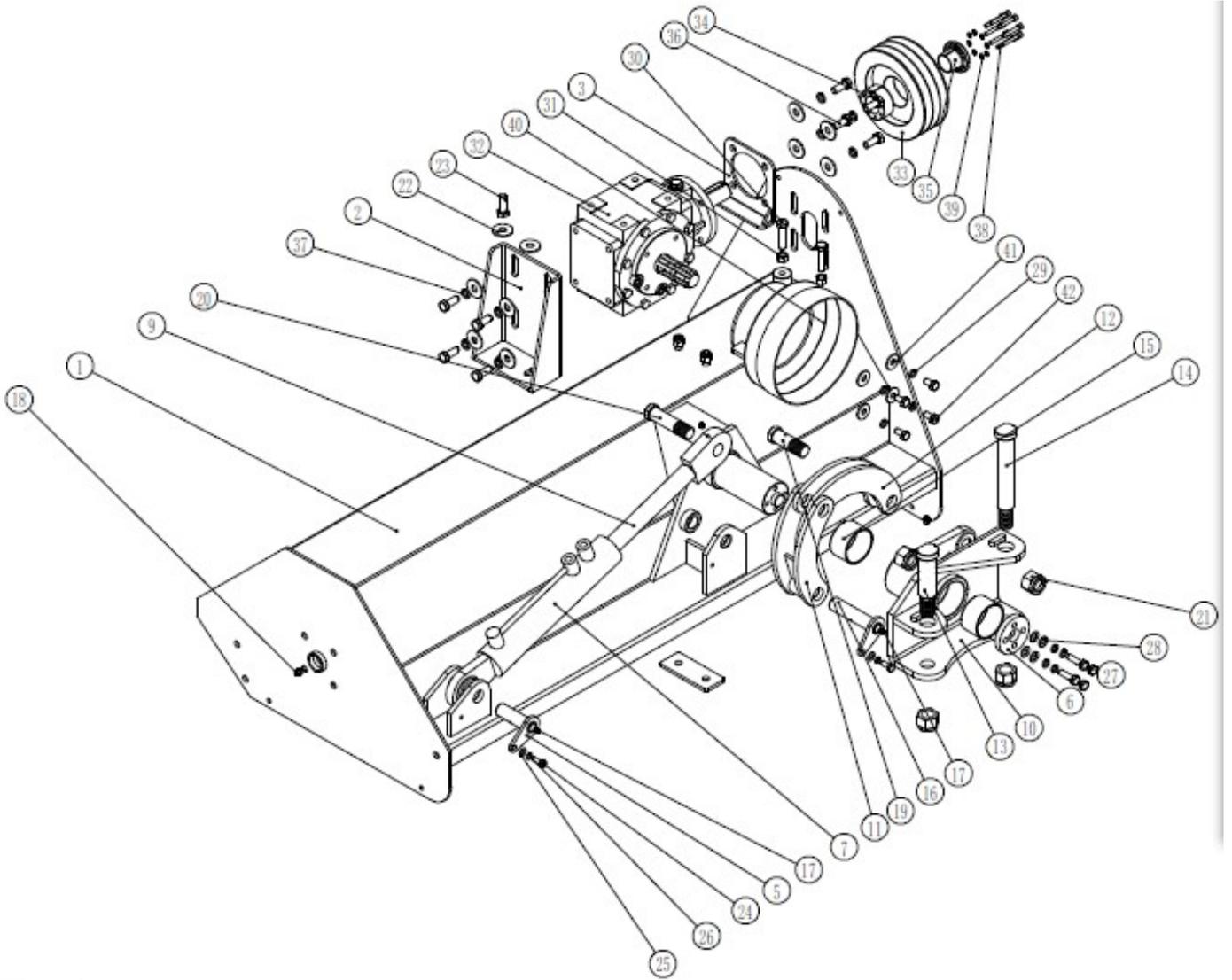
Ser.No	Reference	Name	Qty.
1	EFGL 125-05-001	Sway Frame Assembly	1
2	EFGL 125-01-001	Main welding assembly	1
3	EFGL 125-00-015	Belt wheel cover	1
4	EFGL 125-03-001	Blade Axe Assembly	1
5	EFG 125-04-001	Roller Assembly	1
6	V 帶 B1092Li	V-belt B1092Li	3
7	EFG 125-00-017	Anti-friction plate(left)	1
8	EFG 125-00-011	Anti-friction plate(right)	1
9	GB/T 96.1-2002	Big plain washer 12	1
10	GB/T 5782-2000	Bolts M12×110	1
11	GB/T 5783-2000	Bolts M10×20	4
12	GB/T 96.1-2002	Big plain washer 10	4
13	GB/T 93-1987	Spring lock washer 10	4
14	GB/T 97.1-2002	Plain washer 12	4
15	GB/T 889.1-2000	Locknuts M12	4
16	GB/T 5783-2000	Bolts M12×35	4
17	EFGL 125-00-101	Combined fender shaft	1
18	GB/T 879.2-2000	Pin 4×20	2
19	EFG 125-00-106	Big combined fender	10
20	EFG 125-00-107	Small combined fender	3
21	GB/T 95-2002	Plain washer 12	15



Main Welding Assembly

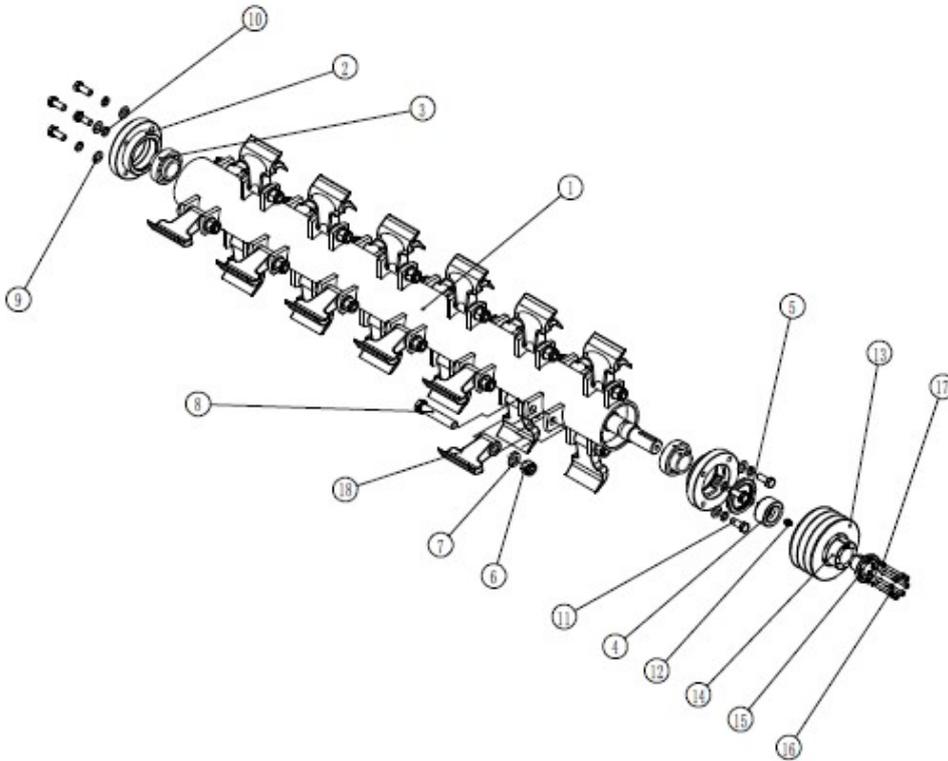
Ser.No	Reference	Name	Qty.
1	EFGL 125-01-011	Main welding	1
2	EFGL 125-01-012	Gear box seat(big)	1
3	EFGL 125-01-013	Gear box seat(small)	1
4	EFGL 125-01-126	Scaleboard	1
5	EFGL 125-01-127	Pin A	1
6	EFGL 125-01-128	End Cover	
7	EFGL 125-01-132	Side Sway Cylinder	1
8	EFGL 125-01-130		
9	EFGL 125-01-131		
10	EFGL 125-01-015	Rotating Center Weldment	1
11	EFGL 125-01-118	Inner Moon Plate	1
12	EFGL 125-01-117	Outer Moon Plate	2
13	EFGL 125-01-116	Pin 3	1
14	EFGL 125-05-114	Pin 1	1
15	SF-2	Sleeve SF-2 6540	2
16	EFGL 125-01-115	Pin B	1
17	JB/T 7940.1-1995	Oil cup 6	4
18	JB/T 7940.1-1995	Oil cup 10	2
19	EFGL 125-01-135	Short pin for Moon Plate	1
20	EFGL 125-01-129	Long pin for Moon Plate	1

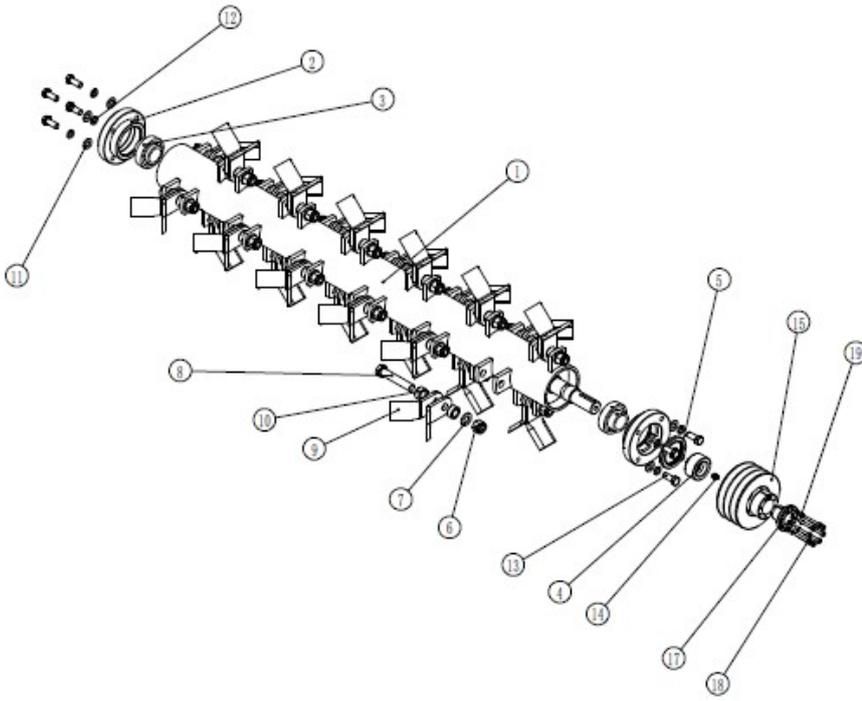
21	GB/T 889.1-2000	Locknuts M24	4
22	GB/T 96.1-2002	Big plain washer 12	10
23	GB/T 5783-2000	Bolts M12×5	2
24	GB/T 5783-2000	Bolts M8×20	2
25	GB/T 97.1-2002	Plain washer 8	2
26	GB/T 93-1987	Spring lock washer 10	2
27	GB/T 5783-2000	Bolts M10×35	5
28	GB/T 97.1-2002	Plain washer 10	4
29	GB/T 93-1987	Spring lock washer 10	8
30	GB/T 5783-2000	Bolts M12×50	2
31	GB/T 6170-2000	Nuts M12	2
32	EFGL 125-02-011	Gearbox	1
33	EFGL 125-02-103	Belt Wheel(Big)	1
34	EFGL 125-02-104	Outer swellable sleeve	1
35	EFGL 125-02-107	Inner swellable sleeve	1
36	GB/T 5783-2000	Bolts M12×30	8
37	GB/T 93-1987	Spring lock washer 12	8
38	GB/T 70.1-2000	Screw M6×40	8
39	GB/T 93-1987	Spring lock washer 6	8
40	EFG 125-00-103	Plastic cover	1
41	GB/T 96.1-2002	Big plain washer 10	4
42	GB/T 5783-2000	Bolts M10×20	4
43	GB/T 889.1-2000	Locknuts M12	2



Blade Axle Assembly

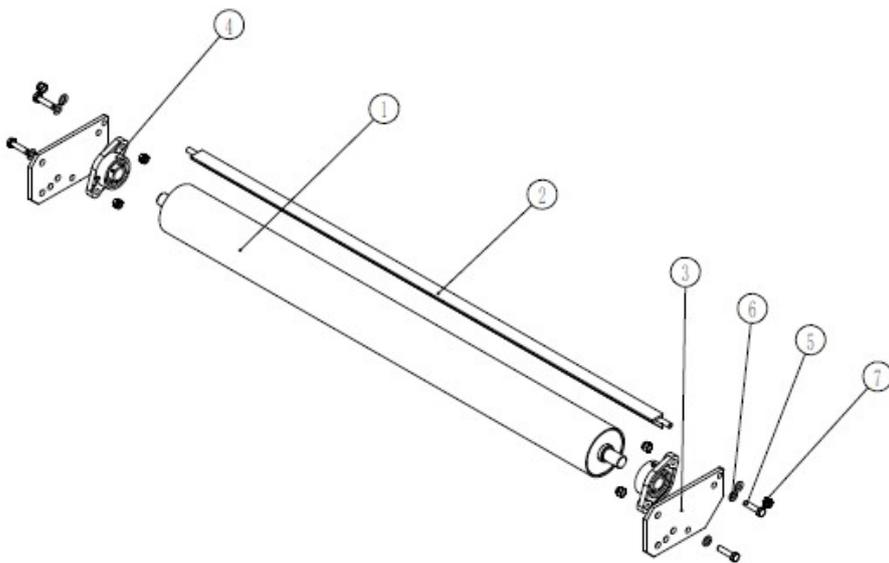
Ser.No	Reference	Name	Qty.
1	EFGL 125-03-011	Blade axle	1
2	EFG 125-03-101	Bearing housing	2
3	GB/T 3882-1995	Bearing UC 207	2
4	EFG 125-03-107	Sleeve	1
5	GB/T 13871.1-2007	Oil seal B55×75×8	1
6	GB/T 889.1-2000	Locknuts M16	24
7	GB/T 97.1-2002	Plain washer 16	24
8	GB/T 5782-2000	Bolts M16×90	24
9	GB/T 97.1-2002	Plain washer 12	8
10	GB/T 93-1987	Spring lock washer 12	8
11	GB/T 5783-2000	Bolts M12×30	8
12	JB/T 7940.1-1995	Oil cup 10	1
13	EFGL 125-02-105	Belt wheel(small)	1
14	EFGL 125-02-106	Outer swellable sleeve	1
15	EFGL 125-02-108	Inter swellable sleeve	1
16	GB/T 70.1-2000	Screws M6×40	8
17	GB/T 93-1987	Spring lock washer 6	8
18	EFG 125-03-109	Hammer	24





Roller Assembly

Ser.No	Reference	Name	Qty.
1	EFG 125-04-011	Roller	1
2	EFG 125-04-012	Mud shield	1
3	EFG 125-04-105	Hanging plate	2
4	GB/T 7810-1995	Bearing UCFLU205	2
5	GB/T 5783-2000	Bolts M10×40	4
6	GB/T 97.1-2002	Plain washer 10	6
7	GB/T 889.1-2000	Lock nuts M10	6



Sway Frame Assembly

Ser.No	Reference	Name	Qty.
1	EFGL 125-05-014	Hanging weldment	1
2	EFGL 125-05-012	Sway frame weldment(big)	1
3	EFGL 125-05-011	Sway frame weldment(small)	1
4	EFGL 125-05-013	Stay bar	2
5	EFGL 125-05-101	Pin for stay bar	2
6	EFGL 125-05-114	Pin 1	1
7	EFGL 125-05-115	Pin 2	1
8	EFGL 125-01-134	Parallel movement cylinder	1
9	EFGL 125-01-133		
10	EFGL 125-01-130		
11	GB/T 889.1-2000	Locknuts M24	3
12		Small R-pin	2
13	EFGL 125-05-116	Pin	1
14	EFG 125-00-018	Lock pin	3
15	EFG 125-00-124	Sup. suspension pin	1
16	JB/T 7940.1-1995	Oil cup 10	4
17	SF-2	Sleeve SF-2 3030	8

