FiMAKS

www.fimaks.com
www.fimaksloader.com
service@fimaks.com

Organize Sanayi Bolgesi
Cadde No:5 Bina No:2 16500
M.K.PASA / BURSA / TURKIYE

USERS MANUAL

BIGDRUM 2200

ROW INDEPENDENT MAIZE CHOPPER

TABLE OF CONTENTS

1 Introduction

1.1 General

Congratulations with your new FIMAKS BigDrum2200 Maize Chopper.

With a FIMAKS you are assured of quality and performance. The FIMAKS Chopper was produced after intensive research and tests. One of the main goals was to produce machines meeting the latest norms and prescriptions of the EEC in use, operation, safety, maintenance and lifetime.

Before you put your maize chopper into use, we ask you to read this manual very carefully. You will get the most benefit from your investment when you follow the instructions in this manual for use and maintenance.

Directional indications such as 'left', 'right', 'front' and 'rear' are to be interpreted when facing in direction of travel, with the maize chopper attached to the rear of the tractor.

1.1.1 Destination and intended use

- Bigdrum2200 chopper is suitable for harvesting silage maize and other crops.

Every other use than described above excludes your supplier from every responsibility.

1.1.2 Customers

The customers this manual refers to are supposed to be competent and technically skilled persons.

Competent persons are persons who:

-have obtained a certain knowledge by means of course/training (intern course specifically for the chopper) and who are proficient in using the machine.

Technically skilled persons are persons who:

-are competent and who
-have obtained a certain technical knowledge by means of course/training and
-are acquainted with the technique of the machine and who are aware of the possible dangers and rises

With operating we mean:

adjusting the machine, working with the machine, cleaning and doing simple maintenance.

The goal / function of this manual is to create a safe and efficient interaction between human and machine.

1.1.3 Used symbols

To focus on certain subjects or actions, the following symbols are used.

	***WARNING / DANGER OF LIFE*** ***You can injure yourself if you don't execute the procedures carefully.***
	***CAREFUL*** ***The machine can be damaged if you don't execute the procedures carefully.***
	***ATTENTION*** ***A remark with additional information; warns you for possible problems.***
	***TIP*** ***Gives you suggestions and advises to make certain tasks easier or handier.***

For questions or problems this manual doesn’t answer, consult your dealer or FİMAKS.

1.2 Liability and warranty

- You may not deviate from the intended use mentioned above in any way, without written permission of the manufacturer. If you do, liability and warranty will expire.
- Original FIMAKS accessories can be installed afterwards, if done by the manufacturer or the dealer, in accordance with the assembly and control indications of the manufacturer.
- Modifying the machine is not allowed. All liability and responsibility of the manufacturer will expire. Resulting damage, also damage to third-party, are never covered by the guarantee.
- Before the product left the factory, a lot of care was taken to save you from material and/or manufacturer defects. If these might still appear, FIMAKS will place all parts that show defects after normal use at your disposal, free of charge, till twelve months after delivery (with the exception of wear). This warranty will expire if the use and safety prescriptions in this manual are not completely or not correctly followed up.

2 Technical specifications

ROWS	3
HEIGHT (mm)	4200
LENGTH (mm)	2800
WIDTH (mm)	2400
WEIGHT (kg)	2000
CHUTE FOLDED HEIGHT (mm)	3640
PTO (rpm)	1000
POWER REQUIREMENT (kW/hp)	115/150
CHOPPING LENGTH MIN.(mm)	4,5
NUMBER OF KNIVES	12
NUMBER OF PALLETS	12
TYRES	2x(185/80 R14)
SUSPENSION SYSTEM	Cat.II – III
CAPACITY (tons/hour)	80

3 Safety
3.1 Safety instructions

DANGER OF LIFE

- Look around the machine before putting the machine into operation! Pay attention to children! Ensure you have sufficient sight! It is forbidden to stand on the machine during work! Don't come in the working and danger range of the machine. Stay away from the slewing area of the machine.

WARNING

- Observe the specific indications of this user manual, but also the general applying prescriptions for safety and accident prevention!

-Do not stand in the crop intake path.

-The sharpening unit should only be operated from the sie, with the flywheel box closed. Wear safety glasses.

-Do not feed crop in manually, or by foot from behind.

-Make sure PTO shaft lever is "Off" and tractor engine turned off when working on the crop-chopper. Caution: the blade rotors continue to run when the gathering drums have stopped.

-Do not open flywheel box when machine is in motion. Caution: machine continues to run for a while when switched Off.

-Check that all blades are securely fixed.

-Connect universal shaft coupling with care.

-Ensure universal shaft guard is in good order at all times and secure protective tube in position.

-Do not alter the number of ribs on the universal shaft guard.

-When working under the machine, it must be supported.

-On public roads, the ejector chute should be rotated so that the end of the chute, or crop unit, does not project over the side or back.

-Road traffic lights regulations must be observed.

-When the flywheel is in operation, do not stand within swivelling radius of the ejector chute.

-Attachments should only be fitted when the machine is on flat ground.

-Release pressure in unit before disconnecting hydraulic lines. in the event of injury due to hydraulic oil ejected under pressure, seek medical attention.

-We recommend the use of suitable ear defenders.

-Before checking machine far blockages, disconnect all drives, switch off engine and ensure all parts have come to a standstill.

-The height of the machine should not exceed 4.30 m in order to avoid fouling high voltage overhead lines.

-The crop attachment must be secured with the mechanical locking lever to prevent it from inadvertently dropping down when in transit in road traffic.

-All machine operating components must be positioned next to the tractor seat guard.

-Gathering drum speeds over 52 rpm are not permitted due to possible risk of accident. The sawing speed would otherwise be too high.

-When selecting counterweights for carrier vehicle, make sure that admissible axle load and admissible total weight inclusive of attachments are not exceeded. Check that there is sufficient brake fluid and that tyre pressure is correct.

-The hydraulic system operates under high pressure. Any hoses showing signs of leaks, rupture or damage must be changed immediately. in addition, all hoses and lines must be exchanged after a maximum of 6 years.

-The maximum admissible oil pressure is 180 bar.

-Only use original Fimaks spare parts.

- Become familiar with all systems and control elements and their functions, before working with them! During work it's too late for that!

- Before every use, check machine for safety of work!

- As a user, wear close-fitting clothing! Avoid loose clothes!

- Only work with machines when the protection is complete, intact and in functional state!
- Immediately repair damage, before you work with the machine again!

- Check hydraulic hoses for damage regularly. Damaged hoses have to be replaced immediately with hoses of prescribed quality (SAE 100 R2A in accordance with DIN 20022/2). Never try to stop up a leakage of an operating motor with your hand. The oil can penetrate the skin and cause blood-poisoning.

3.2 Safety symbols

To contribute to injury prevention, there are placed an amount of decals at your mixer feeder with safety and warning indications. These draw your attention to risks that are still present when working with the machine, in spite of the safe design. Before putting the machine into use, always read the manual. Always follow up all instructions from the manual.

Check if the decals are all present. If this is not the case, don't work with the machine, but take contact with the dealer.

The decals consist of a picture that represents the danger (with the triangle) and a picture that makes clear how to avoid it. The decals always have to be clean and clearly legible. When damaged, always replace the decal. These are obtainable from your dealer.

3.2.1 Explanation of used safety symbols

Danger of life
Never reach into pick-up area as long as tractor engine is running with PTO connected.

Danger of life
Never reach into rotating auger.

Danger of life
Wait until all machine components have completely stopped before touching them.

Warning
Carefully read operator's manual before handling the machine. Observe instructions and safety rules when opening.

Warning
Shut off engine and remove key before performing maintenance or repair work.

Warning
Allow maximum PTO rpm for this machine 1000 rpm.

Danger of life
Stay clear of rotating drive line to avoid personal injury.

4. Base machine

Combined transmission and reversing gearbox

Forward, reverse and neutral position of the gathering drums is controlled from the tractor cab through the electric control box. 4 different chopping lengths can be set from the gearbox.

To avoid damage to not change gear while it is in motion!

Overload safety clutches on the chopper

Bigdrum 2200 is equipped with 4 overload safety devices.

1. Ball clutch in the bevel gear drive of the gathering drums.
2. Slip clutch on the gathering drum PTO.
3. Ball clutch on the top feed roll drive.
4. Ball clutch on the bottom feed roll drive.

Height adjustable skids

A When operating in stony ground, the skids should be raised so that the header can clear any obstacles.

B The skids on the torpedo dividers are also height adjustable

Reverse – Transmission gearbox

The basic design of the Bigdrum2200 is always the same. All machines are equipped with a gearbox for 2 flywheel speeds. There are two types of gearing:

Front mounted – 3 speed
Transmission gearbox (see fig. 3F)

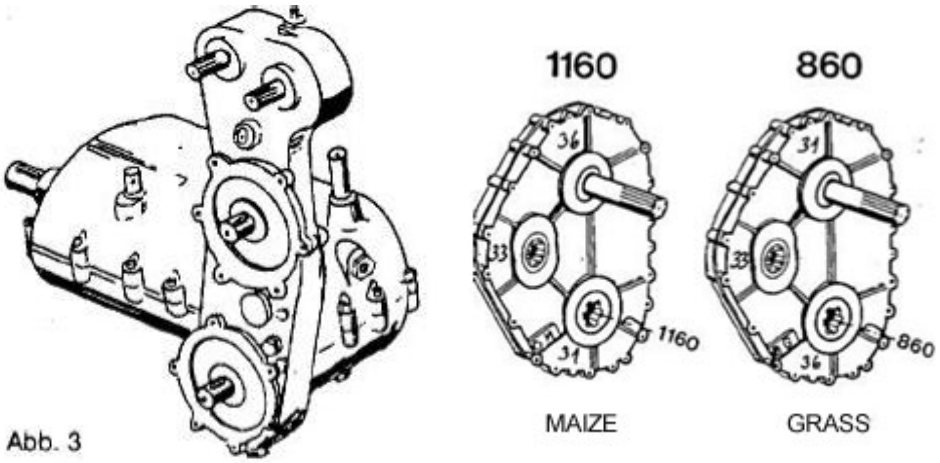
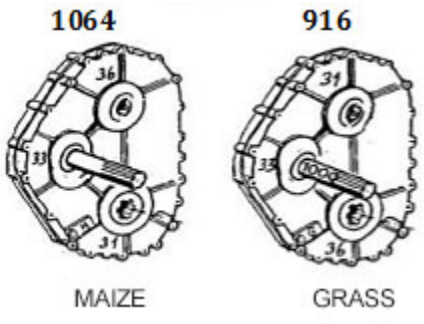


Abb. 3



Rear mounted – 2 speed gearbox
With reverse (Drive PTO with right-hand turning overrun clutch)

Operating in grass

See Figs. 83 & 85 for correct mounting. Changing the gear ratio (see Fig 82/84 and 83/85).

Another ratio can be obtained by turning the transmission and changing the drive shaft for the PTO shaft and flywheel.

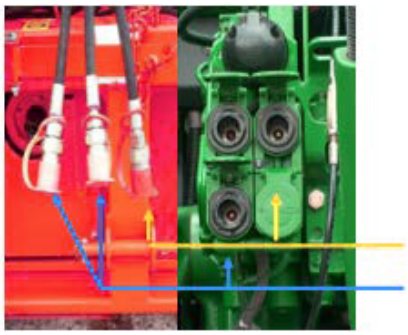
5. **Basic Adjustments**

Mounting on tractor side shift

Connect the 3-point hydraulic of the tractor with the chopper. Fix bottom attachment points against lateral movement.Choose tractor hydraulic on ”Position” control
Choose PTO 1000 rpm

Hydraulic connection

The chopper needs two hydraulic valves 1 double effect and 1 simple effect



SE = header piston

DE = chute move

Electric connections

Chopper needs 12V electricity

Battery +connect with red cable

Battery -connect with blue cable

Socket fix on the rear of the chopper

Support wheels

The height of the chopper can be adjusted by the support wheels. If there is uneven ground to choose height for mounting on tractor.
The gap between the chopper casing and flat ground should be about 5 cm.

Horizontal attachment

The chopper must be attached in horizontal position.
The top-point is fixing the chopper parallel behind the tractor.

Rotating speed of the chute

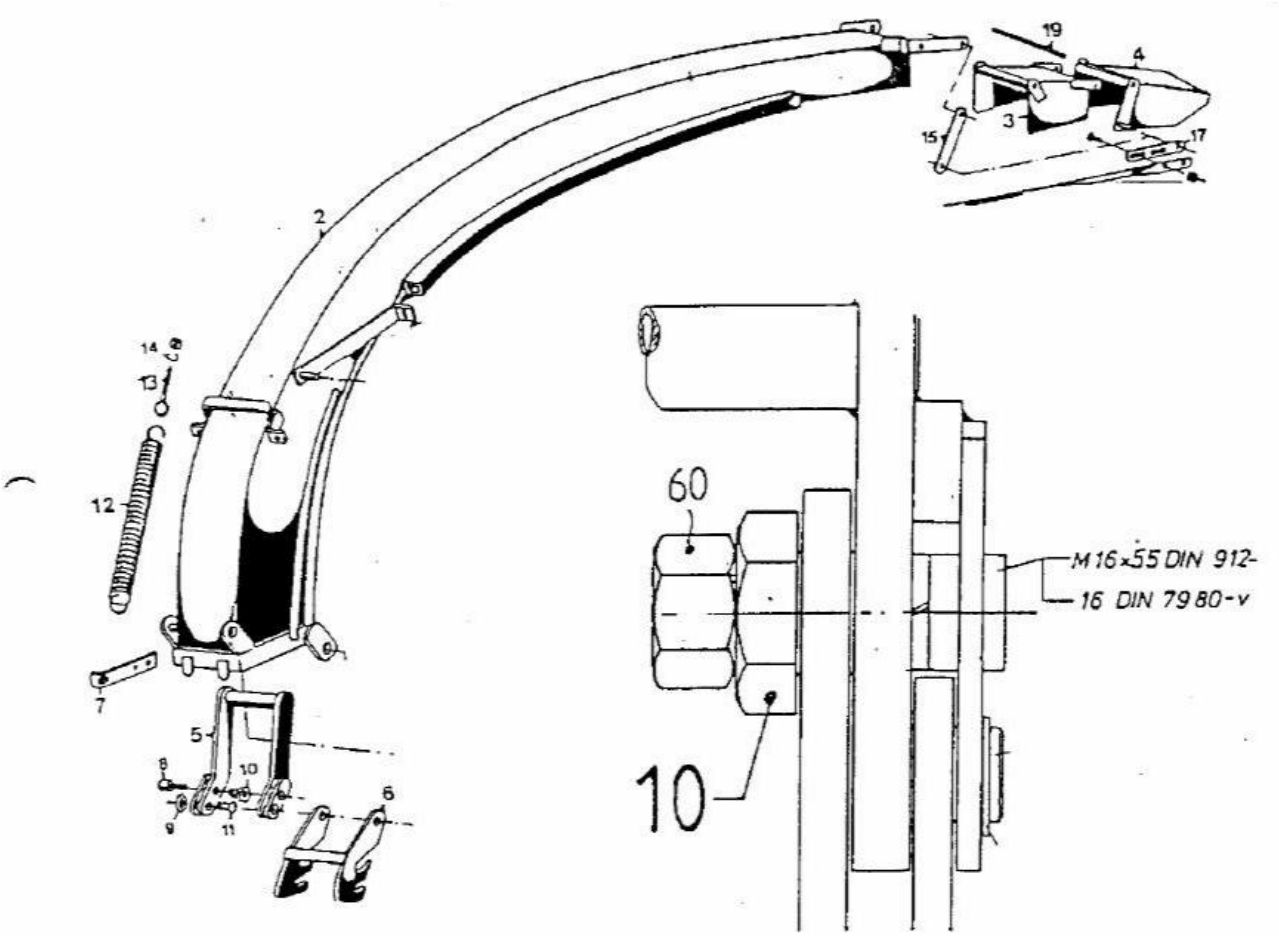
The chute is rotated by a hydraulic motor.

Transport position of the chute

To respect traffic regulations, chute can be folded.

Assemble chute

- Unfold the chute
- Lock the chute
- Place the pin



The cable is connected with motor by passing through tube.

Make sure that chute can turn without crashing the cable. Let big loop the cable.

Chute adjustment

1. Top chute section fixed to lower support by means of parts 5 and 6.
2. There will be a certain degree of wear in the first few days of use. This wear must be eliminated regularly by means of the eccentric nut 10, especially at the beginning.

FLYWHEEL DRIVE SHAFT

The transmission is coupled onto the flywheel drive shaft with 7 position options, so that the PTO can be aligned as straight as possible in the working position, even with the most unfavourable PTO connection position.

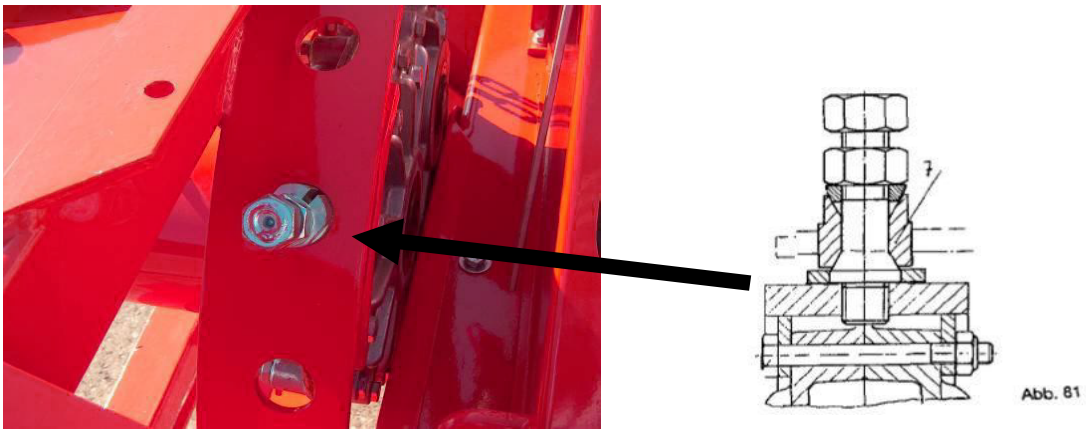
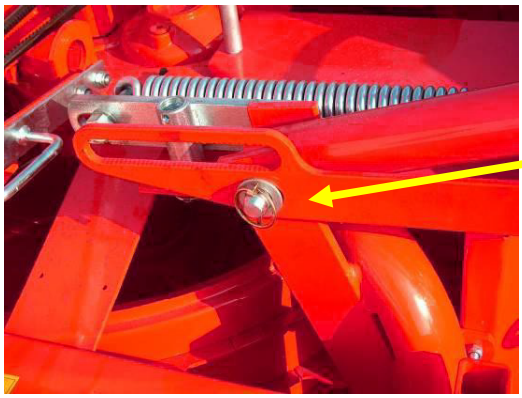


Abb. 81

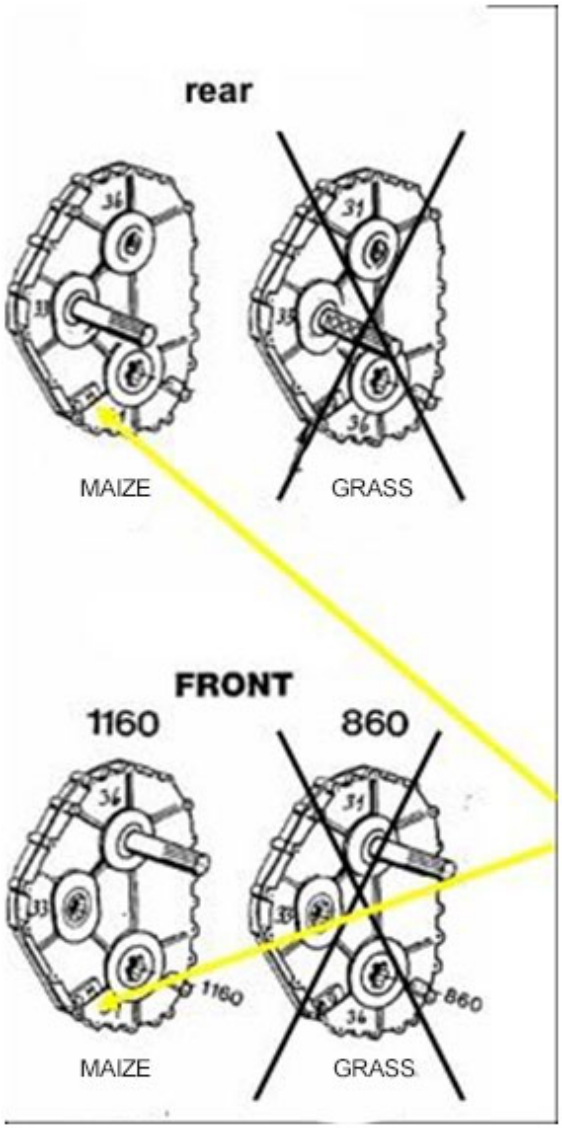


Release transport securities

The header must be secured against inadvertent lowering with the mechanical locking bolts when the machine is moved on the road.

At work

Change position of plate to liberate into floating position. Lock with lock pin.The header unit is hinged onto the chopper with a main spring balance. Adaptation to ground contour is achieved with the two height adjustable skids on the maize header divider prongs.



According to the machine type (front or rear chopper) change PTO shaft of gearbox.

- Front or rear mounted
- Grass or maize harvesting

For maize harvesting “M” must show to tractor.

Attention: connect pin cutting side of PTO on chopper gearbox

Cutting Length

The cutting length gearbox has two possibilities to change gears. To pass lever into second position gearbox has to be in neutral position.

<u>Attention</u>
To pass between gears 1+2 to 3+4 gear levers have always to be in neutral position.

An equal crop flow to the chopper guarantees a good chopping quality and higher working speed. The optimal drum rotation is about 20-30 rpm, look table.

1=fast drum rotation
2=slow drum rotation

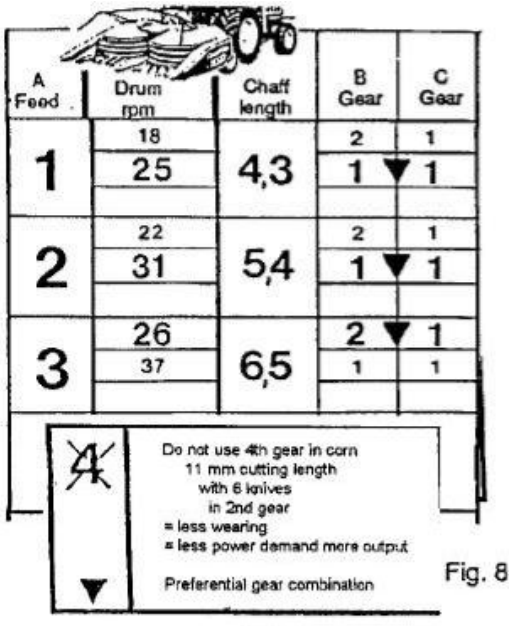


Fig. 8

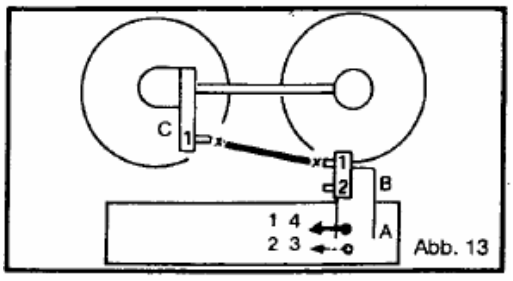


Abb. 13

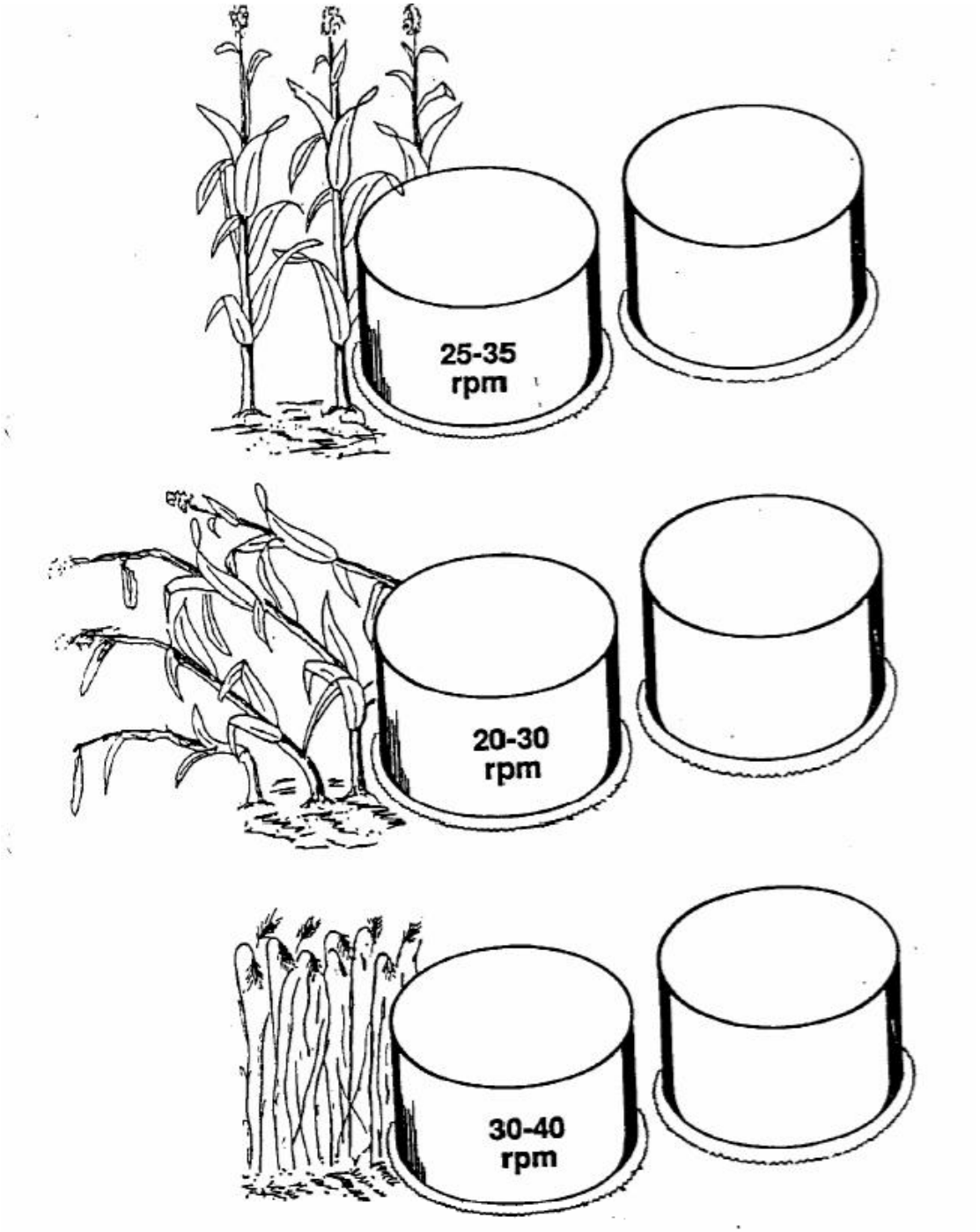


Fig. 86

"Engage and disengage the drive to the header as little as possible."
In contrast to chain type headers, the gathering drum speed should be observed to protect the cutting assembly drive.

ALWAYS START AT NO LOAD

Due to the high inertia of the rotating Parts, start up the header at the lowest possible speed and always without any load. You may reverse and re-engage the header at full speed if there is a blockage. In practice, this works best at full speed. Engaging and re-engaging the header (and reversing if there is a blockage) at full speed is then possible provided the blade rotors have more or less maintained their speed by running in neutral.

Gathering drum speed

The correct gathering drum speed for coarse stemmed crops such a maize, beans or sunflowers is as follows:

Standing crops 25-35 rpm
Whole crop silage 30-40 rpm
Laid maize 20-30 rpm

The speed is higher for whole crop silage as the sawing speed needs to be higher for thin-stemmed crops to ensure optimum cutting. For further advice See below.

Crop flow

To ensure smooth crop flow through the machine, a large volume is needed for both maize and whole crop silage (this also applies to short maize). Speed should therefore be as high as possible. Two maize rows or one only should not be harvested from the middle, but with one gathering drum only. This ensures a better material flow, the stems are not broken off and driving is more comfortable. See Fig. 30.

Harvesting short maize

In principle, a high speed is needed for harvesting short maize, to ensure smooth crop flow. The guide rail must be lowered or the road guard system retracted. See Fig. 31

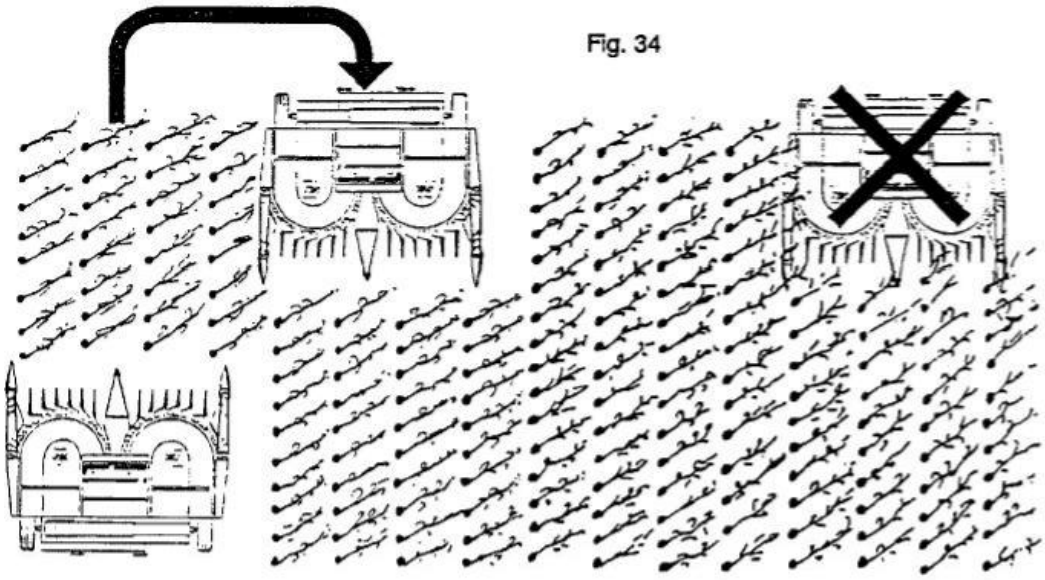
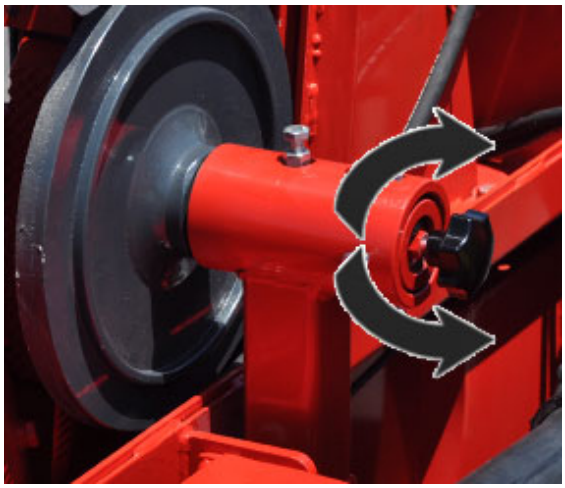


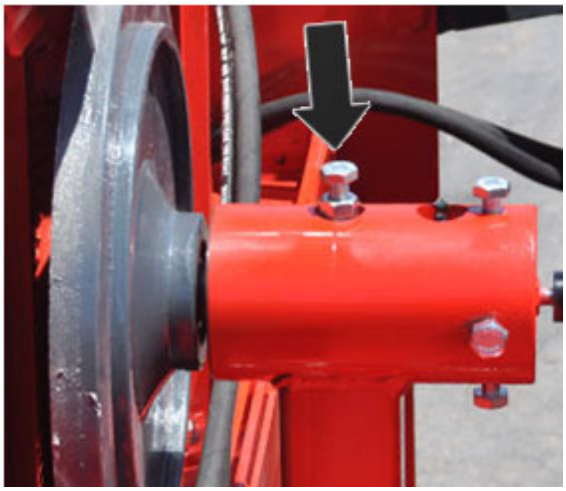
Fig. 34

GRINDING DEVICE

To obtain an optimum chopping quality use the grinding device several times a day.

Working with the Grinding Device





Start chopper; PTO with 540 rpm; header is out of work! The disc must revolve when sharpening; eventually the revolutions of the tractor must be increased until sparks fly.

Open Grinding Stone Protector
Release security bolt of grinding device.

Move the grinding stone carefully towards the blades. After contact has been made between blade and grinder stone, turn the rear handle a further ¼ turn.
After this adjustment, the shaft of the grinding stone is prevented from moving further against the blade by the handle on the side.

Note: The grinding disc is harder with increased revolutions and softer with reduced revolutions. If the grinding disc seems to be too hard it is because of the high number of revolutions of the blade wheel.
Too hard: reduce revolutions
Too soft: increase revolutions

With too many revolutions there will be a smooth and shiny grinding disc surface. With a lower number of revolutions, the disc will have a good grip. If this does not happen immediately, the contact pressure should be increased for a short while. It is often enough to slightly score the wheel with a flex.

After grinding:
- turn back grinding device
- fix it with lock bolt
- close protector

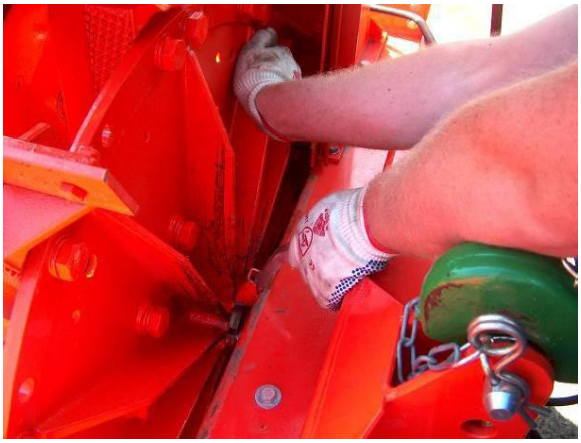
Adjust chopping wheel

After grinding the knives the chopping wheel must be adjusted towards the counter blade. Even to compensate for wear check twice daily that the blades are parallel to the shear bar.

Open wheel protector.

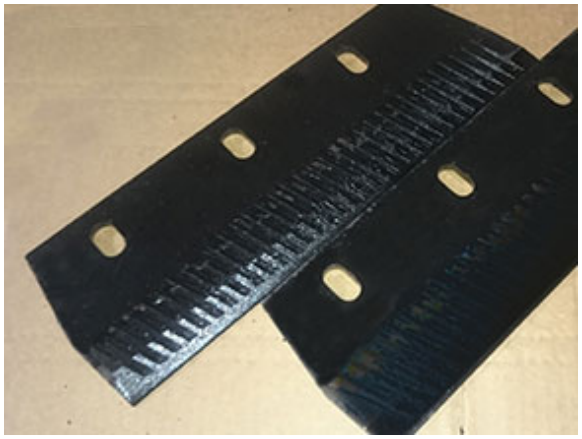
Release securing spring to release nut.

Insert 16mm rod in adjusting nut.



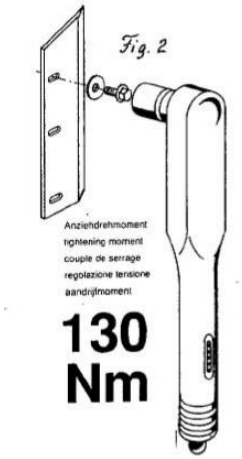
Turn flywheel manually until the blades touch the shear bar.

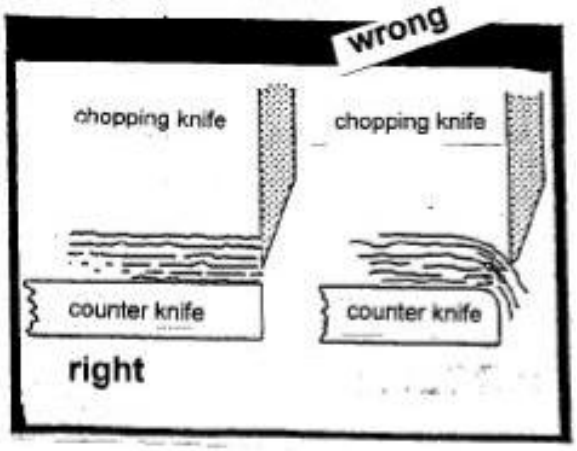
Then turn flywheel one spring turn back. The flywheel should not touch the shear bar. Repeat adjustment. The gap between the blades and shear bar should not exceed 0,5mm.



The blade positioning is obtained by the long holes. Even often sharpened blades can be set close to shear bar.

<u>Attention:</u> Respect tightening torque.





Change or turn shear bar

Control counter blades often. This saves fuel and ensures good chop quality.

Ejector plates

A high transportation performance of the chopped crop is depending on good ejectors. They can be turned four times.

Alignment of flywheel

The flywheel is completely aligned at factory. For this reason use only genuine parts. Blades, blade holders & rocker paddles can only be changed as pairs.

The maximum allowable weight difference is 20grams.

Check and change Shear Bar and adjust smooth roller

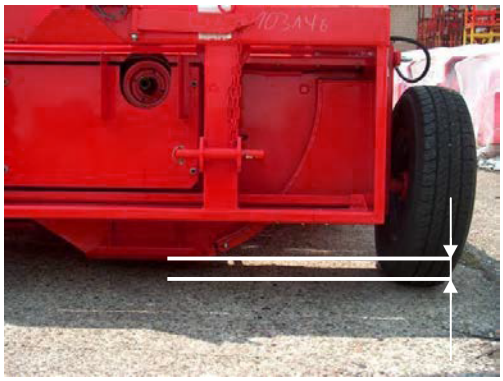
From the top of the flywheel the shear bar can be checked visually.

To change shear bar lift up intake rollers. Therefore release one tour both sides the upper front bolts.

Take off bottom bolts on both sides.
M12X30: 2 left side
2 right side

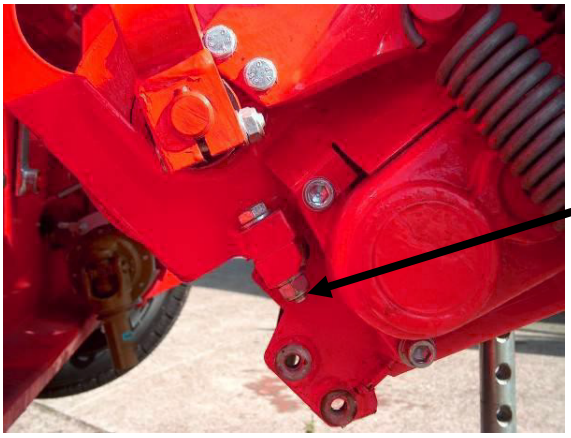
Lift up feed rollers with a long tube.

Before working put stand under lifted rollers.



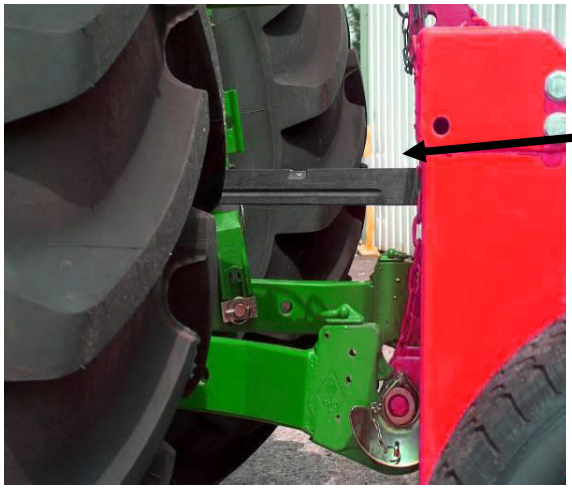
The shear bar can be checked, changed or tuned.

Adjust scraper of smooth roller



To adjust scraper release bolt M12. Adjust the scraper so that the gap between this and the smooth roller is no more than 0,5mm and tighten screws firmly.

Working position



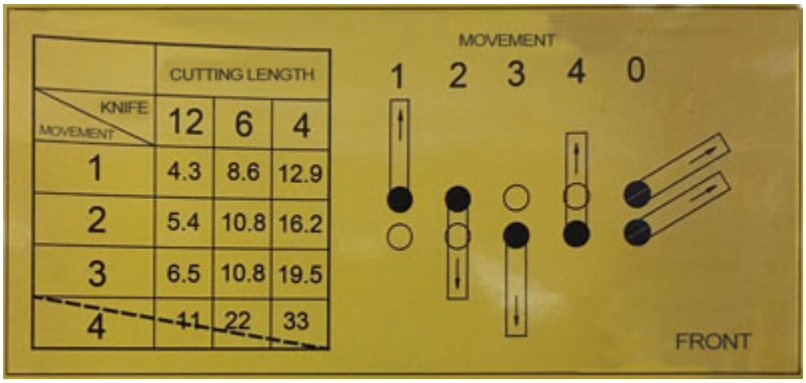
Connect machine in base position so that the PTO shaft is horizontal. Choose length of the top point so that the chopper is vertical behind the tractor.

To avoid damages on the chopper during the work adjust support wheel to obtain 5cm between ground and the flywheel housing. Lift tractor hydraulic about 12cm that wheels do not touch the ground by harvesting.

To lift header at the end of the field use only hydraulic cylinders on the chopper.

PTO Speed

Use PTO 1000 rpm. To obtain a regular and good chopping quality keep PTO speed regular.

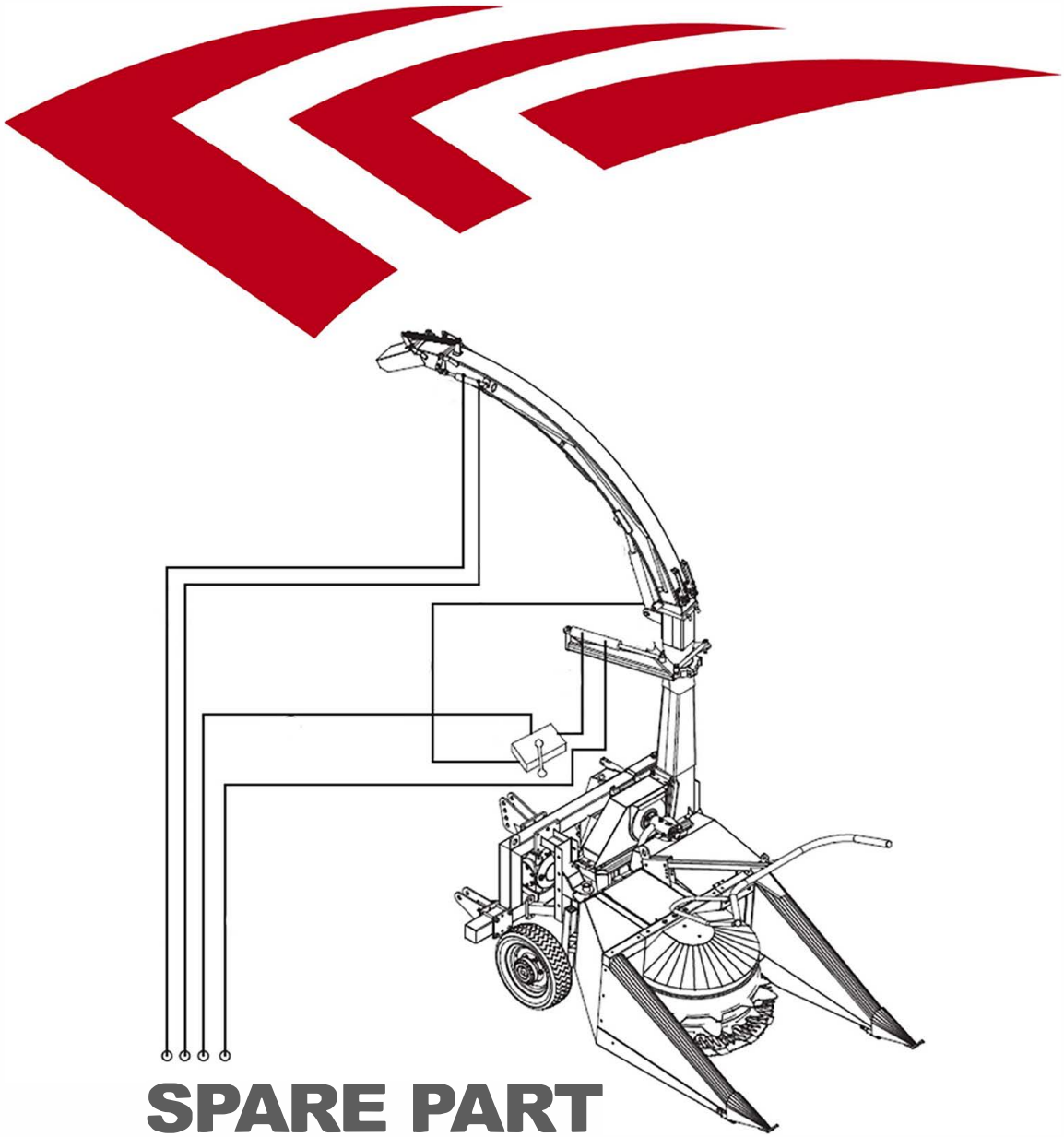


Never use 4th gear for security reasons and to protect gearbox. If you need different cutting length take out knives.

Connecting intake components

When commissioning the crop chopper, whether with maize header or grass pick-up, we always recommend running the intake unit with the tractor idling. Due to the always speed of the blade rotors and relatively high oscillating mass, intake at full speed should be avoided as far as possible. Engaging and disengaging (reversing in the event of blockages) at full speed, including in quick succession, can then be done provided the blade rotors more or less maintain their speed in relation to idling.

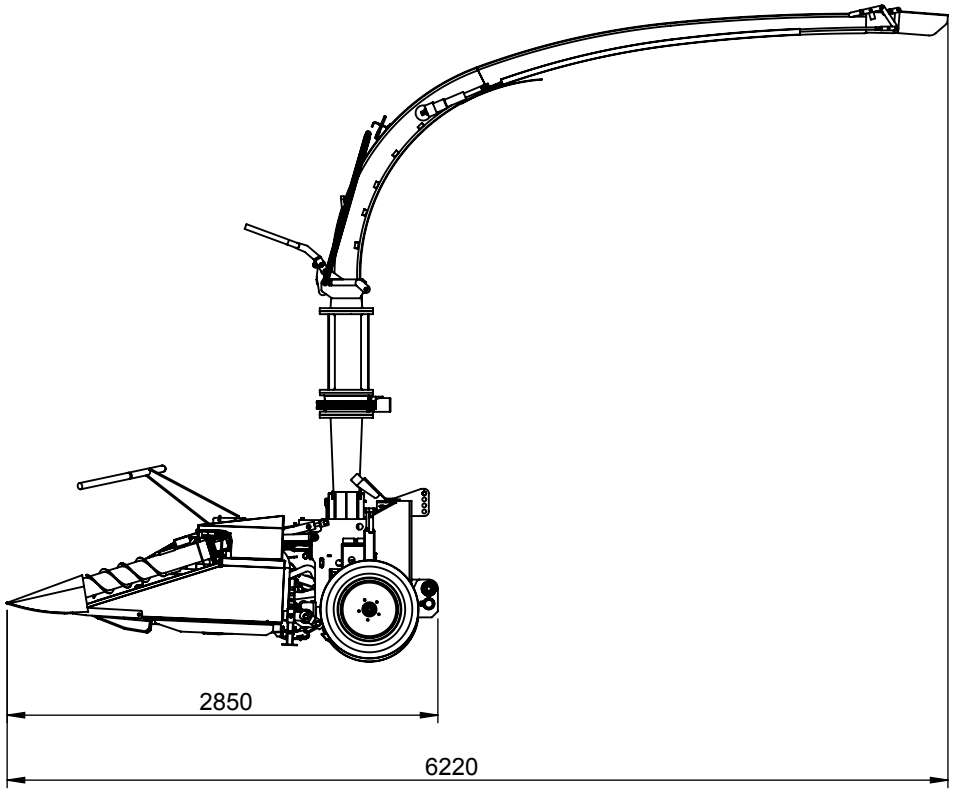
Controller unit

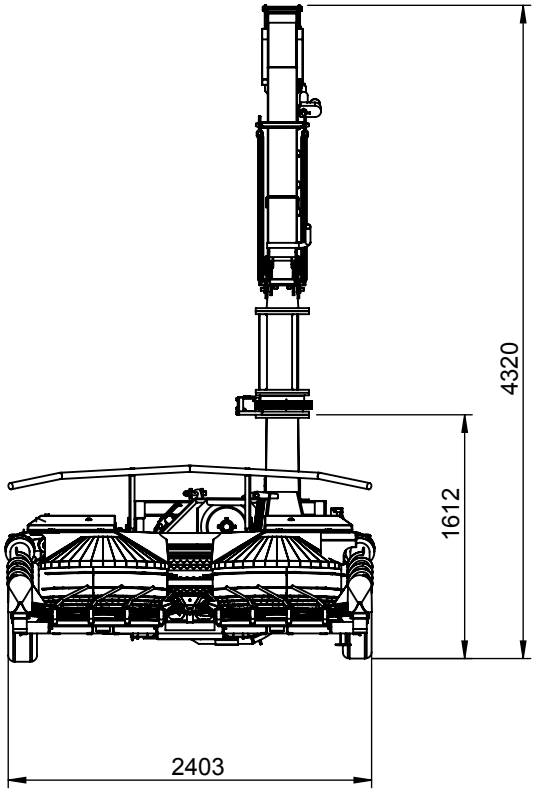


SPARE PART CATALOGUE

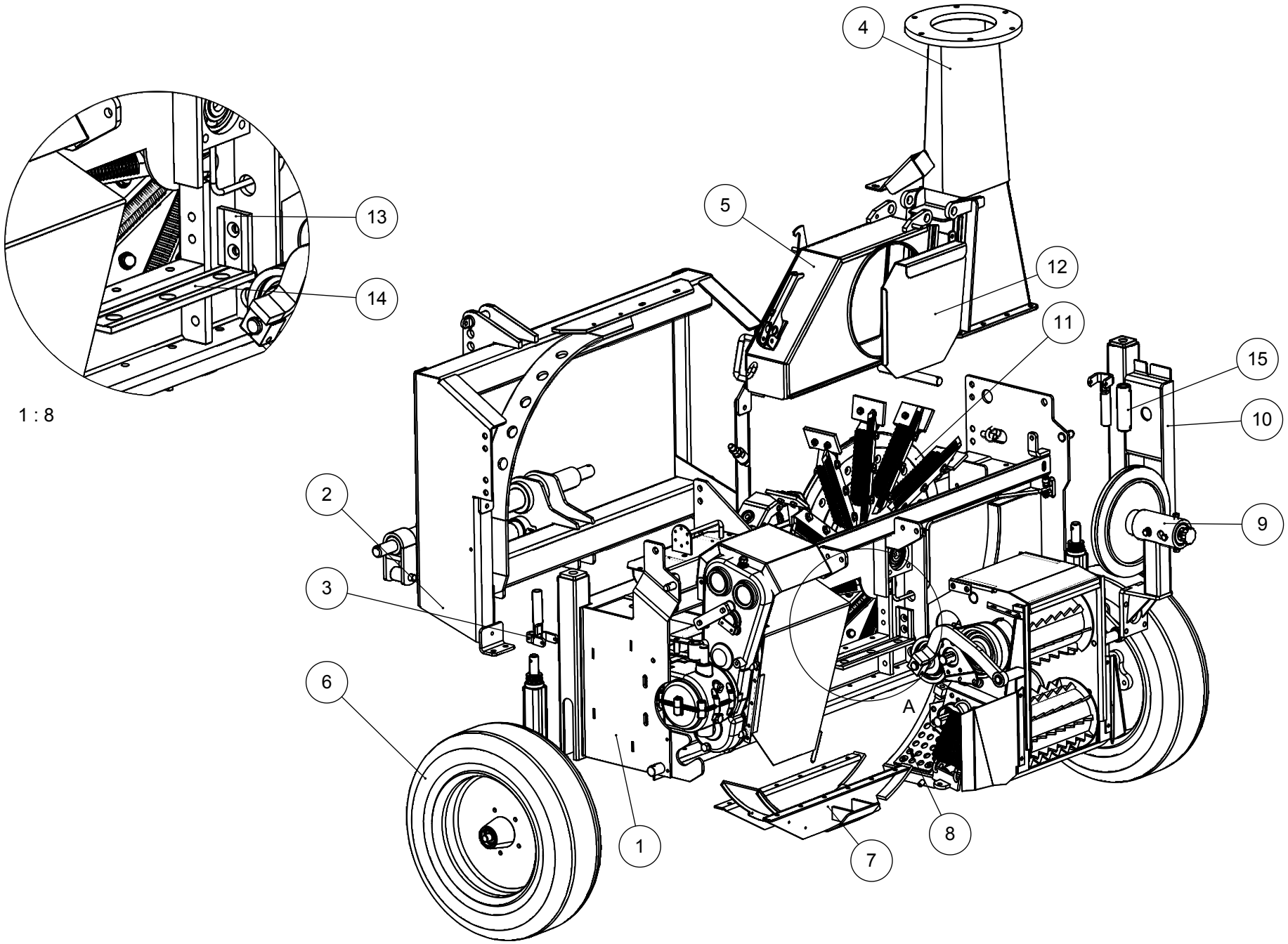
BIGDRUM 2200 ROW INDEPENDET MAIZE CHOPPER

CHARACTERISTICS	BIGDRUM 2200
ROWS	3
LENGTH(m)	2,8
HEIGHT(m)	4,2
WIDTH(m)	2,4
WEIGHT(kg)	2000
NUMBER OF KNIVES	12
TYRES	2 x 185/80 R14
CONNECTION	Cat.II-III
PTO(rpm)	1000
POWER REQUIREMENT(kW/hp)	115/150
CUTTING LENGTH	4,5 mm
CAPACITY	8 decare/h



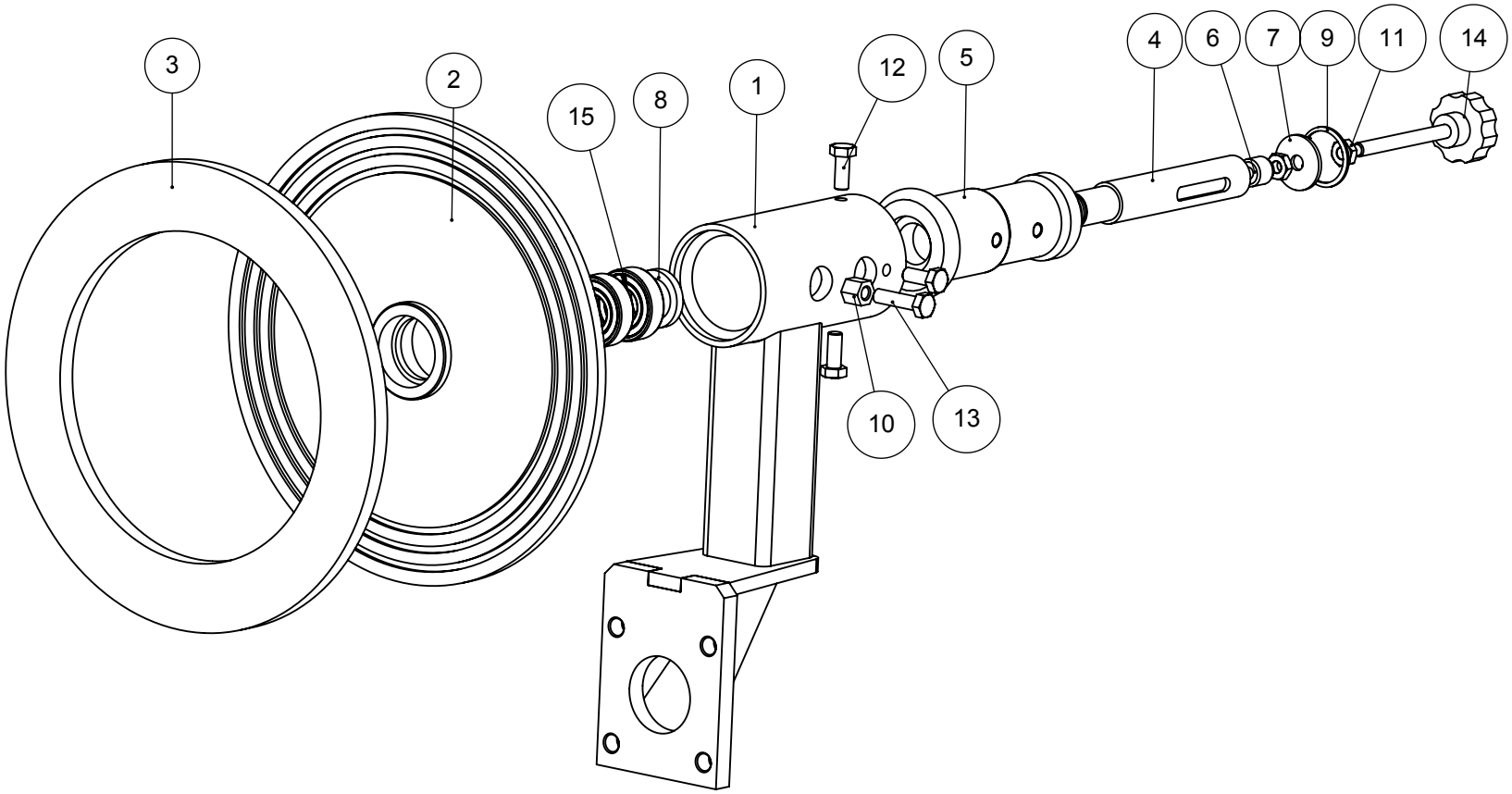


REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	SIRA BAĞIMSIZ (3 SIRA)	



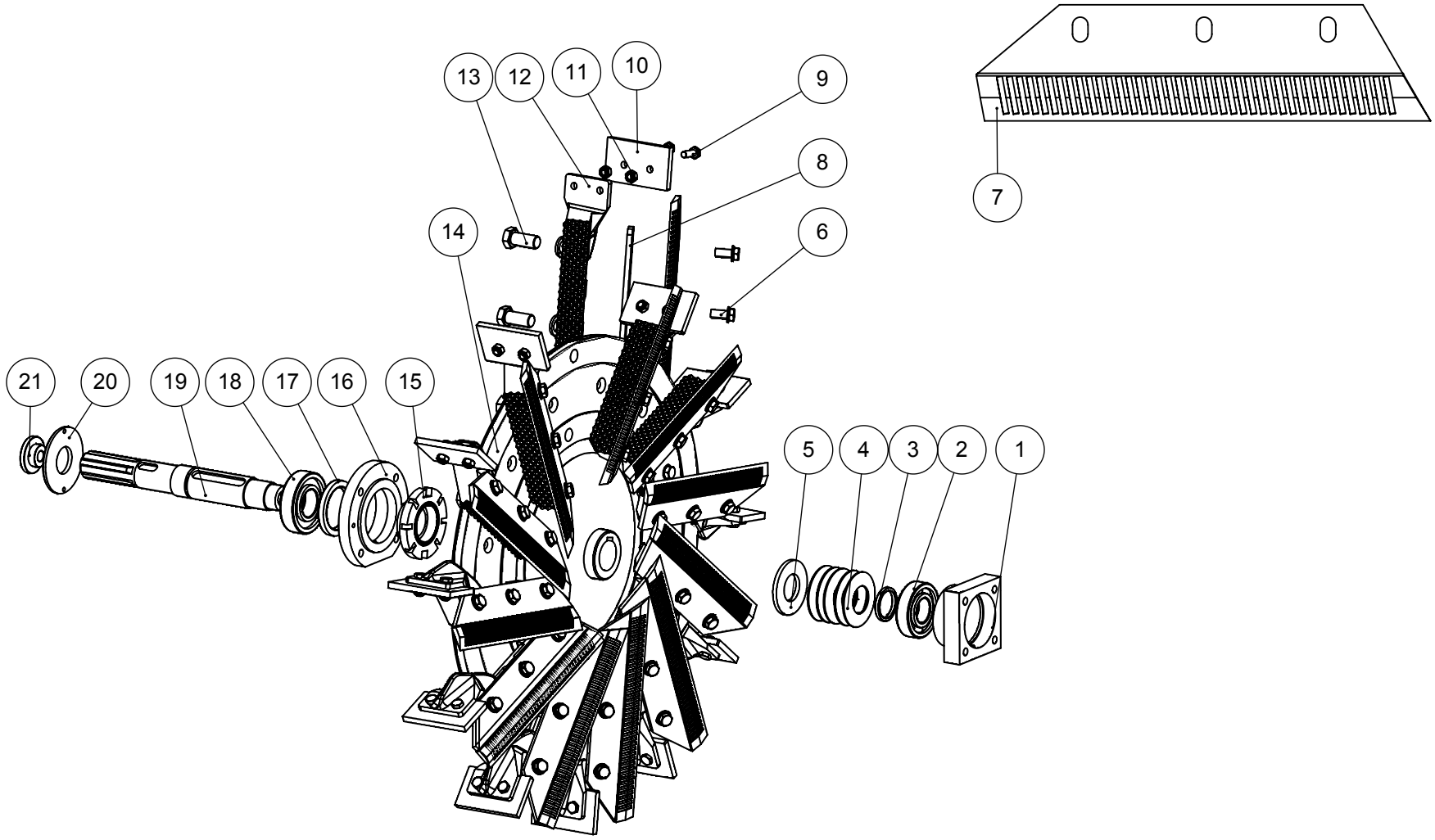
REFERANS NO	PARÇA ADI	KATALOG NO
	FAN ALT MONTAJ GRUBU	01

01			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.01.01.000	FLYWHEEL LOWER COVER WELDED	1
2	215.20.01.000	CHASSIS WELDED COMPLETE	1
3	215.17.00.000	TYRE LIFTING COMPLETE	2
4	215.19.01.000	LOWER CHUTE WELDED	1
5	215.04.00.000	FLYWHEEL UPPER COVER COMPLETE	1
6	215.22.00.000	TYRE GROUP COMPLETE	2
7	215.05.00.000	LOWER COVER COMPLETE	1
8	215.06.00.000	SIDE COVER WELDED COMPLETE	1
9	215.16.00.000	GRINDING COMPLETE	1
10	215.07.00.000	TYRE CONNECTION COMPLETE	1
11	215.02.00.000	FLYWHEEL COMPLETE	1
12	215.14.00.000	GRINDING COVER COMPLETE	1
13	215.01.00.002	COUNTER KNIFE SHORT	2
14	215.01.00.001	COUNTER KNIFE	1
15	215.01.00.011	TYRE LIFTING BUSHING	1



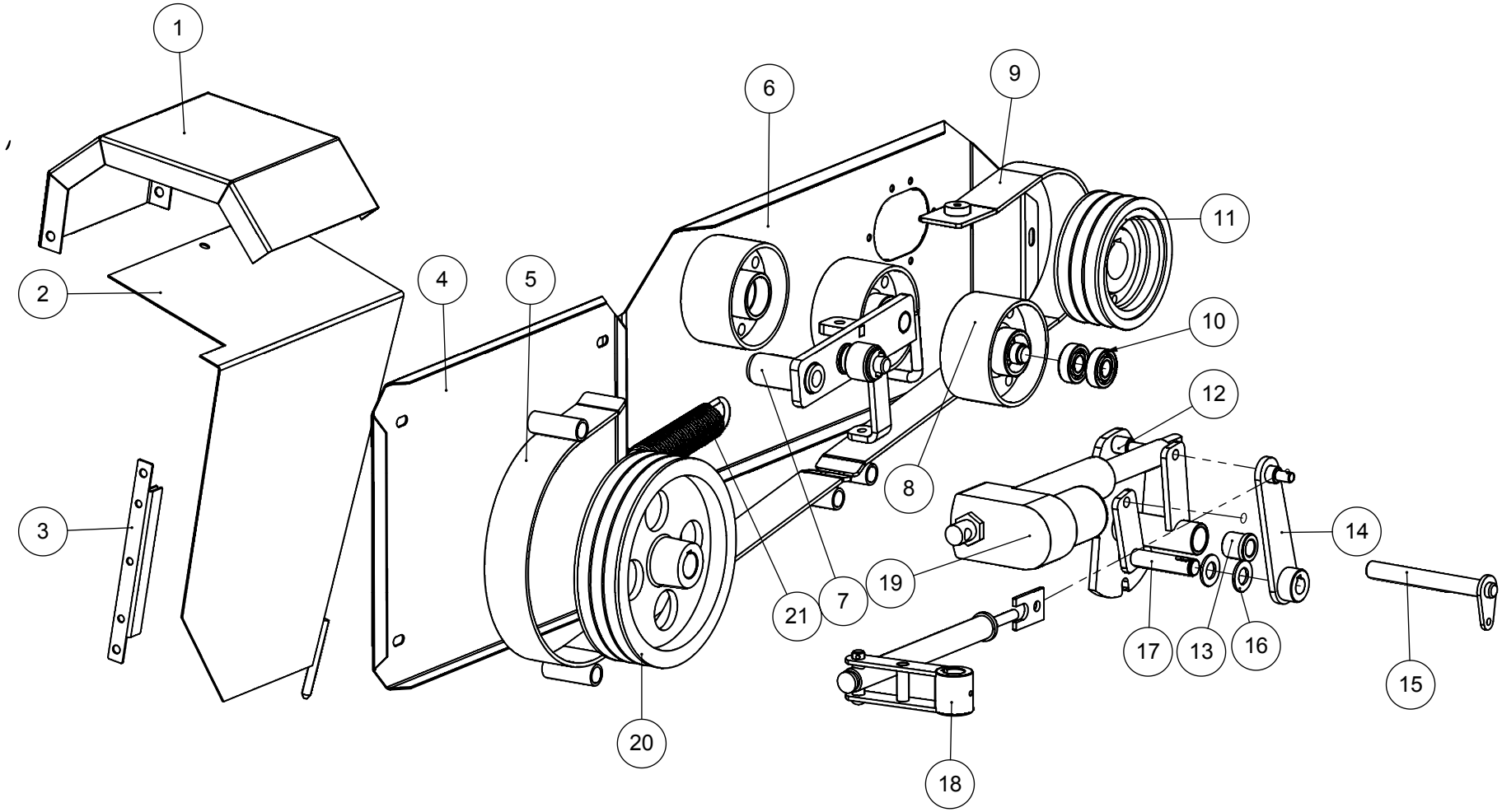
REFERANS NO	PARÇA ADI	KATALOG NO
	BIÇAK BİLEME GRUBU	02

02			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.16.01.000	GRINDING BODY	1
2	215.16.02.000	GRINDING BUSHING COMPLETE	1
3	215.16.00.002	GRINDING STONE	1
4	215.16.00.001	GRINDING SHAFT	1
5	010.13.00.007	SHAFT BODY	1
6	215.16.00.004	MOVEMENT BOLT	1
7	215.06.00.005	SUPPORT WASHER	1
8	100.000326	SEALING 30X42X7	1
9	100.000420	RING 472/40	1
10	100.000175	BOLT M10 SUPPORTIVE	1
11	100.000172	NUT M10	4
12	100.000007	BOLT M10X25	3
13	100.000019	BOLT M10X40	1
14	100.000890	BOLT M10X100 BUTTERFLY HANDLING	1
15	100.001253	BEARING 6205 2RS G100 C3	2



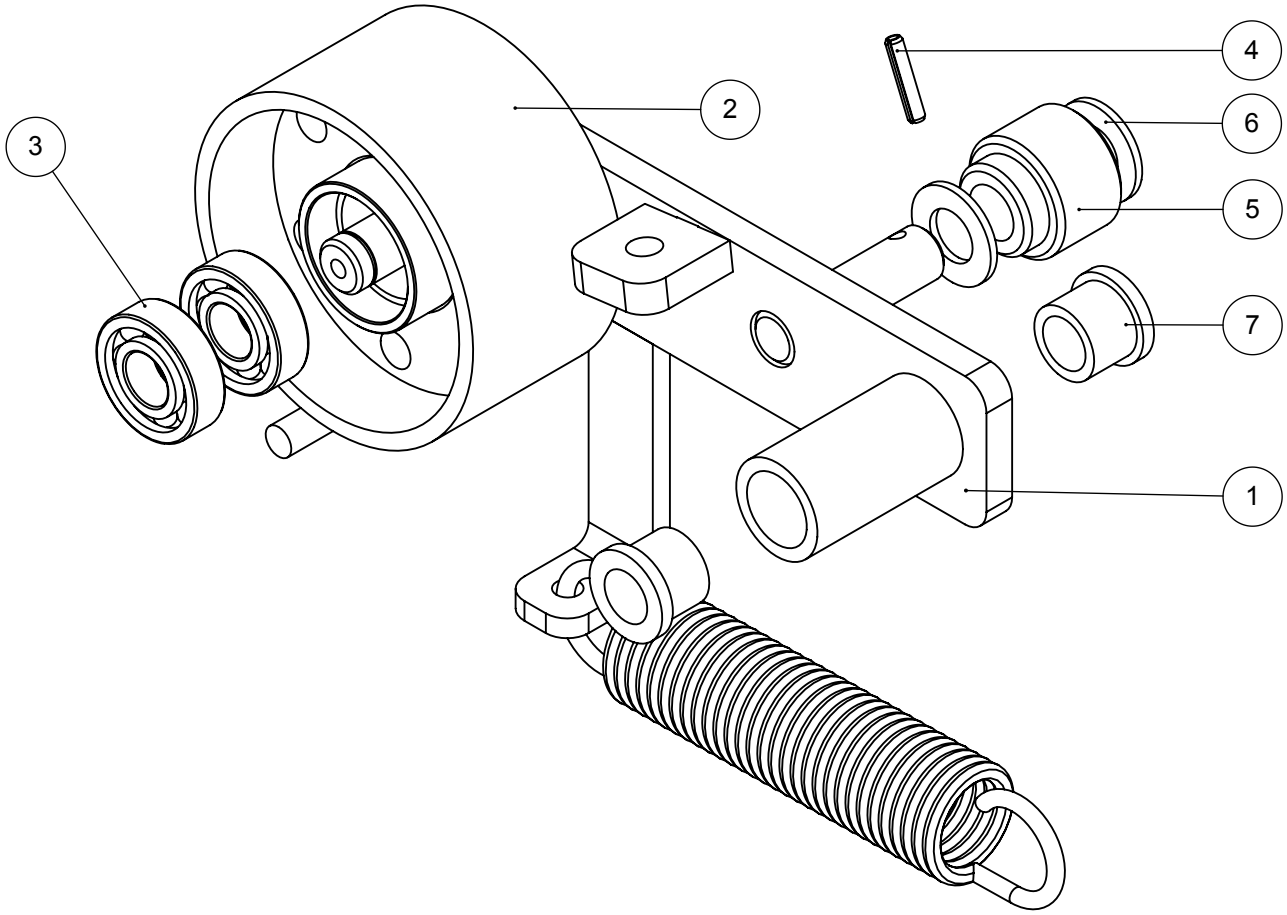
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	FAN GRUBU KOMPLE	03

03			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.01.00.017	FLYWHEEL SHAFT BEARING BEDDING	1
2	100.001218	BEARING 6308 2RS	1
3	215.01.00.012	PRESSURE WASHER MIDDLE	1
4	197.00.00.090	CONICAL WASHER	5
5	215.01.00.005	PRESSURE WASHER	1
6	100.000042	BOLT M12X30 WITH FLANGE	36
7	215.00.00.013	BIGDRUM 2200 KNIFE – TUNGSTEN	12
8	215.02.01.006	KNIFE LOWER SHEET	12
9	100.000013	BOLT M10X30	24
10	215.02.00.001	WINDING PALLET	12
11	100.000174	NUT M10 FIBER	24
12	215.02.00.003	KNIFE LOWER SUPPORT	12
13	100.000113	BOLT M20X50	24
14	215.02.01.000	FLYWHEEL WELDED	1
15	215.01.00.016	FLYWHEEL ADJUSTMENT BOLT	1
16	215.01.00.021	FLYWHEEL SHAFT BEARING BEDDING	1
17	100.001246	SEALING 70X90X10	1
18	100.002037	BEARING 6309 2RS G64 C3	1
19	215.01.00.009	FLYWHEEL SHAFT	1
20	215.01.00.015	PULLEY MIDDLE WASHER	1
21	215.01.00.013	FLYWHEEL PULLEY FIXING WASHER	1



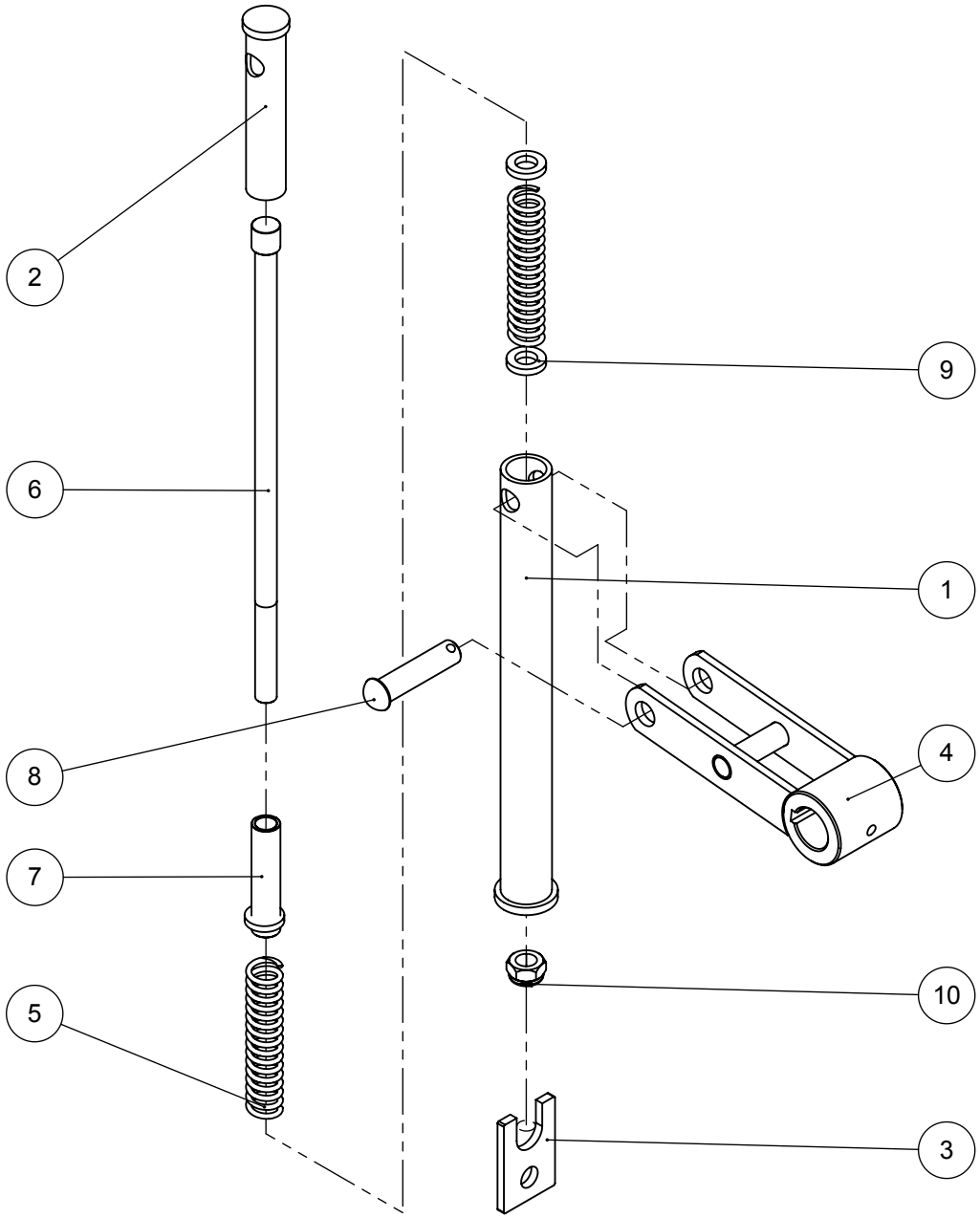
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	KAYIŞ GERGİ KUSTURMA GRUBU	04

04			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.01.00.007	FRONT GEARING GROUP COVERING SHEET	1
2	215.38.00.000	FRONT GEARING GROUP COVERING COMPLETE	1
3	215.47.00.000	COVERING HOLDER COMPLETE	1
4	215.01.00.006	TRANSMISSION PULLEY COVER	1
5	215.13.00.000	BIGGER PULLEY PROTECTION SHEET	1
6	215.00.00.016	CHASSIS SIDE COVER	1
7	215.21.00.000	BELT TENSION COMPLETE	1
8	197.14.00.001	PULLEY TENSION ROLLER	2
9	215.12.00.000	SMALLER PULLEY PROTECTION SHEET	1
10	100.000771	BEARING 6204 2RS G64 C3	2
11	215.01.00.014	FLYWHEEL SHAFT PULLEY	1
12	215.08.00.000	REVERSING GEARBOX TENSION	1
13	215.08.00.002	TENSION FIXING WASHER	2
14	215.10.00.000	REVERSING TENSION WELDED	1
15	215.15.00.000	TENSION CONNECTION SHAFT	1
16	215.01.00.020	MIDDLE BRONZE WASHER	2
17	215.09.00.000	REVERSE TENSION INNER	1
18	215.46.04.000	REVERSING ARM COMPLETE	1
19	100.004754	LINEER ACTIVATOR 2500N- STROKE 150MM	1
20	215.01.00.019	BIGGER FLYWHEEL PULLEY	1
21	215.00.00.037	BELT TENSION SPRING	1



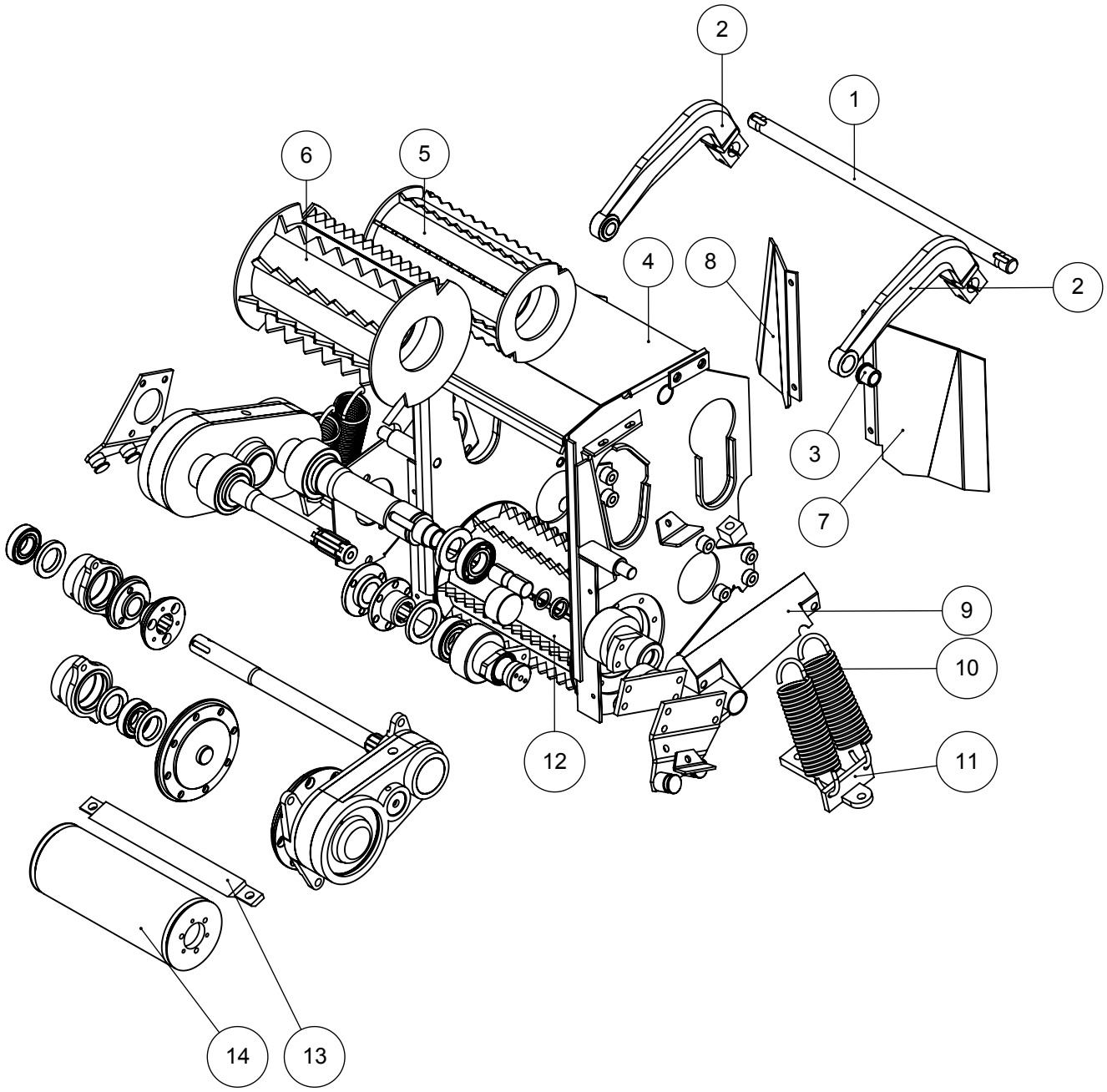
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	KAYIŞ GERGİ MAKARA GRUBU	05

05			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.21.01.000	BELT TENSION WELDED	1
2	197.14.00.001	PULLEY TENSION ROLLER	2
3	100.000771	BEARING 6204 2RS G64 C3	2
4	100.000444	PIN WITH CUT Ø6X30	1
5	215.21.00.003	MIDDLE SHAFT	1
6	100.000209	WASHER M20	2
7	215.21.00.001	PULLEY INNER WASHER	2



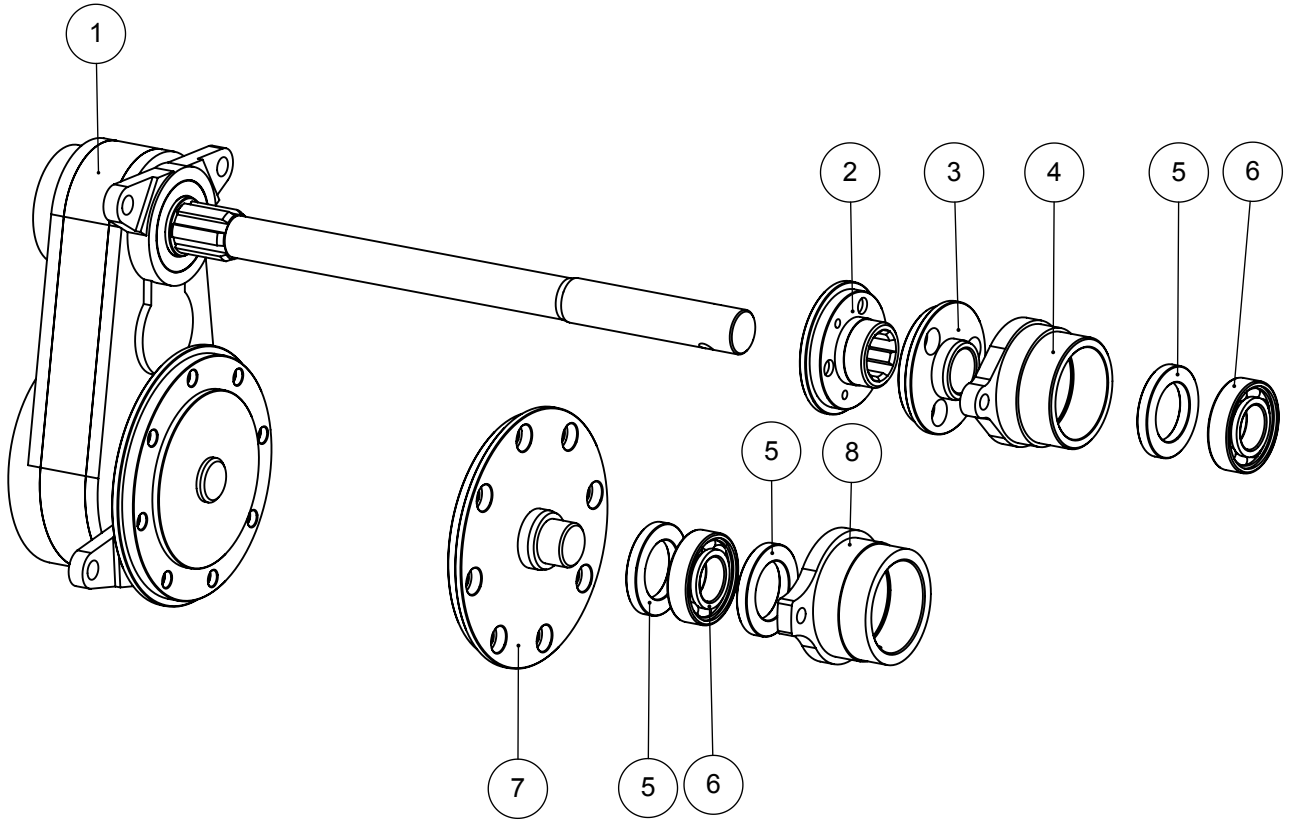
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	MEKANİK PİSTON GRUBU	06

06			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.46.00.000	GEARBOX SHIFTING ARM COMPLETE	1
2	215.46.02.000	UPPER PIPE COMPLETE	1
3	215.46.03.000	HEADER COMPLETE	1
4	215.46.04.000	ROTATING ARM COMPLETE	1
5	215.46.00.001	SHIFTING TENSION SPRING	2
6	215.46.00.002	ARM SHAFT	1
7	215.46.00.003	SPRING MIDDLE PIPE	1
8	215.46.00.004	FIXING PIN	1
9	215.46.00.005	MIDDLE WASHER	2
10	100.000177	NUR M12 FIBER	1
11	100.000176	NUT M12	1



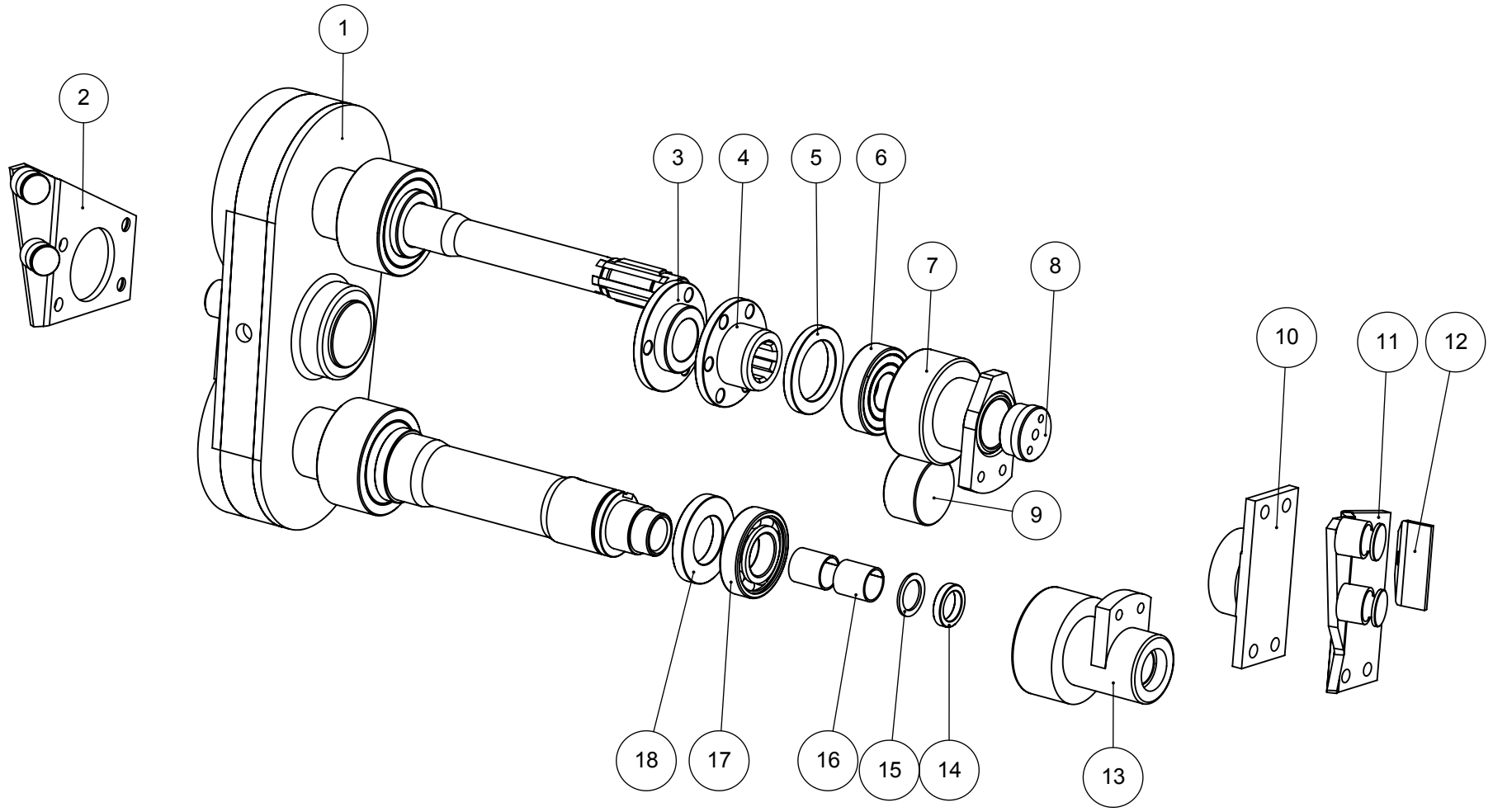
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	ÖN ALICI GRUP	07

07			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.03.00.006	SPACER SHAFT	1
2	215.03.11.000	IDLING ARM COMPLETE	2
3	215.03.00.007	IDLING BUSHING	2
4	215.03.01.000	FRONT GROUP BOX COMLETE	1
5	215.03.04.000	CRUSHING DRUM COMPLETE	1
6	215.03.02.000	FRONT UPPER DRUM COMPLETE	1
7	215.03.00.001L	FRONT GROUP LEFT COVER	1
8	215.03.00.001R	FRONT GROUP RIGHT COVER	1
9	215.03.00.003	HOSE PROTECTION SHEET	1
10	215.03.00.010	TENSION SPRING	4
11	215.03.14.000	SPRING CONNECTION COMPLETE	2
12	215.03.15.000	FRONT LOWER DRUM COMPLETE	1
13	215.03.00.004	SCRAPER	1
14	215.03.03.000	FLAT DRUM	1



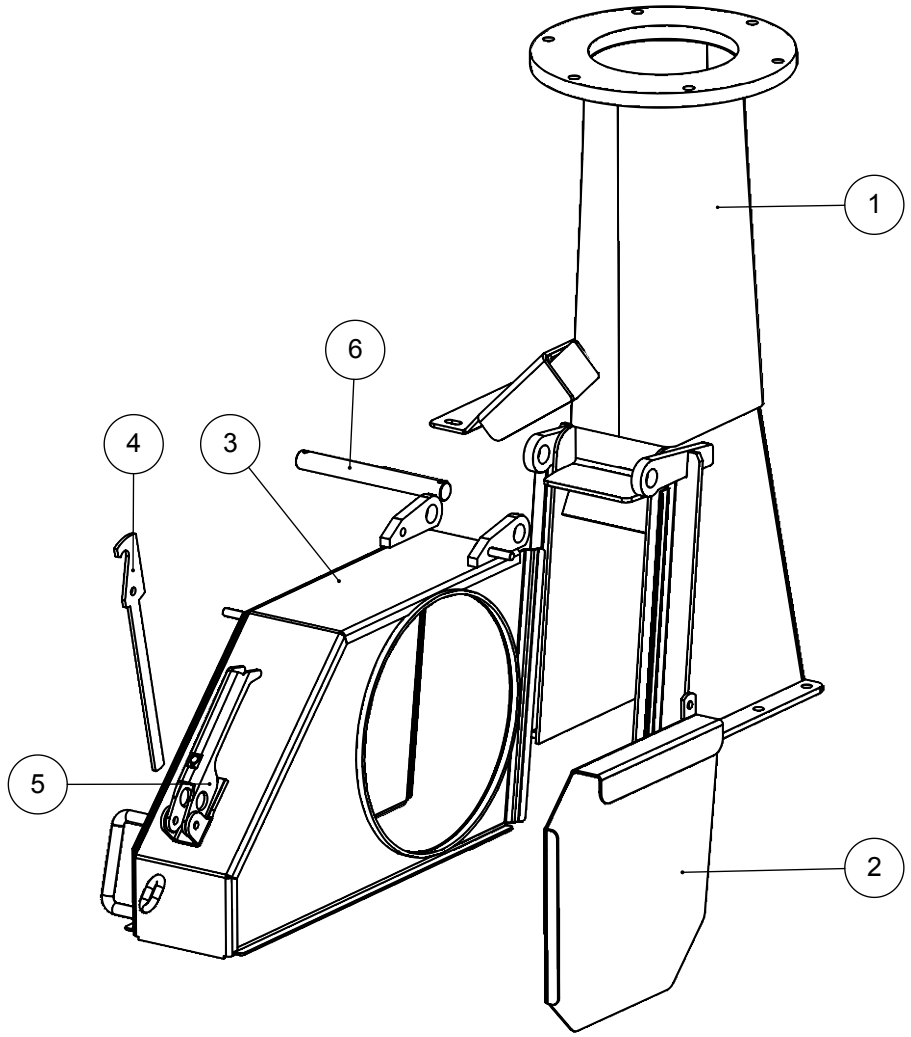
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	ALICI GRUP ALT ŞANZIMAN	08

08			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.06	FRONT GROUP LOWER GEARBOX	1
2	215.03.00.015	FRONT DRUM CONNECTION WITH CUT	1
3	215.03.00.012	FRONT DRUM CONNECTION	1
4	215.03.06.000	FLAT DRUM BEDDING	1
5	100.003983	SEALING 40x62x7 BA	3
6	100.000773	BEARING 6206 2RS G64 C3	2
7	F215.03.05.000	CONNECTION FLANGE COMPLETE	1
8	215.03.07.000	LOWER DRUM BEDDING	1



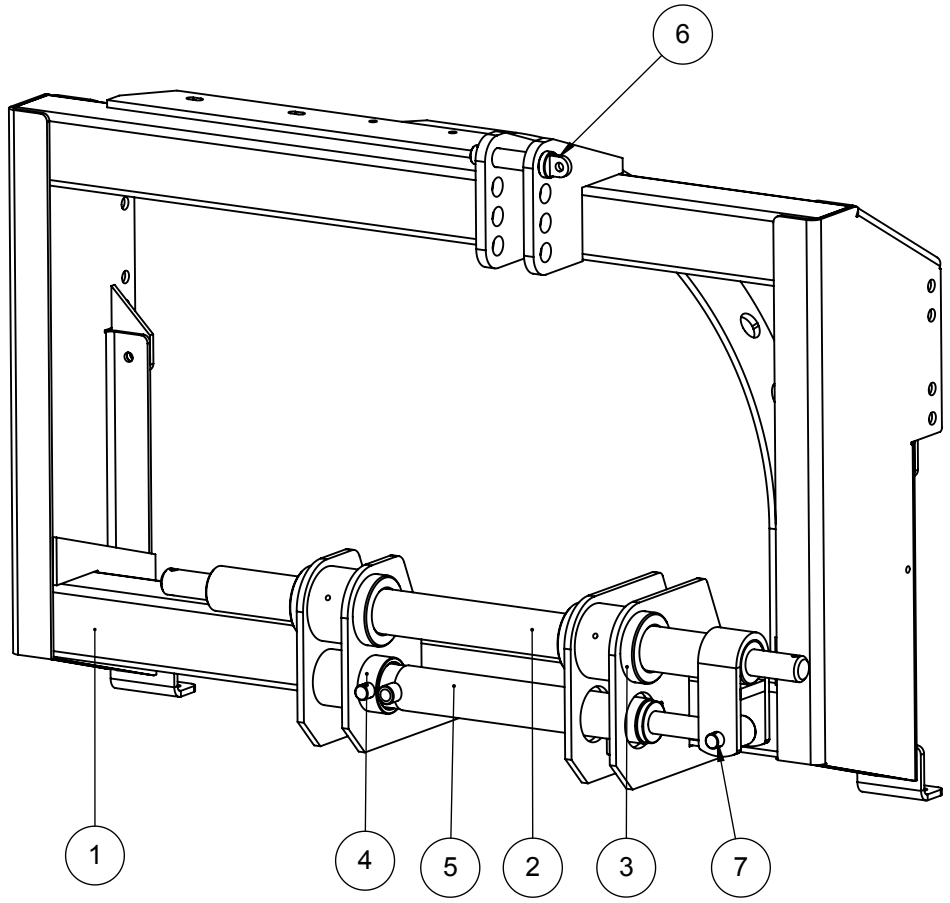
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	ALICI GRUP ÜST ŞANZIMAN	09

09			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.07	FRONT GROUP UPPER GEARBOX	1
2	215.03.13.000	TENSION HOLDER LEFT	1
3	215.03.00.011	FRONT UPPER DRUM BEDDING FLAT	1
4	215.03.00.014	FRONT UPPER DRUM BEDDING WITH KEY BEDDING	1
5	100.001.153	OIL SEALING 50X72X8	1
6	100.000662	BEARING 6306 2RS G100 C3	1
7	215.03.08.000	UPPER DRUM BEDDING	1
8	215.03.00.009	GREASING WEDGE	1
9	215.03.00.008	FRICTION POLYAMIDE	1
10	215.03.10.000	FRICTION PLATE COMPLETE	1
11	215.03.12.000	SPRING TENSION GROUP	1
12	215.03.00.005	SPRING NAIL	1
13	215.03.09.000	CRUSHING DRUM BEDDING	1
14	100.001147	SEALING 25X35X7	1
15	100.002946	WASHER LINER Ø35X25X2	1
16	100.001208	BUSHING (GREASED) PAP 2530 P20	2
17	100.000808	BEARING 6207 2RS G100 C3	1
18	100.000342	SEALING 40X72X10	1



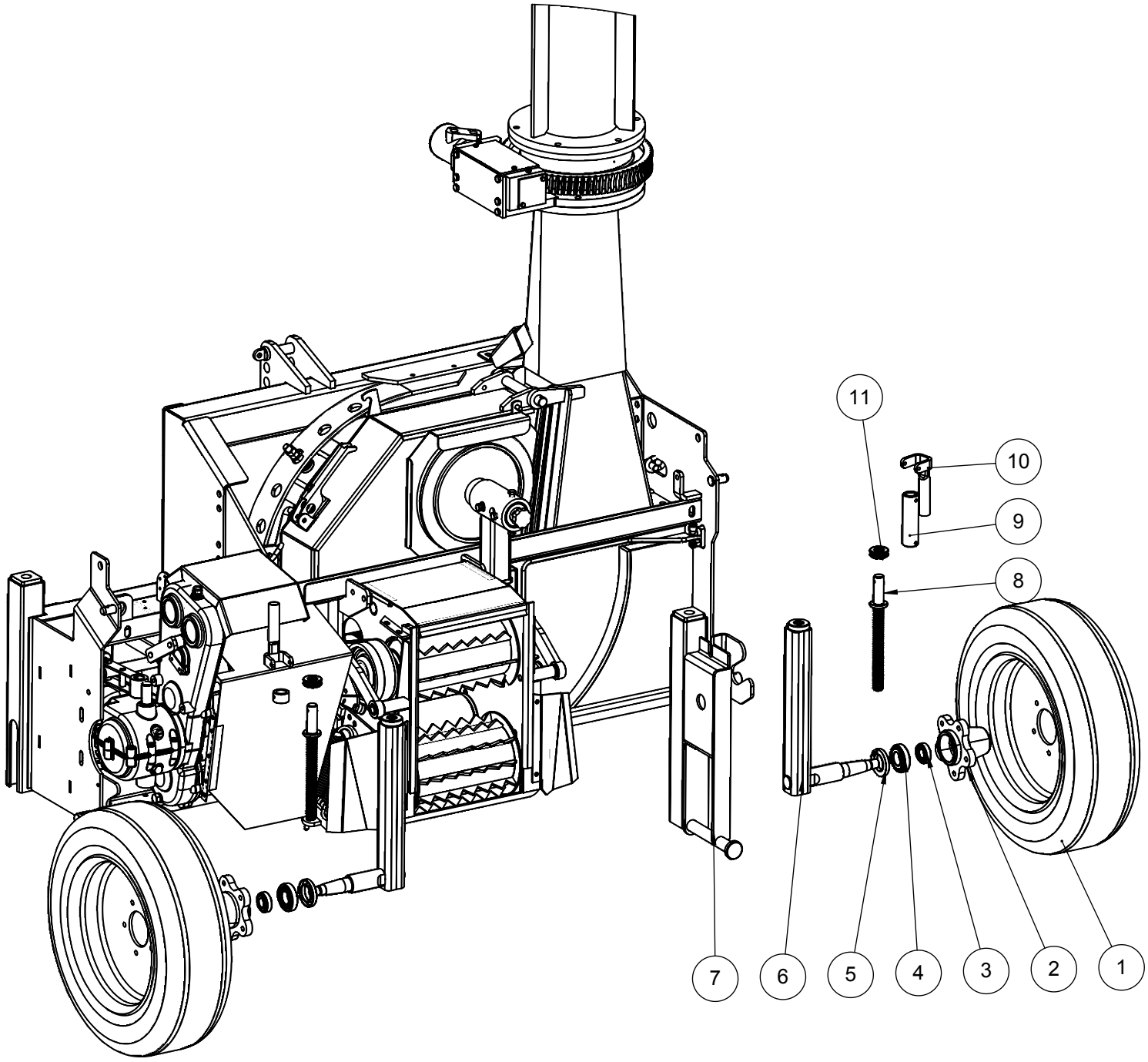
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	FAN ÜST MUHAFAZA GRUBU	10

10			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.19.01.000	LOWER CHUTE WELDED	1
2	215.14.00.000	GRINDING COVER COMPLETE	1
3	215.04.00.000	FLYWHEEL UPPER COVER COMPLETE	1
4	48.15.04.00.013	LOCKING SHEET	1
5	48.15.04.00.014	CUTE CONNECTION LOCK	1
6	215.00.00.033	FLYWHEEL UPPER COVER CONNECTION PIN	1



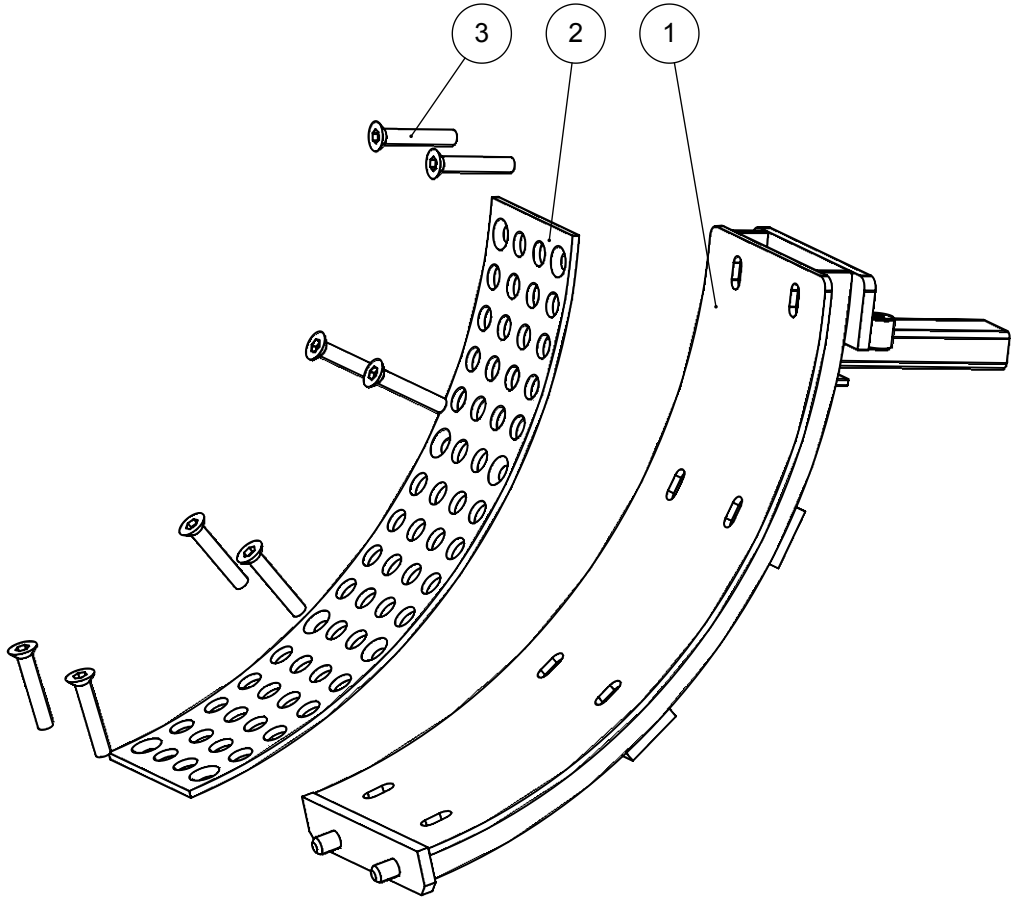
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	ARKA KAYAR ÇEKİ ŞASE GRUBU	11

11			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.20.01.000	CHASSIS WELDED COMPLETE	1
2	215.20.02.000	HITCHING SHAFT COMPLETE	1
3	215.20.01.012	HITCHING SHAFT BUSHING	2
4	215.20.01.013	CHASSIS PISTON BUSHING	1
5	215.20.00.001	CHASSIS PISTON COMPLETE	1
6	48.14.05.00.000	UPPER HITCHING PIN COMPLETE	1
7	215.20.00.003	CHASSIS PISTON PIN	2



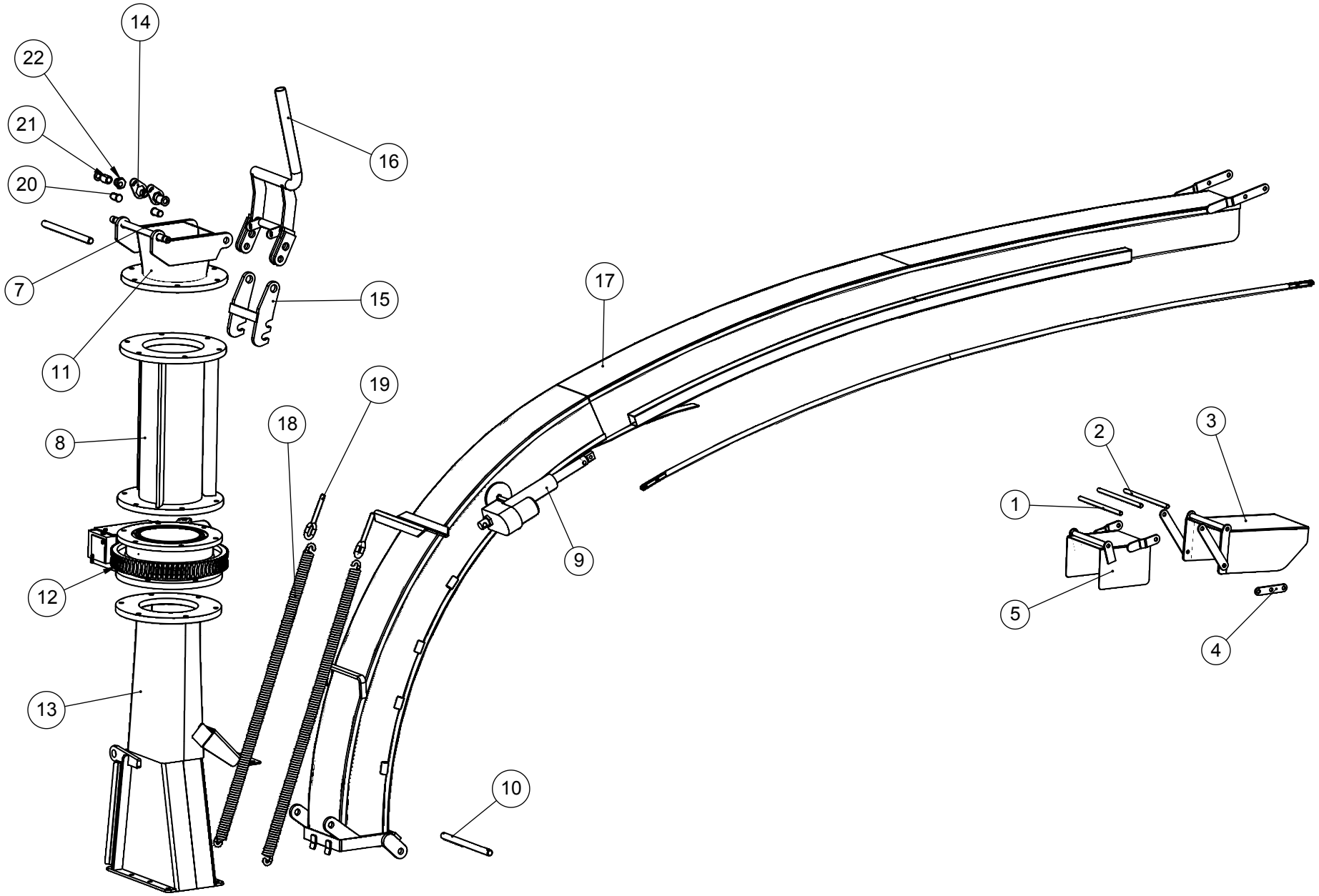
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	TAŞIYICI TEKERLEK GRUBU	12

12			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	100.001259	OUTER TYRE 185/R14 C	2
2	02.08.00.00.001	HUB	2
3	100.000608	BEARING 30205A	2
4	100.000610	BEARING 30207A	2
5	100.001125	SEALING 45X72X10	2
6	215.22.01.000	TYRE PROFILE COMPLETE	2
7	215.07.00.000	TYRE CONNECTION WELDED	1
8	215.22.03.000	TYRE CONNECTION SHAFT WELDED	2
9	215.01.00.011	TYRE LIFTING BUSHING	1
10	215.17.00.000	TYRE LIFTING COMPLETE	2
11	215.22.00.002	TYRE SHAFT SUPPORT BUSHING	2



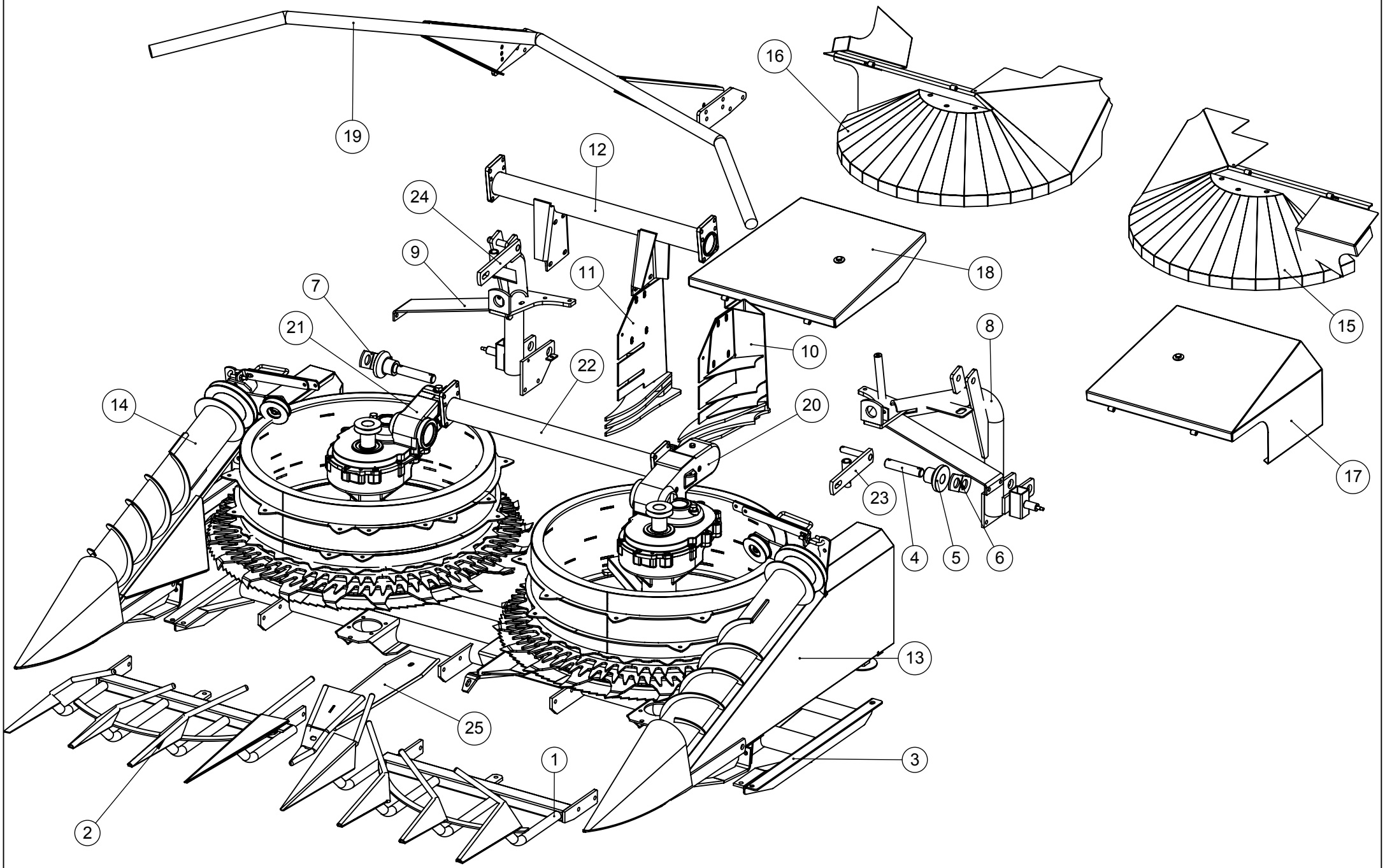
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	FAN ALT YAN KAPAK GRUBU	13

13			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.06.01.000	SIDE COVER WELDED	1
2	215.06.00.001	LOWER CRUSHER SHEET	1
3	100.002332	BOLT M10X20 IMBUS FLAT	8



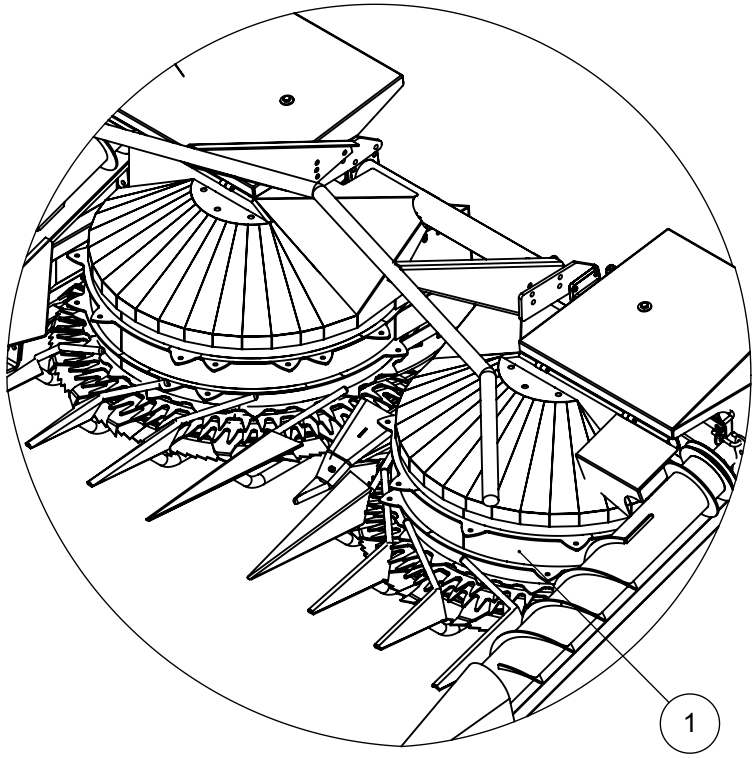
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	BACA GRUBU	14

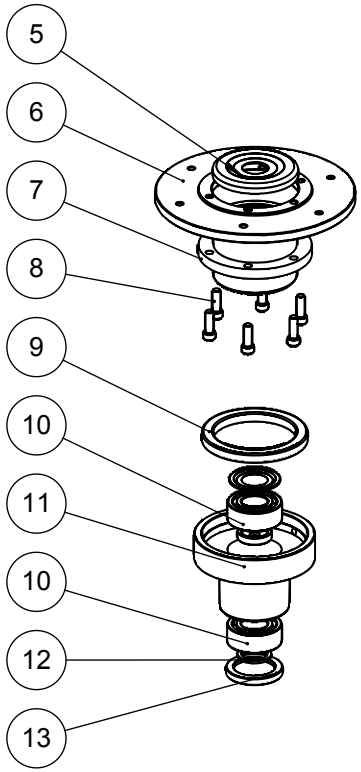
14			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.19.00.008	CAP CONNECTION SHAFT	1
2	215.19.00.014	MIDDLE CAP CONNECTION SHAFT	2
3	215.19.09.000	FRONT CAP COMPLETE	1
4	215.19.00.003	CAP CONNECTION PART	1
5	215.19.05.000	MIDDLE CHUTE CAP	1
6	215.19.00.010	LOWER CONNECTION SHAFT	1
7	215.19.03.007	MIDDLE CHUTE LOWER CONNECTION SHAFT	1
8	215.19.03.000	CHUTE EXTENSION COMPLETE	1
9	100.004754	LINEER ACTIVATOR 2500N- STROK 150MM	1
10	215.19.00.011	LOWER CONNECTION PIN	2
11	215.19.02.000	MIDDLE CONNECTION	1
12	100.002536	ROTATIVE PARTS COMPLETE D 200 - 6080200313	1
13	215.19.01.000	LOWER CHUTE COMPLETE	1
14	215.19.00.004	LOCK ROTATING SHEET	2
15	215.19.07.000	LOCK COMPLETE	1
16	215.19.06.000	UPPER LOCK ARM	1
17	215.19.04.000	UPPER CHUTE	1
18	215.19.00.009	CHUTE SPRING	2
19	215.19.10.000	SPRING TENSION CONNECTION COMPLETE	2
20	215.19.00.016	CHUTE CENTERING PIN	2
21	215.19.00.018	CONICAL LOCK MIDDLE BUSHING	2
22	215.19.00.017	CONICAL LOCK BUSHING	2

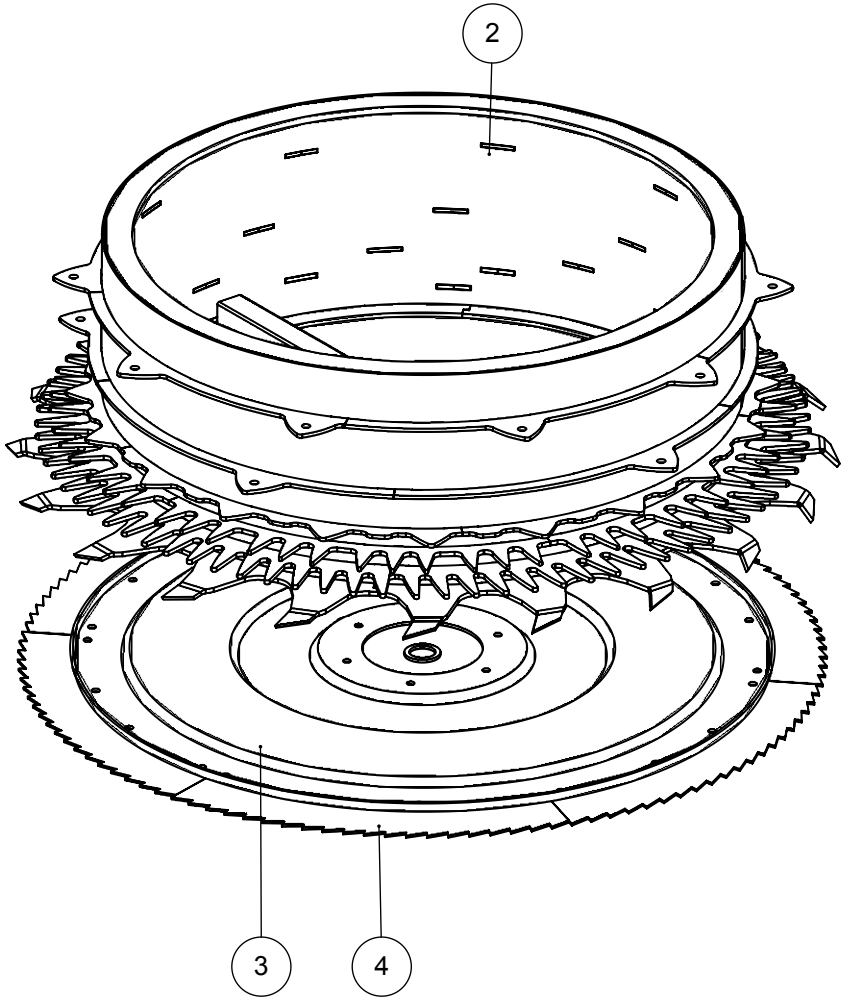


REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	ÖN BİÇME VE MUHAFAZA GRUBU	15

15			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.28.00.000L	SEPERATING NAIL LEFT	1
2	215.28.00.000R	SEPERATING NAIL RIGHT	1
3	215.26.00.000	DRUM LOWER CHASSIS COMPLETE	1
4	215.00.00.025	FRONT CUTTING CONNECTION PIN	2
5	215.00.00.002	CUTTING GROUP CONNECTION ROLLER	2
6	215.00.00.015L	FRONT DRUM CHASSIS LOCK SHEET LEFT	1
7	215.00.00.015R	FRONT DRUM CHASSIS LOCK SHEET RIGHT	1
8	215.41.00.000L	DRUM CHASSIS CONNECTION WELDED LEFT	1
9	215.41.00.000R	DRUM CHASSIS CONNECTION WELDED RIGHT	1
10	215.32.00.000L	SCRAPER COMPLETE LEFT	1
11	215.32.00.000R	SCRAPER COMPLETE RIGTH	1
12	215.34.00.000	BAR WITH FLANGE COMPLETE	1
13	215.24.00.000L	LEFT LEG COMPLETE	1
14	215.24.00.000R	RIGHT LEG COMPLETE	1
15	215.35.01.000L	DRUM UPPER COVER LEFT	1
16	215.36.01.000R	DRUM UPPER COVER RIGHT	1
17	215.35.02.000L	DRUM GEARBOX COVER LEFT	1
18	215.36.02.000R	DRUM GEARBOX COVER RIGHT	1
19	215.45.00.000	BENDER COMPLETE	1
20	215.02	FRONT CUTTER GEARBOX LEFT	1
21	215.03	FRONT CUTTER GEARBOX RIGHT	1
22	58024	FLAT TEETH GEARBOX MIDDLE SHAFT	1
23	215.44.00.000L	DRUM TENSION WELDED LEFT	1
24	215.44.00.000R	DRUM TENSION WELDED RIGHT	1
25	215.29.00.000	MIDDLE HORN COMPLETE	1

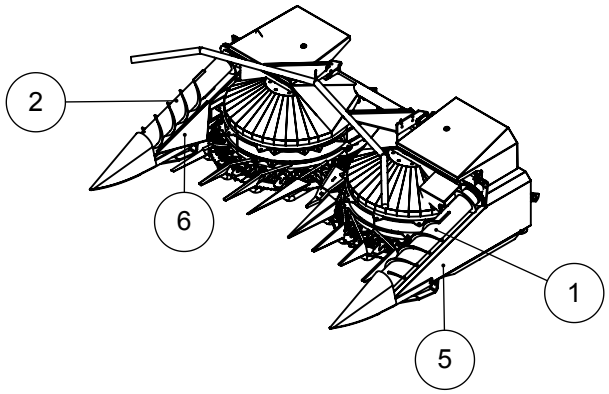


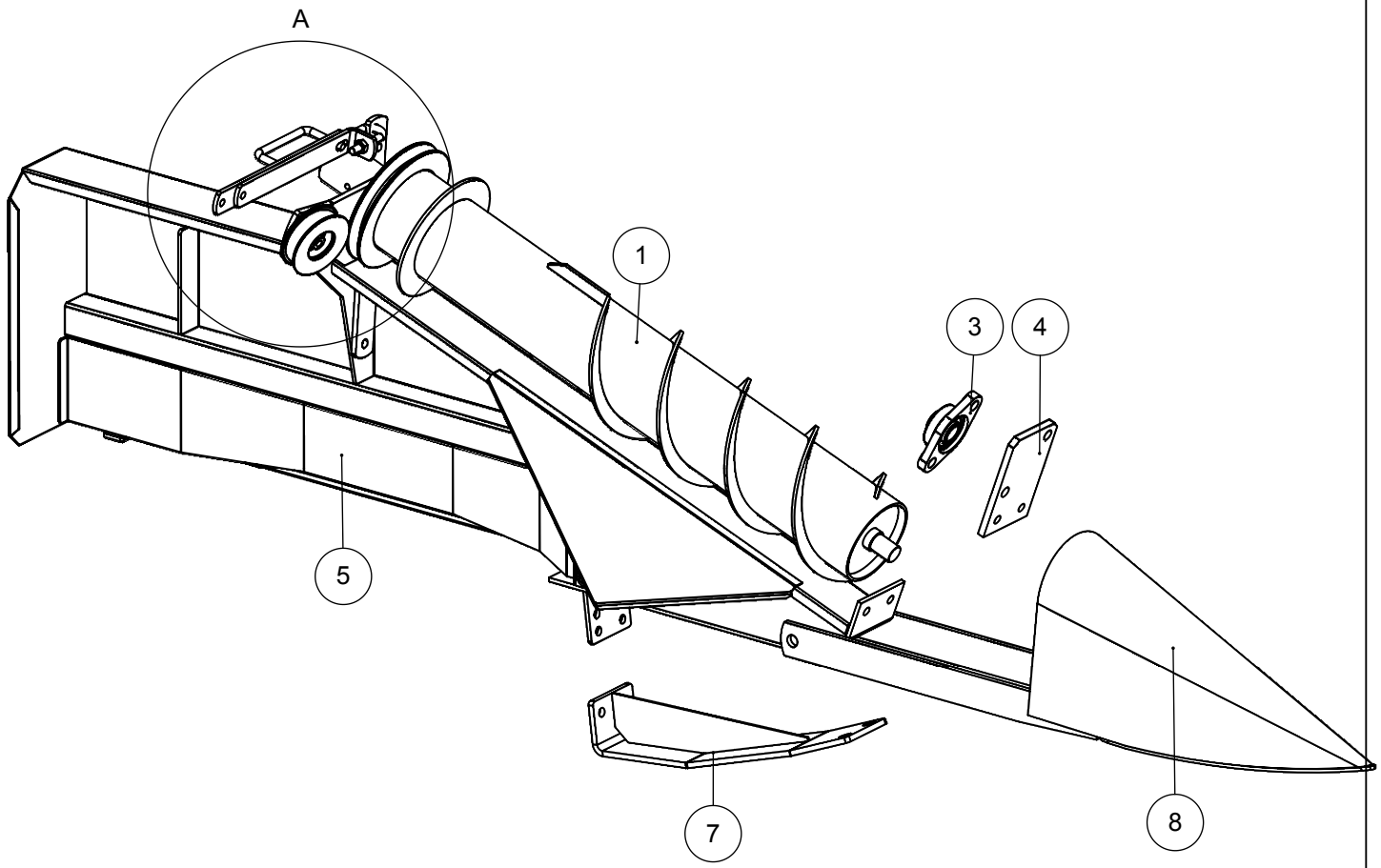


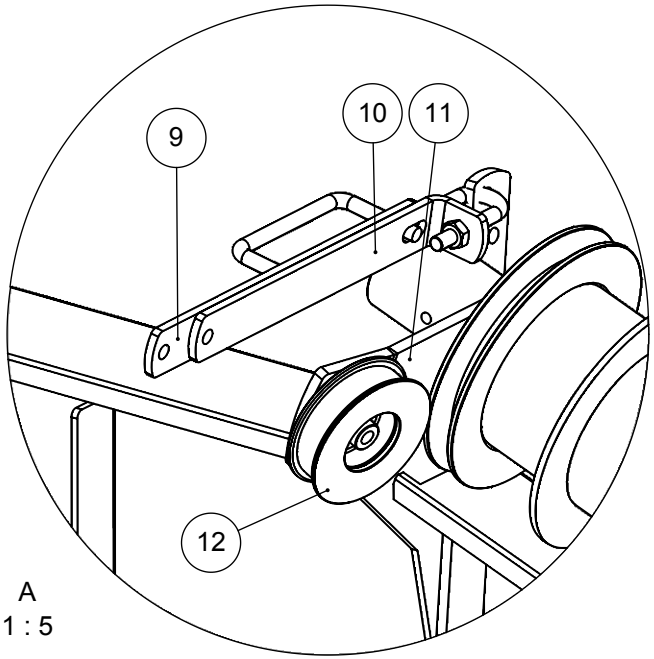


REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	ÖN BİÇME TAMBUR GRUBU	16

16			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.23.00.000	DRUM WELDED LEFT	1
2	215.27.00.000	DRUM WELDED RIGHT	1
3	48.02.00.00.004	KNIFE LOWER SHEET	1
4	48.02.00.00.005	CUTTER KNIFE	6
5	215.00.00.026	DUST COVER	1
6	215.00.00.027	TRAY CONNECTION FLANGE	1
7	215.00.00.019	COUPLING WITH REVERSE PROTECTION	1
8	100.000023	BOLT M10X50 HB İMB	6
9	100.001532	SEALING 110X140X13	1
10	100.003970	BEARING 3207 DOUBLE	1
11	215.00.00.018	FRONT DRUM LOWER BEDDING	1
12	215.00.00.028	LOWER WASHER	1
13	100.004751	PLUG Ø75X5	1



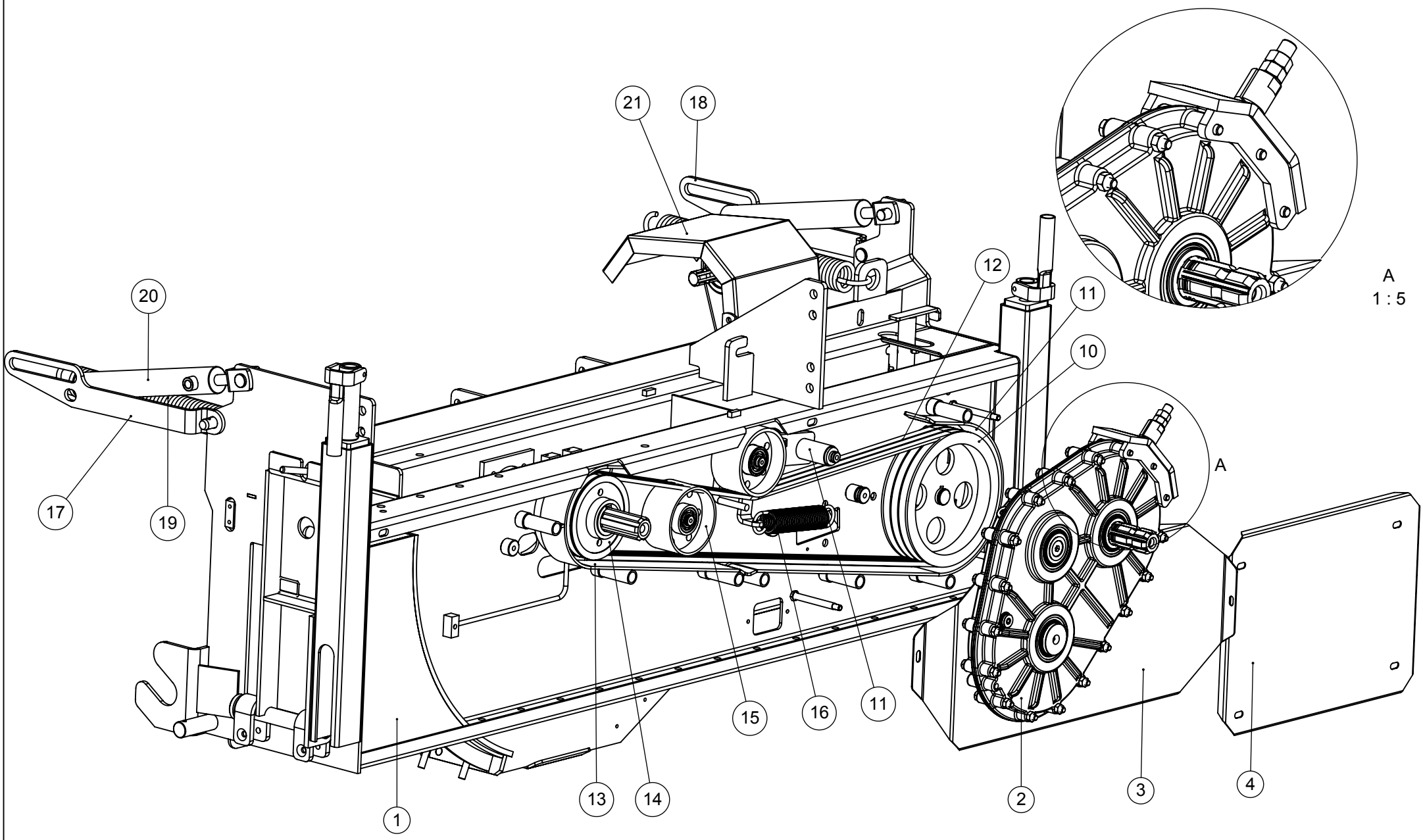




A
1 : 5

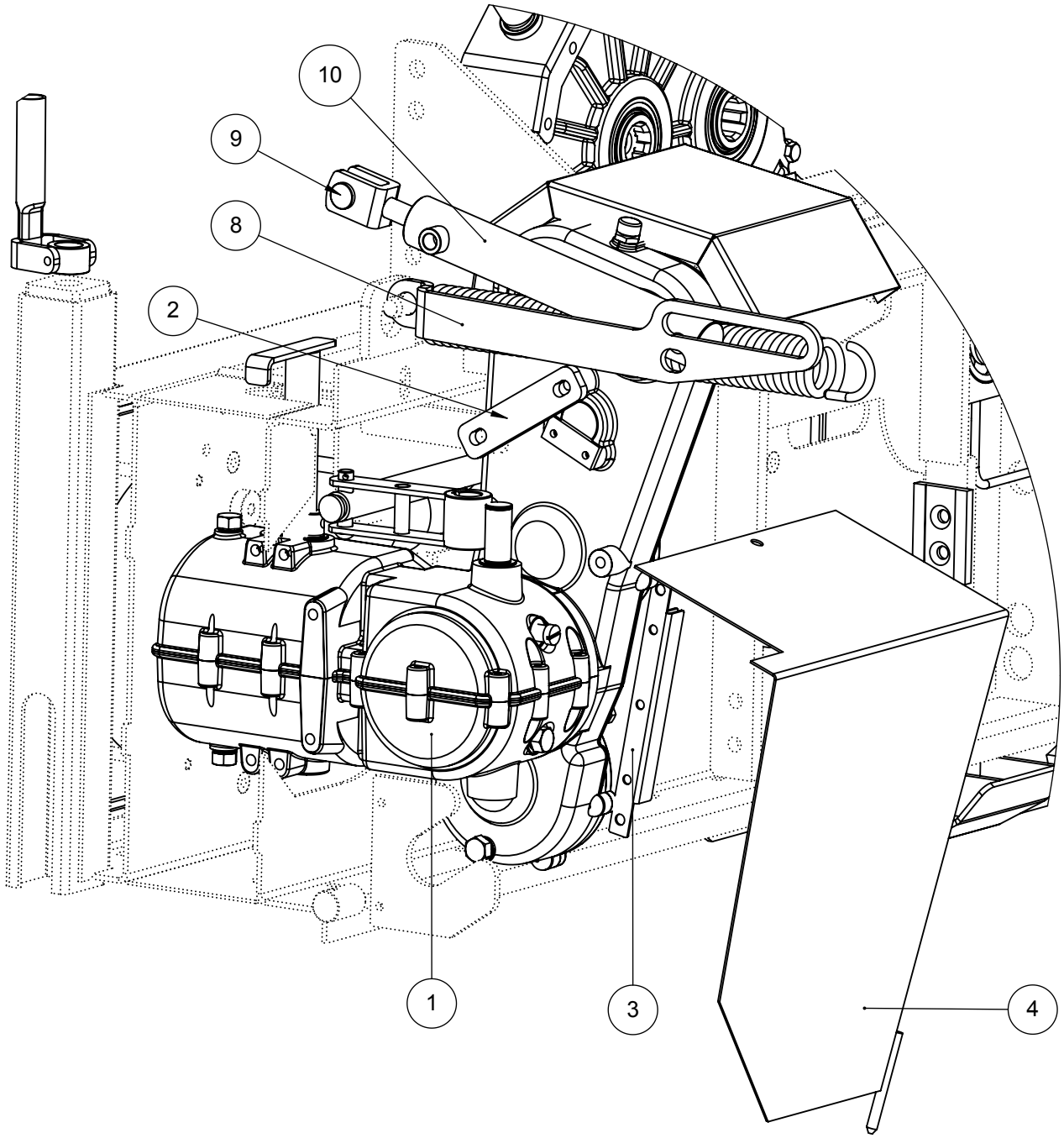
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	YATIK KALDIRICI HELEZON GRUBU	17

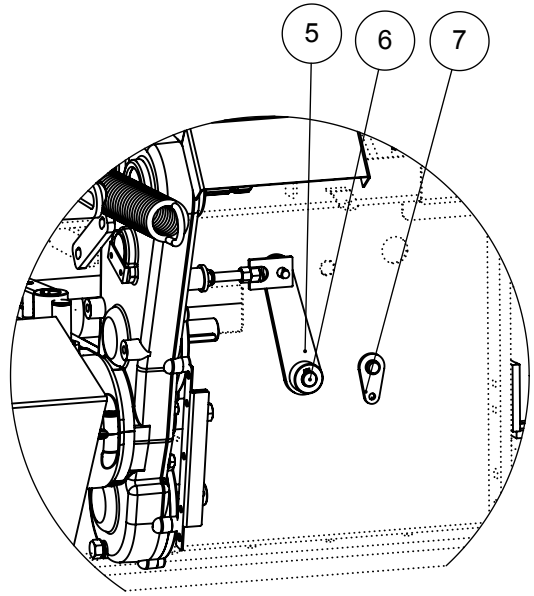
17			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.24.02.000L	CROP LIFTER COMPLETE LEFT	1
2	215.24.02.000R	CROP LIFTER COMPLETE RIGHT	1
3	100.000702	BEARING WITH BEDDING UCFL 205	1
4	215.24.00.002	CROP LIFTER FRONT CONNECTION	1
5	215.24.01.000L	LEFT LEG COMPLETE	1
6	215.24.01.000R	RIGHT LEG COMPLETE	1
7	215.24.04.000	LEG SLIDER COMPLETE	1
8	215.24.03.000	FRONT CAP COMPLETE	1
9	215.24.06.000	LOCK ARM COMPLETE	1
10	215.24.00.003	TENSION LOCK LOWER SHEET	1
11	215.24.05.000L	CENTERING BEDDING COMPLETE LEFT	1
11A	215.24.05.000R	CENTERING BEDDING COMPLETE RIGHT	1
12	215.24.00.004	BELT CANAL	1



REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	FAN KAYIŞ AKTARMA GRUBU	18

18			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.01.01.000	FLYWHEEL LOWER COVER WELDED	1
2	215.01	INPUT GEARBOX	1
3	215.00.00.016	CHASSIS SIDE COVER	1
4	215.01.00.006	TRANSMISSION PULLEY COVER	1
5	215.31.00.000	CHASSIS TENSION COMPLETE	1
6	215.42.00.001	TEETHED BUSHING WITH CUT	1
7	215.42.00.002	CONICAL WASHER	1
8	100.000182	BOLT M16	2
9	215.42.00.003	GEARBOX TENSION SHAFT	1
10	215.01.00.019	BIGGER FLYWHEEL PULLEY	1
11	215.13.00.000	BIGGER PULLEY PROTECTION SHEET	1
12	100.004773	BELT 17X2625	1
13	215.12.00.000	LOWER PULLEY PROTECTION SHEET	1
14	215.01.00.014	FLYWHEEL SHAFT PULLEY	1
15	197.14.00.001	PULLEY TENSION ROLLER	2
16	215.00.00.037	BELT TENSION SPRING	1
17	215.00.00.014L	SIDE TENSION SHEET LEFT	1
18	215.00.00.014R	SIDE TENSION SHEET RIGHT	1
19	215.00.00.010	FRONT DRUM CHASSIS CONNECTION SPRING	2
20	215.00.00.029	FRONT CUTTING GROUP LIFTING PISTON	2
21	215.01.00.007	FRONT GROUP GEARING PROTECTION SHEET	1

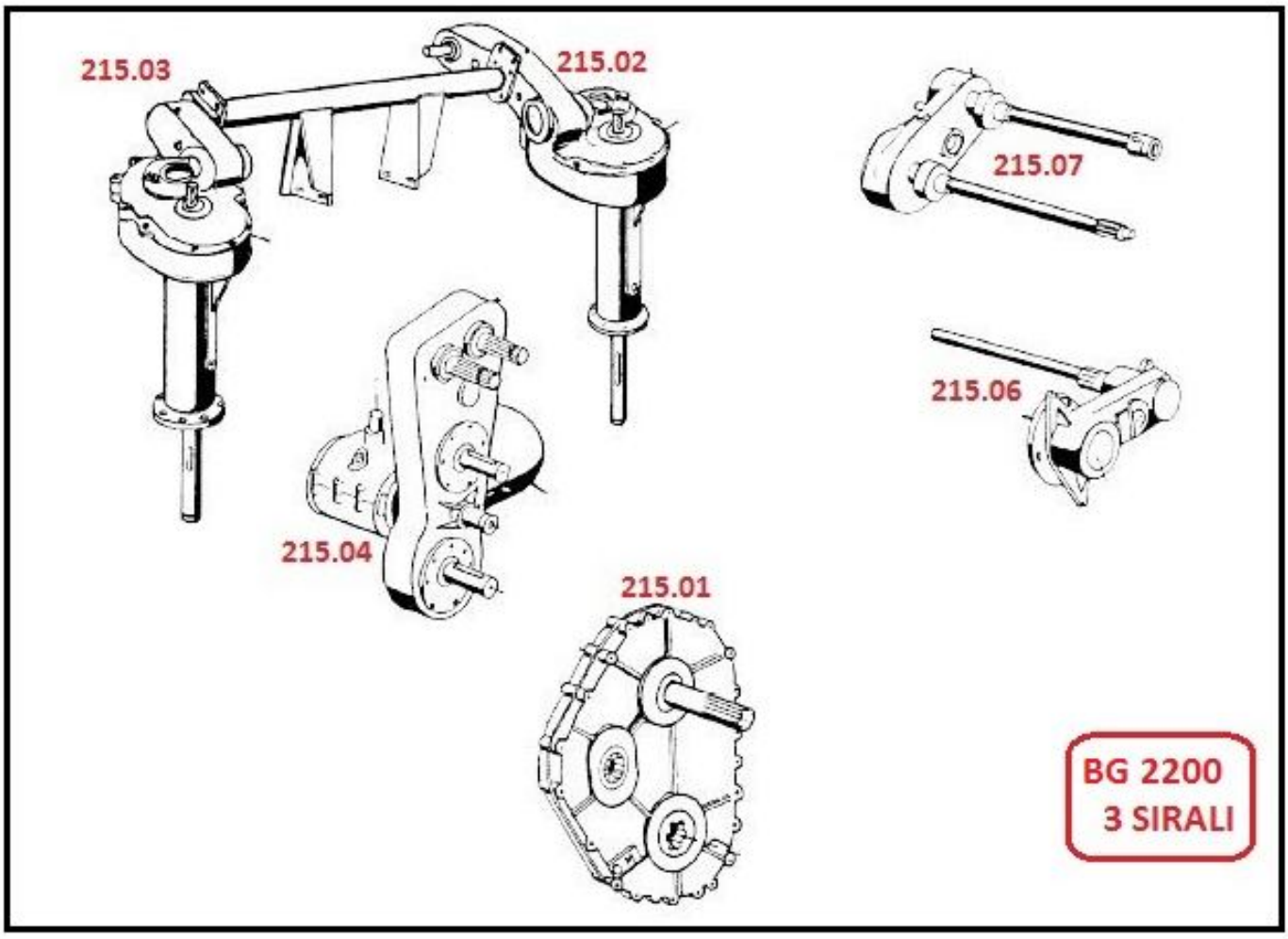




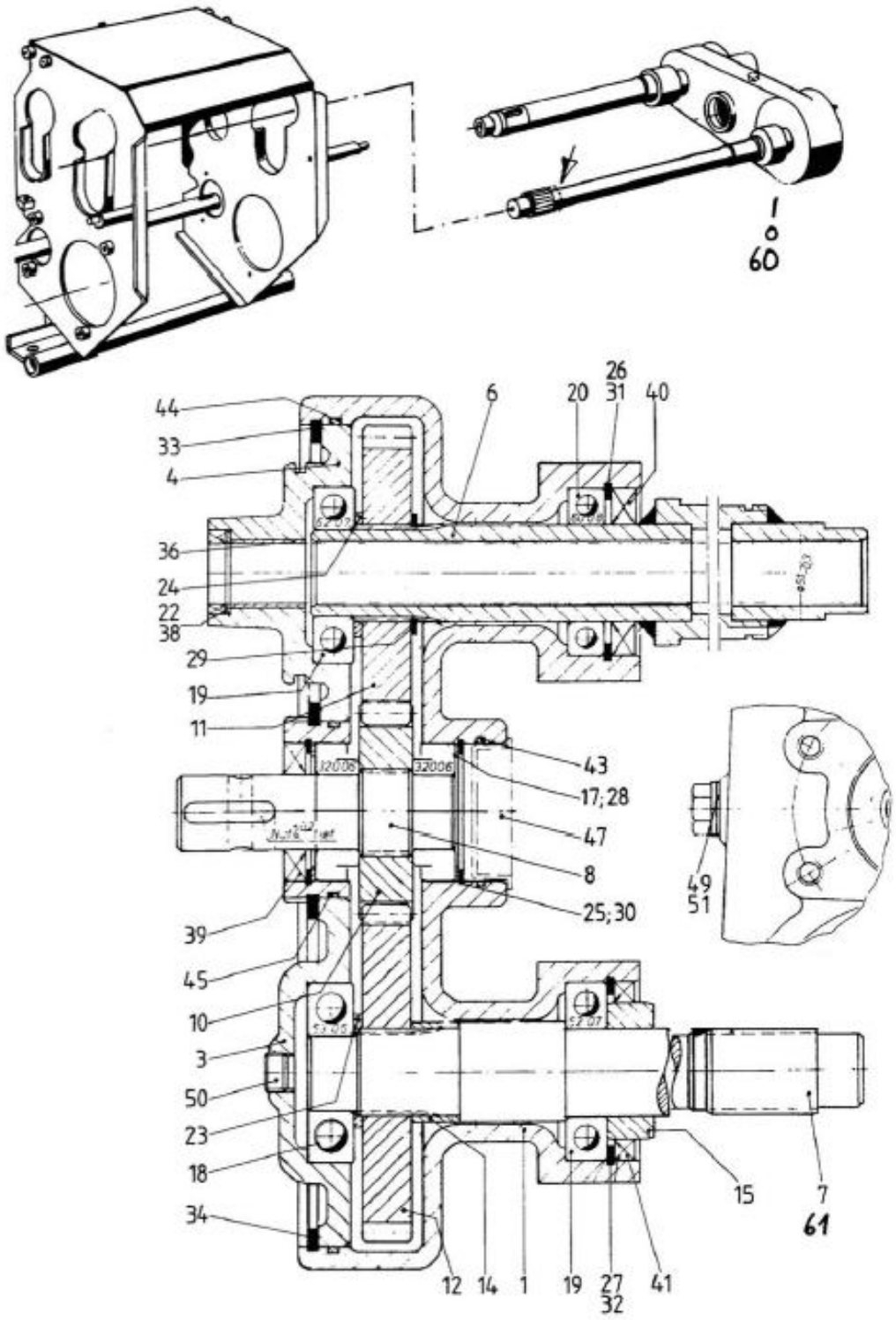
REFERANS NO	PARÇA ADI	KATALOG NO
215.00.00.000	VİTESLİ ŞANZIMAN GRUBU	19

19			
NO	BIGDRUM 2200		
	CODE	DESCRIPTION	PCS
1	215.04	SHIFTING GEAR	1
2	215.01.00.008	GEARBOX SUPPORT	1
3	215.47.00.000	COVER HOLDER COMPLETE	1
4	215.38.00.000	FRONT GROUP COVER COMPLETE	1
5	215.10.00.000	REVERSING TENSION WELDED	1
6	215.09.00.000	REVERSING TENSION INNER	1
7	215.15.00.000	TENSION CONNECTION PIN	1
8	215.00.00.014R	SIDE TENSION SHEET	1
9	215.00.00.035	FRONT GROUP PISTON PIN	1
10	215.00.00.029	FRONT CUTTING GROUP PISTON	1

215.00.00.000 SIRA BAĞIMSIZ (3 SIRA) ŞANZIMANLAR



215.07 ÖN GRUP ÜST ŞANZIMAN - BG 2200



215.06 ÖN GRUP ALT ŞANZIMAN - BG 2200

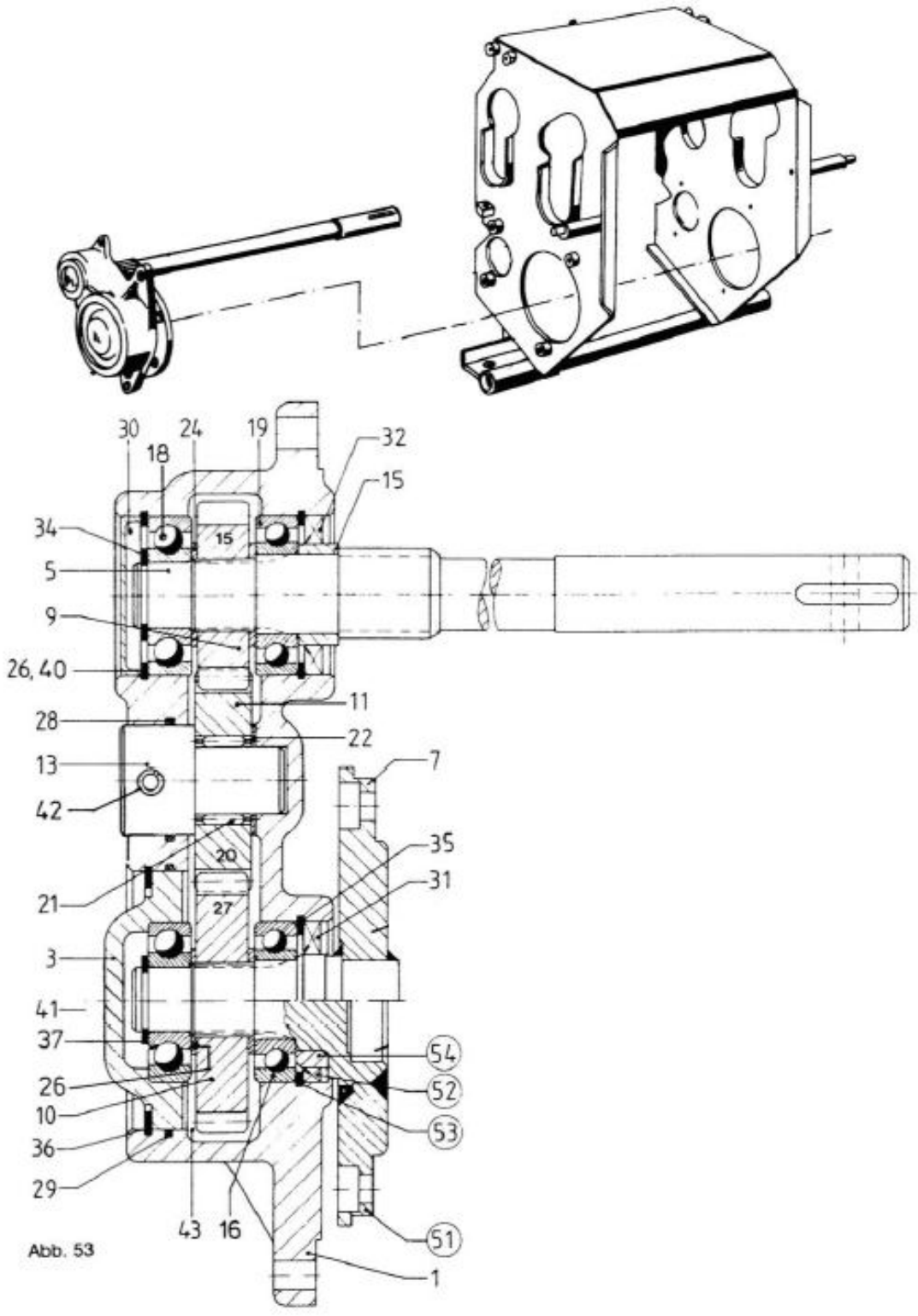
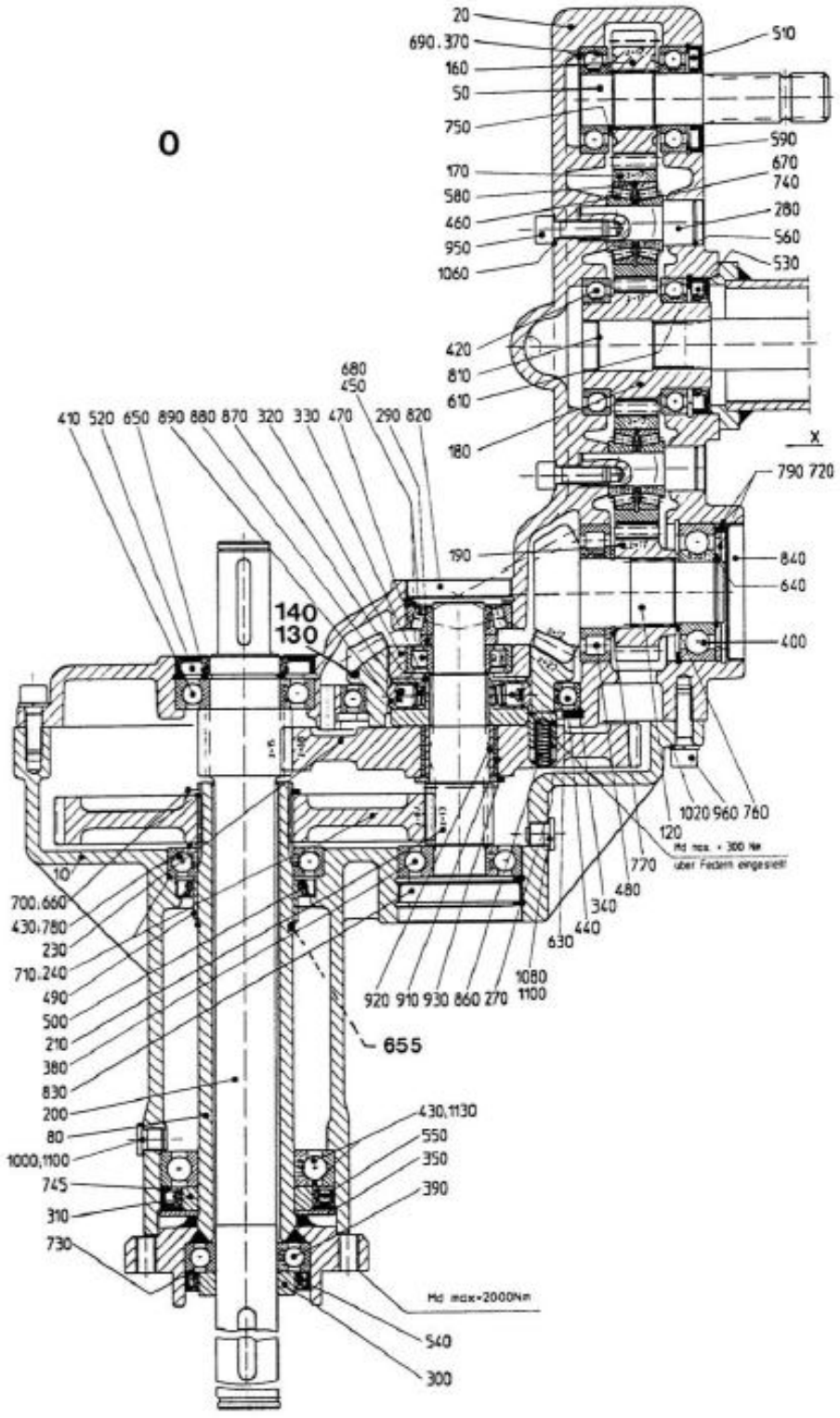
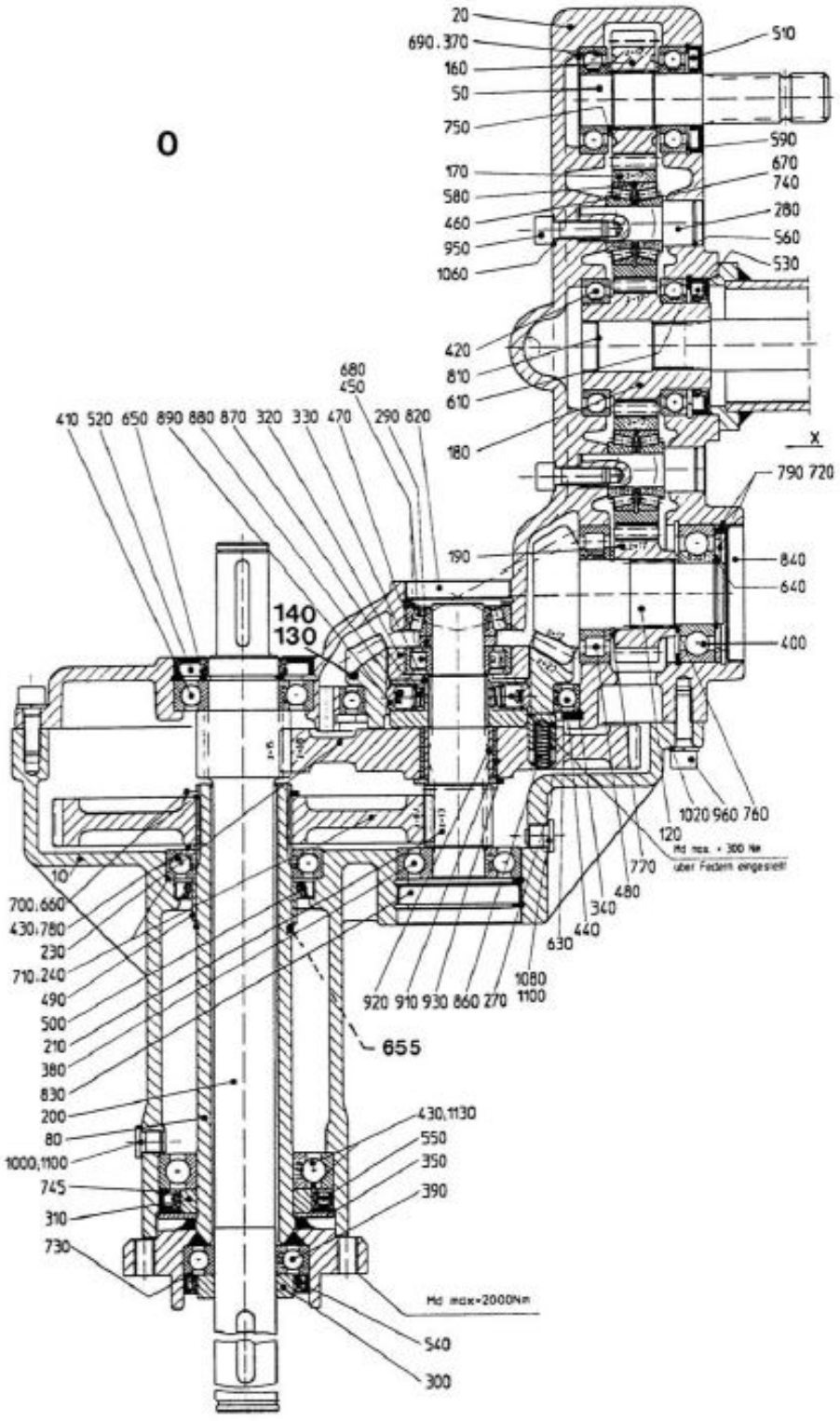


Abb. 53

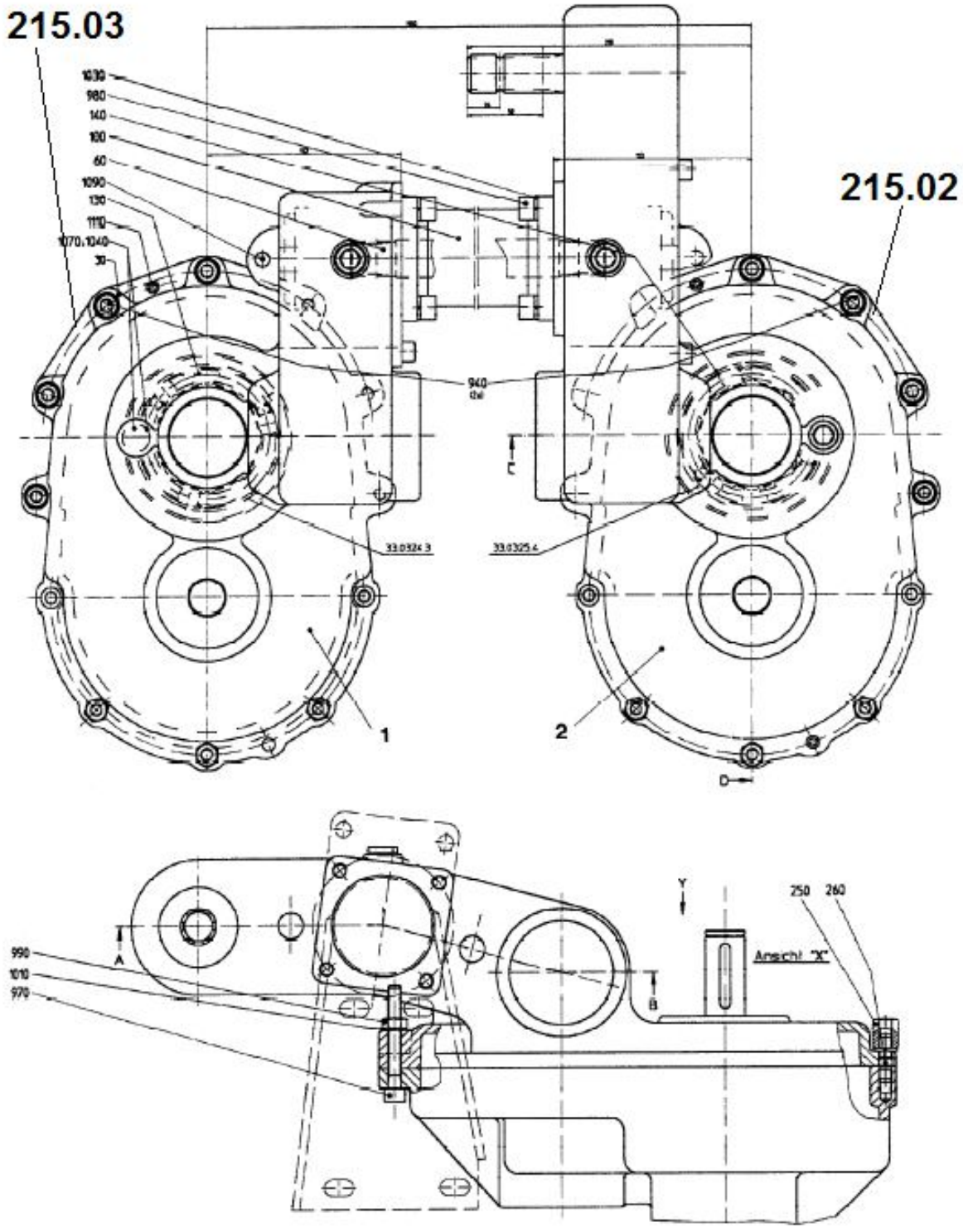
215.03 ÖN BİÇME ŞANZIMANI SAĞ - BG 2200



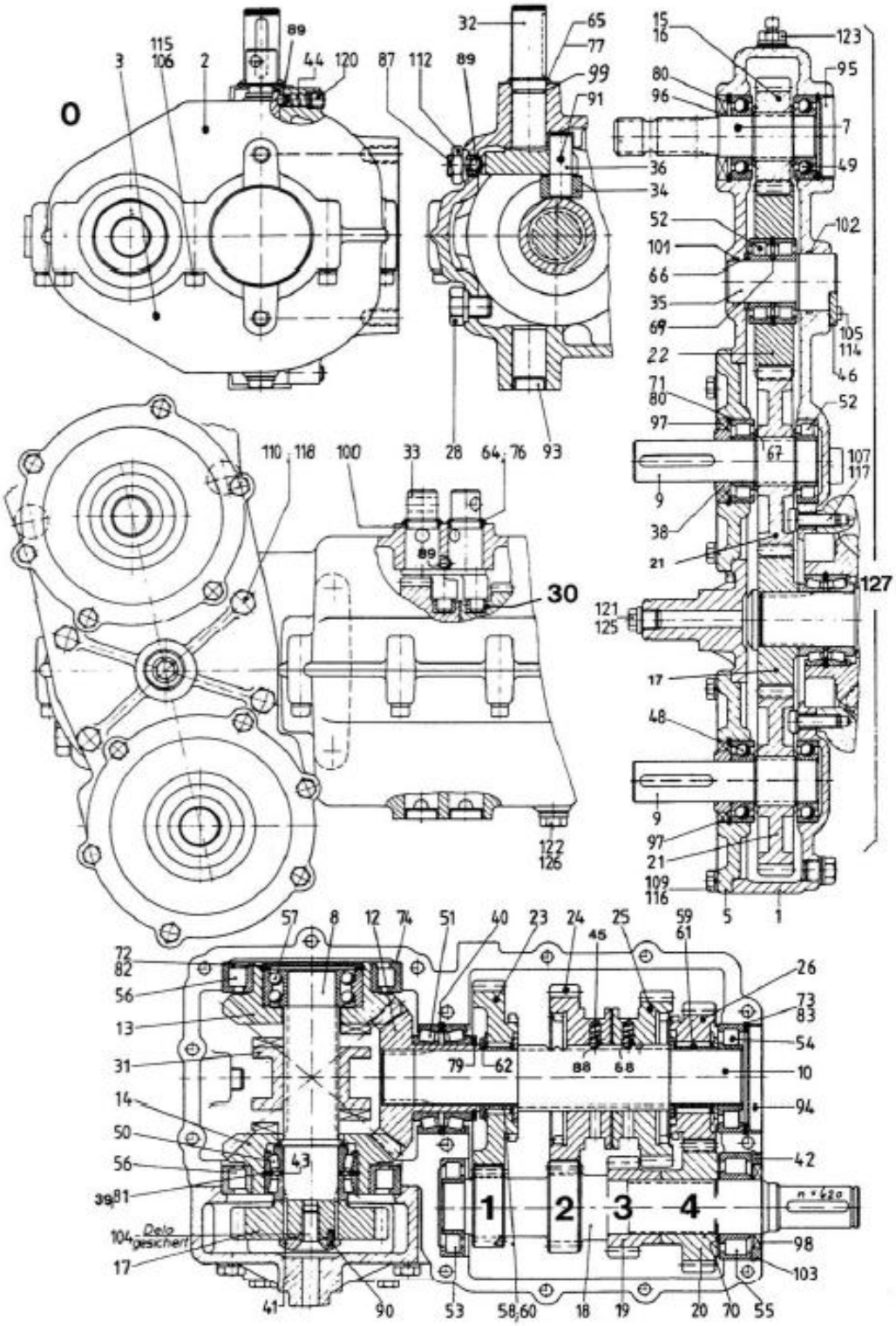
215.02 ÖN BİÇME ŞANZIMANI SOL - BG 2200



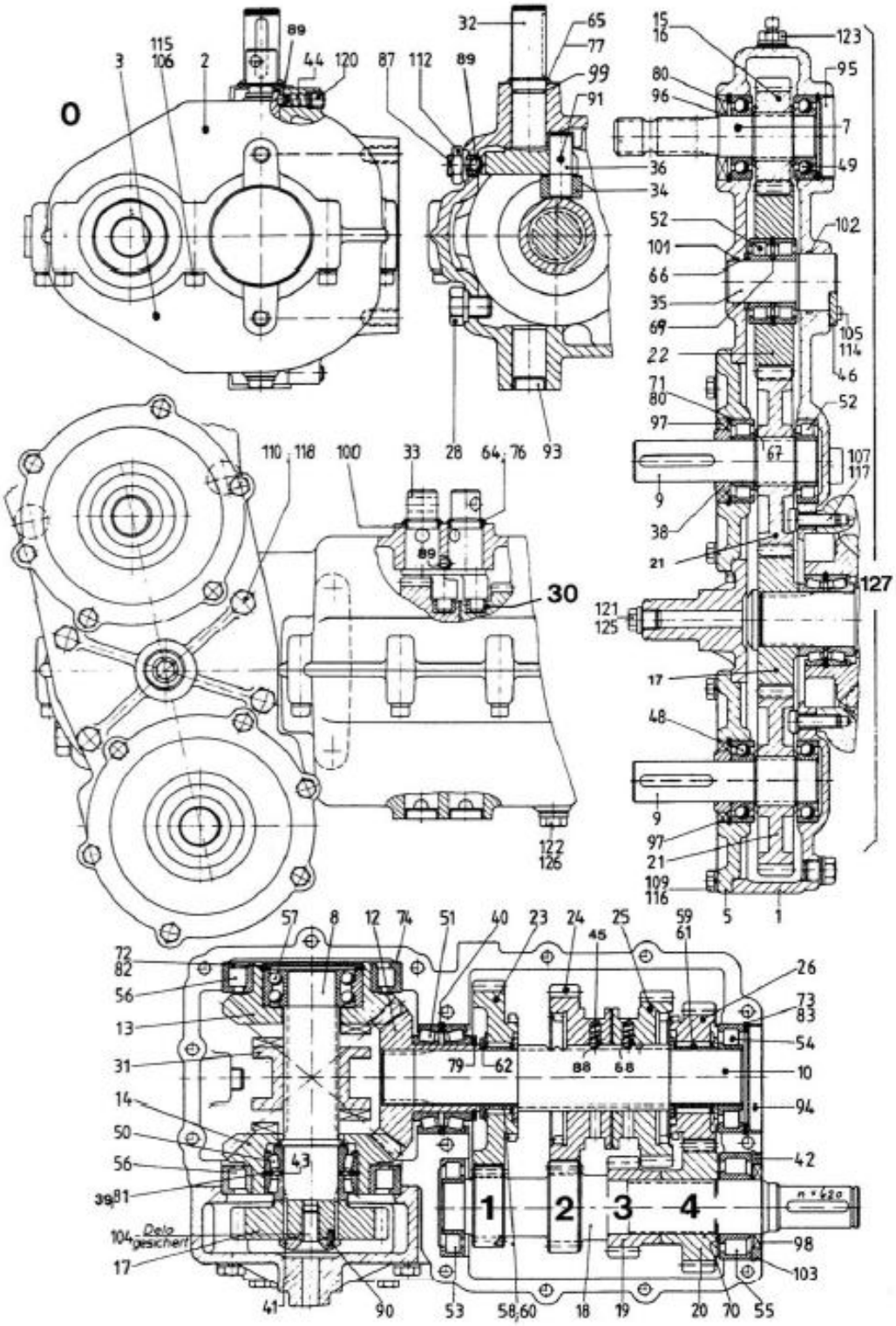
215.02-215.03 ÖN BİÇME ŞANZIMANLARI



215.04 VİTES ŞANZIMANI - BG 2200



215.04 VİTES ŞANZIMANI - BG 2200



215.01 GİRİŞ ŞANZIMANI - BG 2200