



Our company, activating in agricultural mechanization field which has great importance for improvement of agriculture in our country since 1959, manufactures Rotary Tillers, Seed Drills, Inter Row Rotary Cultivator, Fertilizer Spreaders, Mulchers, ReaperBinder Machine, Maize Chopper, Rotary Mowers, Rotary Rakes, Tedder, Subsoilers, Cultivators, Chisel, Disc Tiller, Baler used in agricultural works such as handling, fertilizing and harvesting starting from preparation of soil at the pre-sowing period until plantation, in compliance with stage of the art technology.

Considering the agricultural needs of our country, Minos Agricultural Machinery has put the mixer feeders into service with the quality, privilege, guarantee and assurance of Minos, which are designed to have strong and reliable structures, be easy to use and eco-friendly machines.

Our company following the global technological advancements is always beside farmers and at the service of state agriculture with quality machinery conforming to standards and on-site applications.



















EC DECLARATION OF CONFORMITY

TURKAY TARIM MAKINALARI SAN. VE TIC. LTD. STI.

Fatih Mah. 1191 Sok. No: 17/A 35414 Gaziemir / IZMIR / TURKIYE

Declare under our own responsibility that the product(s) specified below satisfies the requirements of the Machinery Safety Directive 2006/42/FC.

The product(s) identified below has been produced according to basic safety and health measures.

BRAND: minos agri

PRODUCT NAME: ROTARY DRUM MOWER MODELS: T-TCBM 1850 / T-TCBM 1850-H

Harmonized standards:

TS EN ISO 4254-1 (18.04.2016) / Agricultural machinery - Safety - Part 1: General requirements

TS EN ISO 12100:2010 (12.04.2011) / Safety of machinery - General principles for design - Risk assessment and risk reduction

TS EN ISO 13857 (29.04.2014) / Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs

TS EN 349+A1:2009 (19.02.2009) / Safety of machinery - Minimum gaps to avoid crushing of parts of the human body

TS EN ISO 14120 (18.04.2016) / Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards

TS ISO 11684 (02.02.1999) / Tractors, machinery for agriculture and forestry, powered lawn and gurden equipment- safety signs and hazard pictorials- general principles

TS EN ISO 4254-12 (12.06.2013) / Agricultural machinery-Safety -Part 12: Rotary disc and drum mowers and flail mowers

Issued at IZMIR-TURKEY, February 04.2019

Authorized Signatory

Erhan HAFIZOĞLU (Techinical Manager)





MINOS AGRICULTURAL MACHINERY

Fatih Mah. 1191 Sok. No: 17/A 35414 Gaziemir/ İZMİR-TÜRKİYE Ph: +90 232 281 54 04 - 281 63 30/ 31 Fax: +90 232 281 57 10 Web: www.minosagri.com e-mail: info@minosagri.com

WARRANTY CERTIFICATE

MINOS warrants, for the period of 1 year.

Machine details		
BRAND		
PRODUCT NAME		
MODEL	T-TCBM 1850	T-TCBM 1850-H
PRODUCT CODE		
MANUFACTURE YEAR		
Machine details		
Title: Address: Tel: Fax:		
Date and Number of invoice	e:	
Signature&Seal		

WARRANTY CONDITIONS

- Warranty period is one (1) year commencing from the delivery date of the product.
- The product and all parts thereof are under the warranty of our company.
- If the product breaks down during the warranty period, the period of repair is added to the warranty period. The maximum period of repair of the product is 20 working days. This period starts when the product is delivered to a service centre, or in absence of a service centre, to the seller, dealer, agency, representative, importer or manufacturer in order.
- In the event that the product breaks down due to material or workmanship faults or installation faults, it will be repaired free of charge, without charging any fees due to labour, replaced part or anything else.
- In the following events, the product shall be replaced free of charge:
- I-The product repeats the same defect more than twice or different faults more than four in one year, however, in any case within the warranty period, and as a result, periods during which meter is out of service become continuous.

II-Maximum period necessary for its repair is exceeded.

III-With a report issued by a service centre, or in absence of a service centre, by the seller, dealer, agency, representative, importer or manufacturer in order, the repair of the meter is determined as impossible.

- Breakdowns due to improper operation of the product not observing the instructions in the operating manual are not covered by warranty
- For problems with the warranty certificate, consumers may apply to the Republic of Turkey Ministry of Science, Industry and Technology, General Directorate of Protection of Consumers and Competition.
- Failures arising from the use of product against the consideration specified in the user's guide are unguaranteed.

CAUTIONS ABOUT THE WARRANTY



This warranty provided by Minos Agricultural Machinery does not cover any faults caused by any abnormal or unintended use of the meter.

We declare:

- •That during the warranty period, the product will operate flawlessly, if you use it in accordance with its purpose and the enclosed instructions:
- •That upon your request, we will repair any defect of the machine if you inform us of it during the warranty period. The warranty takes effect from the date of purchase of the product, evident from the certified warranty certificate and the receipt.
- •The machine is designed to reaps all kinds of feed plants, grass, meadow grass, heath and wild plants bordering the roads with blades rotating at a high annulus velocity and existing in both of the 2 drums rotating reversely to each other and leaves them behind in the form of barrel.

The warranty becomes invalid due to:

- · Failure to comply with the enclosed instructions;
- · Damage and faults caused by improper use;
- · Usage of an unsuitable PTO shaft;
- Negligent handling of the product, overloading which leads to the fracture of any parts;
- Interference with the product by an unauthorised person;
- Damage caused by mechanical shock due to the fault of the buyer or a third person;
- · Damage caused by flooding, fire, lightning;
- Damage and faults caused during transport, shipment, loading and unloading:

- Damage and faults caused by fire, lightning, flood and earthquake (natural disasters), inappropriate environment and accidents;
- Faults caused by installation or connection of the meter not in compliance with the installation and operating manual;

The warranty will be valid only for the period stated on the reverse side of this certificate and the faults at the product, and no other right or damages under any reason whatsoever can be claimed. In the events that the warranty certificate is destroyed or defaced, that the serial number on the product is removed or destroyed, the warranty certificate will become null and void. Any warranty certificate not bearing the seal and authorised signature of the seller and the date of sale will not be valid.

MINOS is liable for damages it caused by intentional and deliberate damages, not for minor negligence. Besides, it will not be liable for the results, including but not limited to the interruption of business activities or loss from profit due to this reason, or any loss caused as a result of the failure of a duty due to the breakdown of the product. If there is any defect in the product, the defective product shall be sent to MINOS with risks and expenses on customer's account. The defects of the product will be removed by MINOS by replacing a new one or repairing the same.

When reporting a defect by phone or in writing, please inform our representative of:

- The name, model, serial number and manufacture year of the product;
- · The nature of the defect:
- Your full address.



Dear Customer!

You have purchased one of the best built, most reliable rotary mowers available and you have chosen it from our wide product range. Congratulations! We strive to provide you with a rugged, durable unit which is simple to maintain and we are sure that you will be satisfied with it. We sincerely thank you for your confidence.

Minos presents the experiances about agricultural machinery to the farmers by the modern equipments like rotary drum mowers. The machines are designed to reaps all kinds of feed plants, grass, meadow grass, heath and wild plants bordering the roads with blades rotating at a high annulus velocity and existing in both of the 2 drums rotating reversely to each other and leaves them behind in the form of barrel.

With the advantage of adjustable cutting height and the high quality of the cutting height, the nutrient values of the plant are preserved and drying is made possible in a short time.

With its little power requirement, it operates in a high-quality manner without tiring the tractor.

The belts are tightened by means of a spring and thus the safety is ensured on the pulley mechanism.

Its adaptation to the unevenness of the ground is highly successful.

Any person who will be operating or maintaining this mixer should first read and understand this manual and all safety warnings on the unit.

This introducing and operating manuel should always be available to those responsible for the operation and maintenance of this mixer. It is the owner's responsibility to provide this safety information to his operators and employees.

Any person who does not understand the safety and operation instructions contained in this manual should not be considered qualified to operate this mixer.

This manual has been designed to help you become familiar with your unit. Before you operate your unit, be sure you understand and follow all the operation, lubrication, and safety instructions on the following pages in this manual. These have been written for your safety and convenience, and to keep your unit running trouble-free for many years.

This manual should be considered a permanent part of your machine, and should remain with the machine if you sell it.

In the event that you experience an issue that has not been addressed in this manual, contact our company for help; you must state the model and serial number of you equipment in order for us to help you with your inquiry. This is necessary in order to resolve isues quicker and provide better services.

Regards,

MINOS AGRICULTURAL MACHINERY

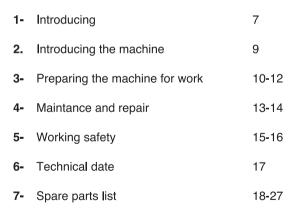
Fatih Mah. 1191 Sok. No: 17/A 35414 Gaziemir / **İZMİR-TÜRKİYE Ph:** +90 232 281 54 04 - 281 63 30 - 281 63 31 **Fax:** +90 232 281 57 10

Web: www.minosagri.com **e-mail:** info@minosagri.com





EC DECLARATION OF CONFORMITY
WARRANTY CERTIFICATE
CAUTIONS ABOUT THE WARRANTY
THANK YOU FOR CHOOSING MINOS!









Minos Agri Company offers you the T-TCBM Rotary Drum Mower which is drived by the tractor tail spindle and connected to it with three point hitch system. It reaps, the feed plants, grass, meadow grass as well as wild plantsand heath bordering the roads. It achieves high capacity with low power consumption and provides propellant saving. The action is transmitted serially through it's three fold belt pulley. The belt of the pulley mechanism is tightened with a spring. It has an automatic security system. Reaping height can be adjusted. Adjustment is possible for road and work status. Besides the instructions from this booklet take into consideration all generally used safety and accident regulations before working with the machine.

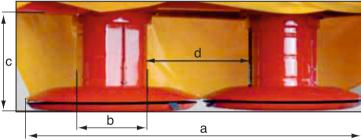


Figure 1 - Dimensions of Rotary Drum Mower

Tecl	nnical Specifications		
Mowing width	(a)	1850	mm
Drum diameter	(b)	308	mm
Drum height	(c)	450	mm
Distance between	the drums (d)	600	mm



ATTENTION!

WHILE THE MACHINE IS CONNECTED TO THE TRACTOR AND IF THE TRACTOR IS IN WORKING POSITION.

TRANSPORTING:

- •Never carry anyone or any animal on the machine.
- •Pay attention on the traffic rules on public roads.
- •Check out the lightening, warning decals, and protection guards before starting to work.
- •Pay attention to work with the machine in the daylight. Especially at nights in public roads take care to have safety decal (light decal apparatus) on the machine

Transporting the machine,

1. Transporting with forklift:

You must choose a forklift according to the weight of the machine. Hold the machine from its weight center. Connect the forklift hook on the machine from the weight center. Start transporting the machine.

2. Transporting with crane:

This method is same as transporting with forklift. Hold the machine from its weight center by crane. Pay attention if the security lock of the crane's hook is working safely.

3. Transporting with palette:

Choose palette according to the machine dimensions. Transport the machine by forklift while it is on palette.





ATTENTION!

PAY ATTENTION TO BE NOT UNDER THE MACHINE WHILE TRANSPORTING



Figure 2- Transporting the machine by Forklift and palette



ATTENTION!

TAKE CARE OF THE HOOKS AND IRON ROPES OF THE CRANE AND FORKLIFT TO BE SAFETY ENOUGH.





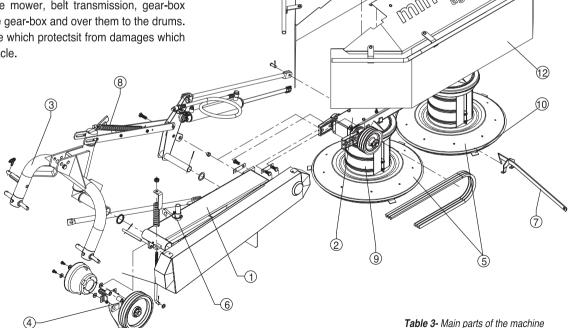




Drum Mower has been designed for mowing of all kinds of grass and clover on clean surfaces. It consists of a cutter with 2 drums, where each of them is equipped with 3 knives. Drums are turnably fastened to the cutter-bar housing. Protection covers, covering the cutter bar from the top, are also fastened to the cutter bar housing. The cutter bar is surrounded by protection curtain. Three point hitch for connection to the tractors of the I or II category is made of round tube. Mower drive is led from the tractor over the P.T.O Shaft to the connecting shaft of the mower, belt transmission, gear-box transmission shaft to the gears in the gear-box and over them to the drums. Mower is equipped with a safety fuse which protectsit from damages which may occur if the mower hits an obstacle.

The main parts of the machine:

- 1. Main Holder
- 2. Cutter-bar(gear box)
- 3. Three point hitch system
- 4. Belt drive
- 5. Drums
- 6. Support Leg
- 7. Knife holder
- 8. Stretcher spring
- 9. Upper disc
- 10. Knife
- 11. Protection plate
- 12. Curtain





PREPARING THE MACHINE FOR WORK

Required Tractor Equipment,

- Mower may only be driven by a tractor shaft with max. 540 rpm.
- 3 point connecting bars of the I or II category

Connection to the tractor,

Firstly connect the lower non adjustable arm then adjustable arm at the end connect upper connection arm. While disconnecting the machine do the opposite. The machine should be positioned as near to the tractor as possible, for using the whole working width (Fig. 4).





Figure 4- Connection to the tractor

1-Upper hitch arm 2-Lower hitch arm 4-Left hanger arm

- The main holder on the machine can be connected to the three point hitch system while the tractor is parallel to the ground as shown in the (Fig.4).
- Connect the prescribed P.T.O shaft and secure the P.T.O shaft connection by a chain (Fig.4).
- Make sure that the P.T.O shaft is in proper position on both ends.
- If the load in front wheels is not enough put additional load.

Adjustment of the P.T.O Shaft,

The adjustment of the P.T.O shaft is necessary for different tractors. To find out the right length.

- ·Connect the machine to the tractor.
- •Pull out the P.T.O shaft entirely an connect each separate half of the shaft to the tractor and than compare them with each other.
- •In case you need to shorten the P.T.O shaft, make sure you shorten both shafts and protection tubes for exactly the same length.







Figure 5- Adjusting the length of the P.T.O shaft to the proper dimension for the tractor.

•File the end of the tube, remove the remainings of filling and lubricate gliding spots well.

K T4 101 910 100 (covered, triangle piped 400 serial, machine side 1 3/8 Z6, tractor side 1 3/8 Z6 -1000 mm length) shaft is used in Rotary Drum Mower. •P.T.O shaft can only be connected when the P.T.O connection and engine are switched off and the ignition key is pulled down.

Preparation of the mower for transport position

If the machine is connected to the tractor and the machine is in transport position, take the pto shaft in safety by the chain. In working position connect the pto shaft to the tractor.



PREPARING THE MACHINE FOR WORK



Figure 6- Transport position.



Figure 7- Disconnect the tension spring (1)



Figure 8- Connect the tension pin and control (2)



Figure 9- Lowering of the Mower from the transport into the working position, (3)

In working position connect the P.T.O shaft to the tractor



Protection Chain





Figure 10- Lowering of the Mower from the transport into the working position,

Regulation of cutting height:

- •The machine must be in horizontal position when it is connected to the tractor. 2
- •By turning the tractor upper arm regulate the cutting height. 1
- •Fasten the tractor bottom arm, so you can prevent the vibrations on the machine while it is working. 3

For a regular cutting, the cutting unit of the machine should not be higher or lower distance from the ground.

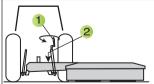


Figure 11- Regulation of cutting height

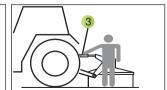


Figure 12- Fastening of tractor bottom arm

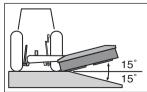


Figure 13- Working angle of the machine to the ground



PREPARING THE MACHINE FOR WORK



ATTENTION!

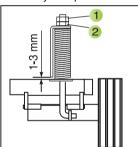
NEVER TOUCH THE MACHINE WITH HAND, FOOT WHILE IT IS WORKING.

Replacement of the protection curtain:

- •Untighten the screws for fastening the protection curtain.
- •Pull the curtain out of the noch.
- Install new curtain and fasten it by screws.

Protection of the Mower:

Drum mower is equipped with a safety fuse, which gets released when the mower hits an obstacle. Mower moves backwards. In this case stop immediately and pull backwards so that the safety fuse will get contact



again. Do not forget to remove the obstacle before starting to mowe again. The safety fuse does not function when driving backwards. In case the safety fuse in released too fast at normal working, adjust in by a nut. (Fig. 14)

Figure 14- Belt tightening working with Drum Mower

Belt tightening:

The vee-belts are mostly stretched in the first working hours. On the tightening device there is a spring that enables the belts to remain tightened inspite of the stretching. We advise you to control the level of tightening from time to time (Pic.14)

Attention:

If you tighten the belts more than necessary, there is a danger of damaging the bearings and shafts.

•Pay your best attention to proper mounting and securing of the P.T.O shaft.





· Max. Input rotation speed of T-TCBM1650 is 540 rpm

ATTENTION!

STOP THE ENGINE! THEN ADJUST AND PREPARE THE MACHINE FOR WORK

- •Make sure that nobody is in the area of danger of the implement before switching on the P.T.O shaft connection.
- •When working with the P.T.O shaft connection nobody is allowed to be in the area of rotating connection on the P.T.O shaft.
- •After switching off the P.T.O shaft conneciton the danger of rotating heavier parts remains. Do not get close to the implement during this period. You can start to work only when the rotation is completely stopped.
- •P.T.O shaft protection must be fitted on.And must be in perfect condition.
- •Use only original P.T.O shafts prescribed by your manufacturar. Because the manufacturer will not take any responsibility if another shaft is used.

Transporting the machine to the field to prepare for work:

- •Start the engine of the tractor for a minute. Hold the machine with main hydraulic arm. Attach the security lock for not to damage to the hydraulic system while driving. Stretch the stretching chains to prevent swinging. Transport the machine empty (without fertilizer) to the field. Fill the fertilizer to the tank in the field.
- •In transporting position, raise the machine up and lock the security pin to prevent the machine fall down.
- •In turnings, take into consideration the load which is outside the centre of gravity and/or constant weight of the implement.
- •Working with tractor in the tendency fields can give damage to the machine. But if you have to work in these tendency fields take care of working, do not turn the road bend fastly and sharply. For working in tendency fields you must be careful about if the tractor is decked out with the additional weights.





<u>^!\</u>

ATTENTION!

MAINTENANCE, REPAIRS, CLEANING MAY ONLY BE EXECUTED WHEN THE DRIVE AND THE ENGINE ARE SWITCHED OFF AND THE IGNITION KEY IS PULLED OUT.

T-TCBM1850 Drum Mower is produced by full of quality. So this machine will not need so much maintenance and repair after working with the machine.

Take care about the items that is written below for maintenance and repair:

- •Turn engine off when adjustment, service and repair work is to be done.
- •Do not work under the machine without safe support
- •Retighten all screws after the first hours of operation

Cleaning of machine parts:

- •Do not use high pressure water for the cleaning of bearing and hydraulic parts.
 •Danger of rust
- •After cleaning, grease the machine according to the lubrication chart and carry out a short test run.
- •The knife has cutting edges at both sides. Therefore it is possible as soon as one edge is blunt to take the knives and use it on the next drum

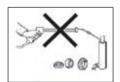


Figure 15- Cleaning of machine parts

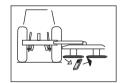


Figure 16-Wearing of the knives

Replacing the knives:

•Support the lever against the lower edge of the drum and press the flexible holder on the lower end of which is fixed the cutter on the pin.

Remove the damaged knives and apply a new one,at the same time the rests of fodder around the pins of the knife holders, eventually from the inner space of the discs. Remove the lever and check whether the pin of the holder has returned to the initial position and whether the knife removes the knife revolves freely on the pin (Fig.17).





Figure 17- Replacing the knives

- •Check the wearness of the knives more frequantly on stony ground.
- •Check normally every 100 hours.
- •Check the mowing blade mountings more frequently when mowing on stony ground.

If mowing disc is worn through close to the mowing knives proceed as follows:

- · Remove bottom disc.
- Undo nuts on knife mountings.
- •Tighten bolts frimly and check aftersome hours operation.

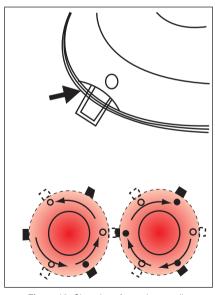


Figure 18- Changing of worn bottom disc





CONTROL(A)	MAINT	ENANCE(I	B)	VARIATION(C)			
Maintenance Period ==>	Daily	Weekly	30 H	lours	100 Hours	400 Hours	
Lubrication (Level control of gear box oil) Variation of oil(BR000)			A	4		С	
Oil leakage control	Α						
Wearness control of drums	А						
Lub.grease nipples		В					
Tightness control (bolt-nut)	Α						
Cleaning	В						

Table 3 - Maintenance Periods

Lubrication:

- •Lubricate with grease before starting work and every 8 hours worked.
- •Before any extended period of non-use, clean and lubricate driveshafts
- •For winter working, grease the tube guards, to avoid them freezing together
- •Gear oils according to operating instructions-however at least once a year
- •Take out oil drain plug, let run out and duly dispose waste oil
- •Before garaging the machine (winter season) an oil change and greasing of all lubricating points has to be done. Unprotected metal parts outside (joints e.t.c) have to be protected against corrosion

The oil in the gear-box is 15-16 kg.

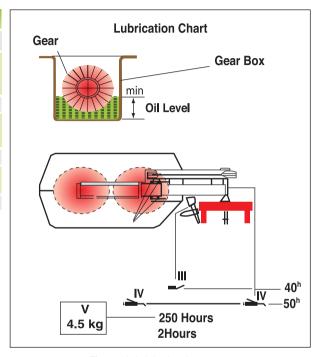


Figure 19- Lubrication chart



Safety decals:

There are 3 types of main safety decals. These are shown as,

Danger:

When you see this alert symbol and heading be alert to the danger of injury of death of men and animals.

Alert:

When you see this heading, be alert to the possibility of serious injuries because of using the machine out of the using rules.

Attention:

When you see this heading, be alert to the possibility of damage to equipment, crop, building, etc. but to financial and / or juridical problems as well.





READ OPERATORS MANUEL BEFORE STARTING TO WORK WITH THE MACNINE.







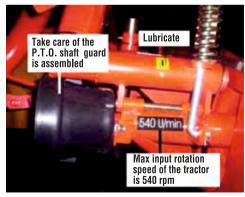


Figure 20- Alert Decals







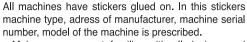


 Do not open or remove safety shields while the engine is runnig





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



- Make sure you get familiar with all devices and elements for handling and with the functions before starting with the work.
- Avoid wearing loose-fitting clothes. Clothes should fit tight to the operator's body..
- Implements should be connected according to the instructions, fastened to the prescribed devices and secured.
- · Never left the driving seat during driving.
- Strating devices for remote control should be secured in a way that, they can not be unintentionally released during transport or work.
- When disconnecting the machine from the tractor, place it on the flat ground..
- Never jump,sit or climb on the machine while it is connected to the tractor.
- Stopping or operating the machine must be done by the driver.No one may drive the tractor except the driver.
- Use protection for hearing and glasses while working with the machine if the tractor does not have a closed cabin.





• Stay clear of mower knife area as long as tractor engine is running





 Stay clear of swinging area of implements.





 Wait until all machine components have completely stopped before touching them



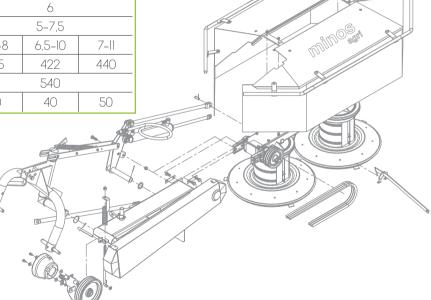


• Never reach into the crushing danger area as long as parts may move.

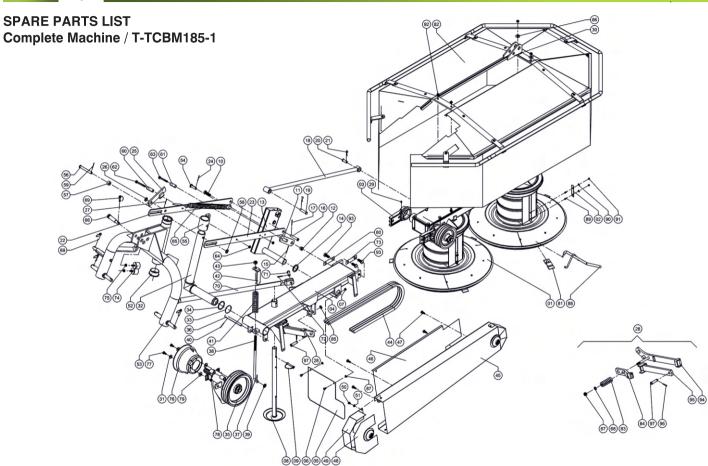


1350 1103 0	T-TCBM 1650 20401204 1650	T-TCBM 1850 20401401 1850
0	1650	
		1850
5	1510	
	1518	1643
2	3185	3540
Э	1075	1090
	2	
	6	
	5-7,5	
-8	6,5-10	7–11
5	422	440
	540	
)	40	50
	-8	32 3185 30 1075 2 6 5-7,5 -8 6,5-10 5 422 540

Table 4 - Technical values









SPARE PARTS LIST Complete Machine / T-TCBM185-1

Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number	Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number
1	1	200040141	GEARBOX AND DRUM GROUP 185			17	1	93200.0000000.015	SLOTTED PIN Ø8x45	DIN 1481	YARIKLI PİM Ø8x45
2	4	92150.0040121.026	CHOPPER BLADE		510.04.027.0 (TTCBM1651-1.2.59)	18	1	10040122.010.021000000	GEARBOX UPPER PIPE COMPLETE		546.05.008.0
3	1	10401201.431.000000000	JOINT		TTCBM1651-1.2.46	19	1	10040122.010.104000000	BAR CONNECTION PIN		546.05.007.0
4	1	10040144.010.011000000	WELDED MAIN HOLDER		546.02.001.0	20	1	10040142.010.062000000	BAR PIPE GEARBOX CONNECTION PIN		457.07.096.0
5	1	10401201.181.000000000	DUST SHEET		TTCBM1651-1.3.20	21	1	93200.0000000.007	SLOTTED PIN Ø6x30	DIN 1481	YARIKLI PİM Ø6x30
6	2	93021.0000000.157	BOLT	DIN 933	CIVATA AKB M8x1,25x20 8.8	22	1	10040142.010.021000000	TENSION SHEET BAR COMPLETE-185		539.05.021.0
7	2	93082.0000000.015	NUT	DIN 985	SOMUN FİBERLİ M8x1,25	23	1	10040142.010.031000000	TENSION SHEET BAR 2-185		539.05.023.0
8	1	10401201.031.000000000	SUPPORT LEG		TTCBM1651-1.3.18	24	1	93120.0000000.008	COTTER	DIN 94	KOPİLYA 5x40
9	1	92060.1501002.005	PIN		TOT-1.23	25	1	10401201.071.000000000	LOCK		TTCBM1651-1.1.9
10	1	93021.0000000.099	BOLT	DIN 933	CIVATA AKB M16x2x50 8.8	26	1	93062.0000000.007	WASHER	DIN 125	RONDELA DÜZ M16
11	1	10401201.191.000000000	CONNECTION PART		TTCBM1651-1.1.13	27	1	93120.0000000.001	COTTER	DIN 94	KOPİLYA 3x30
12	1	92160.0401201.025	CONNECTION BUSHING		TTCBM1651-1.10	28	1	10401201.080.0000000000	SAFETY MECHANISM COMPLETE		TTCBM1651-1.28
13	1	10040142.010.011000000	BAR-185		546.05.002.0	29	3	93110.0000000.005	LUBRICATOR	DIN 71412	GRESÖRLÜK DÜZ M6
14	2	10401201.212.000000000	DISTANCE HOLDER ABD BAR WASHER		TTCBM1651-1.26	30	1	92150.0040111.056	UPPER ARM SIDE CONNECTION SHEET		546.00.002.0
15	1	93120.0000000.013	COTTER	DIN 94	KOPILYA 6x70	31	4	93062.0000000.004	WASHER		RONDELÂ DÜZ M10
16	1	10040122.010.104000000	BAR CONNECTION PIN		546.05.007.0	32	1	10401201.101.000000000	HITCH MITER		TTCBM1651-1.1.4



SPARE PARTS LIST Complete Machine / T-TCBM185-1

Doc	Amount	Order Number	Explanation	Standard Norm	Old Number	Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number
33	1	93261.0000000.016	SNAP RING	DIN 471	SEGMAN MİL Ø60x2 Ck75	49	1	92150.0040124.026	PROTECTION SMALL HEAD SHEET		541.02.027.0
34	1	10401201.611.0000000000	SPECIAL RAYNEL		TTCBM1651-1.96	50	2	93021.0000000.153	BOLT	DIN 933	CIV-M8x1,25x12-8.8
35	1	10401201.111.000000000	SPLINED SLEEVE		TTCBM1651-1.4	51	2	93062.0000000.015	WASHER		RONDELÂ DÜZ 5/16" KALIN
36	1	10401201.262.000000000	CONNECTION SPINDLE		TTCBM1651-1.14	52	2	92070.0401201.001	PLASTIC BUSHING		TTCBM1651-1.1.5
37	1	93120.0000000.008	COTTER	DIN 94	KOPİLYA 5x40	53	1	10401201.480.000000000	THREE POINT HITCH		TTCBM1651-1.1.1
38	1	10401201.272.000000000	LEVEL SPINDLE		TTCBM1651-1.15	54	1	92160.0401201.024	BAR SHEET CONNECTION SHEET		TTCBM1651-1.1.22
39	1	93062.0000000.007	WASHER	DIN 125	RONDELA DÜZ M16	55	1	10401201.810.000000000	CAP		TTCBM1651-1.1.6
40	1	93120.0000000.008	COTTER	DIN 94	KOPİLYA 5x40	56	1	92160.0401201.018	CAP CONNECTION PIN		TTCBM1651-1.1.16
41	1	10401201.282.000000000	ADJUSTMENT SPINDLE SPRING	DIN 17223	TTCBM1651-1.17	57	1	10401201.352.000000000	DISTANCE BUSHING 1		TTCBM1651-1.1.17
42	1	10401201.292.000000000	TENSION SHEET		TTCBM1651-1.18	58	1	93062.0000000.007	WASHER	DIN 125	RONDELÂ DÜZ M16
43	1	93081.0000000.006	NUT	DIN 985	SOMUN AKB M16x2	59	1	93120.0000000.008	COTTER	DIN 94	KOPİLYA 5x40
44	3	93030.0000000.032	V BELT		KAYIS-V 17x3150	60	1	10401201.362.0000000000	DISTANCE BUSHING 2		TTCBM1651-1.1.14
45	1	92150.0040141.021	BELT COVER		539.02.012.1	61	1	10401201.372.000000000	DISTANCE BUSHING 3		TTCBM1651-1.1.15
46	1	92150.0040141.020	BELT COVER FRONT SHEET 185		539.02.013.1	62	1	93021.0000000.021	BOLT	DIN 933	CIV-M10x1.5x90x25-8.8
47	4	93021.0000000.008	ВОТ	DIN 933	CİVATA AKB M10x1,5x20 8.8	63	1	93021.0000000.020	BOLT	DIN 933	CIV-M10x1.5x80x25-8.8
48	1	92150.0040124.027	PROTECTION BIG HEAD SHEET		541.02.028.0	64	2	93082.0000000.001	NUT	DIN 985	SOMUN FİBERLİ M10x1,5



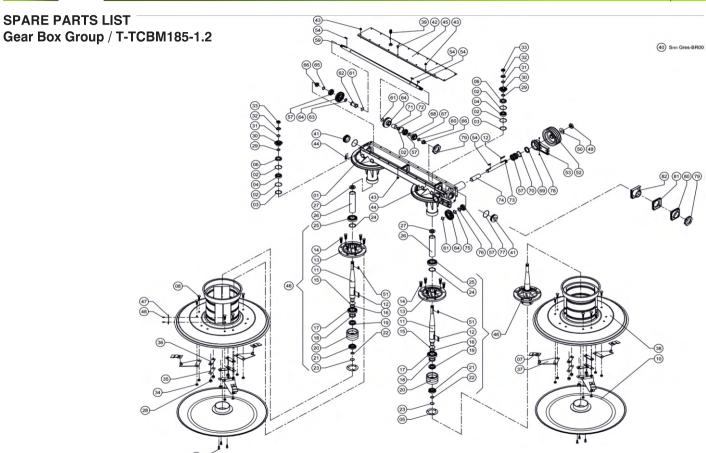


SPARE PARTS LIST
Complete Machine / T-TCBM185-1

Com	omplete Machine / T-TCBM185-1					Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number
Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number	81	6	92080.0401201.001	BLADE CM 120		TTCBM1651-1.2.64
65	1	92060.0040122.001	THREE POINT HITCH SPRING	DIN 17223	TTCBM1651-1.1.12	82	1	10401201.501.000000000	CURTAIN GROUP		TTCBM1651-1.5
66	1	10401201.392.000000000	HITCH PIN		TTCBM1651-1.1.25	83	1	10401201.080.032000000	SAFETY SPRING		TTCBM1651-1.3.10
67	1	93082.000000.005	NUT		SOMUN FİBERLİ M14x2	84	1	10401201.080.021000000	SAFETY BAR		TTCBM1651-1.3.9
68	1	93062.0000000.023	WASHER		RONDELÂ DÜZ 9/16" KALIN	85	1	93062.0000000.007	WASHER	DIN 125	RONDELÂ DÜZ M16
69	4	93240.0000000.003	PIN		PİM ARMUT BAŞLI MAŞALI Ø10	86	4	93062.0000000.005	WASHER	DIN 125	RONDELÂ DÜZ M12
70	1	10401201.141.000000000	DISTANCE FRAME SIDE PIPE		TTCBM1651-1.3.15	87	2	93062.0000000.013	WASHER	DIN 125	RONDELÂ DÜZ M8
71	1	92160.0401201.028	DISTANCE PIPE CONNECTION PIN		TTCBM1651-1.3.16	88	1	10401201.161.000000000	BLADE TOOL		TTCBM1651-1.27
72	1	93120.0000000.008	COTTER	DIN 94	KOPİLYA 5x40	89	8	93021.0000000.139	BOLT	DIN 933	CİVATA AKB M6x1x16 8.8
73	1	10401201.422.000000000	SUPPORT SHEET 3		TTCBM1651-1.09	90	8	93064.0000000.007	WASHER	DIN 127-B	RONDELÂ YAYLI M6
74	2	93025.0000000.005	PLASTIC STOPPER		LASTİK TAKOZ Ø50x30 M10	91	8	93081.0000000.022	NUT	DIN 985	SOMUN AKB M6x1
75	2	93082.0000000.001	NUT	DIN 985	SOMUN FİBERLİ M10x1,5	92	4	93082.0000000.003	NUT	DIN 985	SOMUN FİBERLİ M12x1,75
76	1	92070.1202510.001	PLASTIC PTO COVER		TTCBM-MUHAFAZA	93	3	93021.0000000.096	BOLT	DIN 933	CİVATA AKB M16x2x35 8.8
77	2	93021.0000000.009	BOLT	DIN 933	CİVATA AKB M10x1,5x25 8.8	94	1	10401201.080.041000000	SAFETY BAR		TTCBM1651-1.3.7
78	2	93082.0000000.001	NUT	DIN 985	SOMUN FİBERLİ M10x1,5	95	1	10401201.080.011000000	SAFETY BAR FLAT		TTCBM1651-1.3.8
79	2	10401201.110.022000000	COVER WASHER		TTCBM1651-1.11	96	1	93120.0000000.008	COTTER	DIN 94	KOPİLYA 5x40
80	1	10401201.010.142000000	SUPPORT SHEET 2		TTCBM1651-1.2.66	97	1	10401201.242.000000000	GEARBOX UPPER CONNECTION PIN		TTCBM1651-1.1.24









SPARE PARTS LIST Gear Box Group / T-TCBM185-1.2

			55 111100 112								
Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number	Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number
1	1	10040141.010.011000000	GEARBOX 185		539.03.001.0	17	2	93071.0000000.030	BEARING	DIN 625	RULMAN 6210 C3 2RS
2	5	93262.0000000.011	RING	DIN 472	SEGMAN DELİK Ø62x2 Ck75	18	2	92160.0401201.009	BEARING DISTANCE RING		TTCBM1651-1.2.11
3	2	93210.0000000.045	LAYNER	DIN 988	SIM 50x62x0,20	19	2	93074.0000000.002	BEARING	DIN 711	RULMAN 51109 BBC
4	2	93071.0000000.044	BEARING	DIN 625	RULMAN 6305 C3 2RS	20	2	92020.0401201.008	INSIDE HOUSING		TTCBM1651-1.2.13
5	2	92150.0401201.073	UPPER SLEVE WASHER		TTCBM1651-1.2.70	21	2	93071.0000000.019	BEARING	DIN 625	RULMAN 6207 C3 2RS
6	2	93041.0000000.018	OIL FELT	DIN 3760	KEÇE YAĞ 40x62x10	22	2	93210.0000000.038	LAYNER		SIM 35x45x2,00
7	6	92080.0401201.001	BLADE CM 120		TTCBM1651-1.2.64	23	2	93261.0000000.009	SPINDLE RING	DIN 471	SEGMAN MİL Ø35x1,5 Ck75
8	12	93024.0000000.011	BOLT		CIVATA KBBB M12x1,75x25 8.8	24	2	93210.0000000.009	LAYNER	DIN 988	SIM 50x62x0,50
9	6	93023.0000000.004	BOLT	DIN 912	CIVATA IMB M10x1,5x30 8.8	25	2	93071.0000000.030	BEARING	DIN 625	RULMAN 6210 C3 2RS
10	2	10401301.010.100000000	BOTTOM DISK		TTCBM1901-2.3	26	2	92160.0401201.062	DISTANCE PIPE		TTCBM1651-1.2.17
11	2	122.0000.0040141.160.001	CONICAL SHAFT 185		539.03.023.0	27	2	92160.0401201.001	DISTANCE PIPE SPECIAL BUSHING		TTCBM1651-1.2.18
12	3	93150.0000000.003	WEDGE	DIN 6885	KAMA 8x7x55 A	28	12	93081.0000000.006	NUT	DIN 934	SOMUN AKB M16x2 8.8
13	2	92020.0401201.007	HUB		TTCBM1651-1.2.8	29	2	92150.0401201.004	DISTANCE WASHERØ33x25,5x2		TTCBM1651-1.2.5
14	12	10040141.010.063000000	BIJON 185		539.03.024.0	30	2	92120.0401201.001	SMALL HOUSING CONICAL GEAR Z:15		TTCBM1651-1.2.20
15	2	92160.0401201.008	BIG WIRE RING	DIN 7993	TTCBM1651-1.2.78	31	2	93210.0000000.017	LAYNER	DIN 988	SIM 25x36x1,00
16	2	93210.0000000.048	LAYNER	DIN 988	SIM 50x62x0,80	32	2	10401201.010.090000000	SPECIAL ASPELYA		TTCBM1651-1.2.72



SPARE PARTS LIST Gear Box Group / T-TCBM185-1.2

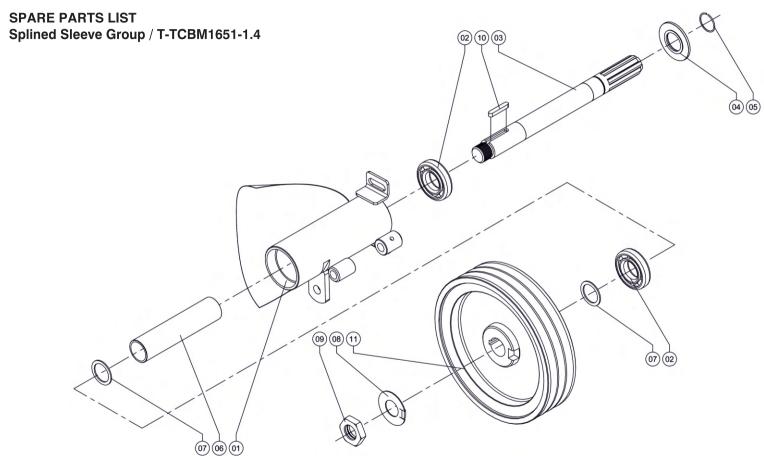
Geal	ear Box Group / 1-1 CBM185-1.2											
Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number	Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number	
33	2	92160.0401201.002	CONICAL SPINDLE ADJUSMENT NUT		TTCBM1651-1.2.22	49	1	92160.0401201.006	SHORT SPINDLE Adjusment right nut		TTCBM1651-1.2.77	
34	12	93082.0000000.003	NUT	DIN 985	SOMUN FİBERLİ M12x1,75	50	1	92150.0401201.006	NUT SAFETY SHEET		TTCBM1651-1.4.10	
35	6	10401201.010.142000000	SUPPORT SHEET 2		TTCBM1651-1.2.66	51	2	93150.0000000.010	COTTER	DIN 6885	KAMA 8x7x32 B	
36	6	10401201.010.132000000	SUPPORT SHEET 1		TTCBM1651-1.2.65	52	1	92020.0401201.006	GEARBOX PULLEY		TTCBM1651-1.2.47	
37	6	10401201.010.051000000	BLADE HOLDER		TTCBM1651-1.2.114 (TTCBM1651-1.2.62,-1.2.63)	53	1	92020.0401201.005	JOINT		TTCBM1651-1.2.46	
38	2	10040141.010.030000000	UPPER DISC 185		539.03.020.1	54	4	93150.0000000.002	COTTER	DIN 6885	KAMA 8x7x30 B	
39	1	92160.0209103.011	AIR PLUG M20x1,5		TKMR130-1.4.18	55	4	93071.0000000.017	BEARING	DIN 625	RULMAN 6206 C3	
40	1	93130.0000000.002	GREASE OIL 6KG.		GRES-BROOO	56	1	92160.0040141.002	GEARBOX LONG SPINDLE 185		539.03.028.0	
41	2	92070.0401201.003	PLASTIC COVER		TTCBM1651-1.2.39	57	1	93210.0000000.023	LAYNER		SIM 28x36x0,70	
42	16	93021.0000000.008	BOLT	DIN 933	CİVATA AKB M10x1,5x20 8.8	58	3	92160.0401201.003	RING	DIN 7993	TTCBM1651-1.2.24	
43	20	93082.0000000.001	NUT	DIN 985	SOMUN FIBERLI M10x1,5	59	1	92160.0401201.004	DISTANCE TUBE		TTCBM1651-1.2.25	
44	4	93021.0000000.012	BOLT	DIN 933	CIVATA AKB M10x1,5x40 8.8	60	1	93210.0000000.033	LAYNER	DIN 988	SIM 30x42x0,50	
45	1	10040141.010.050000000	GEARBOX COVER SHEET-185		539.03.027.1	61	3	92120.0401201.002	BEVEL GEAR Z:23		TTCBM1651-1.2.27	
46	2	10401201.010.023000000	HUB ASSEMBLY		TTCBM1651-1.2.101	62	1	92150.0401201.074	DISTANCE WASHER Ø40x25,5x2		TTCBM1651-1.2.29	
47	4	92150.0040121.026	CHOPPER BLADE		510.04.027.0 (TTCBM1651-1.2.59)	63	2	92160.0401201.005	GEARBOX LONG Spindle adjusment nut		TTCBM1651-1.2.30	
48	8	93021.0000000.139	BOLT	DIN 933	CİVATA AKB M6x1x16 8.8	64	1	92120.0401201.003	BIG HOUSING Conical Gear Z:15		TTCBM1651-1.2.34	



SPARE PARTS LIST Gear Box Group / T-TCBM185-1.2

Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number
65	1	93210.0000000.033	LAYNER	DIN 988	SIM 30x42x0,50
66	1	93041.0000000.024	OIL FELT	DIN 3760	KEÇE YAĞ 45x62x7
67	1	93210.0000000.065	LAYNER	DIN 988	SIM 35x45x0,50
68	1	92160.0401201.063	DISTANCE TUBE 2		TTCBM1651-1.2.31
69	1	93210.0000000.033	LAYNER	DIN 988	SIM 30x42x0,50
70	1	92160.0401201.051	SHORT SPINDLE		TTCBM1651-1.2.41
71	1	92160.0401201.064	DISTANCE TUBE 3		TTCBM1651-1.2.40
72	1		LAYNER		SIM 30x40x0,50
73	1	93210.0000000.031	LAYNER		SIM 30x40x1,00
74	1	93050.0000000.008	O-RING		0-RING 55x2,5
75	1	93110.0000000.005	LUBRICATOR	DIN 71412	GRESÖRLÜK DÜZ M6
76	1	92020.0040124.004	NUT		510.03.032.0
77	1	10040121.010.010030000	GEARBOX SHORT UNSIDE HOUSING-165-185-135		510.03.008.0
78	1	10040141.010.010010010	GEARBOX LONG INSIDE HOUSING SHEET 165-185-135		510.03.016.0
79	1	10040121.010.010040000	GEARBOX LONG INSIDE HOUSING-165-185-135		510.03.014.0







SPARE PARTS LIST Splined Sleeve Group / T-TCBM1651-1.4

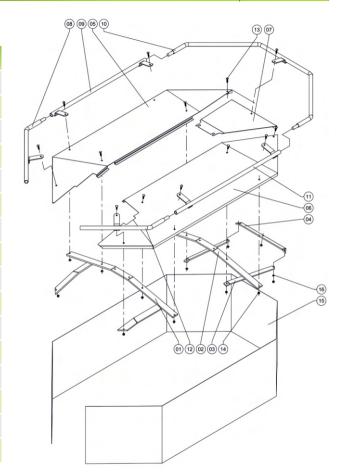
		51-1.4		Standard	
Pos. number	Amount	Order Number	Explanation	Norm	Old Number
1	1	10401201.110.010000000	SPLINED SLEEVE		TTCBM1651-1.4.1
2	2	93071.0000000.019	BEARING	DIN 625	RULMAN 6207 C3 2RS
3	1	92160.0401201.050	TAIL AXLE		TTCBM1651-1.4.3
4	1	92160.0401201.037	COVER		TTCBM1651-1.4.4
5	1	92160.0401201.066	RING	DIN 471	TTCBM1651-1.4.5
6	1	92160.0401201.065	DISTANCE PIPE		TTCBM1651-1.4.6
7	2	93210.0000000.065	LAYNER		SIM 35x45x0,50~2,00
8	1	92150.0401201.006	NUT SAFETY SHEET		TTCBM1651-1.4.10
9	1	92160.0401201.038	TAIL AXLE LEFT NUT		TTCBM1651-1.2.49
10	1	93150.0000000.012	COTTER	DIN 6885	KAMA 8x7x45 A
11	1	92020.0401201.011	BIG PULLEY		TTCBM1651-1.4.09





SPARE PARTS LIST Curtain Group / T-TCBM185-1.5

Curt	ain G	roup / I-ICB	W1185-1.5		
Pos. number	Amount	Order Number	Explanation	Standard Norm	Old Number
1	1	92150.0040141.011	CURTAIN BAR 3 WELDED		539.00.125.0
2	1	92150.0040141.011	CURTAIN BAR 3		539.00.119.0
3	2	92150.0040141.010	CURTAIN BAR 2		539.00.120.0
4	1	92150.0040141.009	CURTAIN BAR 1		539.00.121.0
5	1	92150.0040141.018	CURTAIN SHEET LEFT WELDED		539.00.110.0
6	1	92150.0040141.016	CURTAIN SHEET RIGHT WELDED		539.00.113.0
7	1	92150.0040141.014	CURTAIN SHEET FRONT WELDED		539.00.116.0
8	1	539.50.011.0	CURTAIN PIPE 4		539.50.011.0
9	1	539.50.009.0	CURTAIN PIPE 2		539.50.009.0
10	1	539.50.007.0	CURTAIN PIPE 1		539.50.007.0
11	1	539.50.004.0	CURTAIN PIPE 3		539.50.004.0
12	1	539.50.013.0	CURTAIN PIPE 5		539.50.013.0
13	13	93024.0000000.012	BOLT		CIVATA KBBB M8x1,25x30 8.8
14	13	93082.0000000.015	NUT		SOMUN FİBERLİ M8x1,25
15	1	92090.0401301.001	CURTAIN 410x5600 1900		TTCBM1901-8.15
16	13	93062.0000000.013	WASHER		RONDELÂ DÜZ M8





HANDOVER DOCUMENT

The handover document is the part of the documentation of the machine in which the manufacturer or representative informs the buyer of:

- 1. The correct usage and major components of the machine;
- 2. The operation and handling of the machine.

For all machines, the manufacturer or manufacturer's representative guarantees that the commissioning of the machine will be performed within 8 days from the acquisition of the machine:

Machine details	Buyer's
PRODUCT NAME	Name Surname:
MODEL	Address:
PRODUCT CODE	
SERIAL NUMBER	Tel:
MANUFACTURE YEAR	Basic rules for using, maintenance and points to take into account for the machine purchased are duly explained to me and I am advised to read and understand the introductory and user guide provided with machine carefully. Signature
Seller'st	Authorised service provider'st
Date of Invoice:	Date of sevice:
Signature&Seal	Signature&Seal

The machine is correctly assembled and handed over to use – the commissioning has been performed.

The buyer has been acquainted with the usage, operation and handling of the machine.

The handover document is filled out by the seller or authorised service technician, who sends a copy directly to MINOS or at the **email address: info@minosagri.com.** With their signature, they guarantee the accuracy of the information. The warranty is validated simultaneously with the validation of the service sheet.



© Copyright MINOS DIS TICARET LIMITED SIRKETI., 2019. All rights reserved. Reprinting even of sections, only possible with the approval of MINIOS DIS TICARET LIMITED SIRKETI. Document No: T-TCBM 1850.2019 [I.O.M./Rev. No: 00-/ Date: 04.02.2019]

www.minosagri.com