BATMAN WORKMASTER

CE



MODULAR CLEANING MACHINE BM-2700
Operating and Maintenance Manual

PLEASE READ AND KEEP THIS MANUAL CAREFULLY

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Preface

Information About the Manual

This manual should be placed in a folder where brochures are stored. This book contains safety information, operating instructions, and maintenance recommendations. Some photographs and illustrations in this book may differ from your machine's details or attachments. I may have undergone some changes that are not covered in this book upon the development and improvement of product design, Read, study, and keep this book with your product. If a problem occurs with the machine or this publication, please contact **BATMAN MAKİNE** to get the current information.



SAFETY FIRST

Safety

Precautions are mentioned in the warning and operating instructions. However, this section specifies what the warning signs and labels used on the machine mean and where they are.

Operation

The Operating section can be regarded as a reference for a new operator and a refresher book for an experienced operator.

Photographs and drawings will guide the operator in checking, starting, operating, and stopping the machine.

The operation techniques outlined in this book are basic techniques. The operator will improve his skills and techniques as he becomes knowledgeable about the machine and its capabilities.

Maintenance

The maintenance section is a guide for machine maintenance.





Do not come and allow others to come close to the machine when operating.



ATTENTION

MOVING MACHINE PARTS

No intervention is allowed on sites with this label when the machine operates.



DO NOT PERFORM CLEANING, LUBRICATION WHILE THE MACHINE IS IN OPERATION.

Maintenance-repair, cleaning, lubrication, etc. works should not be done in the places where this warning put.



Do not come close to areas where this warning put when machine operates.

WARNING !

Do not operate or perform any operation on this machine without reading and understanding the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or to observe any warnings could result in injury or death. Consult BATMAN MAKİNE for replacement manuals. It is your responsibility to exercise any necessary attention.

WARNING !

Before starting the machine, make sure that there is nothing alive around by checking surroundings of the machine. Warning should be made from the loudspeaker before running.

WARNING !

Unintentional operation of the machine may cause injury or death to personnel working around the conveyor and rear boom. Before working on the machine, take the ignition key and the car door key into your pocket.

WARNING !

No intervention should be made while the machine is running. Never step on the machine.

WARNING !

While working on the machine for lubrication, cleaning, maintenance, etc., the tractor cabin must be locked. Only the operator should be in the tractor cabin.

WARNING !

Replace any missing or damaged safety signs with new ones.
Always consider operator safety first.
Clean the safety signs with mild soap and water.
Do not use solvent-based cleaners to prevent damage to the material forming the safety signs.

WARNING !

Never try to close leaking hydraulic circuit lines with your hand or finger.

WARNING !

People on the moving machine or stepping on it while the machine is running, leads the risk of falling for people!

WARNING !

Lifting lugs should be used while lifting the machine.

WARNING !

Always fix the machines disconnected from their drive and put wedges under the wheels.

WARNING !

Never raise the rear boom without the drawbar attached to the tractor. The machine will topple.

Safety of the worksite

Only personnel with at least F class license and certified training from the Manufacturer can operate the construction machine.

Personnel should maintain and operate the machine in accordance with the instruction and training received.

Hand crushing hazard

Personnel should never intervene with the moving parts while the machine is running.

The machine should be stopped and cleaning, maintenance etc. operations should be performed after the emergency stop buttons kept pressed.

Falling hazard

Personnel should get on and get off the tractor in a form facing the tractor. Two arms and one foot must be in contact with the tractor during getting on and off.

Jamming-squeezing hazard

No work should be done in the environment with presence of people. Nobody should be around during work and waste disposal.

The construction machine should not be started before making sure that the audio and visual warnings are operating.

Personal protection measures

The operator using the tractor must use SNR DB 20> earplugs in TS EN 352-2 standard. When they get off the machine, they should wear EN 166 work glasses, EN 374-2 gloves, S1 type work shoes in EN 20345 Standard, and EN 812 barrier cap.

Requirements of the construction machine operator

The operator who runs the construction machine occasionally or regularly must have the following qualifications:

Health requirements:

The operator must have a report regarding eligibility for working in heavy and dangerous jobs within the validity period issued by the occupational physician. The operator should not drink alcohol, take medications or other substances, which could impair mental and physical abilities and consequently the ability to operate machinery, before and after work.

Physical requirements:

Good eyesight and hearing, good coordination, and the ability to safely perform all the functions required for use as described in this manual must be available.

Mental requirements:

Must have the ability to understand and apply occupational safety rules and measures. He should be careful and sensitive to his own and others' safety and must undertake the task of doing things correctly and responsibly.

Emotional requirements:

The operator must have the ability to stay calm, withstand stress, and evaluate his own physical and mental state correctly.

Educational requirements:

He/she must carefully read and examine this manual, attached graphics, and diagrams, notices and warning labels and signboards. He/she must have adequate skills and training in the use of the machine. The operator must have a driver's license (license) to drive the machine within the limits stipulated by the laws in the country where this type of machine is operated and must have received training to operate the machine with a certificate from the manufacturer. Please consult the competent authorities.
The operator must be at least eighteen years old.

He/she should be careful and sensitive to his own and others' safety. It should take on the task of doing things correctly and responsibly.

Operation and User Manual

1- Only personnel with at least F class license and certified training can operate the construction machine.
2- The cabinet key and control panel key must only be in the driver.
3- Nobody other than the operator should be in the driver's cabin.
4- Put on personal protective earplugs and wear goggles, barrier helmets and work shoes before starting work.
5- The construction machine should be operated only after making sure that there is nobody in the sandy area and the environment and in accordance with its intended use.
6- Make sure that there is no living creature under the machine.
7- Take the ignition key of the tractor into your pocket and keep the sieve, anchors, and garbage collection unit free from unrelated materials.
8- Make sure that sound warnings of flasher, loudspeaker, camera, boom on the machine are working.
9- Check the hydraulic level and tire pressure before starting work.
10- Apply grease to the grease nipples from the spots specified in the lubrication scheme.
11- Adjust your seat, mirrors, and control panel according to your own viewing angle.
12- Do not operate the machine and lift the rear boom on extremely inclined surfaces.
13- The machine should be operated by pulling forward. Don't work backwards.
14- Be especially careful when attaching the machine to the tractor and disconnected from the tractor. There are places where there is a crushing and cutting danger at the connection point between the tractor and the machine!
15- It is forbidden to stand between the machine to be connected and the tractor while the tractor is approaching the machine!
16- Attending assistants can only be present next to the vehicle as a guide and can only intervene when the vehicles stop.
17- Use the drawbar support jack before connecting or disconnecting the machine.
18- Collected garbage should be emptied while the machine is connected to the tractor. Do not unload while the tractor is separate from the rear, do never operate the machine in any way.
19- Before leaving the tractor, secure it against unintentional slipping of the tractor.
20- When the machine is connected, take the machine's length and mass moment of inertia into account in detours.
21- Adjust driving and working speed according to actual conditions.
22- Observe the traffic rules on highways.
23- Only maintenance and repair personnel should intervene for the failures in the machine.
24- Pay attention to the warnings on the machine.
25- Never perform maintenance, cleaning, adjustment sand step on the machine while the machine is in operation. All of these operations must be done after the engine stops.
26- Avoid rapid and hard movements while maneuvering and driving, do not skid the tractor. You may sink the tractor.
27- Choose the working speed suitable for the beach conditions and cleaning depth, check the cleaning process and the filled garbage tank.
28- At the end of the work, dispose the garbage into a suitable area.
29- At the end of the work, the machine should be driven to the relevant parking area, the garbage collecting boiler should be lowered and the hand brake should be applied.
30- At the end of each working day, wash the machine with tap water and lubricate.

Description of Machine Operating and Control:

Working Depth: The appropriate working depth is selected by lifting the hydraulic arms up and down.

N**ote**: The machine is taken to the road position in the same way.

Operating Speed: The operating speed (running speed of the tractor) appropriate for the beach conditions is selected…

Moss - Garbage Collection System: The system starts and stops by running and stopping the PTO shaft.

Lifting Garbage Tank: The relevant control arm of the damper valve is used to raise or lower the garbage tank…

Emptying Garbage Tank: The relevant control arm of the damper valve is used to open and close the garbage tank's discharge cover…

BATMAN WORKMASTER

MAINTENANCE CHART OF BM 2700 MODULAR CLEANING MACHINE

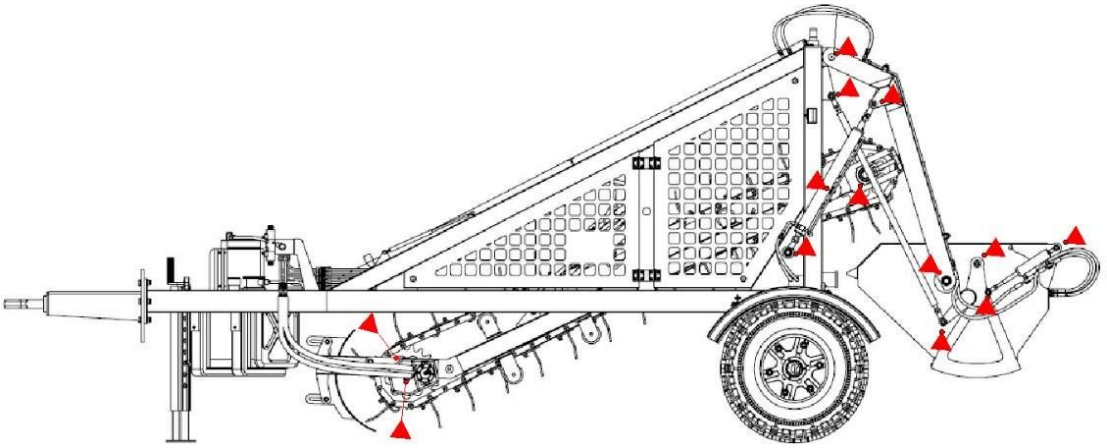
YEAR:

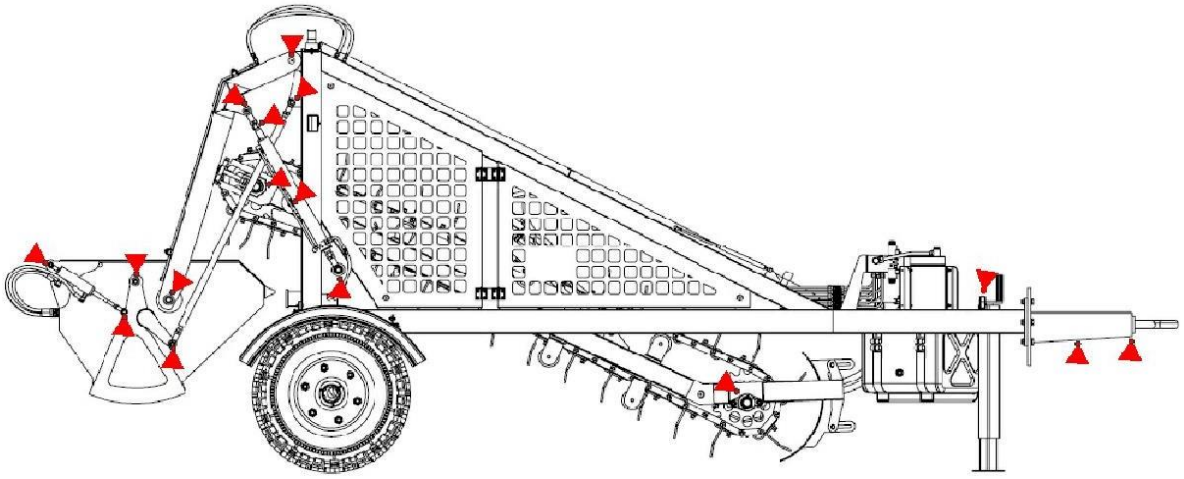
Form No:

MACHINE:

MONTHLY MAINTENANCE TO BE PERFORMED		DATES																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1- Check The Overall view 2- Perform Environmental Control 3- Tires, Gauges, Water level, Hydraulic level 4- Conveyor Cleaning 5- Oil the grease nipples 6- Check Safety Equipment 7- Washing the machine with fresh water	OPERATOR	Jan 13																														
		Feb 13																														
		Mar.13																														
		Apr.13																														
		May 13																														
		Jun 13																														
		Jul 13																														
		Aug.13																														
		Sep 13																														
		Oct 13																														
		Nov 13																														
		Dec 13																														
1- Control of The Hydraulic Systems 2- Control of the Conveyor 3- Control of other Mechanisms	MAINTENANCE REPAIR	Jan 13																														
		Feb 13																														
		Mar.13																														
		Apr.13																														
		May 13																														
		Jun 13																														
		Jul 13																														
		Aug.13																														
		Sep 13																														
		Oct 13																														
		Nov 13																														
		Dec 13																														
MANUFACTURER GENERAL CONTROL MAINTENANCE REPAIR	MANUFACTURER	YEAR																														

MACHINE LUBRICATION POINTS:





TECHNICAL DATA

Machine Identification: Modular Cleaning

Machine Model Name: BM-2700

Total weight: 1740 kg

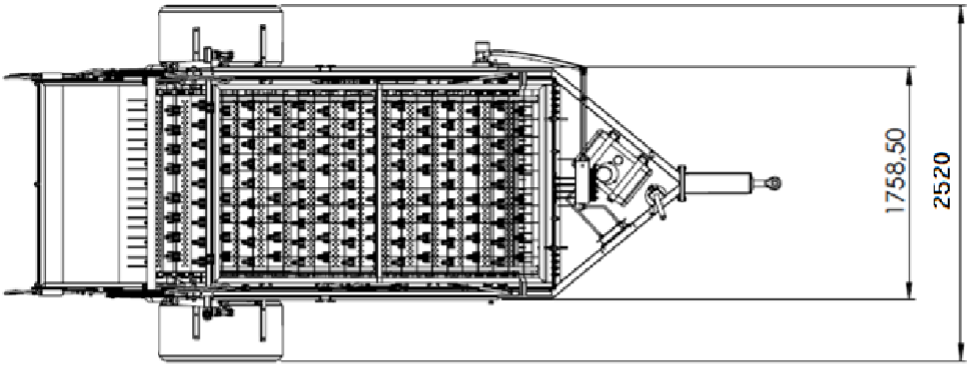
Hydraulic Tank Capacity: 90 l

Hydraulic oil type SAE 46

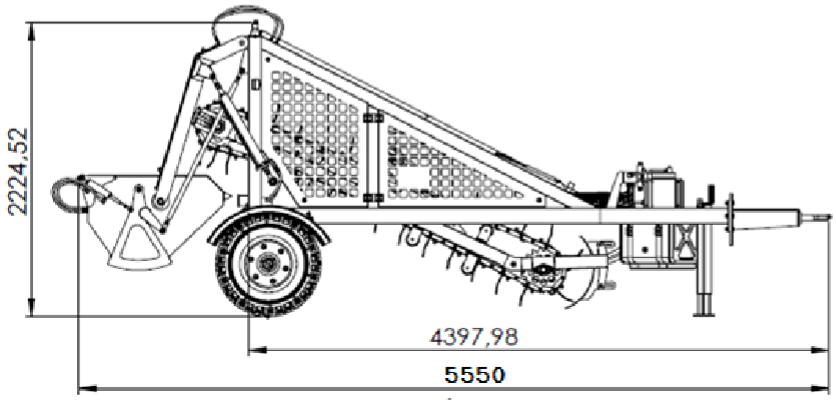
Machine Dimensions: Indicated on the figure.

Tire Pressures: 18 psi

Tire Size: 400 / 60-15,5



ŞEKİL 14 FIGURE 14



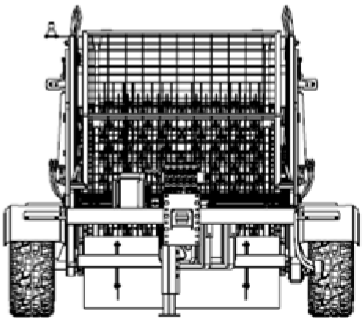


FIGURE 16 ŞEKİL 16

CE

CE DECLARATION OF CONFORMITY

CE UYGUNLUK DEKLARASYONU

Our company
BATMAN MAKINA
SEZAI BATMAN

Firmamız,
BATMAN MAKİNA
SEZAİ BATMAN

Üretim faliyetlerini aşağıdaki adreslerde sürdürmektedir.

Mimarsinan Mah. Salhane Sok. No:1/D Silivri-İSTANBUL

Has been continuing production activities at the address below:
Mimarsinan Mah. Salhane Sok. No: 1/D Silivri-ISTANBUL / TURKEY

WORKMASTER®
BATMAN

www.workmasterbatman.com

BM-2700 MODÜLER TEMİZLEME MAKİNESİ 'nin

WE hereby declare that
BM-2700 MODULAR CLEANING MACHINE
Is produced in compliance with “EU Directive 2006/42/EC”

" EU Directive 2006/42/EC " makine emniyet yönetmeliğine uygun olarak üretildiğini deklare ederiz.

ISTANBUL / TURKEY
05.12.2018

İSTANBUL / TÜRKİYE

05.12.2018

(Signed)
SEZAİ AKMAN
General Manager

SEZAİ BATMAN
Genel Müdür