

# LOAD MASTER

USER MANUAL



# **LOAD MASTER**

**ELECTRIC HEAVY-DUTY INDUSTRIAL TRANSFER CART**



# TOUGH ENOUGH FOR ANY TASK

## RELAX WHILE IT WORKS

When you need to transport heavy equipment inside an industrial environment , the Load Master is ready for the task. This robust vehicle Offers a Reliable performance to enhance productivity and workflow in addition to an impressive ergonomic design.





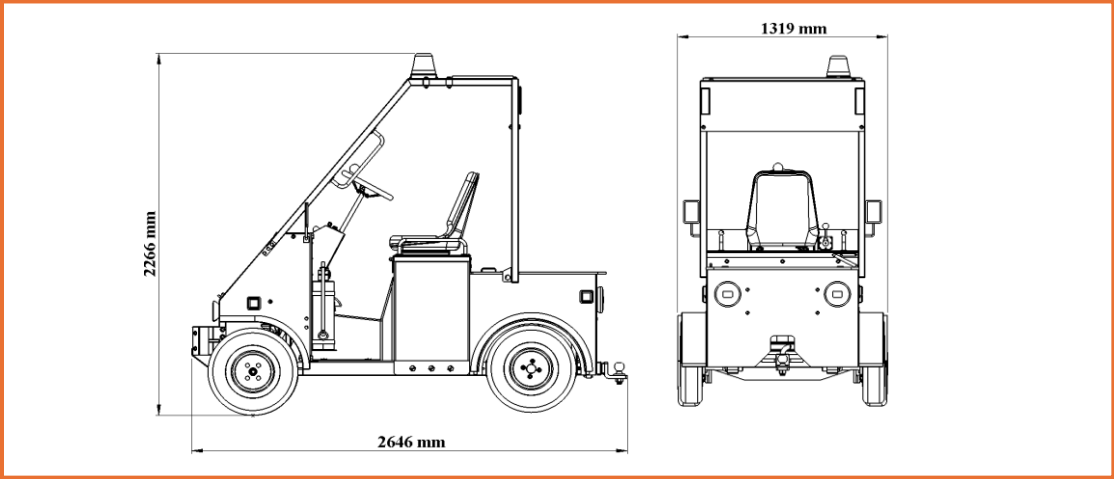
# LOAD MASTER **ADVANTAGES**



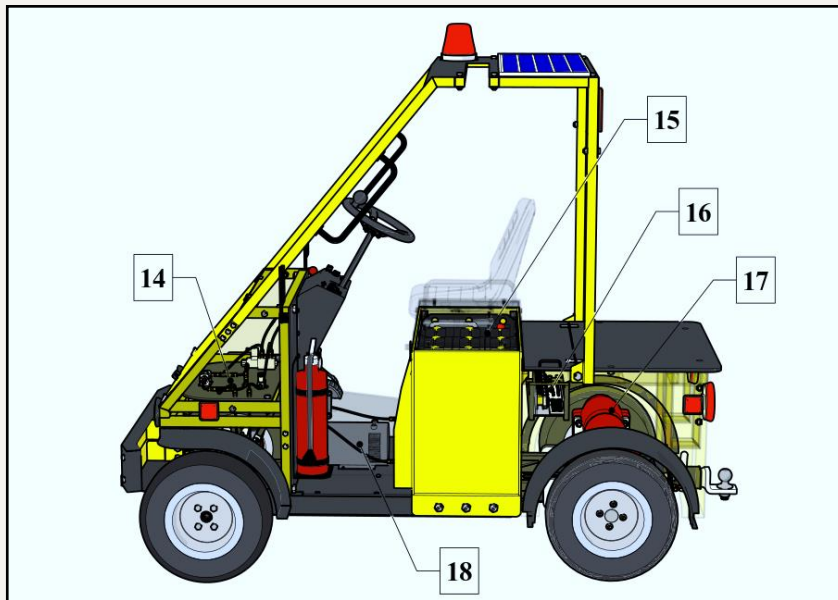
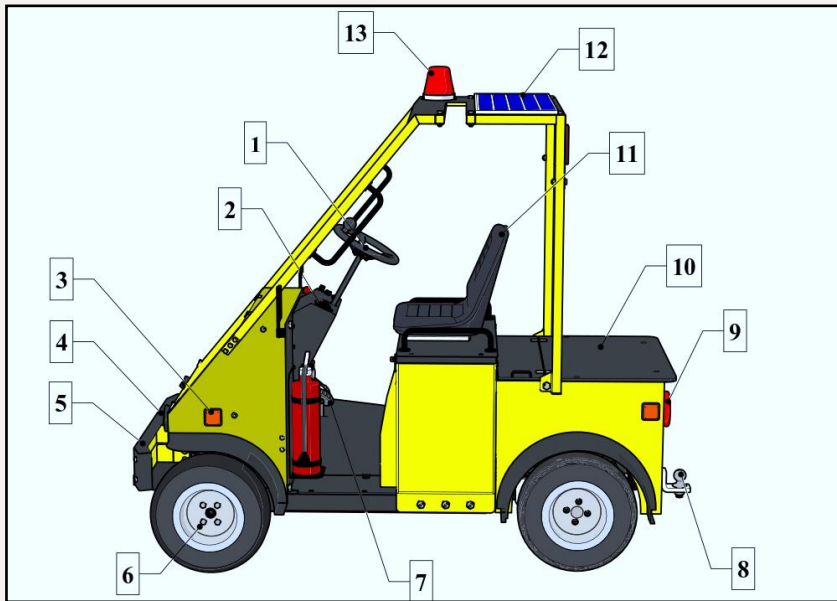
- ▶ **MANUAL & ELECTRIC CONTROL**
- ▶ **COMPACT DESIGN**
- ▶ **1600 NM OF TORQUE**
- ▶ **4000 KG TOWING CAPACITY**
- ▶ **10 KM/H SPEED**
- ▶ **24 V DC POWER SUPPLY**
- ▶ **5H BATTERY AUTONOMY**
- ▶ **SOLAR ENERGY EXPLOITATION**
- ▶ **HYDRAULIC INSTALLATION**

# LOAD MASTER SPECIFICATIONS

GENERAL DATA		
Towing Capacity	4000 kg	
Control Circuit Power Source	Lead Acid Battery 24V	
Auxiliary Circuit Power Source	Lead Acid Battery 12 V	Monocrystalline Solar Panel
Control	Manual	
Turning Radius	2.45 m	
Operation Position	Sitting posture	
working posture	Sitting posture	
Dimensions	LENGTH : 2646 mm WIDTH : 1319 mm HEIGHT : 2266 mm	
Weight	1215 Kg	
PERFORMANCE DATA		
Motors Torque ( Nm)	1604 Nm	
Motors Power Capacity	4 KW	
Speed	10 KM/H	
Control Circuit Battery Autonomy	1120 AH	
Control Circuit Battery Recharging Time	3 H	
Auxiliary Circuit Battery Autonomy	130 AH	
PV Peak Power	190 Wp	
Motor-Pump Power Capacity	5 KW	
NORMS & STANDARDS		
Safety Standards	ISO 16090-1:2017	
Dust & Water Resistance	IP54	
Ergonomics standards	NF x35-106 standards	
COST		
10.000 Tunisian Dinar		



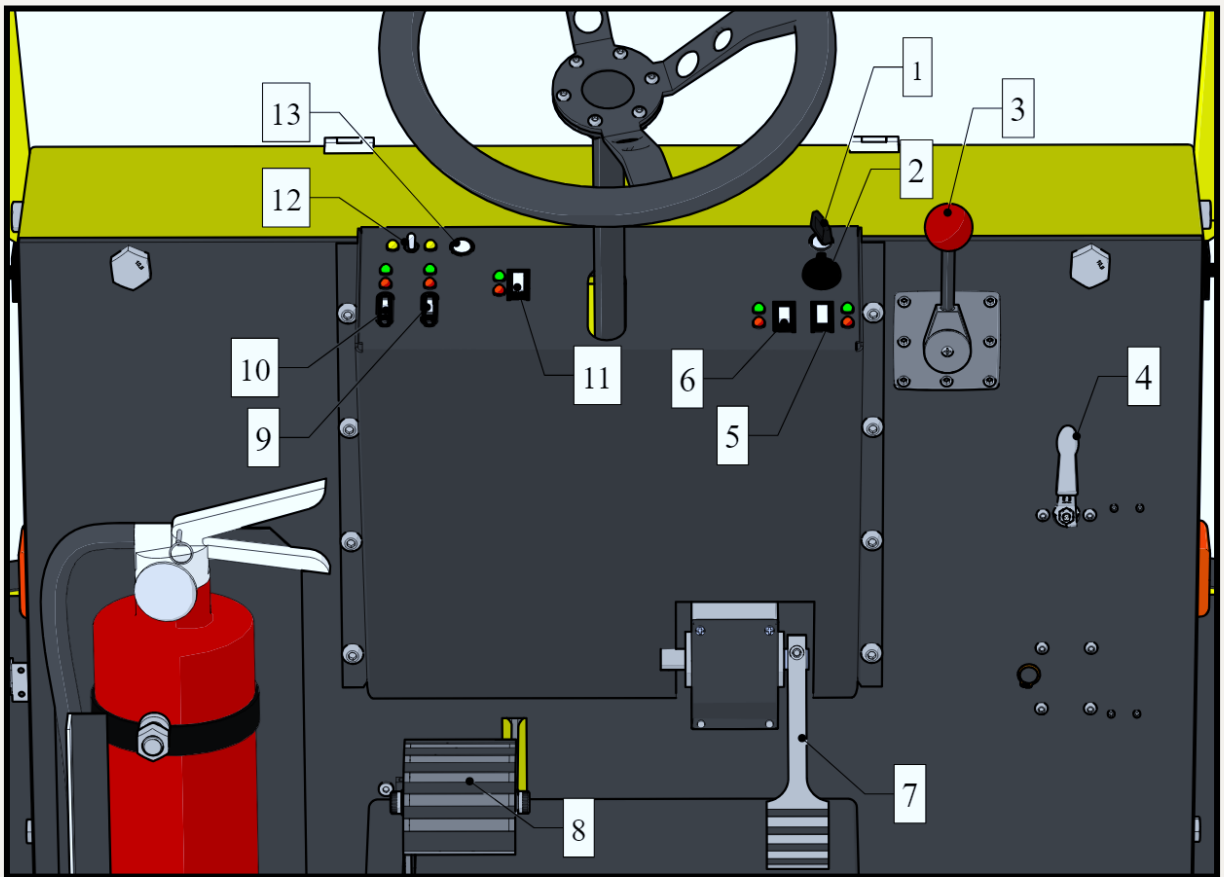
# LOAD MASTER **OVERVIEW**



- 1. Steering Wheel
- 2. Dashboard
- 3. Blinkers
- 4. Front Road Lights
- 5. Bumper
- 6. Wheels
- 7. Foot Pedals
- 8. Traction Mechanism
- 9. Rear Road Lights

- 10. Load Platform
- 11. Seat
- 12. Solar Panel
- 13. Emergency Light
- 14. Hydraulic Installation
- 15. Battery
- 16. Electric Installation
- 17. Motors
- 18. Motors

# CONTROL DASHBOARD



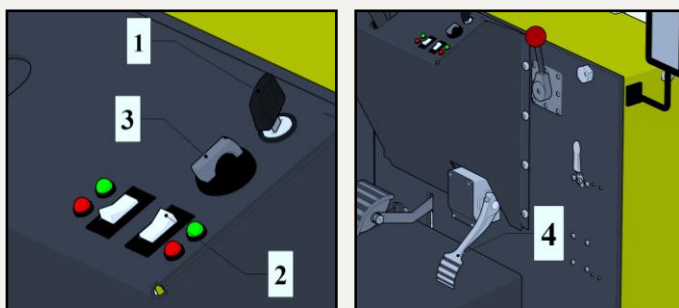
Number	Name
1	Key switch : ON-OFF
2	Motors Direction Switch : FORWARD - BACKWARD
3	Hydraulic Control Panel :
4	Hydraulic Valve : OPEN - CLOSED
5	Motors Alimentation Switch : ON-OFF
6	Motor-Pump Alimentation Switch : ON-OFF
7	Acceleration Pedal
8	Brake Pedal
9	Road Lights Switch : ON-OFF
10	Emergency Lights Switch : ON-OFF
11	AC Alimentation Switch : ON-OFF
12	Blinkers Switch : RIGHT - LEFT
13	Horn Button : ON-OFF

# USAGE INSTRUCTIONS

## TRAVELLING

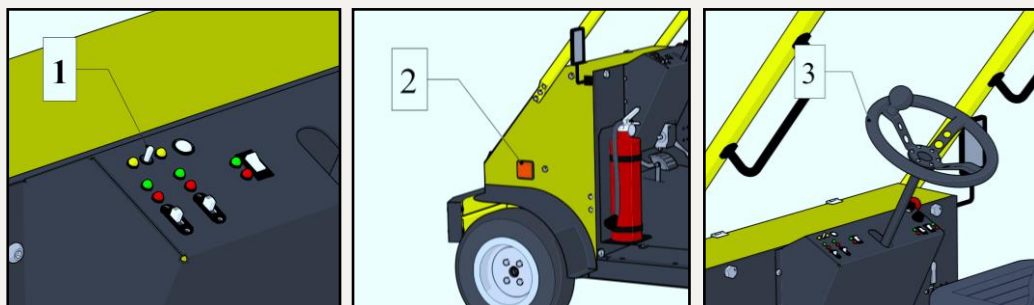
Sit on the Driver seat, Turn the Key Switch ON [1], Turn ON the motor's alimentation switch [2], Select the Forward or Backward mod [3].

Control the speed of movement by stamping the accelerator pedal [4]. carefully step on the pedal until you reached the desired speed. If you release the accelerator pedal, the cart decelerates until it stops.



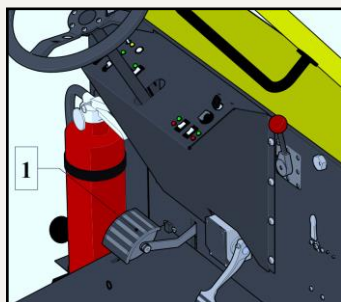
## STEERING

Use the blinkers switch [1] to select the desired turning direction, which will activate the corresponding blinker [2]. The steering of the cart is conducted by turning the driving wheel [3] to the left or right side.



## BRAKING

To stop or decrease the speed of the cart, press on the braking pedal [1]. The braking performance depends on the Load and track conditions.

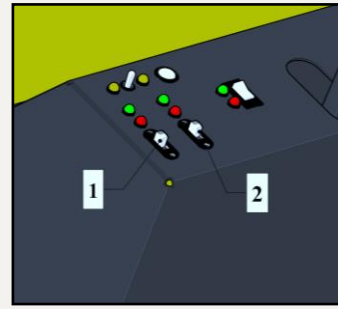




## LIGHTINGS

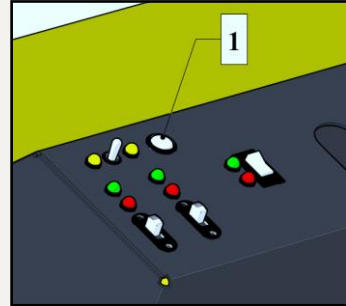
To Turn ON the road lights, press the Switch [1]

To Turn ON emergency Lights, Press Switch [2]



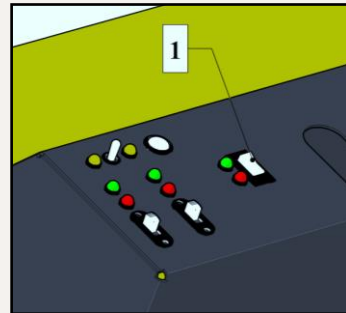
## HORN

To use the Horn , press the button [1]



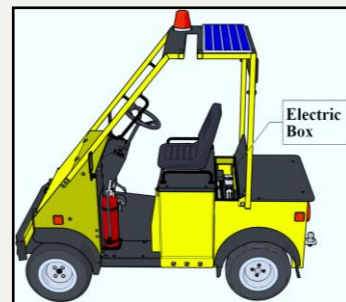
## AC CHARGING MODE

To activate the AC charging mode of the battery, push the switch [1]



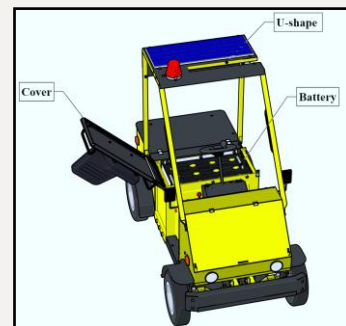
## ELECTRIC INSTALLATION

Be sure that the key switch is turned OFF,  
Open the Electric Box



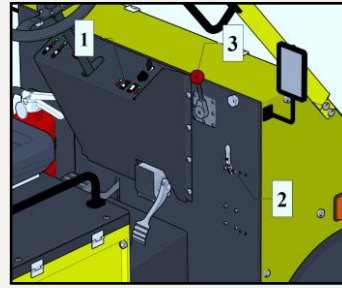
## BATTERY CHANGING

Open the Battery cover , Use a Crane to take out  
the Battery out through the U-shape in the  
canopy



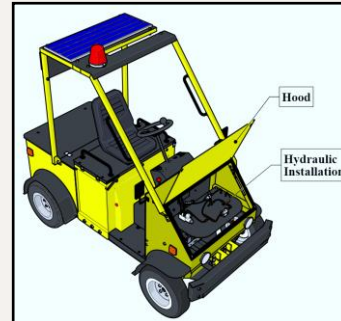
## HYDRAULIC CIRCUIT

To use the Hydraulic pressure, press the switch [1] to turn ON the motor-Pump, open the valve [2] , use the control arm [3] to control the direction of fluid flow



## HYDRAULIC INSTALLATION








Unlock the Hood latches, Open the Hood and fix it using the Rod








# CHECK LIST

	Months				
	$\frac{1}{4}$	1	3	6	12
<b>Mechanical System</b>					
Check the chassis for deformation and cracks			X		
Check if all screws are fixed			X		
Check the gearbox for noise and leakage			X		
Inspect the wheels for deformation and damages			X		
Inspect and lubricate the steering bearing					X
Inspect and lubricate the pivot points			X		
Check the air pressure for the wheels		X			
<b>Electric System</b>					
Check the batteries voltage		X			
Check the battery housing for damages			X		
Inspect the electric wiring for damage		X			
Check the electric connections , terminals and contactors		X			
Check, if correct fuses & Resistors			X		
Clean The solar Panel	X				
Check the Regulator			X		
Test the Light & Horn	X				
<b>Braking System</b>					
Check brake performance, if necessary, replace Components		X			
<b>Hydraulic System</b>					
Inspect all hoses, fittings, and connections for signs of leaks		X			
Ensure the reservoir is properly filled			X		
Test all control valves.	X		X		
Check that the pressure Values		X			

# SAFETY INSTRUCTIONS

-  **DO NOT stand in front of or behind the tractor when it is moving.**
-  **DO NOT Overload the Cart or handle unstable loads.**
-  **DO NOT Lift people.**
-  **DO NOT park the cart on inclined surfaces**
-  **DO NOT touch the electric wires with the cart turned ON & with bare hands**
-  **DO NOT open the Hood while using the Hydraulic system**
-  **DO NOT jump in case of Flip-Over**

-  **Inspect the Cart before every working Day**
-  **Use Seat belt & wear appropriate Protective Equipment**
-  **Clear Pathway**
-  **Clear Pathway**
-  **Secure the**

