

TWINCA

User Manual E-800



E-800_GB

Contents

1. How to use the machine
2. Environmental protection
3. Technical data
4. Personal safety
5. Transportation of the machine
6. Driving in terrain
7. Check before starting
8. How to operate the machine
9. Troubleshooting guide
10. Service and maintenance
11. Pictographs
12. Hydraulic diagram
13. Current diagram
14. Warranty
15. A-declaration

Twinca A/S reserve the right to change the specifications of the machine without a prior binding notice

1 How to operate the machine

Contractor is for transportation of primarily soil, granulates, stone, concrete and organic materials.

Contractor has a unique ergonomic steering system. Contractor is easy to manoeuvre in a way that hard physical strain during operation of heavy goods is minimized.

Contractor makes the working procedures on the site easier. Contractor mini dumper can manage anywhere and there is no need for dock plates, not even when driving on uneven terrain.

Contractor is particularly suitable for landscape gardeners, contractors, farmers, sextons, municipal service divisions and rental companies.

2 Environmental protection



For the protection of the environment, it is important that discarded machine parts and accessories be delivered to relevant recycling depots, as the machine contains reusable materials.

Machine parts	Material
Steering wheel	Steel
Frame	Steel
Battery	
Hydraulic gear pump	Aluminium and steel
Variable hydraulic pump	Steel and brass
Dump bed	Steel
Other parts	Steel and aluminium

Since the noise level of the machine is less than 70 db(A), the noise level has not been measured.

3 Technical data

	Contractor
Width (mm)	900
Length (mm)	2150
Height (control lever)(mm)	1120
Height (dump bed (mm)	920
Battery TE35	4 units 6V
Maximum speed - forwards (km/h)	5
Maximum speed -backwards (km/h)	5
Bed capacity -loading volume (litre)	280
Bed capacity - maximum volume (kg)	800
Machine weight (kg)	398
Noise level (db(A))	<70
IP Code	IP44

4 Personal safety

For your own personal safety and the safety of your surroundings, it is important that you read and understand the user manual. It is the responsibility of the user to perfectly understand the manual to ensure the correct use and safe operation of the machine. If you feel uncertain as to the correct handling and use of the Contractor mini dumper, it is important that you get in contact with the seller or Twinca A/S.



Warning A faulty maintenance could be risky. Read and understand the sections before carrying out any kind of maintenance, service or repair of the machine.

- This machine is very heavy and should not be lifted without assistance. Get help and use a suitable lifting appliance.
- Keep the working area free and make sure that persons without affiliation to the working process are at a safe distance from the machine and the working area.
- The user should wear personal protective equipment when required.
- Be sure that you know how to switch off the machine before you turn it on in case you get into some kind of trouble during the operation of the machine
- Always switch off the engine before transportation or servicing/repair of the machine.
- Never modify or remove safety devices, mounted in order to ensure your personal safety. It is important that you check the correct functioning of the safety devices. If such devices are defective or missing – **DO NOT OPERATE THE CONTRACTOR MINI DUMPER** until the safety devices have been restored or repaired.
- Do not operate the machine if you are ill, feel tired or under the influence of alcohol or drugs.
- Never stand on the machine at any time.
- Do not use the Contractor mini dumper for transportation of people or animals.
- Driving downhill should always be during reversing.
- Walk carefully around the machine, as the dump bed has sharp edges.
- **Make sure that the dump bed is always in the lower position when you leave the machine!**

Personal protective equipment

When operating the machine, always wear suitable personal protective equipment such as safety goggles, safety gloves, ear plugs, dust respirator and safety footwear. Wear the personal protective equipment required for the operation to be made. Cover and protect long hair and take off all pieces of jewellery, as they may stuck in the moving parts of the machine.

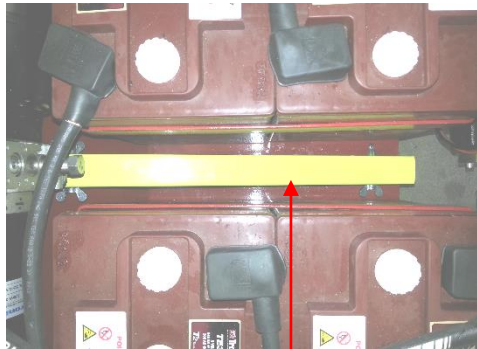
4 Personal safety

Always mount safety fittings at the front on cylinder for the dump bed before working on the engine, hydraulic devices and other kind of service of the machine.

How to position safety fittings when not in use. (fig.1, pos.1)

How to position safety fittings when in use. (fig.2, pos.1)

FIG.1



POS.1

FIG. 2



POS.1

Parking brakes

The parking brake is released automatically during operation of the machine. And is automatically activated when the machine stops.

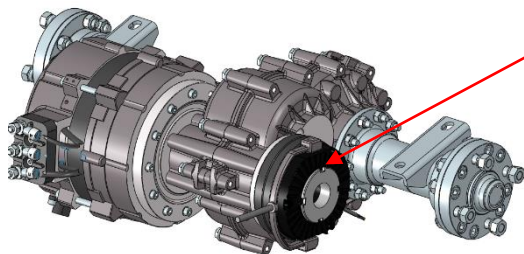


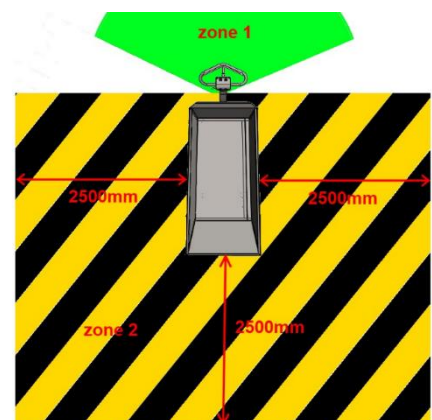
FIG.3



The user only allowed to be in zone 1.

Because of the risk of being trapped, the user must make sure that nobody is in zone 2 during operation.

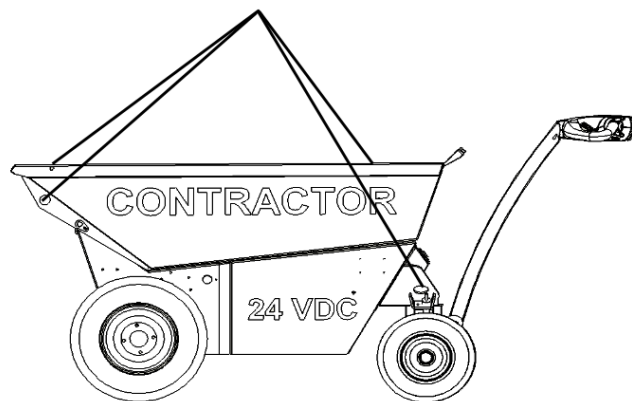
FIG.5



5 Transportation of the machine

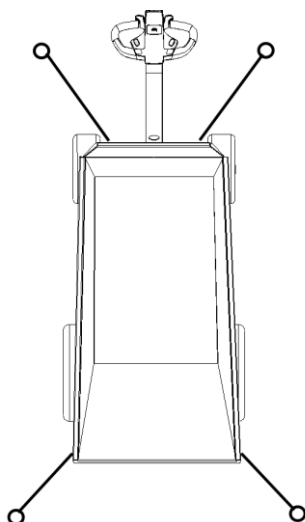
Lifting/transportation of the machine.

When lifting the machine, always mount wire or chain in all 4 hooking points. In this way, you ensure the most stable lifting.



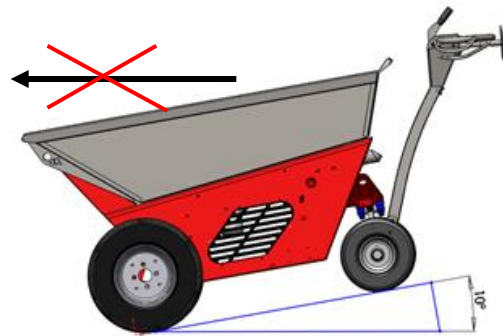
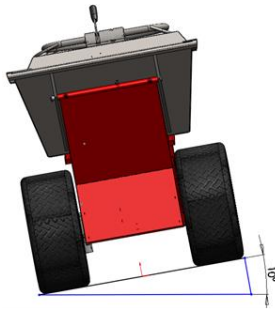
Lashing the machine

Secure the machine in each of the four hooking points during transportation,



6 Driving in terrain

Driving in a terrain with a gradient exceeding 10 degrees is not allowed, as there is a risk that the machine will tilt. Furthermore, never drive forward downhill.



7 Check before starting



Inspection before starting

The following inspection before starting describes what to be checked before starting and what to be checked after an ongoing use for four hours. We refer to the service section for a more detailed instruction. In case of any error, do not use the Contractor mini dumper until the error has been rectified.

- Check the Contractor mini dumper thoroughly to locate any sign of any faults and imperfections.
- Check that all parts are there and that they function well.
- Check the hydraulic oil level - and fill up if necessary.
- Check the acid level of the batteries. The liquid shall cover the cells. Each battery has 3 screw lids for inspection of the acid level (fig.1. pos.1)
- Check the tyre pressure.

FIG.1



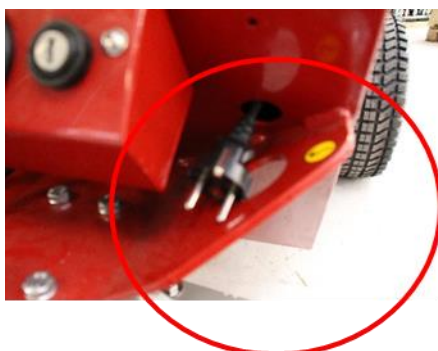
POS.1

Daily charging.

Connect 230V

The machine is inactive as long as the battery charger is active.

Charging of the machine is done by connecting the power connector to the machine



8 How to operate the machine

The machine is fully electrically powered. When you deactivate the rocker arm, the speed of the machine is reduced to a full stop in the course of 3 seconds.

In order to advance, lift the rocker arm upwards (fig.1, pos 2)(forwards)

In order to reverse, press down the rocker arm d (fig.1, pos 2)(backwards).

NOTE! The parking brake is automatically released when the machine is operated.

Activation of the dump bed.

The switch (fig.1, pos 3) controls the hydraulic cylinder.

Press the upper part of the switch and the hydraulic cylinder raises.

Press the lower part of the switch and the hydraulic cylinder descends.

Belly function

When you activate the belly function (fig.1, pos 1) the driving of the machine is changed to forward driving. Away from the driver and then it stops.

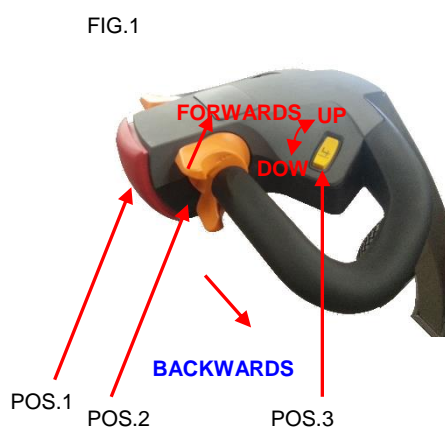
Display (fig.2, pos1)

Indication of operating hours and level of electricity of the batteries.

In case of an error on the machine, an alarm code is displayed.

Key. (fig.2, pos2)

When you turn the key, the controller of the machine is activated. Operating hours starts counting.



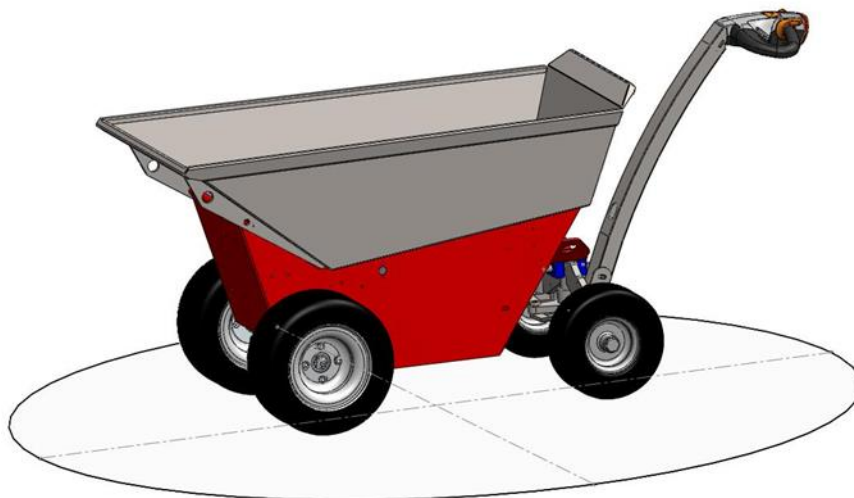
8 How to operate the machine



Warning If it is necessary to drive with a full load down a slope, sloping more than 8% - you should turn the machine and go backwards down the slope.

How to empty the dump bed

- Stop the machine before you start tipping the dump bed.
- Never lean over the machine when tipping the dump bed.
- Be sure that the contents slips off easily when the dump bed is tipped.
- Never tip the dump bed when the front of the machine is positioned with the front facing down. (as a minimum the surface must be horizontal).
- Never go in front of the machine for releasing what is stuck in the dump bed. Remove what is stuck, only when the dump bed is down.



The above figure shows that the surface on which the machine is positioned, should be at zero degrees when you tilt the dump bed.

MAKE SURE THAT NOBODY IS AT OR IN FRONT OF THE MACHINE DURING OPERATION.

9 Troubleshooting guide

Problem	Kind	Solution
Reduced capacity of the battery.	Acid missing	Change
	Battery is worn.	
The dump bed does not move normally.	Missing hydraulic oil	Fill up

10 Service and maintenance

Prior to service Always position the yellow safety fittings on the hydraulic cylinder.
 (Fig2, pos1)
 Switch off the current to the machine. (Fig 1, pos 1)

Note

Even though the main switch is off there is still plenty of energy in the batteries!

Hydraulic oil

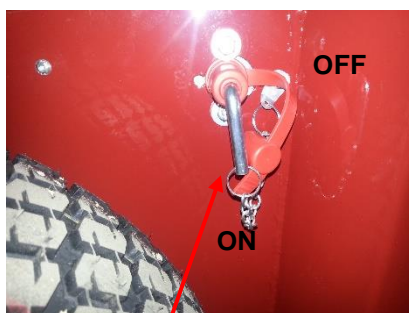
Change the hydraulic oil once a year. In case of any sign of leakage, switch off the machine and contact your local dealer or Twinca A/S.

How to clean the machine

For cleaning - use only a brush and water.

Note Never clean the engine with a high-pressure cleaner or a hose. Use only a cloth or air pressure for cleaning the engine

FIG.1



POS.1

FIG.2



POS.1

10 Service and maintenance

Routine maintenance		Daily	Every 20 hours	Every 50 hours
the hydraulic cylinder	to be made		●	
the hydraulic cylinder				
Greasing points for tilting point to the dump bec	to be made		●	
Greasing points on the steering	to be made		●	
Check acid in the batteries	to be made			●
Hydraulic oil	Change			once a year
Check tyre pressure	to be made	●		
Safety inspection	To be performed by qualified person			once a year
Gearbox oil	Change			once a year

Battery

The machine comprises 4 units 6 V batteries

Contains lead / acid.

Giving in total a voltage level of 24 V

Position the machine in a ventilated room during charging.

The battery has a cycle of 800-1000 chargings.

If the battery discharges faster than normally it means that the battery should be replaced.

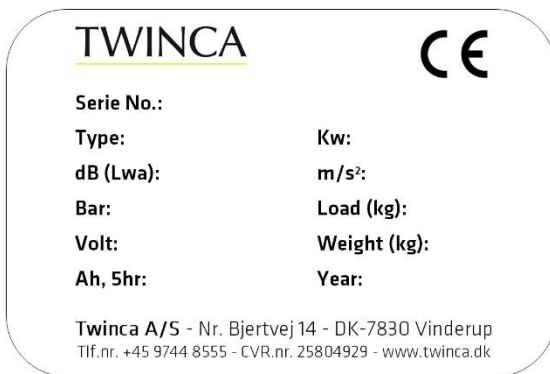
Replace all batteries at the same time.

Charging instructions:

Charge voltage level at 77°F / 25°C	
System voltage	24V
Daily charging	29.6V

11 Pictographs

Machine sign



Warning signs



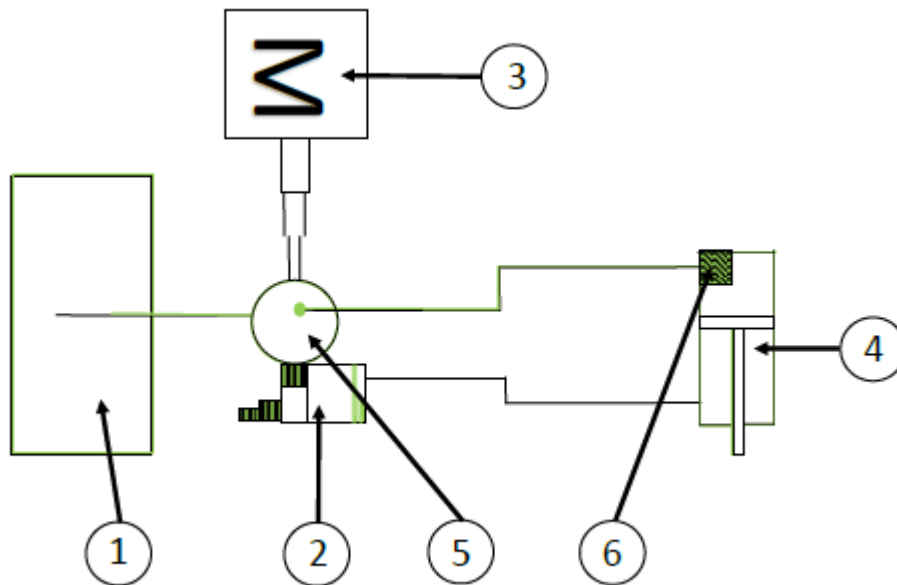
Risk of being trapped

Info signs:

Leashing point

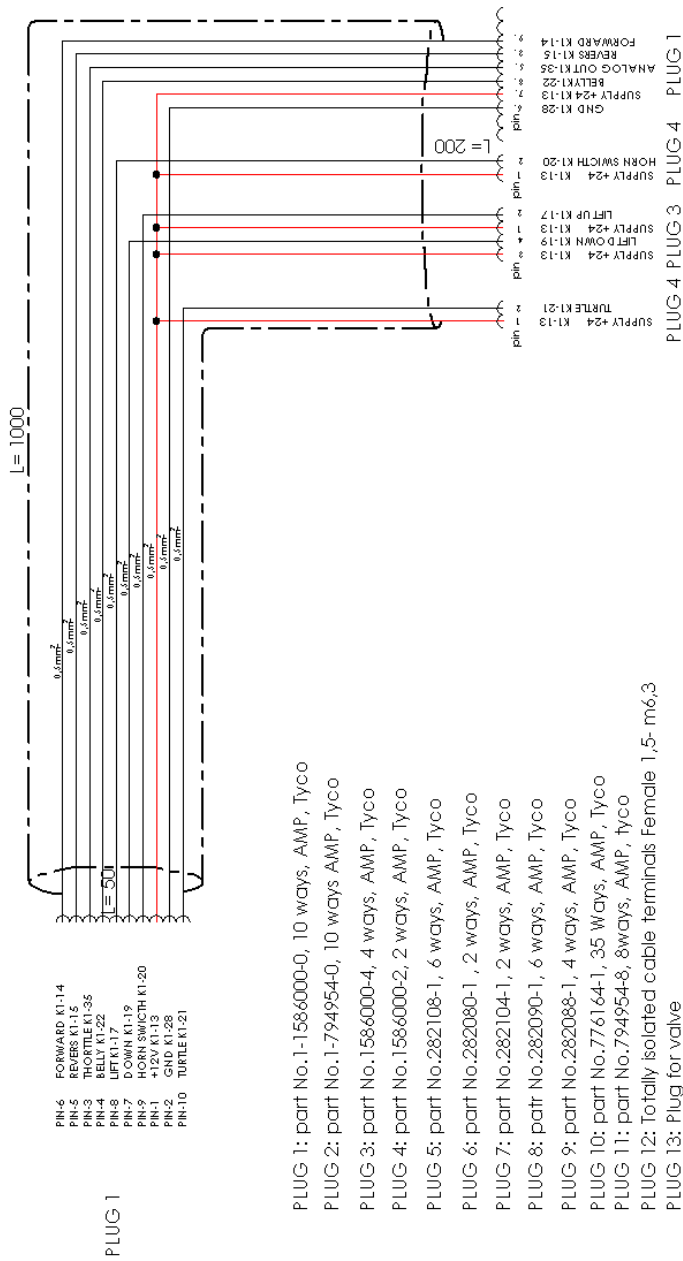


12 Hydraulic diagram



1. Oil tank
2. Valve
3. Electrical motor
4. Hydraulic cylinder
5. Hydraulic pump
6. Hose rupture valve

13 Current diagram



14 Warranty

The warranty of your new Contractor mini dumper is valid according to the sales warranty for a period of 1 year (12 months) as from the acceptance of the agreement.

The warranty of Twinca A/S includes defects as to construction, materials or installation.

The warranty of Twinca A/S does not include the following

- Any damage caused by missing maintenance, incorrect use or as a result of the maintenance instructions not being properly followed.
- Amendments, additions or repairs made by others than Twinca A/S or dealers authorized by Twinca A/S.
- Any damage caused by transportation or shipment to or from Twinca A/S or any dealer authorized by Twinca A/S in case of repair or evaluation of claim of damage within the warranty.
- Lost earnings and consequential damages
- Driving, bridge and road toll and other expenses as to transportation and persons.

The following parts are not covered by the warranty.

- Hydraulic hoses
- Key ignition

Twinca A/S and / or its authorized agents, managers, employees or insurance companies will not be responsible for consequential damage or other kinds of damage, loss or expenses relating to or due to failing capability of using the machine to any purpose.

Claim form

All warranty claims shall be passed on to Twinca A/S by telephone, e-mail or in writing.

Contact in case of claim:

Tel: +45 9744 8555 #5 E-mail: RMA@twinca.dk

Contact:

Twinca A/S
Nr. Bjertvej 14
DK-7830 Vinderup

15 A-declaration:

EU declaration of conformity. appendix II

Manufacturer:

Company name : Twinca A/S
Address : Nr.Bjertvej 14
Postal code / City : 7830 Vinderup
Country : Denmark
Telephone : +45 9744 8555
Vat.No. : 2580 4929

In charge of the technical dossier:

Managing Director : Klaus Strøm Kristensen

hereby declares, that

Machine:

Mark : Contractor 24V

Serial number : _____

Type : Mini dumper E-800

Was manufactured in accordance:

: Maskindirektivet 2006/42/EF

Title : Direktør
Name : Klaus S. Kristensen
Compagny : Twinca A/S

Vinderup 1th of januar 2016



Klaus Strøm Kristensen