ENTIRE
RECYCLING
& WASTE
MANAGEMENT

RAM-PACK 400, 500 AND 600
OPERATOR MANUAL

Entire Recycling Limited
Unit 25, Ashville Trading Estate
Ashville Way, Whetstone,
Leicester LE8 6NU

Tel: 0116 298 2864
andy@entirerecycling.co.uk
www.entirerecycling.co.uk

Contents:

1.0 Operator Sign-Off Sheet 5
2.0 Name Plate Information 6
3.0 Safety 7
3. Safety Notice 7
3. Personal protective equipment 7
3.3 Danger zone 7
3.4 Safety warnings 8
3.4 Customer responsibilities 0
4.0 Instructions for handling and assembly 10
4. Lifting 0
4. Weight .....
4.3 Transportation .....
5.0 Instructions for installation 12
5. Site requirements .....
5. Installation 3
5.3 Prepare 'Head up/Head down' and 'Bale eject' levers for operation 4
5.4 Refitting compacting rams 4
6.0 Instructions for normal operation 17
6. Threading the machine 7
6. Loading the machine with waste material 7
6.3 Baling 8
6.4 Bale size 8
6.5 Finishing and tying the bale 9
6.6 Ejecting the Bale 9
7.0 Maintenance Instructions 20
7. Daily maintenance checks 0
7. Monthly maintenance checks 0
7.3 Annual maintenance service .....
7.4 Troubleshooting .....
8.0 Noise emissions 21
9.0 End-of-Life Information 22
10.0 Technical Information 24
0. Parts list for Compact 450 4
0. Parts List for Compact 550 5
0.3 Parts List for Compact 650 6
10.4 Technical specification 7
0.5 Safety Labels 8
0.6 Electrical Circuit diagram 9
0.7 Hydraulic Circuit diagram 30
11.0 EC Declaration of Conformity 33

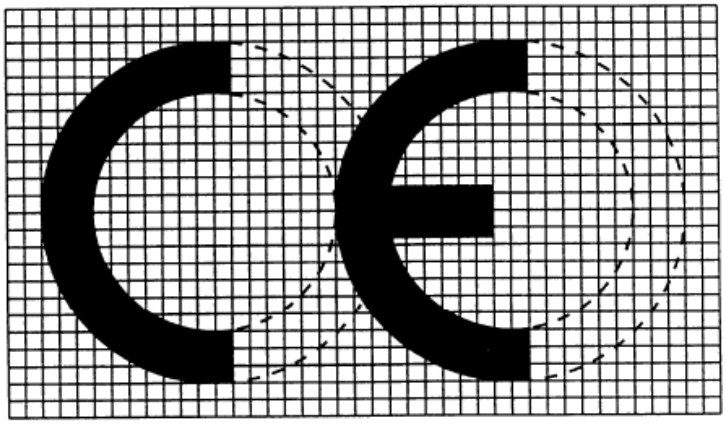
Notice

- Specifications / information in this manual may change without notice.
- Conversions from metric are approximate, as are weights.
- The manufacturer / dealer accepts no responsibility for this manual, or for the usability of the manual for special purposes.
- The manufacturer / dealer cannot be held reasonable for errors in this manual or for direct or indirect loss as a consequence of the issue, presentation, or use of this material.
- The contents of this manual shall not be photocopied, reproduced or translated, as a whole or in part, without prior permission.
- The manufacturer / dealer accepts no responsibility for any claims for compensation arising from injury to a third party as consequence of unintentional or intentional disregard of the safety stipulations stated in this manual.
- Warranty period is as stated on sales invoice. Ordinary wear and tear or breakage due to incorrect use is not covered.

1.0 Operator Sign-Off Sheet

The Following operators have read and understood this entire manual, and have paid particular attention to the Safety section.			
Forename	**Surname**	**Date**	**Signature**

2.0 Name Plate Information



Machine: Vertical Waste Baling Machine

Model: Compact 650 □ Compact 550 □ Compact 450 □ [Tic appropriate box]

Manufactured By: Mac-Fab Systems Ltd,
Carrickmacross,
Co. Monaghan,
IRELAND

Tel: +353 (0)4 966 7 93
Fax: +353 (0)4 966 7846
E-mail: sales@macfab.com
Web: www.macfab.com

Year of manufacture: _____

Agent Contact Details:

3.0 Safety

3.1 Safety Notice

Warning! 	**It is extremely important that all personnel operating the Compact 450/550/650 read and understand this manual before operating the machine.**

3.2 Personal protective equipment

The minimum personal protective equipment (PPE) required by operators using this machine is:

- Safety shoes
- Safety glasses
- Protective gloves
- Ear defenders (recommended)






Extra PPE may be required depending on the type of waste material being processed in the machine. If you have any questions about the PPE requirements for the material being processed in this machine consult with your safety officer or supervisor.

Lose clothing or jewellery should not be worn while operating this machine.

3.3 Danger zone

The diagram below shows the danger zone around the Compact 450/550/650. The danger zone for this machine extends out to m from the outer edges of the machine and completed bale.

Warning! 	During operation of the Compact 450/550/650, only the operator should stand within the danger zone. All other personnel MUST stand clear of the danger zone. While operating the machine the operator must remain standing to the side of the machine beside the control panel. While operating the Compact 450/550/650 and while in the danger zone the operator must remain alert and look out for any possible dangers to himself or others.

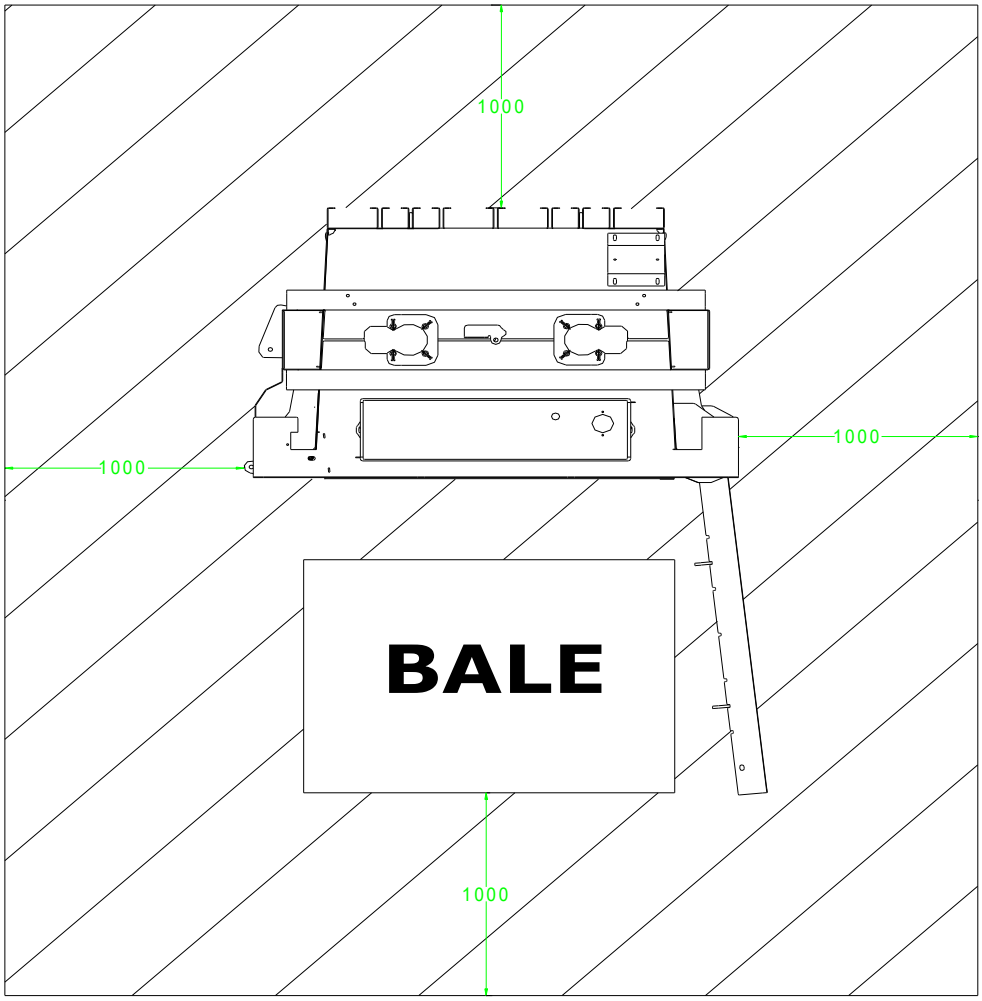


Fig . Danger zone for Compact 450/550/650

3.4 Safety warnings

Warning! 	**NEVER operate this machine if there is evidence of any of the following:** • **Damage to electrical cables or electrical components of the machine** • **Damage to hydraulic hoses** • **Oil leaks** • **Loose, damaged or missing parts** • **The machine is unstable or not mounted on a firm level surface** • **The correct electrical plugs and sockets are not present** **If any of the above, or any other problems occur, take the machine out of service immediately. Report the problem to your supervisor. If further assistance is required contact the selling agent to arrange a repair.**

Warning! 	**Before operating the machine ALWAYS check that there are no personnel, children or animals in the bale chamber.** **When not in use lock the doors of the baler.**

Warning! 	**The following items must NOT be baled using this machine:** • **Complete bales of newspaper and cardboard** • **Cardboard cores (e.g. core inside of roll of carpet)** • **Glass** • **Aerosol cans** • **Metal** • **Wood** • **Solid items of any type** **Attempting to bale any of these materials may lead to injury and/or damage to the machine.**

Warning! 	**Before commencing the bale cycle check that bale chamber is evenly loaded. Actions otherwise may cause damage to the machine (distortion of the cylinder rod and compaction plate). This damage is NOT covered by warranty!**

Caution! 	**Exercise caution when opening and closing the machine doors. Open and close doors slowly so to prevent injury form impact or crushing.**

Caution! 	**Exercise caution when loading waste material into the machine. Only lift a comfortable amount of material and use safe manual handling techniques.**

Caution! 	**Exercise extreme caution when ejecting a bale from the machine. Ensure no persons are in the path of the ejecting bale.**

3.4 Customer responsibilities

When installing, operating and maintaining the Compact 450/550/650, the customer is responsible for:

- Ensuring that the installation of the plug and socket on the electrical power supply is carried out in accordance with EN/ISO or country of installation electrical standards.
- Ensuring that all operating personnel have read the Operator Manual and understood all aspects of safety and operational procedures.
- Ensuring that the operators have access to the Operator Manual (or copy) at all times.
- Ensuring that electrical cable from the machine to the plug and socket is located in a safe position; is not stretched and does not pose any hazard to operators.
- Ensuring that the baler is plugged directly into the mains supply, without the use of extension leads. (The use of extension leads may lead to increased supply current and cause plug top fuse to blow/MCB to trip.)

4.0 Instructions for handling and assembly

4.1 Lifting

The Compact 450/550/650 machines are designed to be lifted using a fork-lift truck or pallet truck. Each of these machines features channels along their base to receive the forks of a fork-lift or pallet truck. These channels ensure the forks are in the correct position and prevent the machine sliding during the lifting operation. Do not attempt to lift this machine if the forks of the fork-lift or pallet truck are not in the correct position.

Lifting of the Compact 450/550/650 must only be carried out by a fork-lift truck or pallet truck rated for 500Kg (.5 Tonnes). Fork-lift trucks should be operated by a trained forklift driver. See section 4. for weights of machines.

Warning! 	**To reduce the risk of toppling, the baler ram must be fully extended and both doors must be closed with the clamps fastened before lifting.**



Warning!	**Lifting of the Compact 450/550/650 must not be attempted by any other means other means other than the method outlined in this manual**

4.2 Weight

The weights of the Compact 450/550/650 are listed in the table below;

Model	Weight
Compact 450	300 Kg
Compact 550	650 Kg
Compact 650	930 Kg

4.3 Transportation

Instructions for transportation of Compact 450/550/650 are outlined below:



. Lift the baler using the method outlined above.



. Carefully raise the baler and position on lorry. Position the baler centrally on the lorry.



3. Use 4 tightening straps, one hooked to the securing point at each of the top corners of the baler, to firmly secure the baler to the lorry.

Unloading: Lifting procedure (above) must be followed when unloading.

5.0 Instructions for installation

5.1 Site requirements

The following requirements must be considered when choosing a location for your Compact 450/550/650;

- A solid level floor surface is required for the machine. The floor must be capable of supporting the weight of the machine as well as forklifts and operators working in the general area.
- Ample room around the machine is required to facilitate loading, threading, inspection, maintenance and removal of bales is required.
- The proximity of a three phase electrical supply to power the machine.
- Lighting at the location of the machine must be accordance with local health and safety legislation requirements for a workplace.
- Adequate ventilation should be provided in the location of the machine.

While the Compact 450/550/650 machines are suitable for outdoor operation, it is recommended that the machine is located indoors or in a covered area. Doing so will increase the working life of the machine.

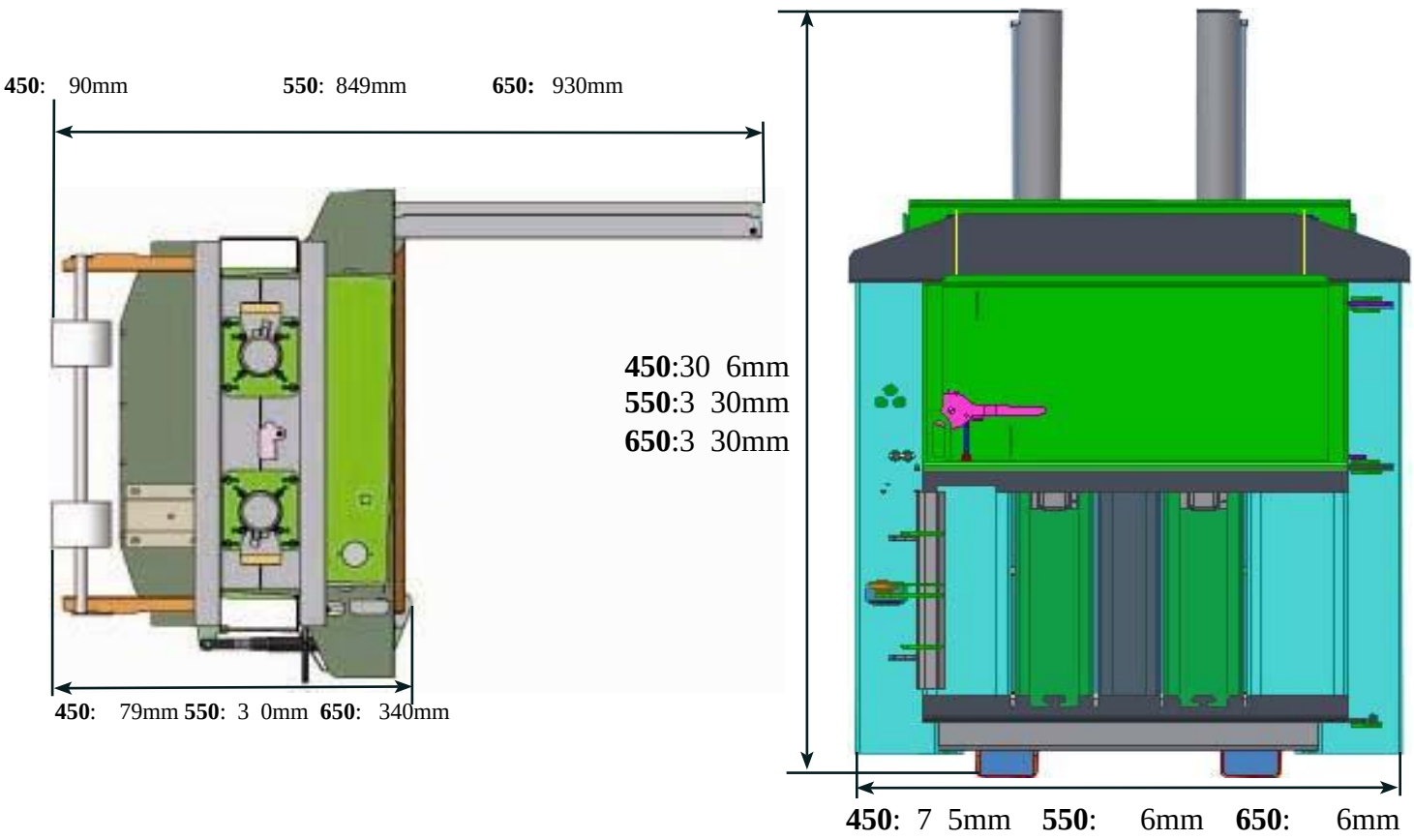


Fig . Dimensions of Compact 450/650

It is recommended that the Compact 650/Compact 550/Compact 450 is located in a corner, with a wall to one side and along the back, to protect the machine as much as possible away from vehicle/forklift traffic. If it is not possible, it is recommended that some form of protective barrier (e.g. metal barrier) is placed to the back and sides of the machine to reduce the risk of impact from forklifts or other vehicle traffic.

5.2 Installation

When a location for the Compact 450/550/650 has been selected, the machine must be carefully lifted into position following the instructions in section 4. Once in position the machine must be levelled from front to back and from side to side. It is essential that the machine is level and does not rock due to imperfections in the floor surface. Shim material may be required to achieve this.

The Compact 450/550/650 requires a three phase 400V electrical supply. It should be connected to this power supply using a plug and socket. If the machine is to be located outdoors a suitable waterproof plug and socket should be used. **It is the responsibility of the purchaser to comply with local electrical standards when providing an electrical power supply to the Compact 450/550/650.**

Warning! 	**Electrical installation must only be carried out by a qualified electrician.**

5.3 Prepare ‘Head up/Head down’ and ‘Bale eject’ levers for operation

During transport the ‘Head up/Head down’ and ‘Bale eject’ levers are screwed into the lever base in the vertical position. Before operating the baler these levers must be unscrewed from the vertical position and re-screwed into the lever base in the horizontal position.



. ‘Head up/Head down’ and ‘Bale eject’ levers are screwed into the lever base in the vertical position for transport.



. Unscrew each lever from the vertical position.



3. Screw each lever into the lever base in the horizontal position.



4. Use a spanner to tighten the retaining nut; this will fix the levers in position. Once this nut has been tightened the ‘Head up/Head down’ and ‘Bale eject’ levers are now ready for operation.

5.4 Refitting Baler rams

For transportation purposes the main compacting rams of the Compact 450/550/650 can be unbolted from the frame and lowered into the bale chamber to reduce the overall height of the machine. If your Compact 450/550/650 is delivered in this state, the following procedure must be followed to correctly reassemble the machine and prepare it for operation.

. Check the oil level. Compacts 450/550/650's are often delivered without hydraulic oil. Check the oil level on the level gauge, if empty add oil, the fill requirement for the Compact 450, 550 and 650 are detailed in the table below:



The photograph shows a Compact 650 with the compacting rams unbolted and lowered into the bale chamber for transportation.

Model	Oil Required
Compact 450	55 Litres
Compact 550	55 Litres
Compact 650	55 Litres

Oil being added to the tank of a Compact 650



. Plug in the Compact 450/550/650 to the electrical power supply. Close the bottom and top doors and turn on the machine by pressing the green button. Now check the rotational direction of the motor. If the direction of rotation is not as indicated by the arrow on the motor cover, stop the machine immediately. Arrange to have a qualified electrician swap one of the two of the phases in the plug top. If the direction of rotation of the motor is correct proceed to step 3.

3. Turn on the baler by pressing the green button, next put the compaction lever into the 'Down' position. This will cause the compaction rams to rise up in the bale chamber and out through the top of the machine. Stop the machine, by pressing the red stop button, after the compaction rams have raised up approximately half their height. Open the doors and check that the hydraulic hoses of the compaction rams are not caught in the frame of the machine. If necessary twist and free hoses to ensure they do not get caught or damaged as the compactor rams are raised into position.

From the top of the machine check that the hydraulic hoses are not caught.



4. Close both doors and switch the machine on again and allow the Compaction rams to rise a further 00mm approximately. Again stop the machine, open the doors and check the hydraulic hoses, if necessary twist and free the hoses. Repeat this process, raising the rams approximately 00mm then inspecting the hydraulic hoses until the rams have reached the end of their stroke and are in place against the frame of the machine.

5. Turn off the machine by pressing the red stop button and plug out from the power supply. The machine is now safe to work on. Open the top and bottom door of the compactor to access the rams inside. Locate a white bag containing the required bolts form inside the baler. Use a poger tool or other tool to line up the holes in the ram flange with the holes in the baler frame. Using a torque wrench, tighten all 8 bolts to 140 Nm.



Line up the holes in the ram flange with the holes in the baler frame using a Poger tool or other tool.



'Hand tighten' all 8 bolts into place.



Using a torque wrench, tighten all 8 bolts in place

Plunger carrying brackets (one on each side of the bale chamber). Remove once rams are bolted in place.

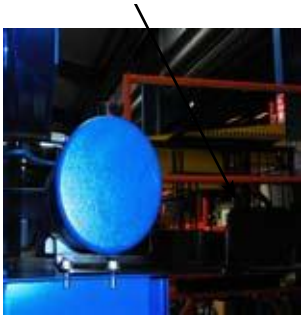


5.5 Fitting reel carriers

Inside the bale chamber there is a bag containing the reel carries. The reel carriers come in three parts, two end brackets and a pipe section. Each of the end brackets should be bolted to the rear top corner of the baler using the predrilled holes. The pipe section should then be slotted between the end brackets to complete the reel carrier.



Reel carrier end brackets should be blotted to each side of the baler





Finally the ‘pipe’ section of the reel carrier can be fitted in place.

The Compact 450/550/650 is now completed and ready for installation. Refer to section 5 of the operator manual for instructions on installing this machine.

Warning!



It is extremely important that all personnel operating the Compact 450/550/650 read and understand the operator manual before operating the machine.

6.0 Instructions for normal operation

6.1 Threading the machine

Before loading with waste material, the machine must be threaded with banding or tie wire. This banding/tie wire is used to tie the complete bale. The procedure for threading the bale is outlined as follows:

1. Check that the compaction plate is in the fully raised position.
2. Turn the power unit off.
3. Open top door fully.
4. Pass banding/ tie wire through slots in the top and back of the machine into the chamber.
5. Pull tie wire through the chamber and pass through slots in the bottom door and secure.
6. Close the bottom door of the machine.

The machine is now threaded and ready for loading with waste material.

6.2 Loading the machine with waste material

After threading with banding/tie wire the machine is now ready for loading. With the bottom door of the machine closed, begin loading the waste material into the bale chamber.

When starting a new bale, place one large piece of cardboard (or other material to be baled), in the bottom of the chamber. This will catch all wires/bands and ensure a solid base for the bale.

Ensure that the waste material is loaded evenly into the machine. Once full the waste material may be baled.

Caution!	
	**Exercise caution when opening and closing the machine doors. Open and close doors slowly so to prevent injury form impact or crushing.**

Caution!	
	**Exercise caution when loading waste material into the machine. Only lift a comfortable amount of material and use safe manual handling techniques.**

6.3 Baling

The compressive force of hydraulic rams is used to compact the waste material. Once compressed the material is tied into a compact bale. The procedure for baling is outlined as follows:

1. Once the bale chamber is full, close the top door of the machine.
2. To begin compaction select compact mode on the control panel, then press the green start button and move the 'compact' lever to the down position. The machine will commence its compaction cycle and stop automatically when complete. (The compaction plate can be left in this position until filling the machine again.)
3. To return the compaction plate to upper position, press green start button and place 'compact' lever in up position. As in the compaction cycle the machine will stop automatically when the compaction plate is in the fully raised position.
4. The machine can be stopped at any time by pressing the red stop button on the control panel.
5. Repeat this process of filling and compacting material until the desired bale size is reached.

Useful Tip	
	It is recommended that material being baled is placed in the chamber and compacted as generated. This speeds up the baling process and prevents large amounts having to be baled at the end of the day. When compaction stroke is completed, it is suggested to leave the compaction plate in the down position until ready to fill the chamber again. This helps flatten material being baled.

6.4 Bale size

The machine determines bale width and depth, but bale height can vary and is decided by the operator. It is recommended to finish a bale when the compaction plate stops at the bale level slot during the compaction stroke.

6.5 Finishing and tying the bale

The following procedure outlines the steps involved in finishing and tying the bale:

1. Raise the compaction plate to the upper position. Open the top door of the machine. It is important that the top of the bale is covered by a wide enough piece of the material to catch all tie wires/banding and keep the bale solid.
2. With the machine turned off, pull wire/banding through back slots, over the top of the bale and out the front of the machine.
3. Pass these wires/banding through the hole in the top edge of the bottom door and out through the slots.
4. Close top door and start compaction of machine.
5. Stop the machine when the head is in the down position, switch off the machine by pressing the red stop button, for safety reasons the compaction lever must be left in the down position. The compaction head must REMAIN DOWN when tying the bale.
6. Pull the top and bottom corresponding wires/banding to take up any slack.
7. Knot the corresponding top and bottom tie wires/banding to secure the bale, (place the knots as close to the bale as possible).

6.6 Ejecting the Bale

The following procedure outlines the steps involved in ejecting the bale:

Warning! 	**The operator must stand to the side of the machine (beside the control panel) at all times during the ejection cycle. No other personnel may be near the baler while ejecting a bale.**

1. With the bale tied as described, close top door and return compaction plate to upper position.
2. Next open both the top and bottom doors. The control system of the machine will not allow the bale to eject unless the following conditions are met:
   (a) The top door is fully opened and in contact with safety switch,
   (b) The bottom door is fully opened and in contact with safety switch,
   (c) The compaction plate is in the up position and in contact with safety switch.
3. The operator must stand to the side of the machine (at the control panel) all other personnel must leave the area.
4. Place pallet in front of machine, then turn selector switch to eject mode, press green ejector start button and pull eject lever simultaneously. If either of these is released ejection will stop immediately.
5. Once bale has been ejected, return ejector plate to home position.
6. Close both doors, return selector switch to compact mode and repeat threading instructions.

The bale is now complete and is ready for transportation.

Warning! 	**Bales can weigh up to 500kg. Do not attempt to lift a bale by hand.**

7.0 Maintenance Instructions

Warning! 	**The machine MUST be disconnected from its power supply (unplugged) before carrying out any maintenance or adjustment.**

Warning! 	**Electrical work MUST only be carried out by a qualified electrician or electrical engineer.**

7.1 Daily maintenance checks

To be carried out by machine operator. Before commencing operation of the machine carry out the following maintenance checks:

1. **General Inspection:** Inspect the machine for signs of excessive ware and tare. Do this by walking around the machine inspecting all sides, also open the doors and inspect inside the bale chamber. If any parts of the machine are found to be loose, damaged or missing, do not commence operation of the machine. Unplug the machine and report the fault to your supervisor and maintenance manager. If further assistance is required contact the selling agent of whom you purchased the machine.
2. **Oil leak Inspection:** If your general inspection uncovers evidence of an oil leak, do not commence operation of the machine. Unplug the machine and report the leak to your supervisor and maintenance manager. Trace the leak to establish its origin. If the leak is coming from a hydraulic fitting that has come loose, tighten the fitting using the appropriate spanner. If the leak is coming from a damaged hydraulic component, contact the selling agent of whom you purchased the machine for further assistance.
3. **Keep the machine clean:** Before commencing operation remove any debris from inside and around the machine.

7.2 Monthly maintenance checks

To be carried out by a maintenance technician. The following checks and maintenance should be carried out by a maintenance technician on a monthly basis:

1. Check the level of hydraulic oil in the tank on top of the machine. If the oil level is not in the mid to upper range on the gauge, add oil to the tank until this level is achieved.
2. Inspect the door hinges. Apply lubricating grease to the hinges if required.
3. Using the appropriate spanners and other tools check that the nuts and bolts between the compaction plate and hydraulic rams are tight.
4. Check that the top and bottom doors are making good contact with their respective safety valves and switches. If necessary make adjustments to bolts.
5. Inspect electrical cables and hydraulic hoses for signs of damage or wear and tear. If evidence of damage is found replace the cable/hose. Contact your selling agent or Mac-Fab directly for spare parts.

7.3 Annual maintenance service

It is recommended that a full service be carried out by your selling agent once a year. This service will consist of a thorough inspection of all parts of the machine and changing the hydraulic oil. (See technical specifications for details of the grade and quantity of oil required.)

7.4 Troubleshooting

Fault	Possible Cause
The machine will not operate (will not power up when switched on).	. The machine may not be plugged in. . A fuse in the plug (where applicable) may be blown. 3. An MCB at the socket or at the building power distribution board may be tripped.
The machine operates with slow movement of the head and has reduced compacting power.	. Low hydraulic oil level 2. Clogged oil hydraulic oil filter 3. Leak in hydraulic system
The finished bale is lob sided (taller on one side than the other).	. All the slack may not have been taken out of all tying wire/banding before knotting. . The knot in one or more of the tying weirs/bands may have opened. 3. The waste material may not have been fed into the bale chamber evenly.

8.0 Noise emissions

The table below shows the level of noise emissions for each of the machine covered by this manual:

Model	Air borne noise emissions level
Compact 450	75 dB
Compact 550	75 dB
Compact 650	74 dB

These noise levels have been established by carrying out tests on identical machines. Measurements were taken from the surface of the machine, on all sides, the maximum sound level recorded is listed in the table above.

(Note: Although these machine operate with in the current noise emission level, it is recommended that Ear protection is used when operating these machines)

9.0 End-of-Life Information

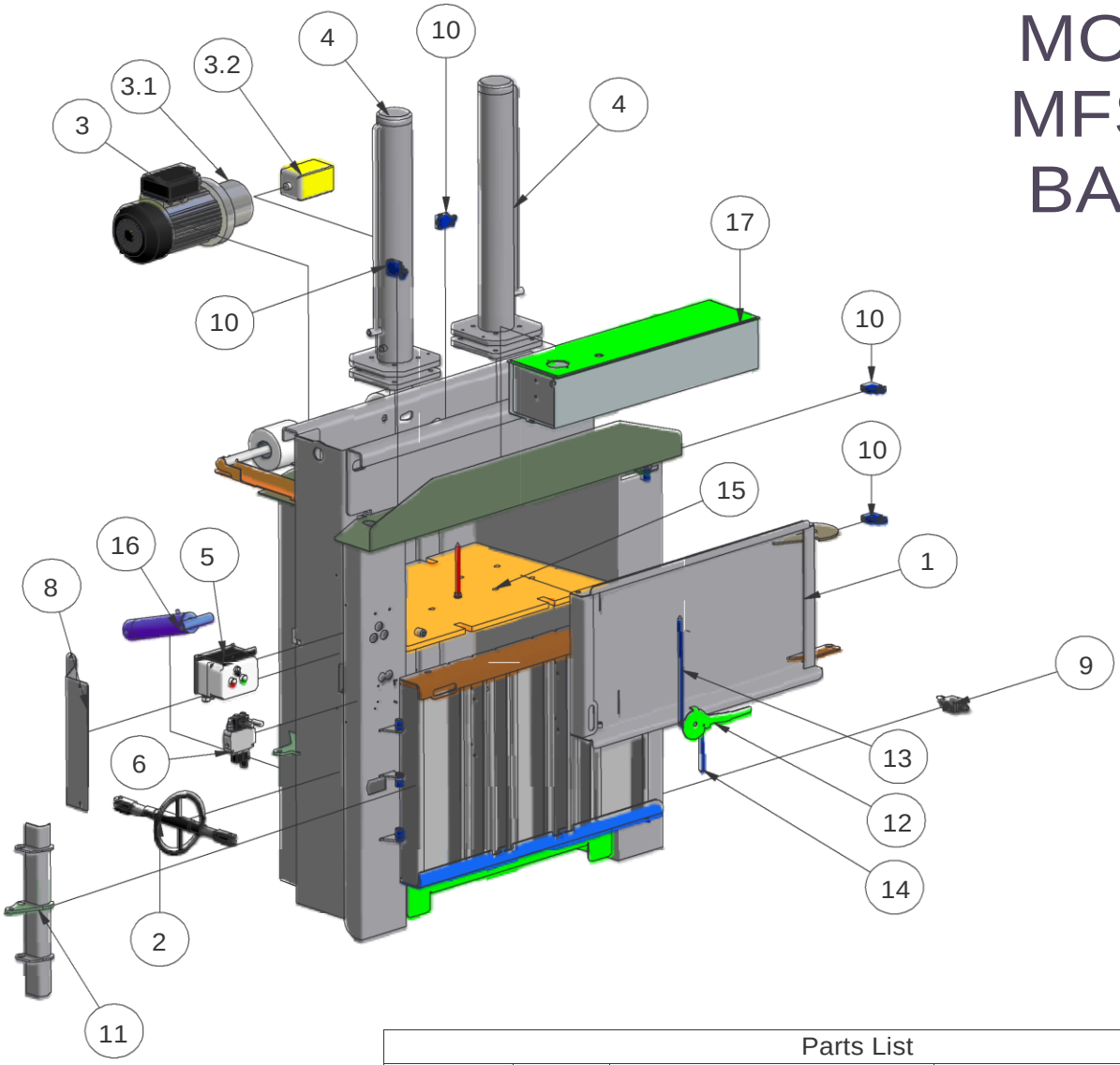
The Compact 450/550/650 is primarily constructed of steel. Other standard engineering materials used in the construction of the Compact 450/550/650 include: copper wire, electrical switches, rubber, nylon and hydraulic oil.

When the Compact 450/550/650 has reached its end-of-life, the following guidelines should be followed for safe and environmentally friendly disposal:

1. Drain the hydraulic oil from the machine. Collect this oil in a container and bring to your local recycling centre for disposal.
2. Dissemble the machine and sort components by material.
3. Steel components have a scrap value and can be sold to scrap merchants. Alternatively, steel components can be disposed of at your local recycling centre.
4. All Copper wire, electrical components, rubber and nylon should be brought to your local recycling centre for disposal.

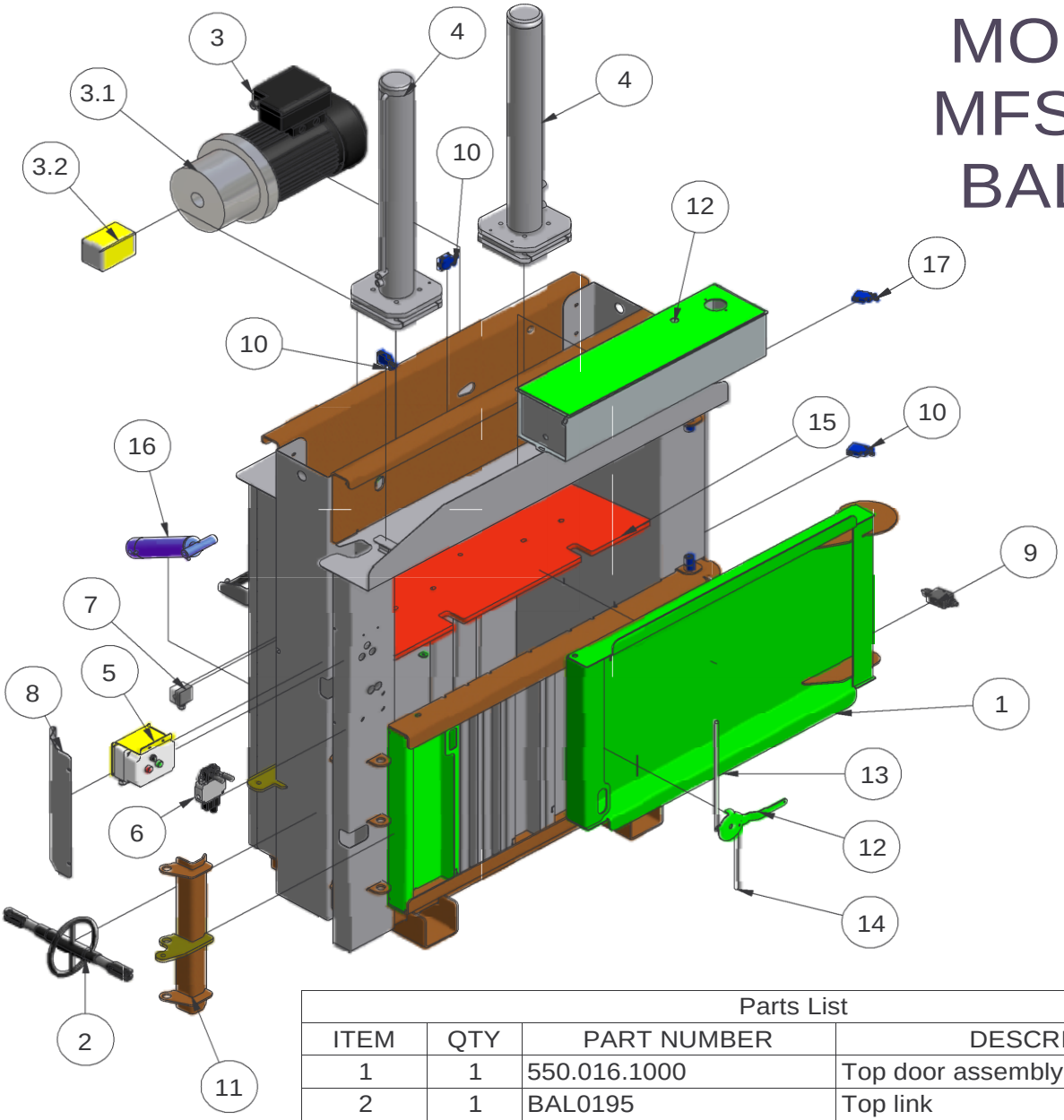
10.0 Technical Information

MODEL MFS450 BALER



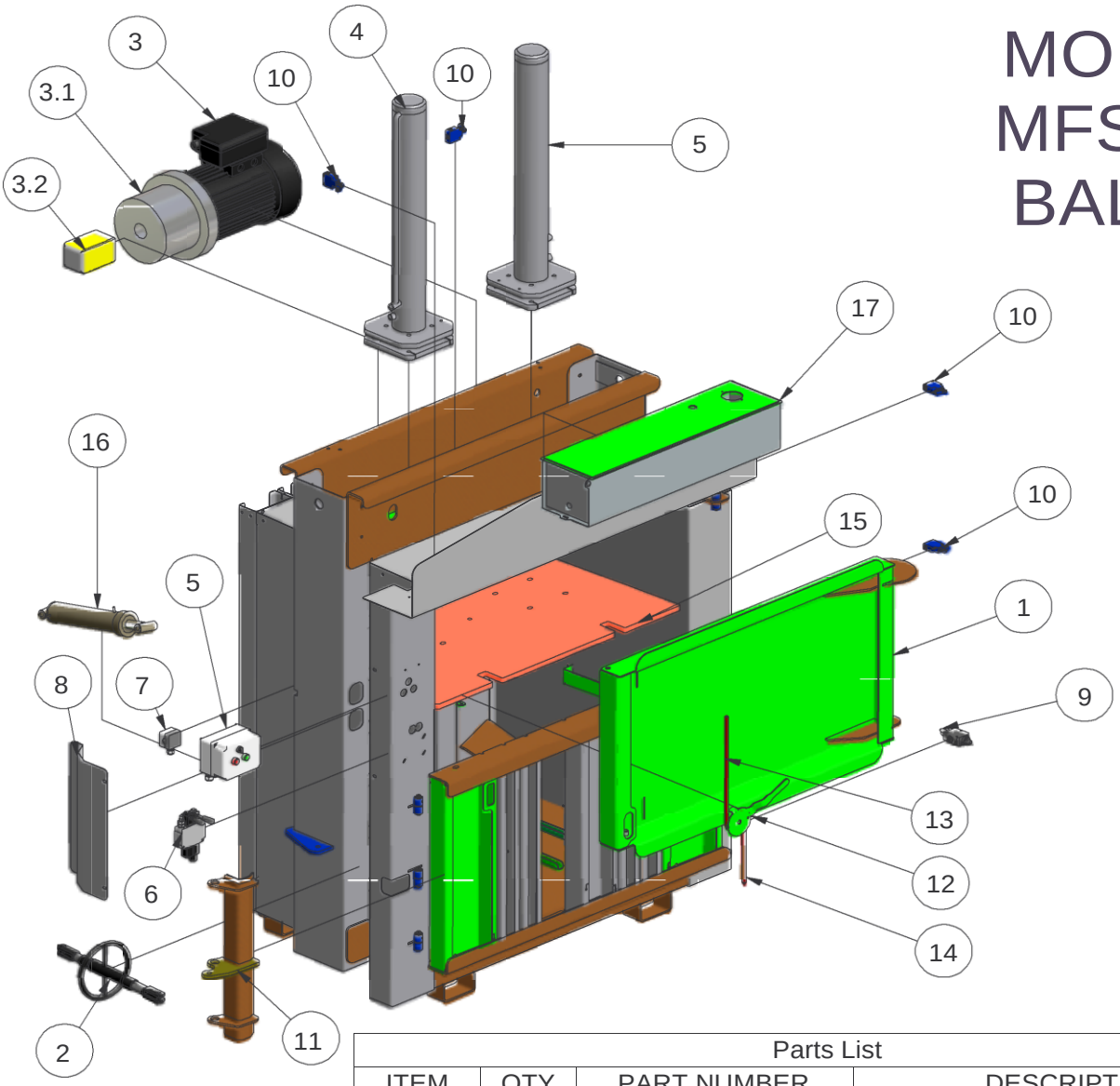
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	425.006.1005	Top door assembly
2	1	BAL0195	Top link
3	1	ELE0055	Motor
3.1	1	BAL0198	Bell housing and coupling
3.2	1	HYD0439	Pump
4	2	BAL0077	Compaction cylinder
5	1	ELE0137	Start stop panel
6	1	BAL0115	Lever valve
7	1	XALD01	Ejector button
8	1	425.001.1010	Side guard
9	1	BAL0069	Door valve
10	4	ELE0052	Limit switch
11	1	425.000.1000	Door closer assembly
12	1	450.016.1004	Top door handle
13	1	425.006.1003	Top door top bar
14	1	425.006.1004	Top door bottom bar
15	1	425.004.1000	Compaction plate
16	1	GEN0430	Hydraulic ejector cylinder
17	1	425.001.1005	Hydraulic tank

MODEL MFS 550 BALER



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	550.016.1000	Top door assembly
2	1	BAL0195	Top link
3	1	ELE0055	Motor
3.1	1	HYD0439	Bell housing and coupling
3.2	1	BAL0198	Pump
4	2	BAL0077	Hydraulic compaction cylinder
5	1	ELE0137	Start stop panel
6	1	BAL0115	Lever valve
7	1	XALD01	Ejector button
8	1	550.011.1057	Side guard
9	1	ELE0069	Door valve
10	3	ELE0052	Limit switch
11	1	550.015.1000	Door closer assembly
12	1	550.016.1007	Top door handle
13	1	550.016.1005	Top door top bar
14	1	550.016.1006	Top door bottom bar
15	1	550.014.1000	Compaction plate
16	1	GEN0430	Hydraulic ejector cylinder
17	1	425.004.1000	Hydraulic tank

MODEL MFS650 BALER

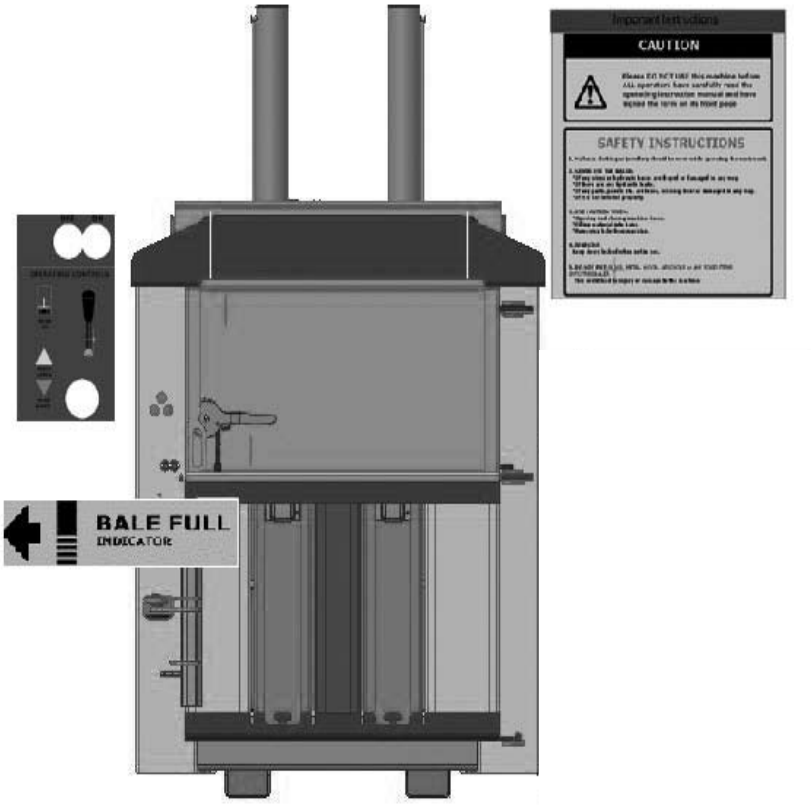


Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	650.006.1000	Top door assembly
2	1	BAL0165	Top link
3	1	ELE0055	Motor
3.1	1	HYD0439	Bell housing and coupling
3.2	1	BAL0198	Pump
4	2	BAL0077	Hydraulic compaction cylinder
5	1	ELE0137	Start stop panel
6	1	BAL0115	Lever valve
7	1	XALD01	Ejector button
8	1	650.001.1058	Side guard
9	1	BAL0069	Door valve
10	4	ELE0052	Limit switch
11	1	650.015.1000	Door closer assembly
12	1	999.006.1007	Top door handle
13	1	650.006.1003	Top door top bar
14	1	650.006.1004	Top door bottom bar
15	1	650.004.1000	Compaction plate
16	1	BAL0079	Hydraulic ejector cylinder
17	1	450.001.1005	Hydraulic tank

10.4 Technical specifications

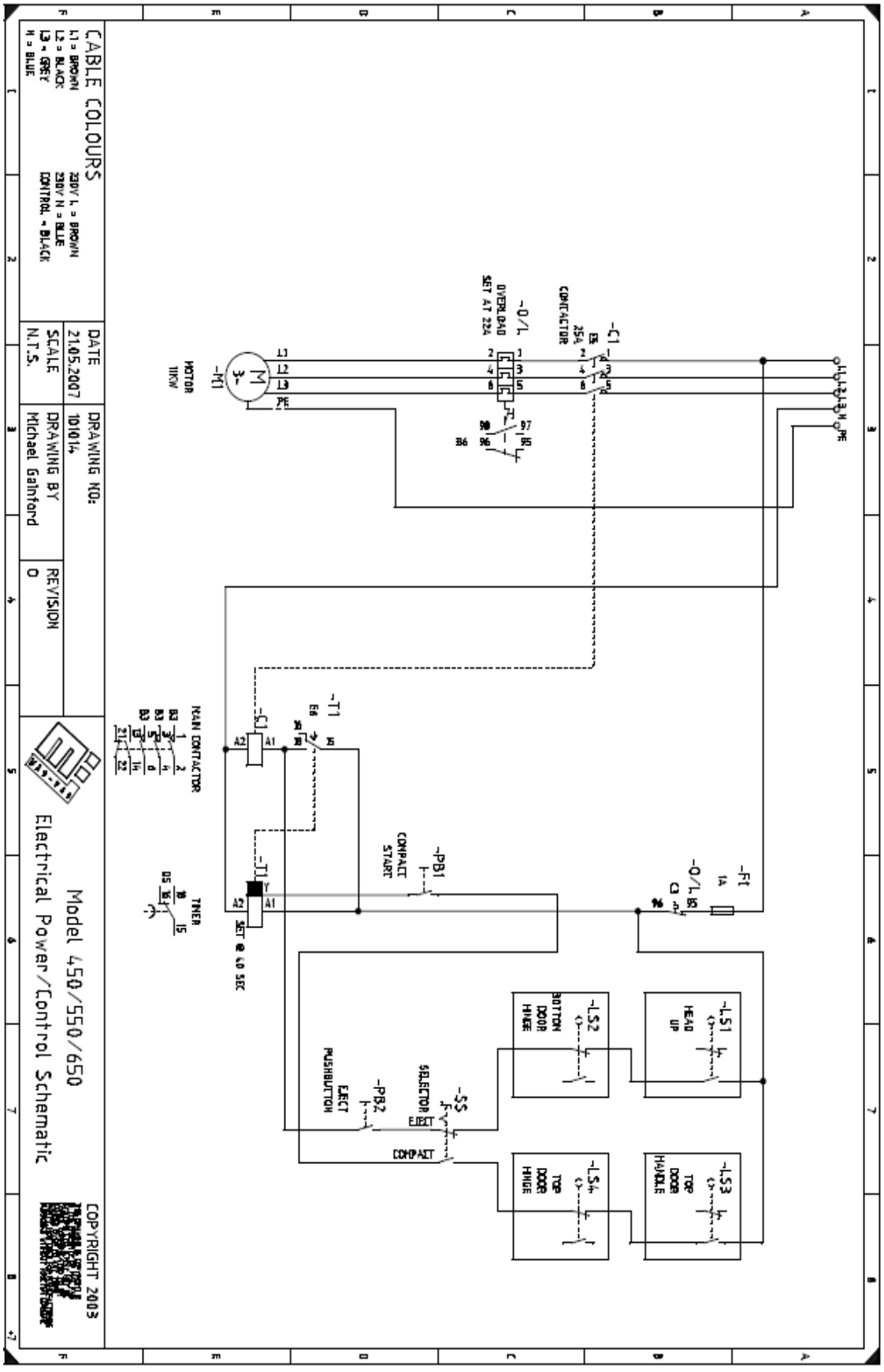
	COMPACT 450	**COMPACT 550**	**COMPACT 650**
Baler Dimensions:			
Height	30 6mm	3 30mm	3 30mm
Width	730mm	6mm	6mm
Depth	79mm	3 0mm	340mm
Weight	300kg	650kg	640kg
Power Supply	400V Three phase	400V Three phase	400V Three phase
Motor	Kw motor	Kw motor	Kw motor
Pressing Force	Up to 5 Tonnes	Up to 50 Tonnes	Up to 50 Tonnes
Noise Level	Certified at 74 d (B) A	Certified at 74 d (B) A	Certified at 74 d (B) A
Loading Aperture Sizes:			
Height	660mm	870mm	870mm
Width	00mm	500mm	500mm
Bale Dimensions:			
Width	00mm	500mm	500mm
Depth	800mm	760mm	00mm
Height	000mm	00mm	00mm
Bale Weight	450kgs (depending on material)	550kgs (depending on material)	650kgs(depending on material)
Cycle Time	40 sec	40 sec	40 sec
Hydraulic Oil Requirement	55 litres of mobile DTE 4 or equivalent	55 litres of mobile DTE 4 or equivalent	55 litres of mobile DTE 4 or equivalent

10.5 Safety Labels

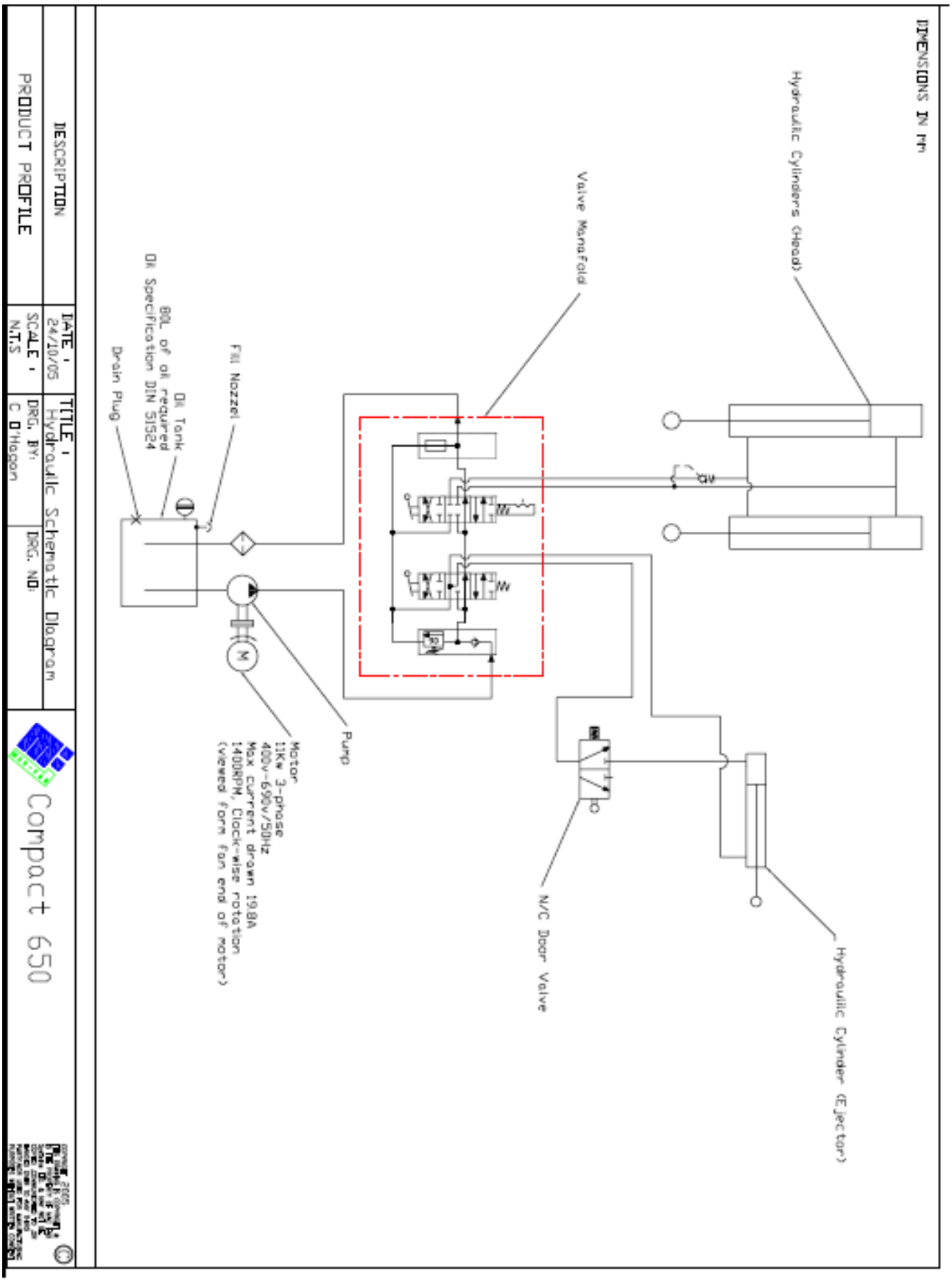


Decal No	Description	Ref no
	Operating controls	BAL 0036
	Important instructions	BAL 0039
3	Bale full	BAL 0064

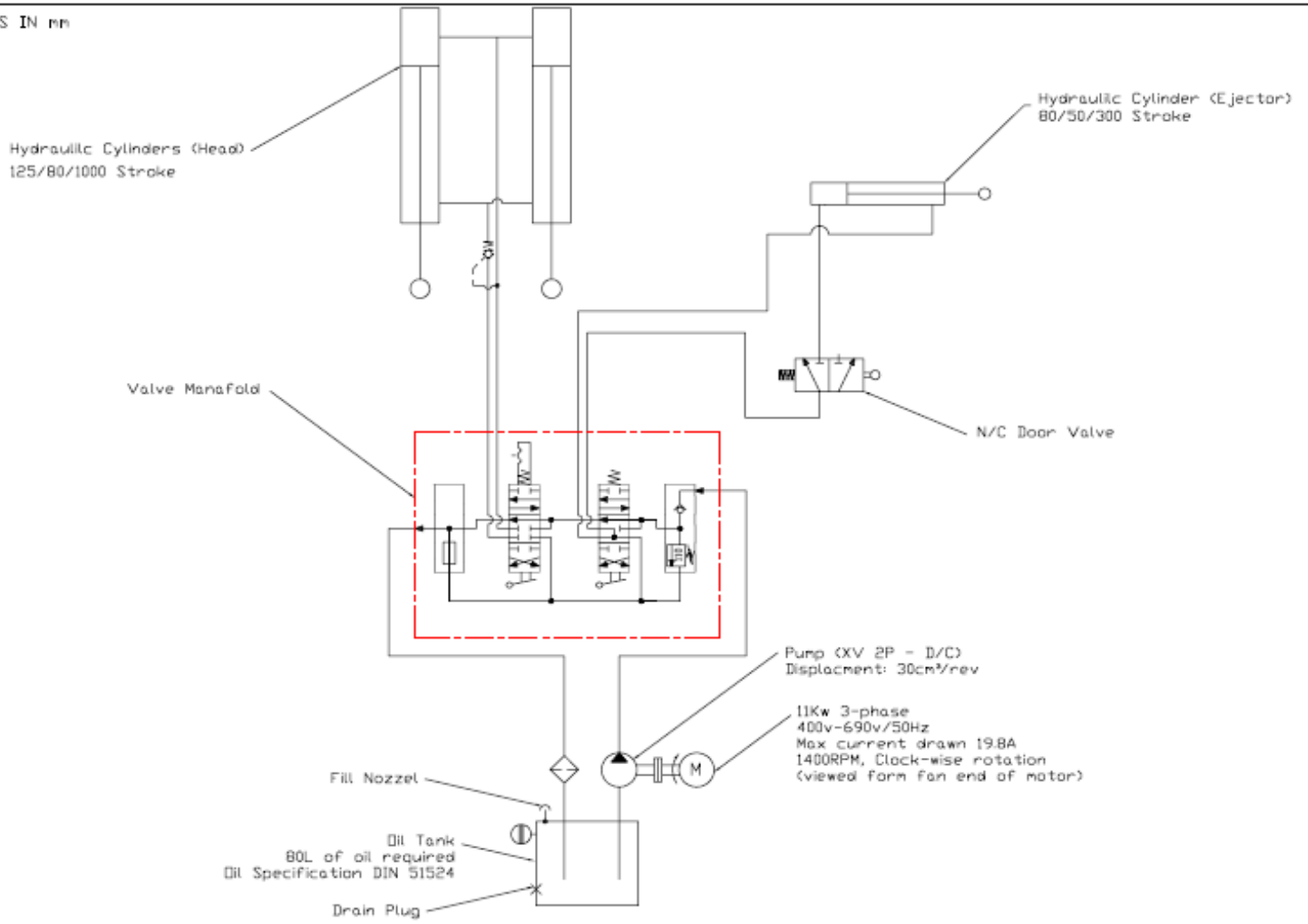
10.6 Electrical Circuit diagram



10.7 Hydraulic Circuit diagram



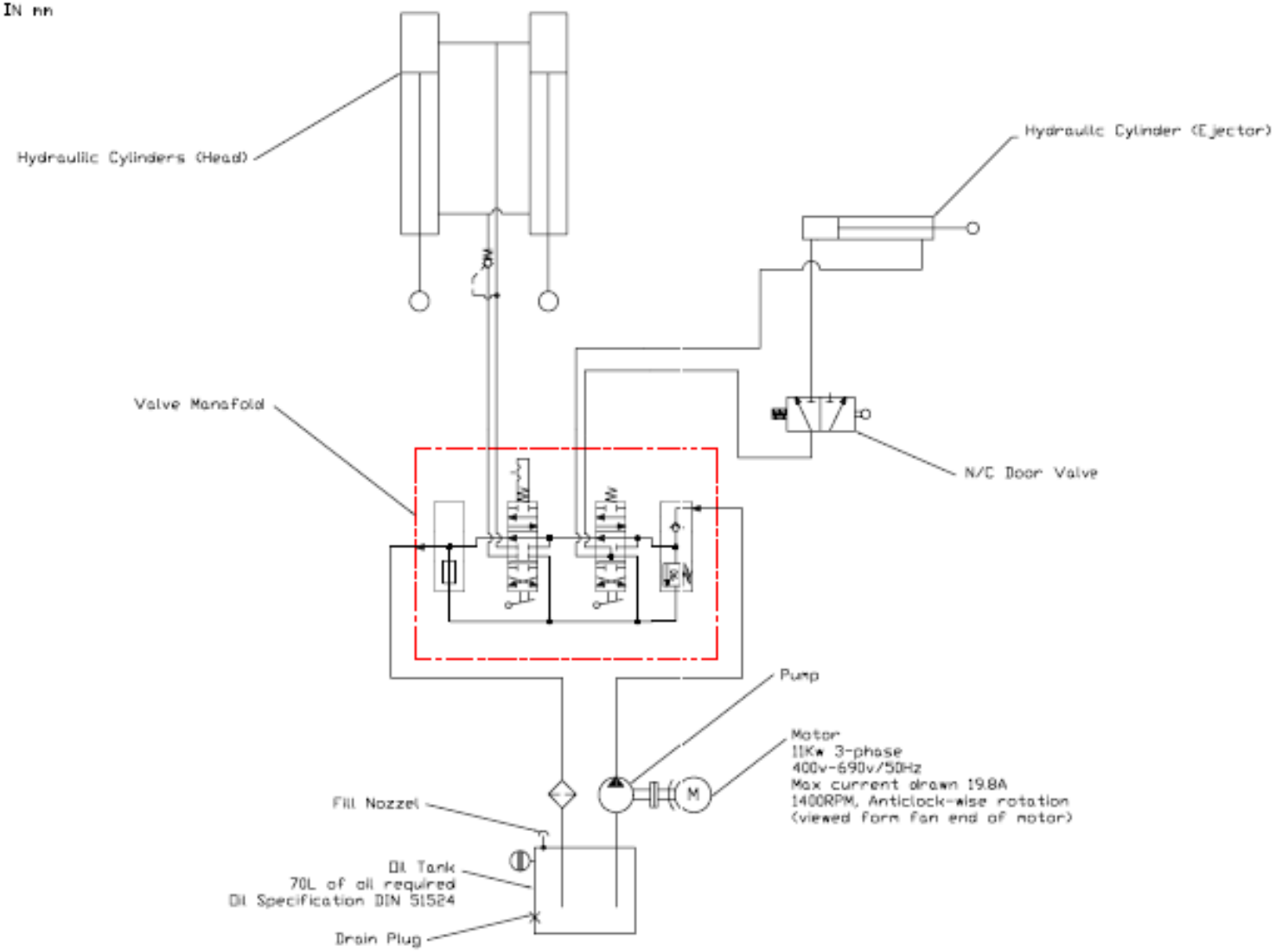
DIMENSIONS IN mm



DESCRIPTION	DATE : 24/10/05	TITLE : Hydraulic Schematic Diagram	Compact 550
PRODUCT PROFILE	SCALE : N.T.S	DRG. BY: C O'Hagan / DRG. NO:	

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DIMENSIONS IN mm



DESCRIPTION	DATE : 24/10/05	TITLE : Hydraulic Schematic Diagram	
PRODUCT PROFILE	SCALE : N.T.S	DRG. BY: C O'Hagan	DRG. NO

Compact 450

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11.0 EC Declaration of Conformity

(in accordance with Annex IIA of the Machinery Directive 98/37/EC)

We *Mac-Fab Systems Ltd.*

Of *Carrickmacross, Co. Monaghan, Ireland*

Declare that the machinery.

Make: *Mac-Fab*

Model: *Compact 450/550/650*

Year of Construction: _____

has been manufactured using the following transposed harmonized European Standards and technical specifications:

EN 1050	*Safety of machinery. Principles for risk assessment*
EN 12100-1	*Safety of Machinery. Basic terminology and methodology*
EN 12100-2	*Safety of Machinery. Technical principles*
EN 60204-1	*Safety of machinery. Electrical equipment of machines. General requirements*
EN 953	*General requirements for the design and construction of fixed and movable guards*
EN 954	*Safety of Machinery. Safety related parts of control systems. General principles for design.*

and is in conformity with:

Directive 98/37/EC Machinery directive.
Directive 73/23/EEC Low voltage directive.
Directive 89/336/EEC EMC directive.

Signed in: *Mac-Fab Systems Ltd, Carrickmacross, Co. Monaghan, Ireland.*

On the 14 day of JUNE 2007.
Signature: Eugene Mc Mahon

Name: .....Eugene Mc Mahon.....….

Position: .....Managing Director.....