



CC1100 COMPACTOR USER AND SAFETY MANUAL



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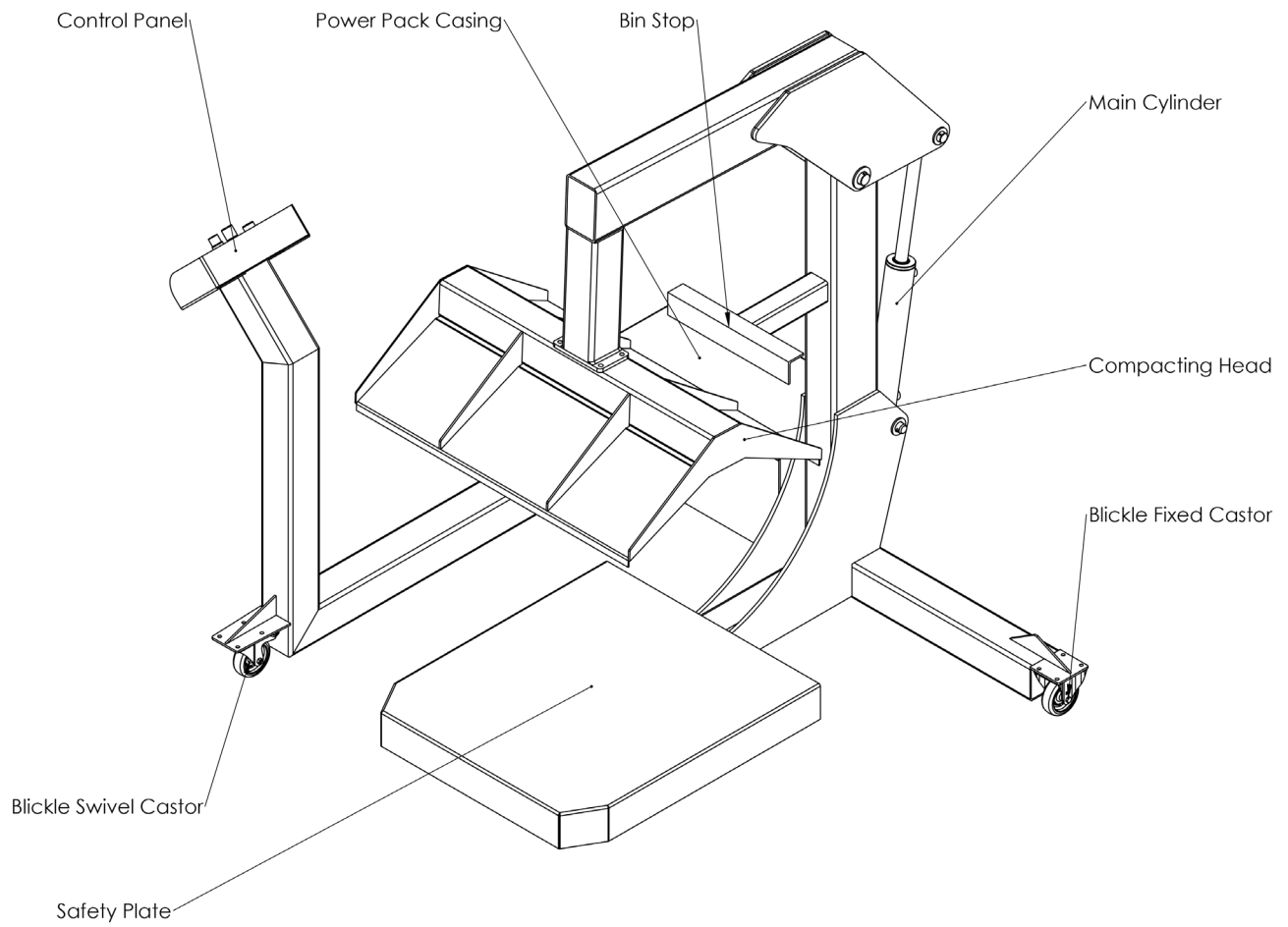
Key Features of the CC1100 Compactor

The CC1100 bin compactor has been designed to be user friendly and reliable. Reducing waste volumes by up to 75% therefore reducing the cost of waste collections.

The CC1100 compactor features a safety plate to ensure the bin wheels are not damaged. On/off key on the control panel and a single phase hydraulic control system with 2 handed controls for user safety.

- Reduces waste volumes by up to 75%
- Audible beeper when machine is in use
- Easy and safe to operate
- Reducing cost of waste removal
- Compacts standard 1100 litre bins
- 30 second cycle time
- Small footprint, minimal floor space required
- Compaction force 2.3 Tons

Overview Drawings



The CC1100 Compactor in Use

The photographs below show the CC1100 with a standard 1100 litre bin loaded onto the safety plate, before and after compaction.



Compacting head raised

The upright position. The bin is loaded and the machine is ready to compact.



Compacting head lowered

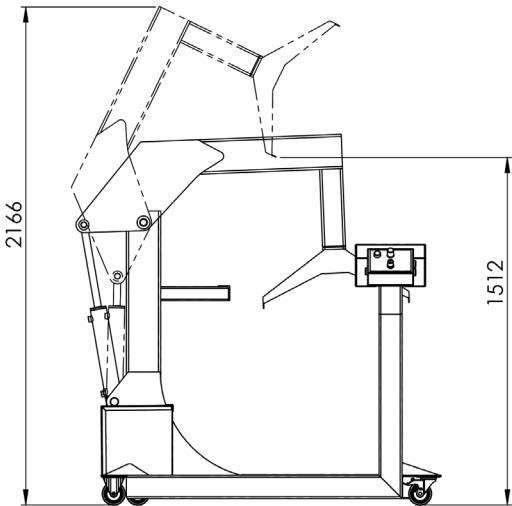
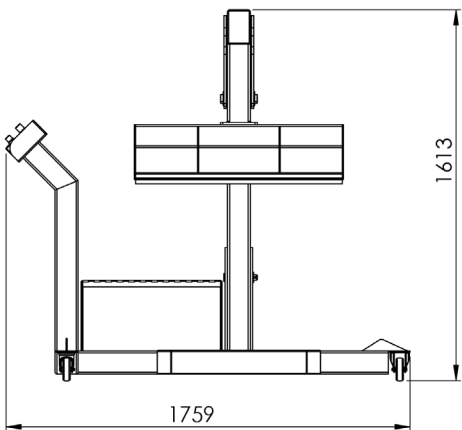
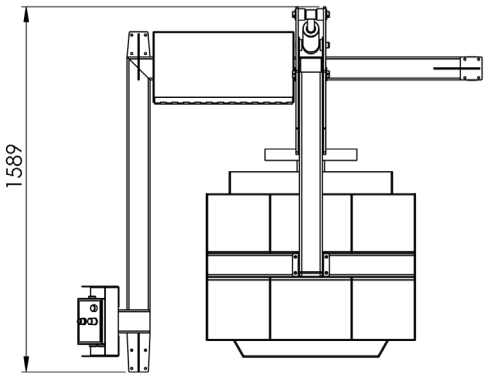
The head pressed down into the bin. Raise it fully before removing the bin.

Before compacting always check

- The bin sits squarely on the safety plate against the bin stop
- The foot brake is applied and the machine is on level ground
- Nobody other than the operator is within 2 metres of the machine
- There are no overhead obstructions above the compacting head

Machine Dimensions and Weight

Machine Weight 320KG



CC1100 Compactor Safety

The CC1100 compactor has been designed to be as safe as possible to operate.

The machine is fitted with a rotary isolator.

The operational control box is situated to the side of the machine giving the operator a clear view of the bin to be compacted and the surrounding area.

The controls require the operator to use both hands ensuring that the machine cannot be operated by accident and keeping the operators hands away from the moving parts

The machine emits an audible signal during operation to make anyone in the vicinity aware it is working.

Recommended Precautions

- Only trained and authorised operators should be permitted to use the machine
- Operators must read and obey the instructions displayed on the machine
- Never operate machine on uneven ground or a ramp
- Never operate machine on the edge of a raised dock or platform
- Never operate machine with any covers or guards removed
- Anyone other than the operator must keep 2 meters clear of the machine whilst it is in operation
- Ensure the working area around the machine is clear of obstructions before use
- Before connecting machine to mains supply, ensure voltage and frequency correspond with that listed on the range plate
- Do not use extension leads to connect machine to mains supply
- Do not operate if power supply lead and insulation is damaged
- Do not connect a damp power plug or socket
- Ensure the supply socket is fitted with a residual current device
- Ensure there is complete continuity between the machine and an effective earthing

CC1100 Compactor Safety Labels for Operation and PPE

All safety stickers are clearly mounted on the machine in clear view. Please ensure the correct PPE is being used before operating the machine.



**Read instructions
before use**



**Safety boots
must be worn**



**Eye protection
must be worn**



**Safety helmet
must be worn**



**Safety gloves
must be worn**

Operating Instructions

Before Operation

- 1- This machine should only be operated by authorised personnel
- 2- Ensure the machine is on stable and level ground
- 3- Ensure there are no overhead obstructions



- 4- Ensure the foot brake has been applied on the compactor
- 5- Ensure that all personnel other than the operator are well clear of the machine
- 6- Ensure the compactor head is in the upright position

To compact the bin

1- Load the bin as shown in the image below



2- Turn the compactor on with the On/Off switch on the control panel

3- Whilst holding down the dead man button begin to press the lower button to start compaction (if either button is release the machine will stop)

4- When the compactor is in use a safety beep will be heard to sound

5- Once the bin has compacted press the dead man button with the raise button to move the compactor head back into the up right position (if either button is release the machine will stop)



On/Off switch

Dead man button



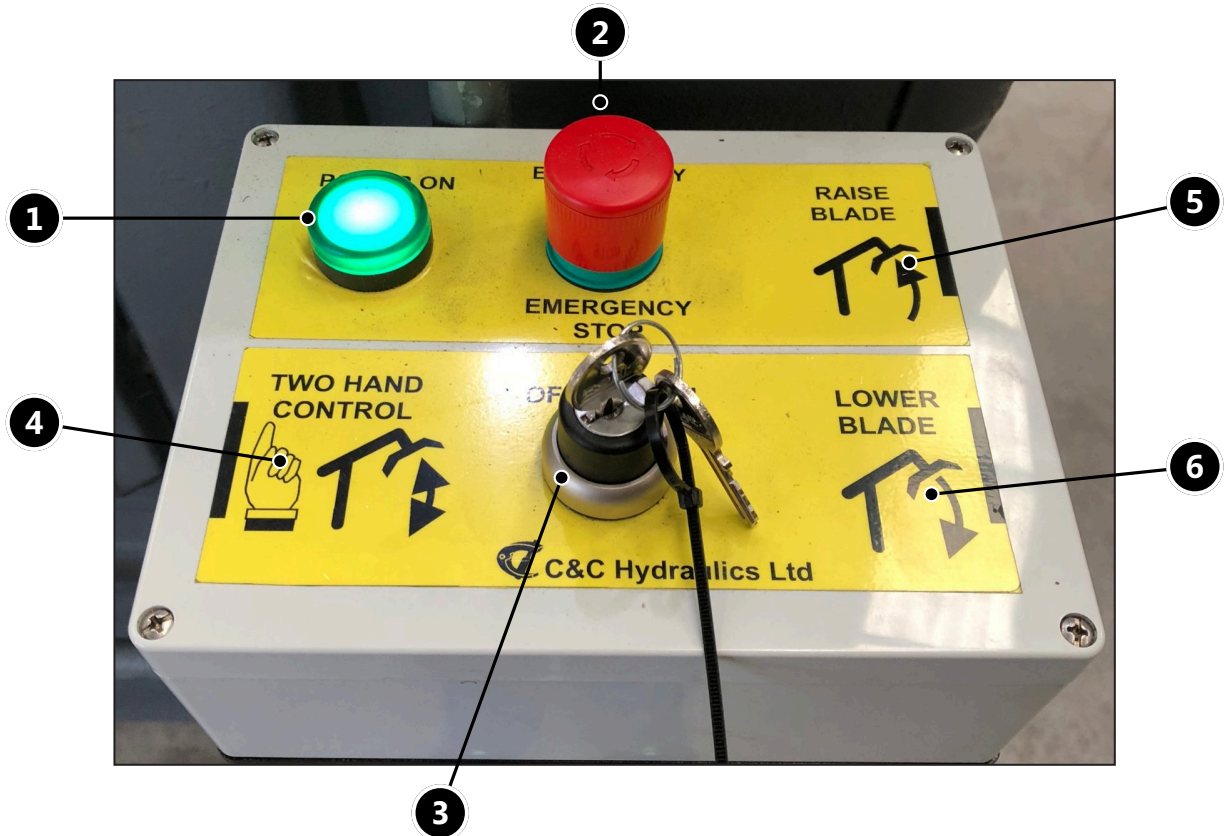
Raise and lower buttons



6- Remove the bin and repeat as required.

NOTE!!! The compactor can be stopped at any time by simply releasing the buttons

Control Panel Layout



- | | |
|----------------------------------|--|
| 1 Power on lamp | Lights green when the key switch is on and the machine has power. |
| 2 Emergency stop | Press to stop the machine immediately. Twist to release before restarting. |
| 3 Key switch | Turn the key to switch the compactor on or off. Remove the key when not in use. |
| 4 Two hand control | Hold the dead man button down while pressing the raise or lower button. |
| 5 Raise blade | Returns the compacting head to the upright position. |
| 6 Lower blade | Lowers the compacting head into the bin to compact the waste. |
| 7 Raise and lower buttons | Push buttons on the front of the control box. The dead man button is on the opposite side. |

CC1100 Compactor Inspection Schedule

Daily Checks

- 1- Visually check that there is no damage to the frame, compactor arm and compactor head
- 2- Check the condition of the caster and ensure the foot brake is working
- 3- Check hydraulic hoses and connectors for any leaks

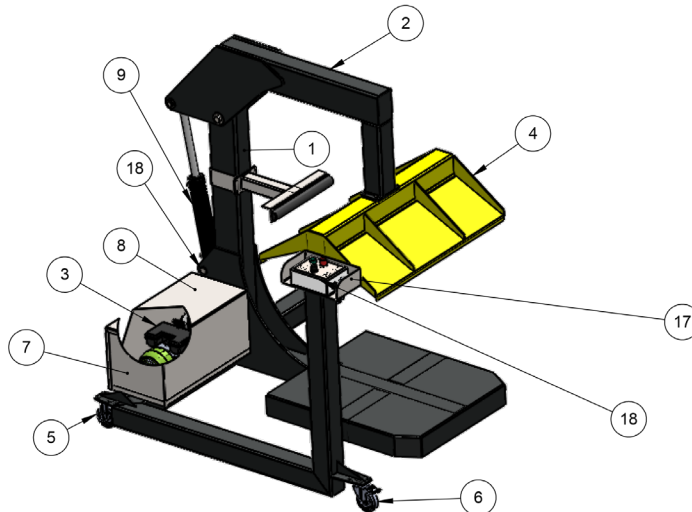
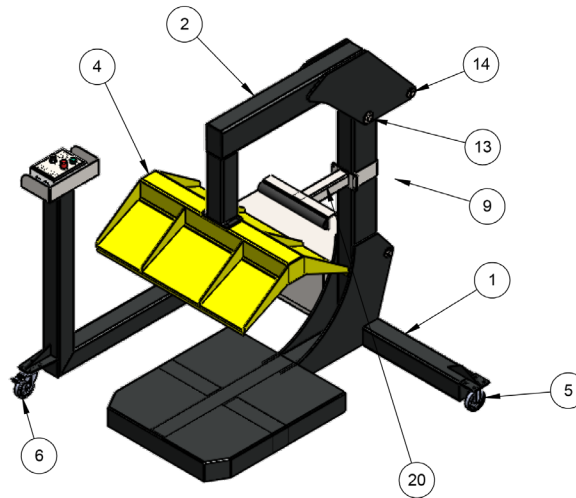
Monthly Checks

- 1- Check cables and connections to ensure they are all in good condition
- 2- Check that all warning and safety stickers are legible
- 3- Check the bolts holding the castors are tight

Yearly Maintenance

- 1- Replace hydraulic oil in the power pack
- 2- Check for any damaged or worn parts, refer to the parts list on page 13

Parts List



ITEM NO.	Description	Default/QTY.
1	CC1100 Bin Compactor Chassis	1
2	Compacting Arm	1
3	YBZ5-C4 2-G0 8A3E4-GBVET1 Hydraulic Power Unit	1
4	Compacting Head	1
5	BKPA-TPA 101KF Blicke Fixed Castor	2
6	LKPA-TPA 101KF-FI Blicke Swivel Castor	1
7	HPU Cover	1
8	HPU Cover Lid	1
9	703.3	1
10	PH-2A	1
11	Washer ISO 7091 - 30	2
12	Washer ISO 7091 - 24	3
13	Main Pin	1
14	Cylinder Pin	1
15	Headed Clevis Pin Ø25	1
16	ISO 2341 - B - 24 x 140 x 6.3 - St	1
17	Guard for control panel (compactor V1.0)	1
18	Control Panel	1
20	Bin stop (compactor V1.0)	1
21	ISO 4762 M8 x 25 - 25S	4
22	ISO 7040-M8-N	4
23	IGUS GSM-3034-40	2
24	IGUS GSM-2528-20	4

Exploded View



UNLESS OTHERWISE SPECIFIED:		DRAWN	CHECKED	NAME	LITER	LITER	C & C HYDRAULICS LTD
DIMENSIONS ARE IN MM					12/12/16		
DIMENSIONS ARE IN INCHES							CC1100 Bin Compactor Exploded View
DIMENSIONS ARE IN FEET							
DIMENSIONS ARE IN METERS							SIZE DWG. NO. REV
DIMENSIONS ARE IN MILLIMETERS							
DIMENSIONS ARE IN CENTIMETERS							SCALE: 1:50 SHEET 1 OF 1
DIMENSIONS ARE IN KILOGRAMS							
DIMENSIONS ARE IN KILOWATTS							DO NOT SCALE DRAWING
DIMENSIONS ARE IN KILOWATT HOURS							
DIMENSIONS ARE IN KILOWATT PER HOUR							REMOVE ALL BURRS AND SHARP EDGES
DIMENSIONS ARE IN KILOWATT PER HOUR							
DIMENSIONS ARE IN KILOWATT PER HOUR							PROPERTY AND CONFIDENTIAL
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DIMENSIONS ARE IN KILOWATT PER HOUR							THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF C & C HYDRAULICS LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF C & C HYDRAULICS LIMITED IS PROHIBITED.
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DIMENSIONS ARE IN KILOWATT PER HOUR							MATERIAL
DIMENSIONS ARE IN KILOWATT PER HOUR							
DIMENSIONS ARE IN KILOWATT PER HOUR							SURFACE FINISH
DIMENSIONS ARE IN KILOWATT PER HOUR							
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Refer to the parts list on page 13 for item descriptions.

Hydraulic System

The hydraulic system comprises of a single phase power pack (YBZ5-C4.2-0.8A3E4) with the following specification a 0.75kw S1 rated electric motor close coupled to a 2 speed gear pump for fast approach at low pressure and maximum compacting force.

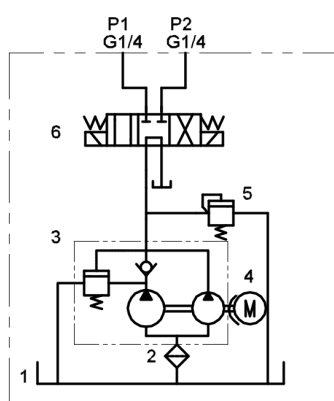
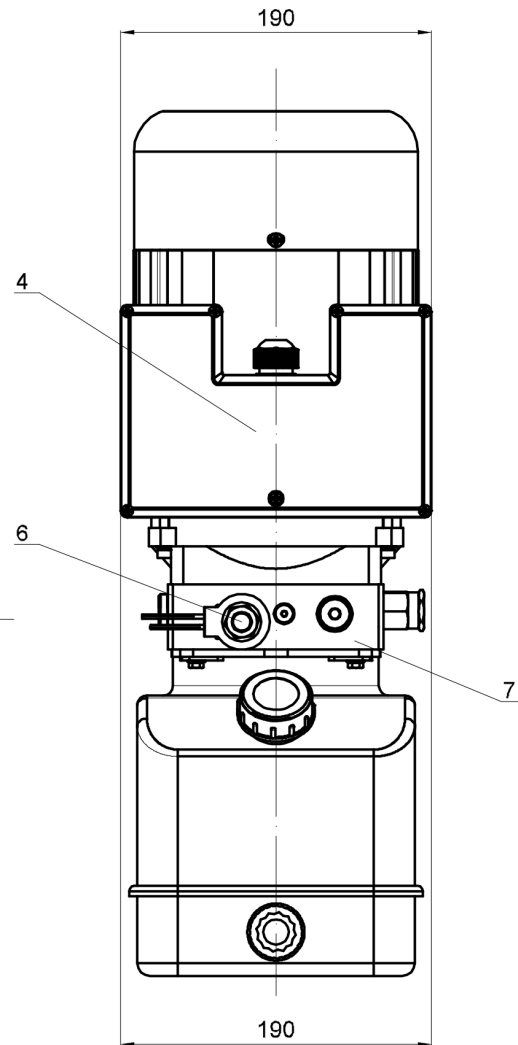
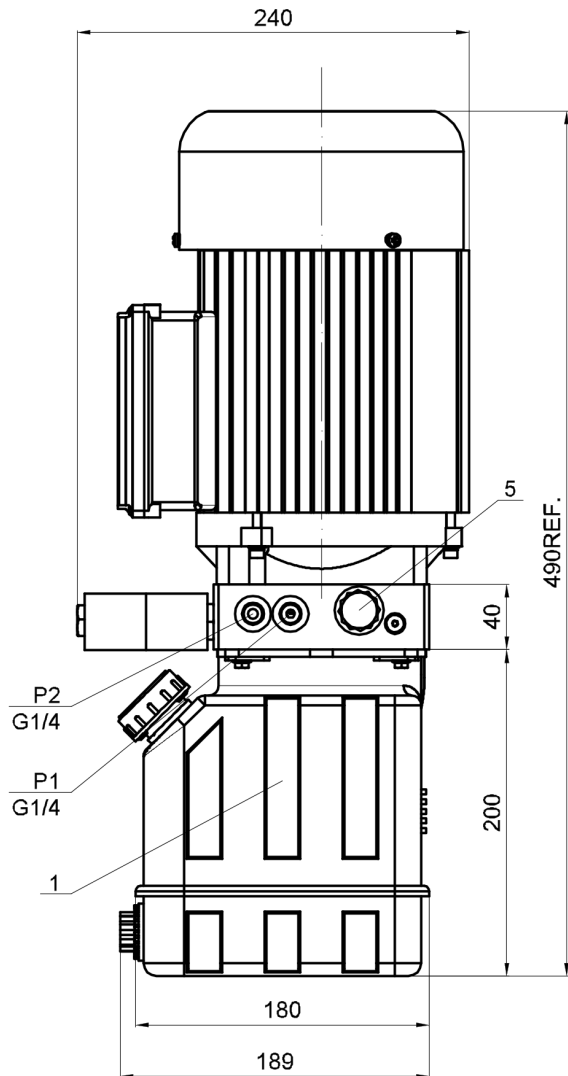
The power pack has an integrated double valve for directional control and a relief valve for controlling the systems hydraulic pressure.

The hydraulic compacting cylinder is a 703/3 60 bore 30 rod 300 stroke
See pages 16 & 17 for drawings of the above.

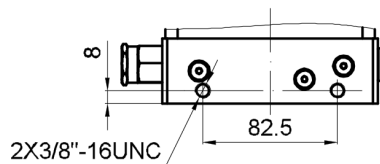
Pressure and Power requirements

HYD PUMP TOTAL...	95	%
OIL FLOW:	1	lpm
PRESSURE:	250	bar
HYD PUMP POWER:	0.439	kW ⓘ
POWER SOURCE		
Select Common Sources		
240	V	VAC (Single Phase)
MOTOR POWER FACTOR:	1.00	ⓘ
MOTOR EFFICIENCY:	100	% ⓘ
AMPERAGE DRAW:	1.83	A ⓘ

Hydraulic Power Pack



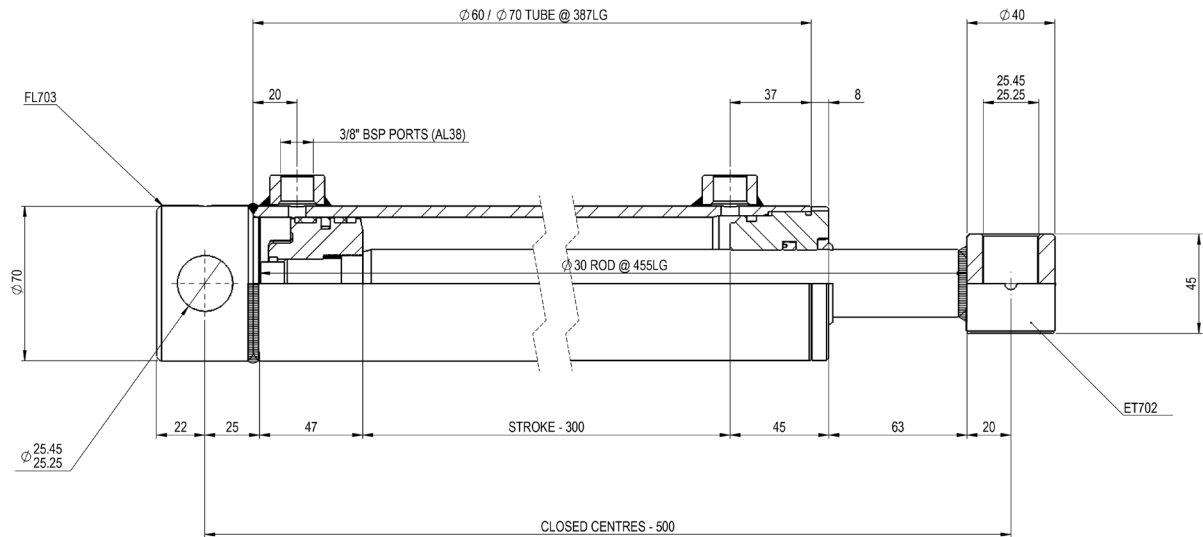
Hydraulic Schematic



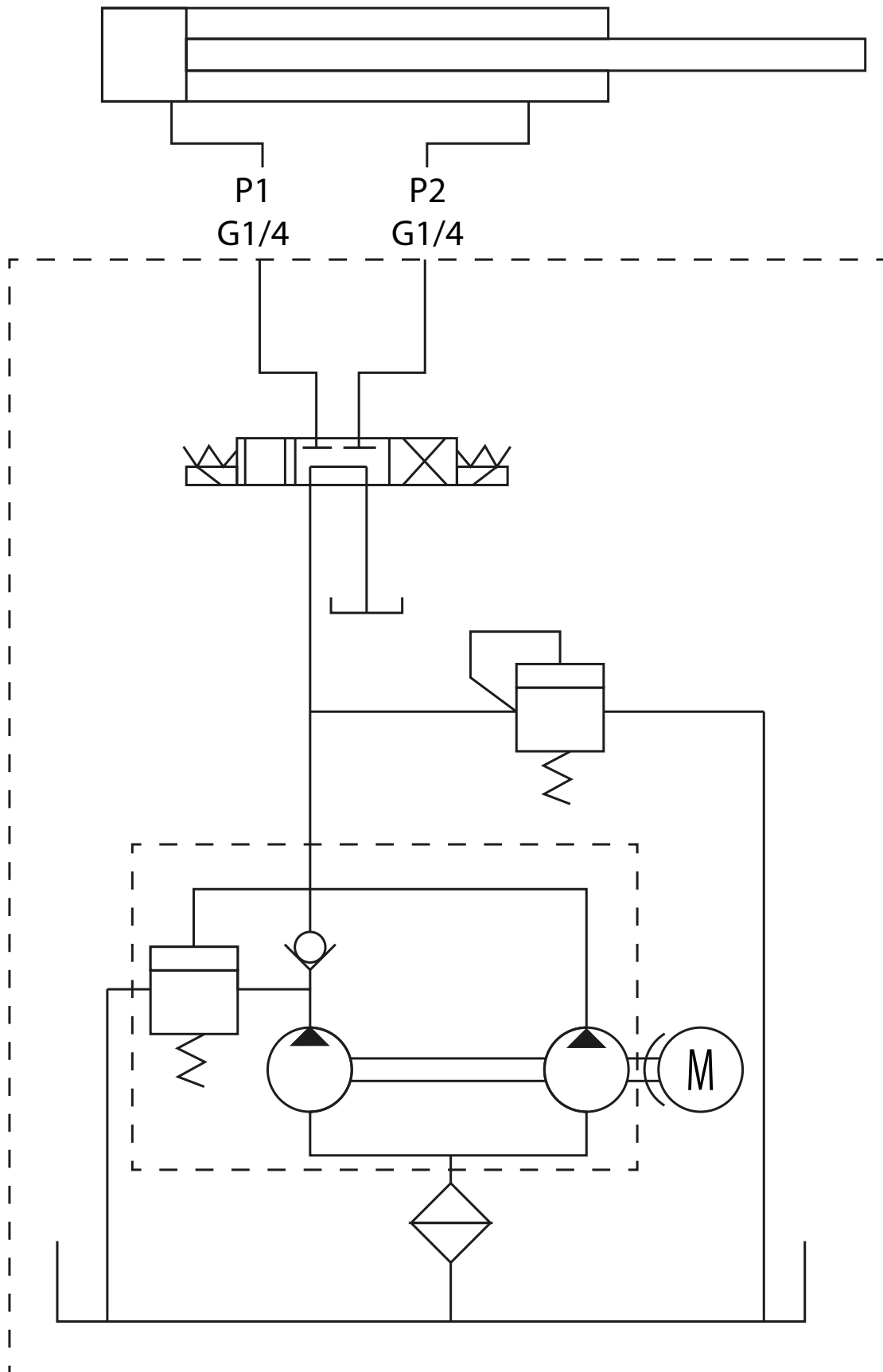
VIEW A

7	Endhead	LBZ-T4FK-2	
6	Solendoid Valve	LSV-08-34-T-4D	220V Double Lead
5	Relief Valve	LHRV-08-42	250bar
4	AC Motor	AM21-3EGB-1BC1	220VAC 0.75KW 1450RPM S
3	Gear Pump	CBK-C4.2F/F0.8F	
2	Suction Filter	YBZ-4-100	
1	Plastic Tank	YBZ-SLYX-4L-N	4L , Vertical
NO.	Description	P/N	Technical data

Hydraulic Cylinder



Hydraulic Schematic



Moving and Storage

Moving

The CC1100 should always be kept in a upright position and rest on all 3 castors with the front castor brake applied. The CC1100 is moved by releasing the foot break and pushing the machine into the desired position ensuring it is on even ground with no overhead obstructions.

It is important that extra care is taken when moving the CC1100 on sloping ground as the machine weighs 320KG. The machine should never be moved when carrying a bin.

Transportation

The machine should always be transported in its upright position, the foot brake should be applied and the machine should be strapped into place by an Appropriately rated strap. It is recommended that the machine is strapped across the base frame.

Storage

If the machine is not being used for an extended period of time its should be stored in a clean dry place with good ventilation and an ambient temperature not less than 0 degrees C.

The compactor heads should be left in the upright position ensuring the cylinder rod is not exposed to outside elements.

Before storing the machine clean it thoroughly and apply the foot brake.

9 EC DECLARATION OF CONFORMITY



DECLARATION OF CONFORMITY



Business Name and Full Address of Manufacturer

C & C Hydraulics Ltd
Unit 3, Aireside Business Park
Royd Ings Avenue
Keighley
BD21 4BZ

Name and Address of Authorised Representative

As above

Name and Address of the Person in Community Authorised to Compile the Technical File

Ian Couch
C & C Hydraulics Ltd
Unit 3, Aireside Business Park
Royd Ings Avenue
BD21 4BZ

Description of Product

CC1100 Compactor

Function, Model, Type, Serial Number

Function: Bin Compactor
Type:

Model: CC1100 Compactor
Serial Number:

Standards Used

EN ISO 4413 2010, EN ISO 12100 2010, EN ISO 13849-1 2006, EN 61000-6-4 2007,

Place of Declaration

Unit 3, Aireside Business Park,
Royd Ings Avenue
Keighley
BD21 4BZ

Date of Declaration

17/05/2021

Declaration

I declare that the machinery fulfils all the relevant provisions of the following directives:
Machinery directive 2006/42/EC, Electromagnetic compatibility directive 2004/108/EC.

Person Empowered to Draw Up Declaration

Name: Ian Paul Couch
Position: Managing Director

Signature: