Enter **Serial No.** here._____

In the event of an enquiry please quote this serial number.

www.monoequip.com

OMEGA TOUCH

SOFT DOUGH DEPOSITOR
(400, 450, 580)

OPERATING AND MAINTENANCE MANUAL

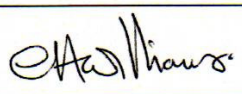
The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty

FILE 35

DECLARATION OF CONFORMITY

We hereby declare that this machine complies with the essential health and safety requirements of :-

- The Machinery Directive 2006 / 42 / EC
- The Low voltage Directive 2014 / 35/ EC
- The requirements of the Electromagnetic Compatibility Directive 2004 / 108EC, 91 / 263 / EEC, 92 / 31 / EEC
  Incorporating standards
  EN55014-1:2006+A1:2009+A2:2011
  EN55014-2:1997+A1:2001+A2:2008
- The General Safety of Machinery and food processing Standards applicable
- Materials and Articles intended to come into contact with food Regulation (EC) No. 1935 / 2004
- Good manufacturing practice for materials intended to come into contact with food – Regulation (EC) No.2023/2006

Signed	
G.A.Williams – Quality Manager	

Date	

Machine FG Code.		**Machine Serial No.**	

A technical construction file for this machine is retained at the following address:

MONO EQUIPMENT
Queensway,
Swansea West Industrial Park,
Swansea
SA5 4EB
UK

MONO EQUIPMENT is a business name of **AFE GROUP Ltd**
Registered in England No.3872673 VAT registration No.923428136

Registered office: Unit 9, Bryggen Road,
North Lynn Industrial Estate,
Kings Lynn,
Norfolk,
PE30 2HZ

Failure to adhere to the cleaning and maintenance instructions detailed in this booklet could affect the warranty of this machine.

The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty

SAFETY SYMBOLS

The following safety symbols are used throughout this product documentation and manual (available at www.monoequip.com).
Before using your new equipment, read the instruction manual carefully and pay special attention to information marked with the following symbols.

WARNING Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING Indicates a hazardous situation which, if not avoided, will result in electric shock.

CAUTION Indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

ELECTRICAL SAFETY AND ADVICE REGARDING SUPPLEMENTARY ELECTRICAL PROTECTION:

Commercial bakeries, kitchens and foodservice areas are environments where electrical appliances may be located close to liquids or operate in and around damp conditions or where restricted movement for installation and service is evident.

The installation and periodic inspection of the appliance should only be undertaken by a qualified, skilled and competent electrician, and connected to the correct supply suitable for the load as stipulated by the appliance data label.

The electrical installation and connections should meet the necessary requirements of the local electrical wiring regulations and any electrical safety guidelines.

We Recommend:

- Supplementary electrical protection with the use of a residual current device (RCD)
- Fixed wiring appliances incorporate a locally situated switch disconnector to connect to, which is easily accessible for switching off and safe isolation purposes. The switch disconnector must meet the specification requirements of IEC 60947.

The supply to this machine must be protected by a **30mA RCD**

CONTENTS

Omega Touch

1.0 INTRODUCTION

- The innovative “four axis deposit” design of MONO’s **“Omega Touch”** depositor allows it to recreate most of the hand movements of the Master confectioner. This makes the **“Omega Touch”** capable of exceptional accuracy of product weight, size and shape.

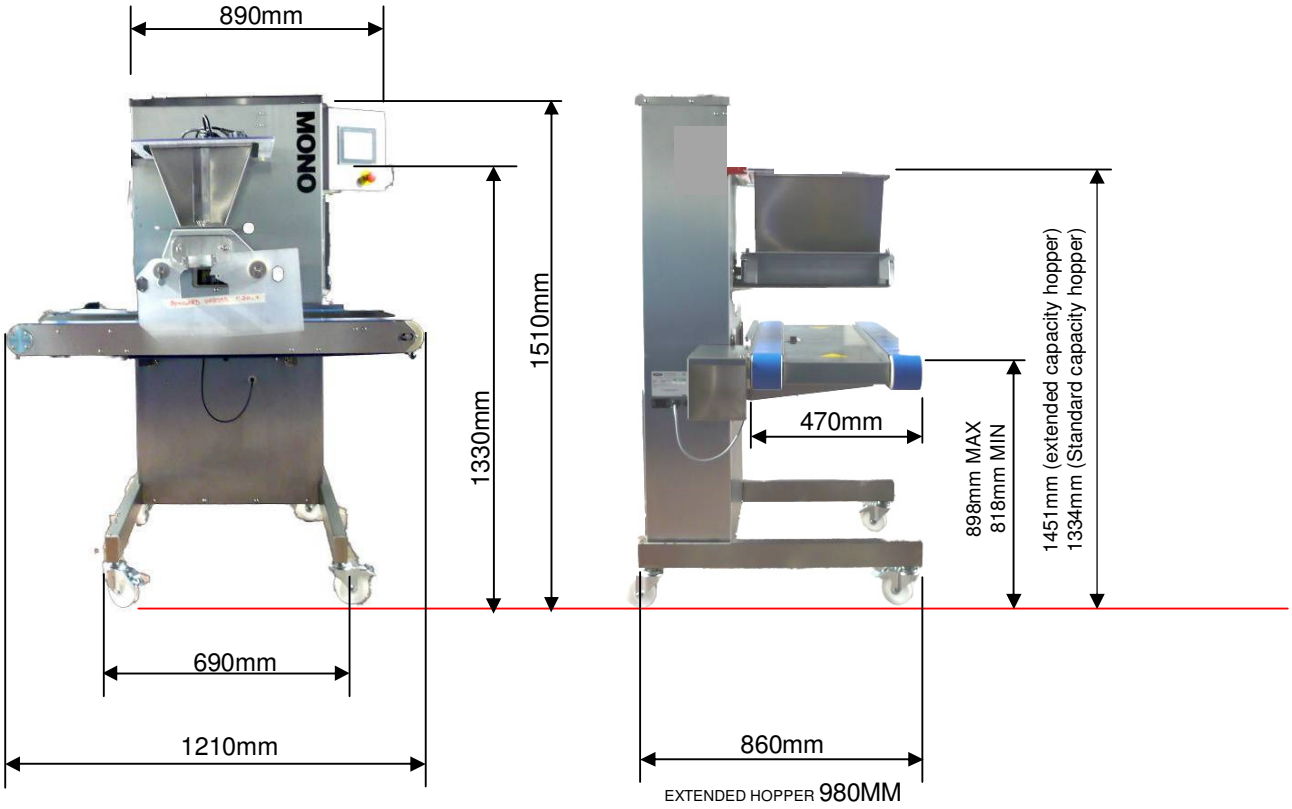
- Maintenance is kept to a minimum and the smooth body design makes daily cleaning quick and easy.

- Easy to use computer software gives access to 550 programs, which are stored in the memory and easily recalled for use or modification.
  Control is via a colour touch screen with graphically represented products already installed that can be created or edited to the required product.

- It is available with soft dough hoppers. There is also a large selection of templates and nozzles.

As it is our policy to improve our machines continuously,
we reserve the right to change specifications without prior notice

2.0 DIMENSIONS



3.0 SPECIFICATIONS

SOFT DOUGH

MODEL (Nom. hopper width (mm))	**400**	**450**	**580**
Weight (with hopper fitted) (Kg) **:**	**176**	**185**	**194**
Standard hopper Capacity (litre) **:**	**20**	**22.5**	**29**
Extended hopper Capacity (litre) **:**	**36**	**41**	**53**

Power: Single phase, 13A max load. Suitable for 200v, 220v, 230v, and 240v, 50-60 Hz supply.

The supply to this machine must be protected by a **30mA RCD**

MAX RATING 2.5kW single phase fused at 13A

Cycles per minute	=	Up to 35
Min distance between trays	=	50mm
Max vertical travel	=	80mm
Max program storage	=	650
Number of languages	=	18
Noise level	=	Less than 85dB
Electronics	=	All microprocessor controlled

NOTE:

The minimum deposit that can be made depends on several factors - recipe, mixing method, template size, nozzle size and deposit speed.
As a guide the following is the minimum that should be attempted:

Macaroons	6g,
Meringues	3g,
Choux Paste	5g,
Viennese	4g,
Sponge Drops	4g.

However, consult **Mono Equipment** if intended product falls outside the above general machine specification to determine the exact capabilities of the “Omega” with any specific product.

As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice

4.0 SAFETY

1 **Never use a machine in a faulty condition** and always report any damage.

2 **Only trained engineers** may remove parts that need a tool to remove them.

3 Always ensure hands are dry before touching any electrical appliance (including cable, switch and plug). **NEVER move machinery by pulling on the power cords or cables.**

4 **Ensure that the floor area around the OMEGA is clean to avoid slipping** – especially if carrying heavy hopper and template components to and from the machine.

5 **All operatives must be fully trained.**

Use of the machine can prove dangerous if:

- the machine is operated by **untrained or unskilled staff**
- the machine is not used for its **intended purpose**
- the machine is **not operated correctly**

All safety devices applied to the machine during manufacture and the operating instructions in this manual are required to operate this machine safely. The owner and the operator are responsible for operating this machine safely.

6 People undergoing training on the machine must be under **direct supervision**.

7 **Do not operate the machine with any panels or guards removed.**

They are there to protect you.

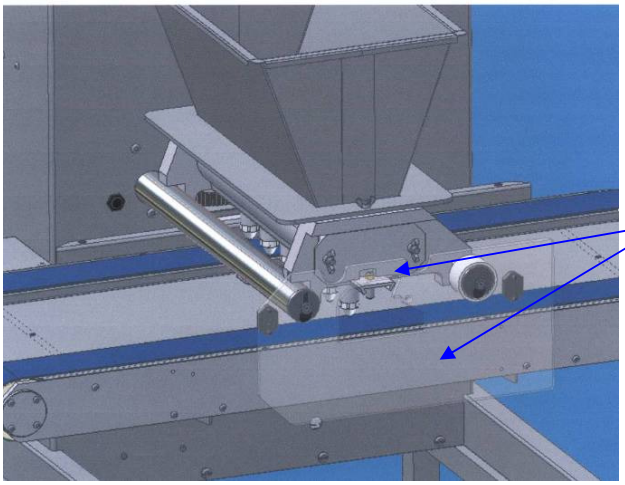
8 **No loose clothing** or jewellery should be worn while operating the machine.

They could cause damage to the machine and person.

9 **Switch off power** at the mains isolator when machine is not in use and **before** carrying out any **cleaning** or **maintenance**.

10 The bakery manager or the bakery supervisor should carry out **daily safety checks** on the machine.

11 Do not operate machine without hopper **template and guard fitted correctly**.



(11) HOPPER TEMPLATE AND GUARD FITTED

NOTE
Guard can be plastic or metal depending on the machine model

12 Due to the essential requirement for handling heavy components during cleaning, it is recommended that **protective footwear** be worn when carrying out such procedures.

ALL CLEANING AND MAINTENANCE OPERATIONS MUST BE MADE WITH MACHINE DISCONNECTED FROM THE POWER SUPPLY.

5.0 INSTALLATION

1 Ensure that the depositor is connected to correct electric supply as specified on the serial number plate on the side of the machine.

The supply to this machine must be protected by a **30mA RCD**

2 Ensure that the correct fuse rating is fitted in the electrical supply

3. Position the machine in the correct position for working and lock the two locking wheels to stop movement.

6.0 ISOLATION

IN AN EMERGENCY, SWITCH OFF AT THE ELECTRICAL MAINS WALL ISOLATOR, OR PUSH THE EMERGENCY STOP BUTTON.

To release the emergency stop button, turn clockwise.

7.0 CLEANING INSTRUCTIONS

NOTE:

- **Cleaning must be carried out by fully trained personnel only.**
- **Isolate machine from mains supply before carrying out any cleaning.**
- **Do not steam clean or use a jet of water.**

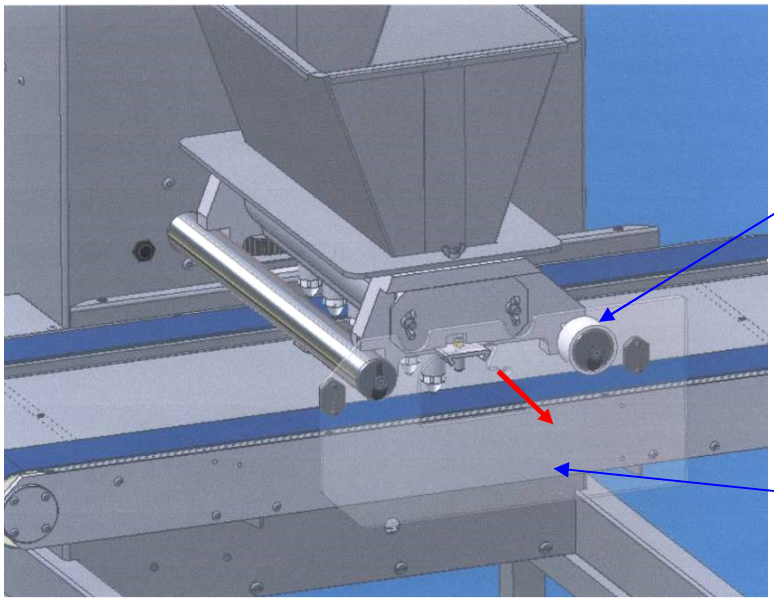
-Do not use any form of caustic detergent or abrasive cleaners.-

All the outer surfaces of the machine should be wiped over daily with warm soapy water.

CLEANING SOFT DOUGH HOPPERS

The feed hopper, pump assembly, template, nozzles etc. should be removed from the machine and dismantled for thorough cleaning between product mix changes.

1. Open top safety guard and remove excess mixture remaining in the feed hopper.
2. Lift off front safety cover and locking-ring.

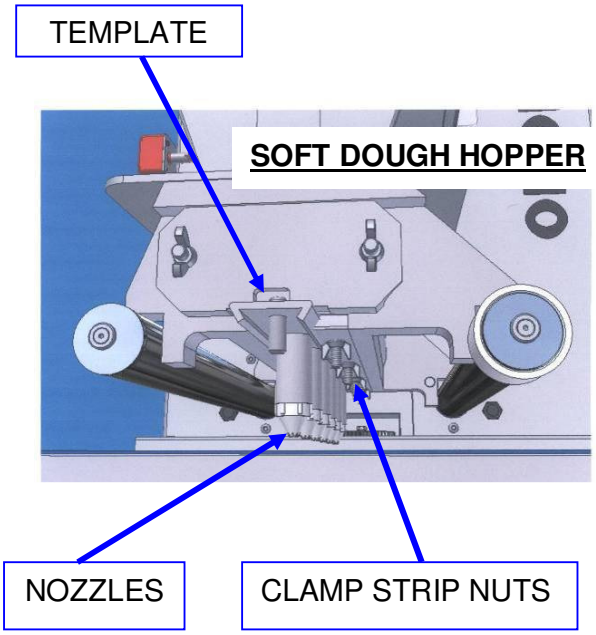


NOTE
Cover can be plastic or metal depending on the machine model

3. Slacken template clamp strip nuts or thumbscrews (depending on type of hopper) Remove fitted template from pump assembly by sliding out to avoid subsequent damage.

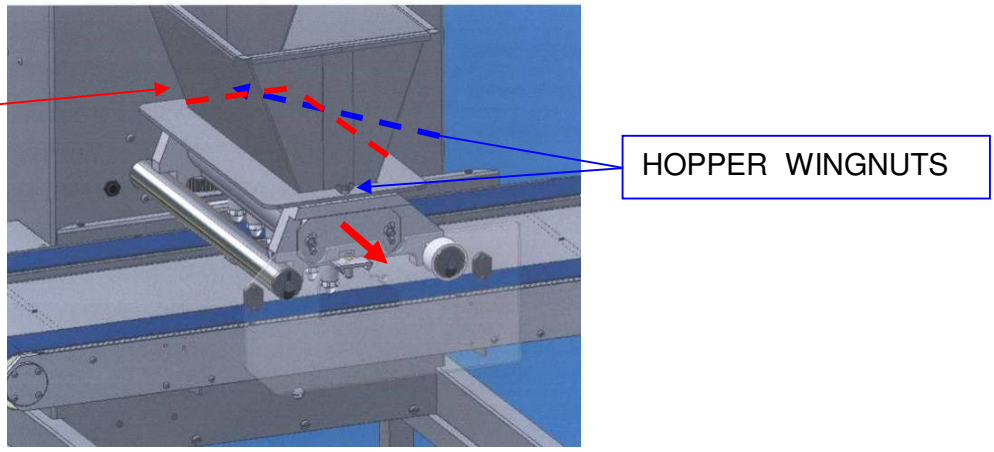
NOTE.

Thumbscrews only need to be released slightly to allow the template to slide away from the pump assembly. If loosened too much, the template will have to be supported.



4 To reduce weight and bulk, separate and remove empty feed hopper from pump assembly whilst still on the machine by unscrewing the wing nuts.

To gain access to the inner wing nut, slide the complete hopper away from the machine body slightly (keep on support bars) - this will also disengage the pump assembly from the drive shaft.



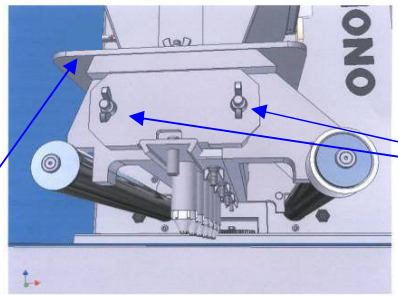
Ensure that the nuts are placed where they will not be lost.

CAUTION:
The feed hopper and pump assembly exceeds 25kg and will need to be lifted off by two people, or dismantled into smaller components while still on the machine.

Take care to avoid damage to the sealing surface of the feed hopper during removal, cleaning, assembly and storage.

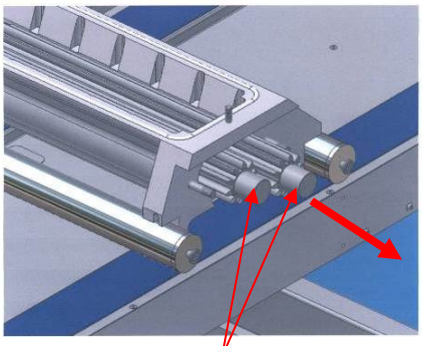
5. After removing the feed hopper, check condition of feed hopper seal.

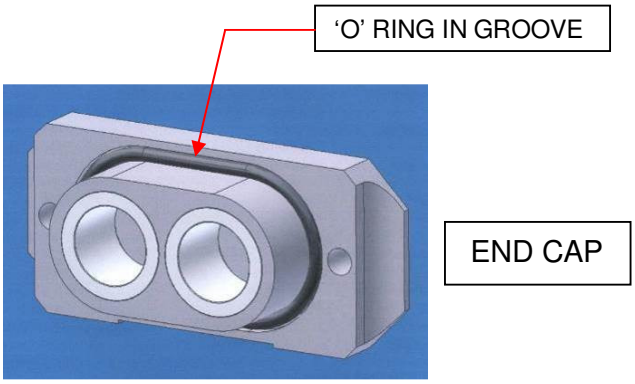
6. Unscrew the end cap retaining nuts from the accessible side of the pump assembly.
(Ensure that the nuts are placed where they will not be lost).



7. Withdraw the end-cap with the pump gears.

Ensure that the 'O' sealing ring on the inside of the end-cap is not damaged during cleaning.





4. Remove remainder of pump assembly from the machine and remove remaining end-cap to fully dismantle pump assembly components for cleaning.

8.0 OPERATING CONDITIONS

To obtain the best product results and consistent operation,

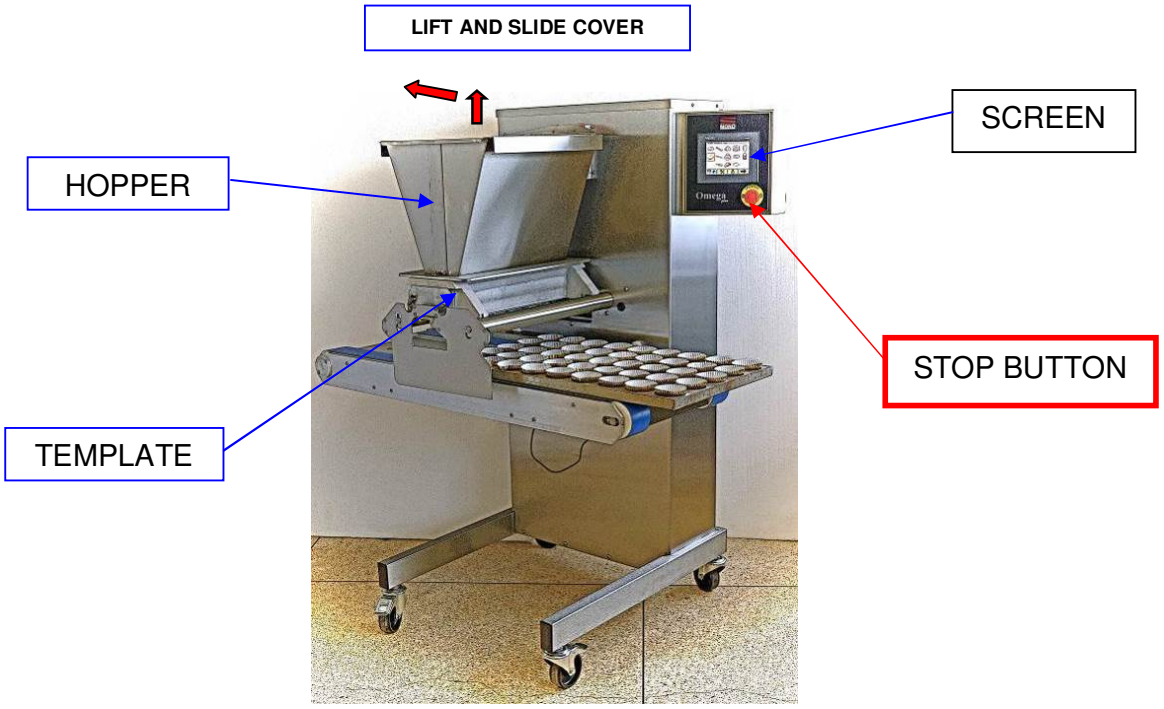
- ✓ Make sure the depositor is used on a **level floor**.
- ✓ Ensure **flat trays** of consistent length, width, material and edge dimensions are used.
- ✓ Ensure **undamaged** nozzles and templates are used.
- ✓ Keep the machine **clean**.

9.0 PREPARING FOR OPERATION

The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty

1 Select template and nozzles required and fit as section 9a & 9b following.
Fill hopper with mix and close hopper cover.

It is recommended that when heavy mixes are used, the inside of the hopper should be coated with vegetable oil; for lighter mixes such as meringue, dampen with water. The oil or water will help the mix to settle down the hopper walls and prevent air being sucked in.



2 Connect power cable to electrical supply.
Make sure stop button is in released position (turn clockwise if required).

3 Select an existing program or create a new program through the on-screen menus. (see section 10 operation)

4 The machine is now ready for operation.

9a FITTING THE HOPPER

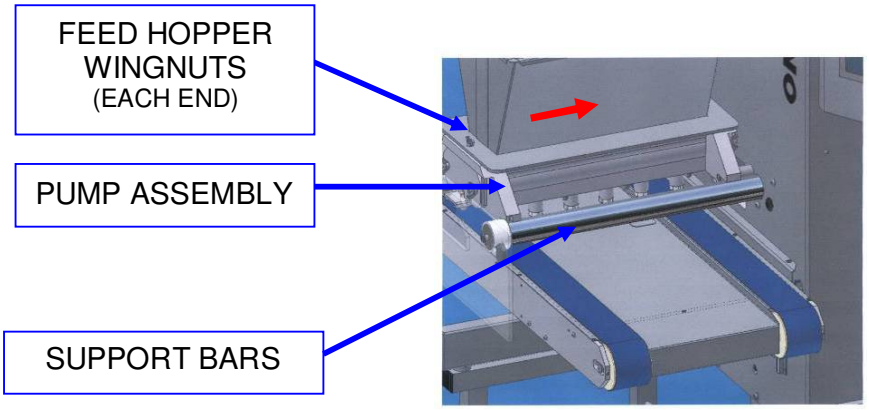
CAUTION SHOULD BE TAKEN WHEN FITTING HOPPER AND PUMP ASSEMBLY, AS WEIGHT EXCEEDS 25KGS ON SOME MODELS. It will need to be lifted on by two people, or dismantled into smaller components before fitting on the machine.
MAKE SURE FLOOR AREA AROUND MACHINE IS CLEAN

To reduce weight and bulk fit the complete hopper assembly in two stages - first the pump assembly onto the support bars, then the feed hopper body onto the pump assembly.

1 By hand, align pump assembly drive gear roller with drive shaft on machine.

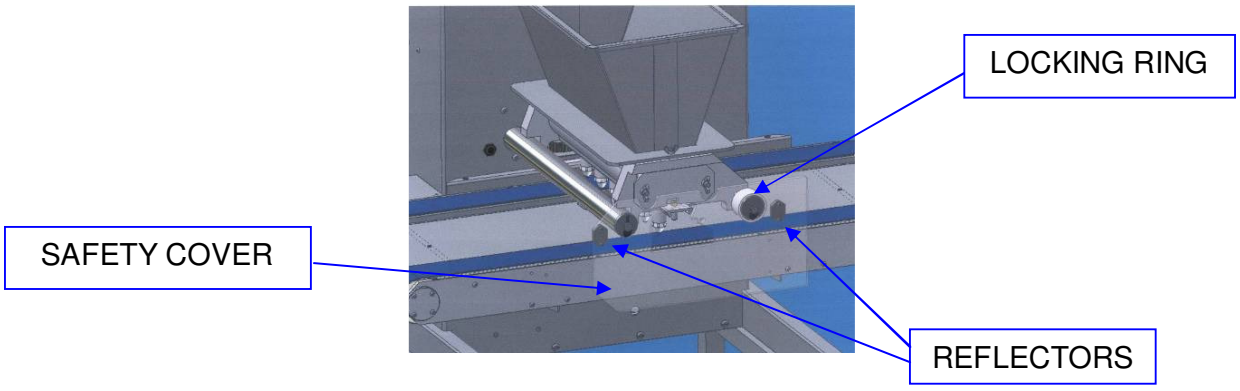
2 Fit hopper to pump assembly and secure with wing nuts.

3 Slide hopper on support bars until fully up against machine.



SOFT DOUGH

4 After the hopper is fitted, the hopper-locking ring **MUST BE** replaced on the support bar and safety cover replaced with the reflectors facing towards machine body. (The machine will not work without the cover in place).



DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED

BEFORE USING STRAIGHT & OFFSET NOZZLE HOLDERS "O" RINGS MUST BE FITTED

Nozzle holders provide the means of attaching standard plastic nozzles to the soft dough rotary templates and the sealing rings need to be fitted before using and may need replacing occasionally to ensure correct operation.

"O" RING PART NUMBER = A900-12-010 (SUPPLIED IN BAGS OF 20)

LOOP FIRST RING OVER END

SLIDE RING DOWN TO GROOVE

FIRST RING IN CORRECT POSITION

LOOP SECOND RING OVER END

SLIDE RING DOWN TO SECOND GROOVE, PASSING OVER FIRST RING

SECOND RING IN CORRECT POSITION

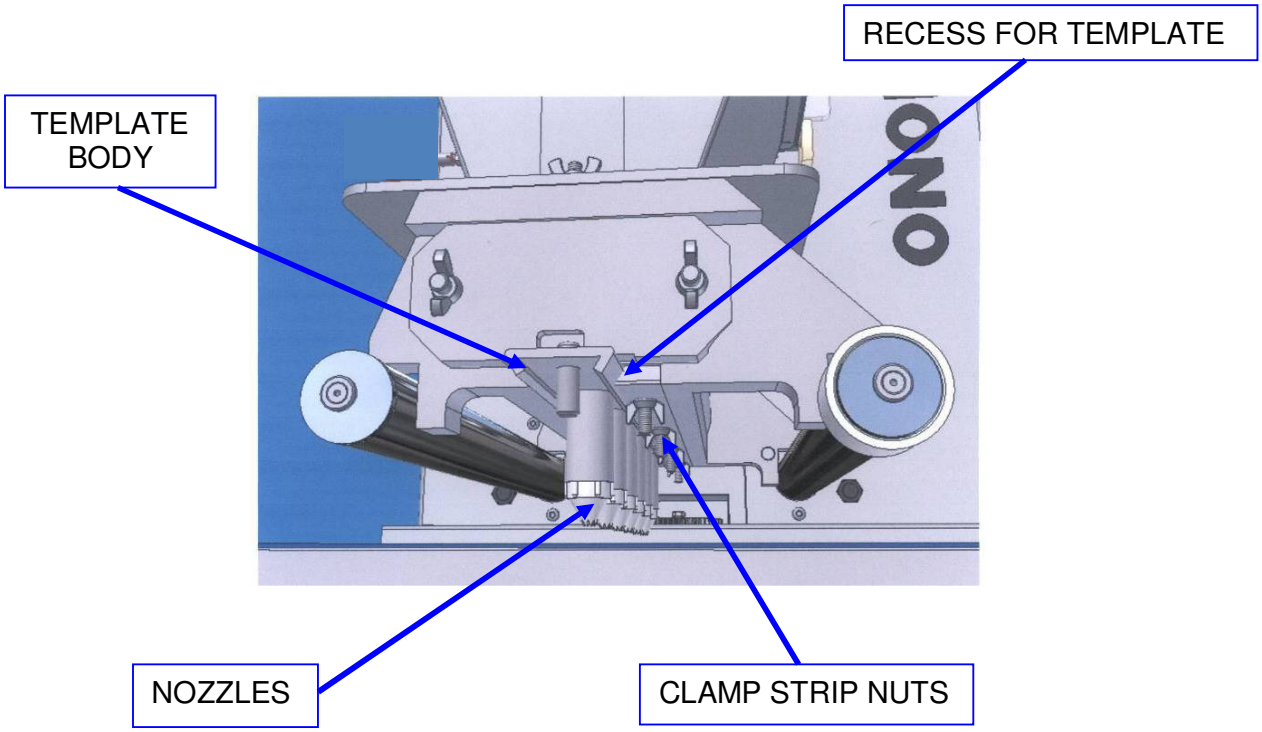
9b FITTING A TEMPLATE

- **Soft dough**

  Non-rotary templates that can be fitted with nozzles, requires screwing the nozzles into the threaded holes provided.
  Rotary templates can have plastic nozzles screwed into nozzle holders (straight or offset).
  OR
  Metal nozzles secured in place by a separate nut.

1 Select template and nozzles required.
(Nozzles are not required for sheeting, staggered or stub templates)

2 Attach nozzles to template body:



3 Slide template into matching recess at base of pump assembly until the stop is in position.

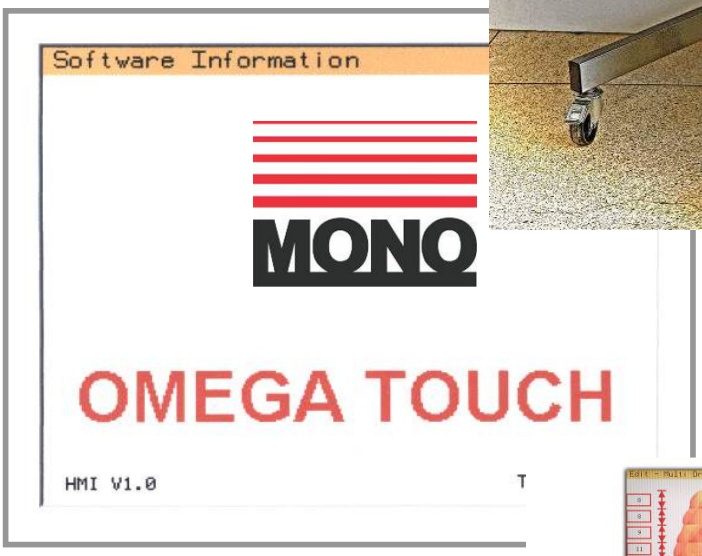
4 Tighten nuts on clamp strip (on underside of pump assembly) to secure template.

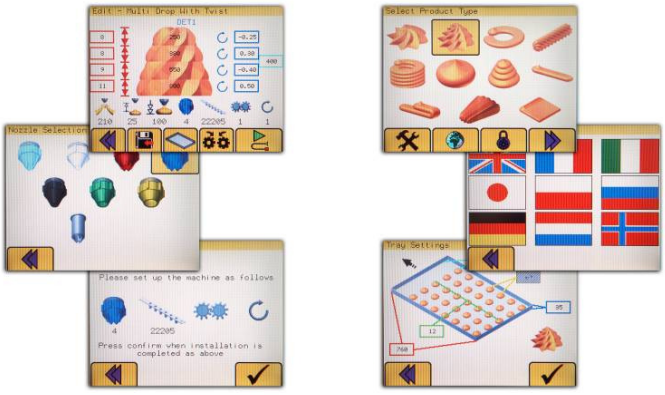
NOTE. *If the nuts are not securely tightened, leakage of mix will occur, affecting deposit weights.*

DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED

10.0 'OMEGA TOUCH' OPERATION

Omega Touch





ALL OPERATIONS ARE ACTIVATED BY TOUCHING AREAS ON THE SCREEN WITH A FINGER.
DO NOT USE EXCESSIVE FORCE OR HARD OBJECTS AS THIS WILL INVALIDATE MACHINE WARRANTY.

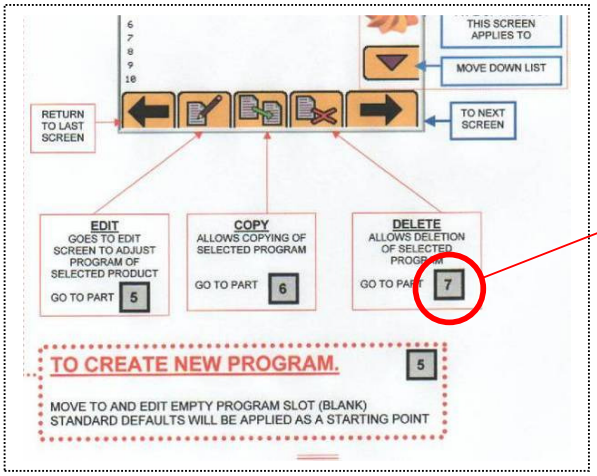
OPERATING KEY
FOR FOLLOWING INSTRUCTIONS

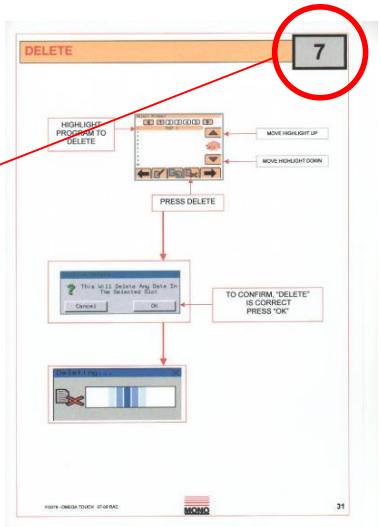
BLUE = **OPERATION**		FOLLOW BLUE ARROWS AND BOXES TO OPERATE THE DEPOSITOR WITH ALREADY SAVED PROGRAMS
RED = **CHANGE SETTINGS**		FOLLOW RED ARROWS AND BOXES TO CHANGE SETTINGS AND CREATE NEW PROGRAMS
	= **KEYBOARD ENTRY REQUIRED**	WHEN KEYBOARD APPEARS, A CODE MUST BE ENTERED BY TOUCHING THE NUMBERS IN THE CORRECT ORDER

IF A GREY BOX IS SHOWN IN THE BUTTON DESCRIPTION

e.g. 7 GO TO THE CORRESPONDING PAGE FURTHER ON IN THE INSTRUCTIONS.

(MARKED IN TOP RIGHT HAND CORNER OF EACH PAGE)





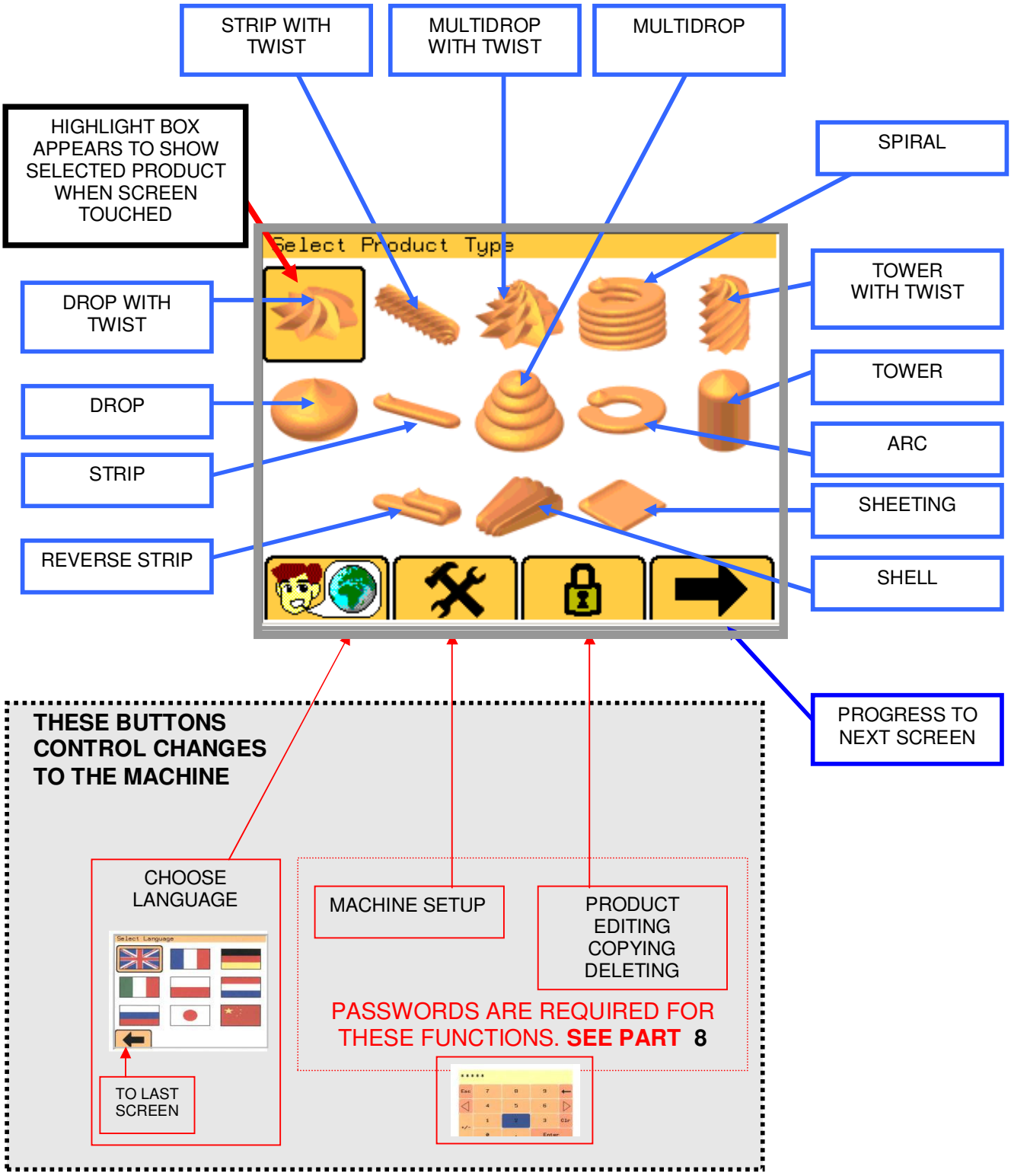
SELECT PRODUCT TYPE

SELECT PRODUCT TO DEPOSIT OR TO CREATE NEW PROGRAM

1

ALL OPERATIONS ARE ACTIVATED BY TOUCHING AREAS ON THE SCREEN WITH A FINGER.
DO NOT USE EXCESSIVE FORCE OR HARD OBJECTS AS THIS WILL INVALIDATE MACHINE WARRANTY.

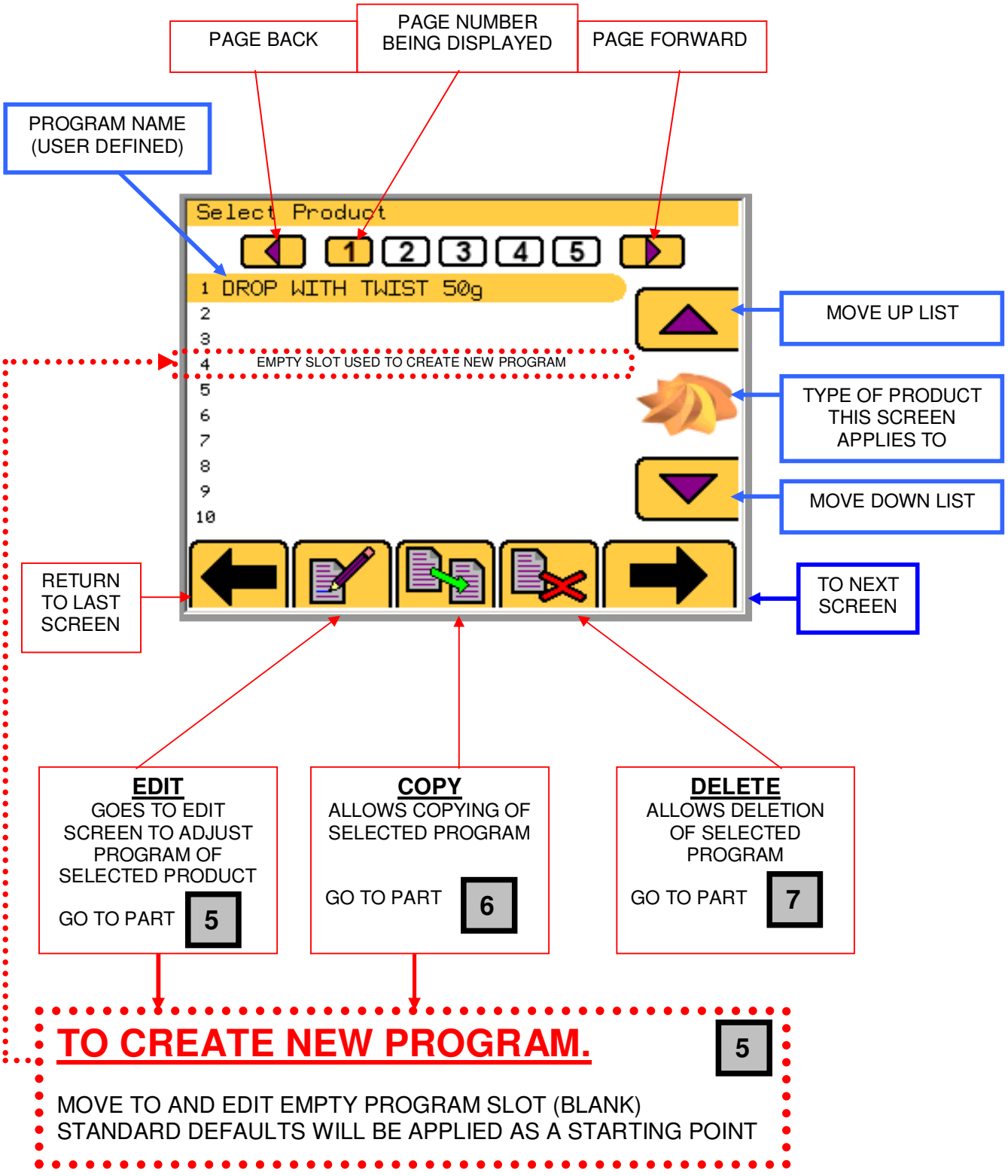
TOUCH THE SCREEN FOR THE TYPE OF PRODUCT REQUIRED THEN → TO MOVE TO NEXT SCREEN



SELECT SAVED PRODUCT TYPE

OR CHOOSE EMPTY SLOT TO CREATE A NEW PROGRAM

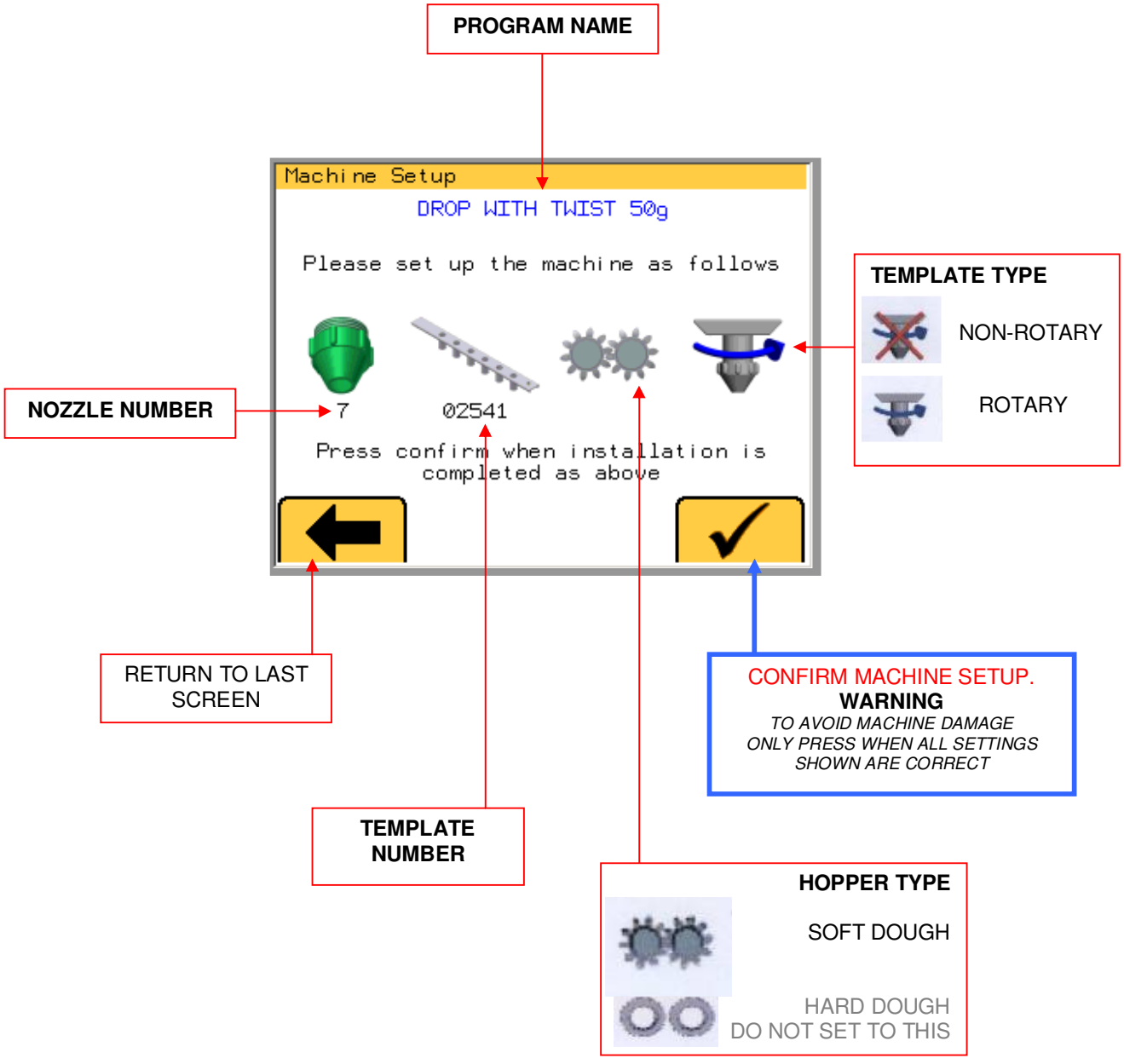
2



CONFIRM SETUP OF MACHINE

3

MACHINE MUST BE SET AS SHOWN ON THE SCREEN.
THEN PRESS CONFIRM BUTTON.

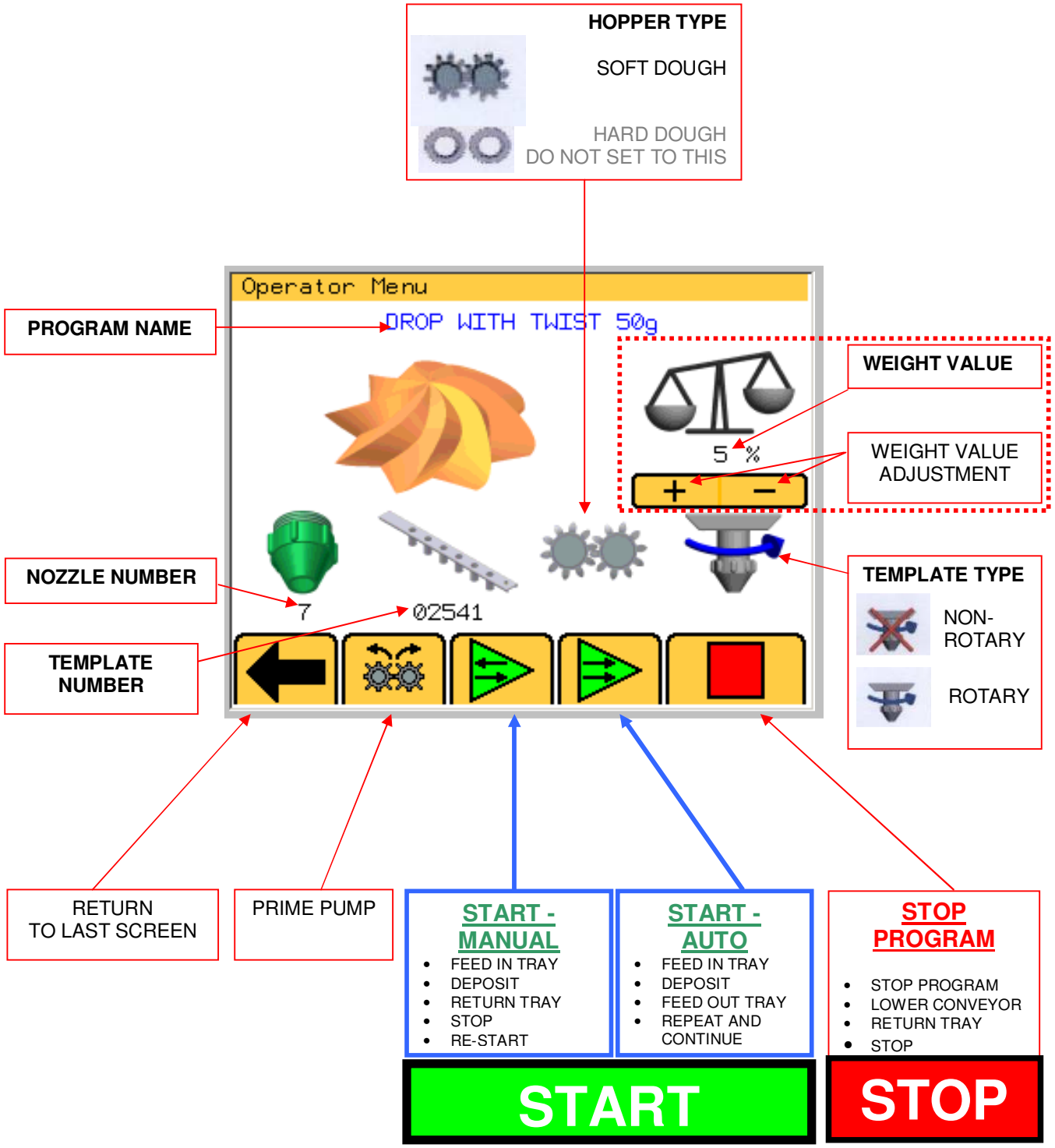


TO AVOID MACHINE DAMAGE
ONLY PRESS CONFIRM BUTTON WHEN ALL PARTS ATTACHED TO THE MACHINE ARE AS SHOWN ON THE SCREEN

OPERATOR SCREEN

4

MACHINE IS SET AS SHOWN ON THE SCREEN.
THIS SCREEN CONTROLS THE ACTIONS REQUIRED BY THE OPERATOR.



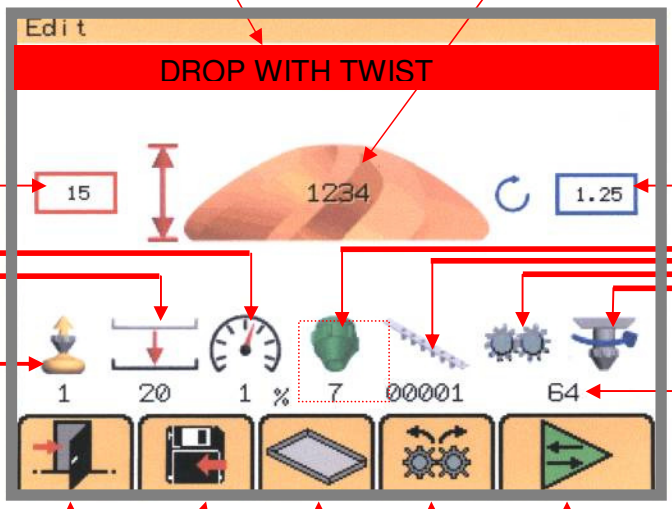
EDIT AND SAVE SCREEN

5

EXAMPLE:
DROP WITH TWIST

PROGRAM NAME
MUST BE ENTERED TO ALLOW PROGRAM TO SAVE

PRODUCT QUANTITY
THIS IS A SETTING NUMBER AND DOES NOT INDICATE A MEASURE OF ACTUAL VOLUME

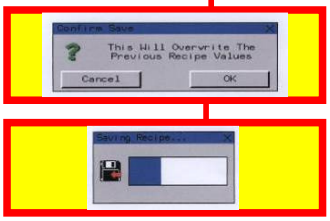


NOZZLE HEIGHT (mm)
ABOVE TRAY SURFACE

NOZZLE ROTATIONS
NUMBER OF TURNS DURING A DEPOSIT CYCLE

EXIT THIS SCREEN

SAVE EDITS



ENTER TRAY SETUP SCREEN

GO TO PART **5A**

MAX HEIGHT FOR HOPPER/TEMPLATE COMBINATION

START MANUAL MODE

PRIME PUMP
(SOFT DOUGH SHOWN)

NOTE
A RED BACKGROUND TO ANY SETTING MEANS THAT THE VALUE SHOULD BE CORRECTED

TEMPLATE TYPE
ROTARY
NON-ROTARY

SELECT HOPPER
SOFT DOUGH

TEMPLATE NUMBER
ENTER VIA KEYPAD THAT APPEARS WHEN PRESSED

SUCK BACK QUANTITY

CHOOSE NOZZLE TYPE

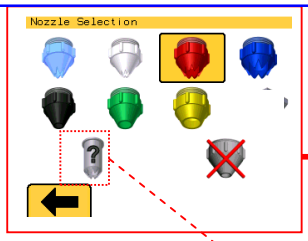
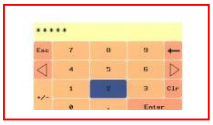


TABLE
JOG DISTANCE (mm)

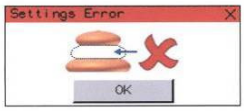
OVERALL
MACHINE SPEED
(% OF MAXIMUM)



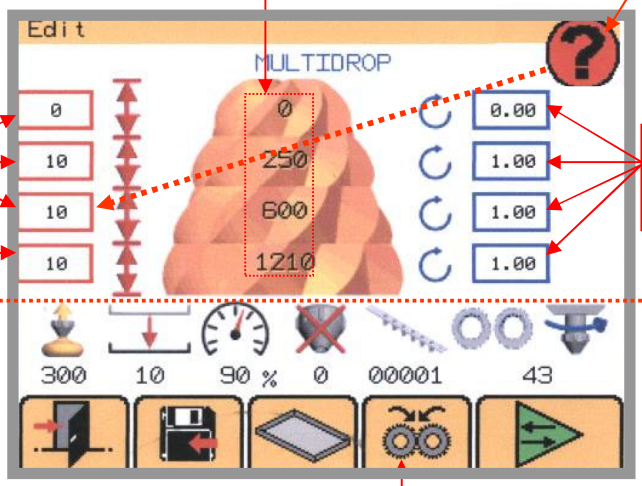
EXAMPLE: MULTIDROP WITH TWIST

SETTING ERROR INDICATOR

BOXES TURN RED WHEN INCORRECT SETTING IS MADE



DEPOSIT QUANTITY FOR EACH LAYER



NOZZLE HEIGHT (mm) FOR EACH LAYER

NOZZLE HEIGHT (mm) FROM TRAY SURFACE

NUMBER OF TURNS FOR EACH LAYER
(-VE VALUES POSSIBLE)

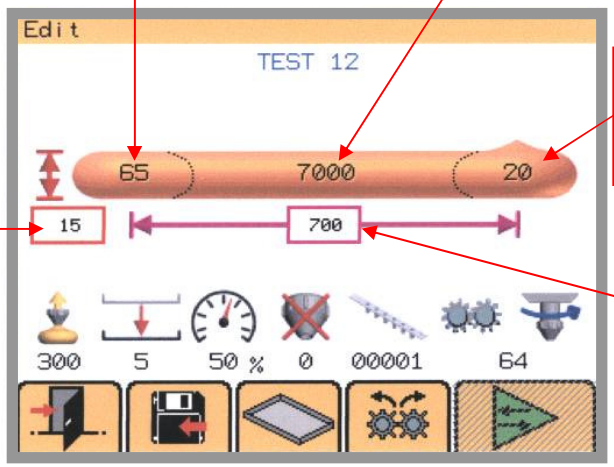
OTHER SETTING BUTTONS ARE THE SAME AS LAST PAGE

PRIME PUMP
(HARD DOUGH SHOWN)

EXAMPLE: SHEETING / STRIP

DEPOSIT QUANTITY FOR BEGINNING OF PRODUCT

DEPOSIT QUANTITY FOR LENGTH

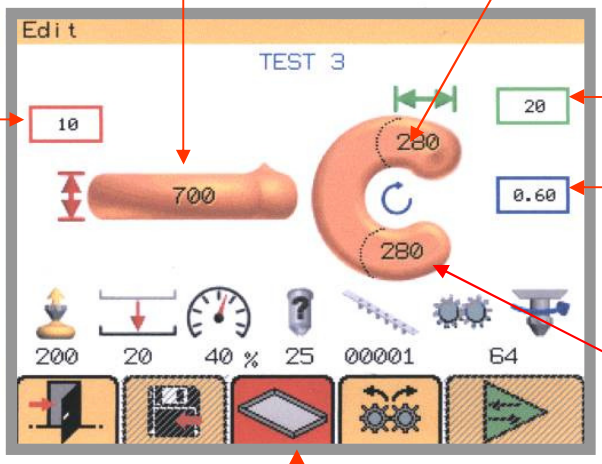


DEPOSIT QUANTITY FOR END OF PRODUCT
(-VE VALUES POSSIBLE)

NOZZLE HEIGHT ABOVE TRAY SURFACE

LENGTH (mm) OF TRAY MOVEMENT

EXAMPLE:
"C" SHAPE
(ARC)



DEPOSIT QUANTITY DURING ROTATION

DEPOSIT QUANTITY FOR END OF PRODUCT
(-VE VALUES POSSIBLE)

NOZZLE HEIGHT ABOVE TRAY SURFACE

RADIUS (mm) OF DEPOSIT

NOZZLE ROTATION
(NUMBER OF TURNS DURING DEPOSIT)

DEPOSIT QUANTITY FOR BEGINNING OF PRODUCT
(-VE VALUES POSSIBLE)

RED TRAY SETUP BUTTON FORCES USER TO ENTER AND CHECK TRAY SETUP VALUES (OTHER BUTTONS GREYED OUT)

GO TO PART **5A**

TRAY SETUP

5A

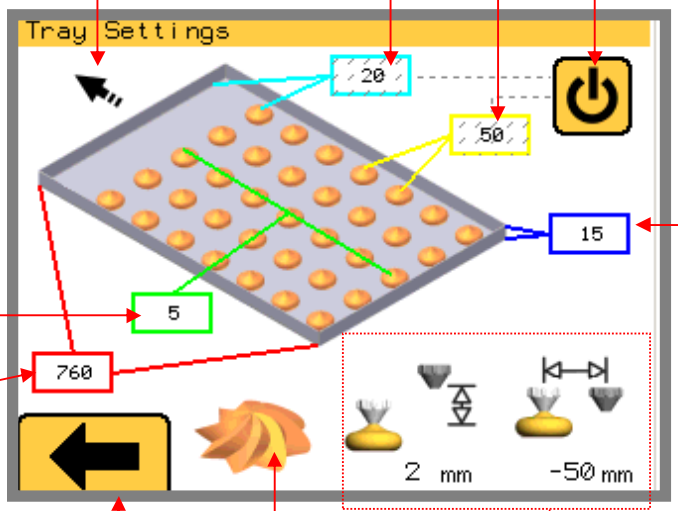
PRESS WINDOWS AND ENTER VALUES VIA KEYPAD

DISTANCE (mm) TO 1ST ROW ON TRAY
(WHEN USING MANUAL OVER-RIDE)

DISTANCE (mm) BETWEEN ROWS
(WHEN USING MANUAL OVER-RIDE)

DIRECTION OF TRAY MOVEMENT

MANUAL OVER-RIDE FOR ROW SPACING
ON/OFF



TRAY EDGE HEIGHT (mm)

NUMBER OF ROWS PER TRAY

TRAY LENGTH (mm)

TO LAST SCREEN

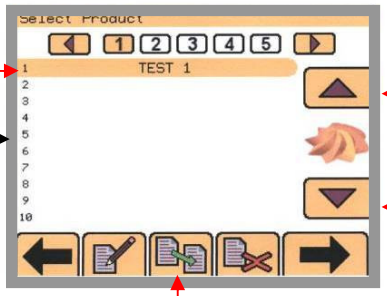
WIPE BACK BUTTON
(DISTANCE MOVED BY TRAY AFTER DEPOSIT)

PRODUCT TYPE

COPY

6

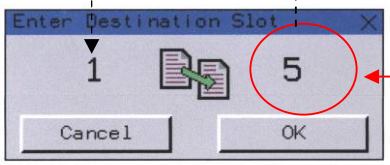
HIGHLIGHT PROGRAM TO COPY



MOVE HIGHLIGHT UP

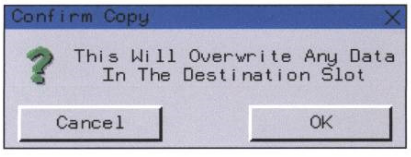
MOVE HIGHLIGHT DOWN

PRESS COPY

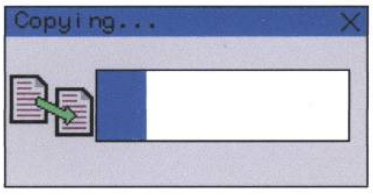


PRESS, THEN ENTER PROGRAM LIST POSITION REQUIRED TO COPY TO.

PRESS “OK”



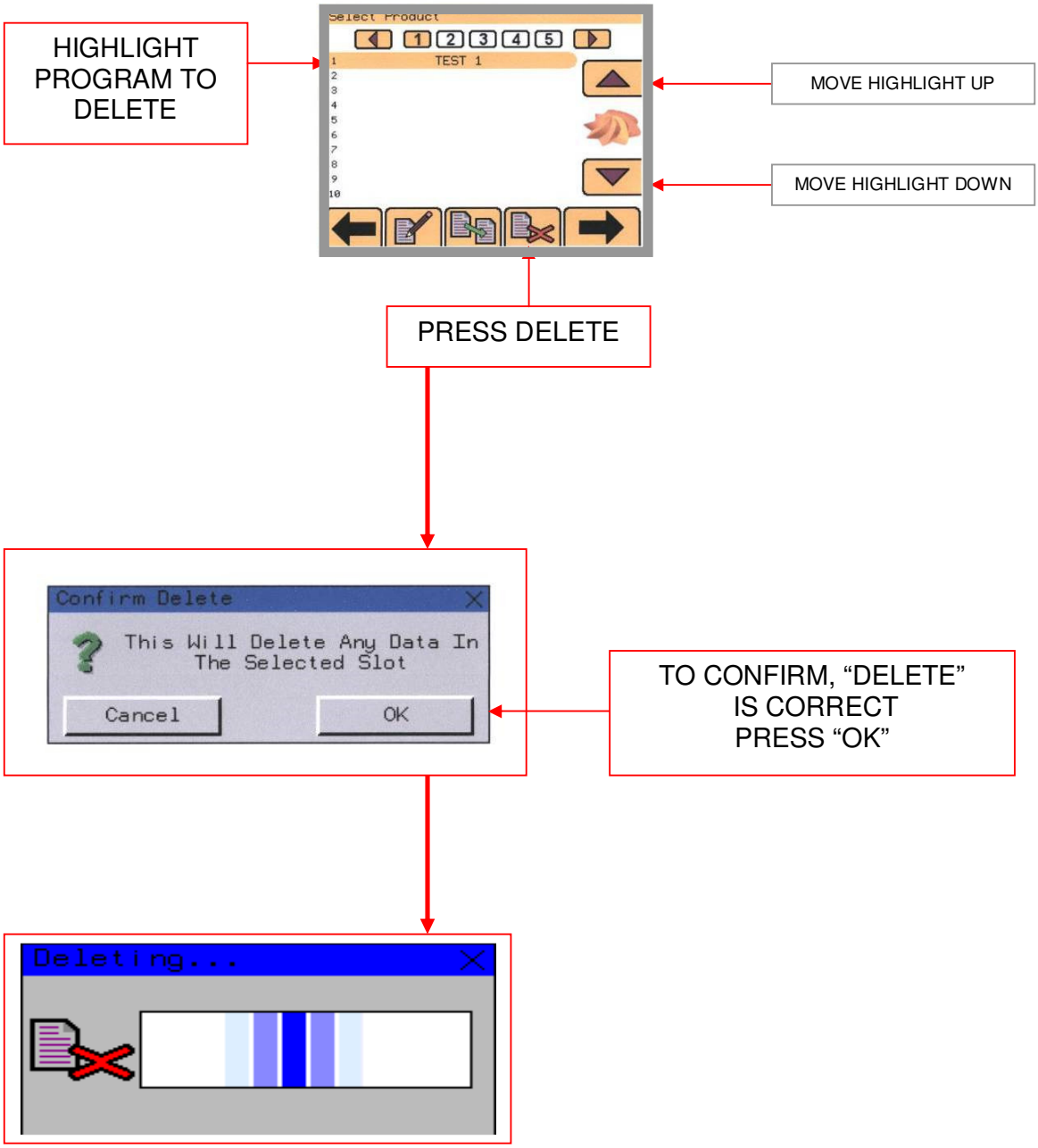
CONFIRM “COPY TO” POSITION IS CORRECT PRESS “OK”



PROGRAM DETAILS ARE COPIED TO NEW LOCATION

DELETE

7

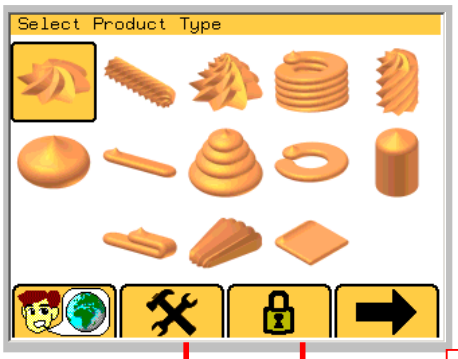

HIGHLIGHT PROGRAM TO DELETE
Select Product
1 2 3 4 5
1 TEST 1
2
3
4
5
6
7
8
9
10
MOVE HIGHLIGHT UP
MOVE HIGHLIGHT DOWN
PRESS DELETE
Confirm Delete
This Will Delete Any Data In The Selected Slot
Cancel
OK
TO CONFIRM, “DELETE” IS CORRECT PRESS “OK”
Deleting...

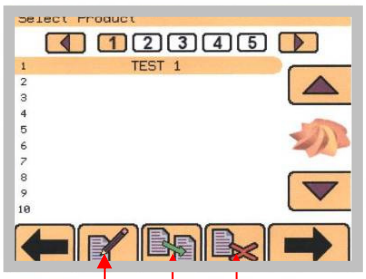
PASSWORDS

8

CAUTION

DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS



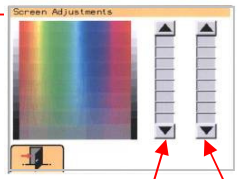


1111	2222
EDIT/COPY	EDIT/COPY DELETE

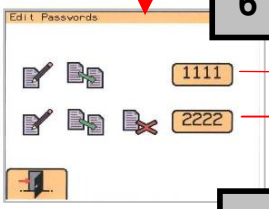
5
6
7

561234

1234 – SCREEN ADJUSTMENT



FINE / COARSE



6 CHANGE EDIT/COPY PASSWORD

CHANGE EDIT/COPY/DELETE PASSWORD 7

OR

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

3142–ENGINEERING SETTINGS

9

OR

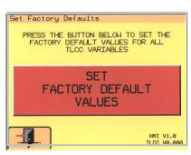
THIS SECTION IS FOR TRAINED ENGINEERS ONLY

2808--DIAGNOSTICS

OR

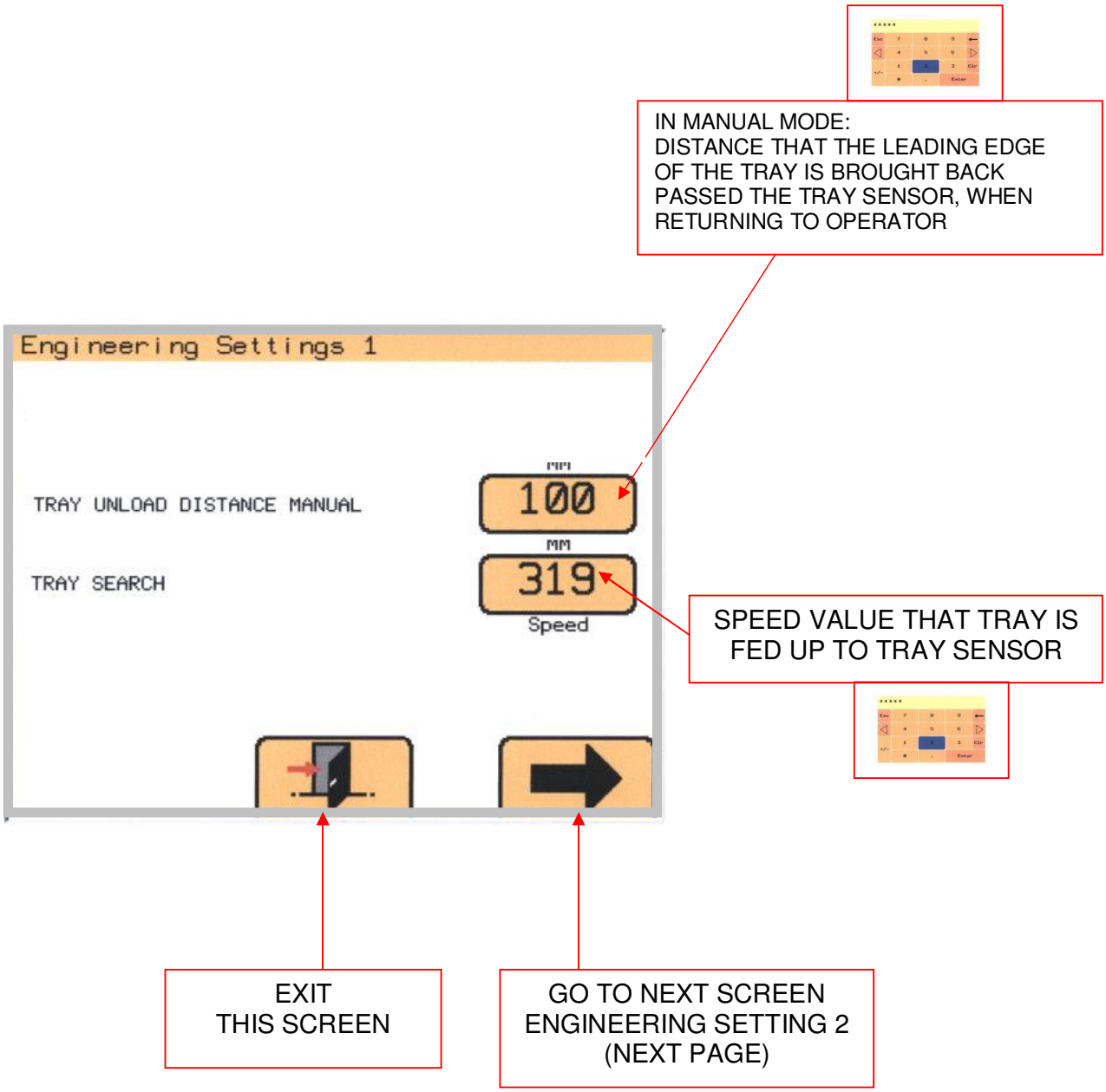
THIS SECTION IS FOR TRAINED ENGINEERS ONLY

01554777460
RESET FACTORY DEFAULTS



ENGINEERING SETTINGS (1)

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

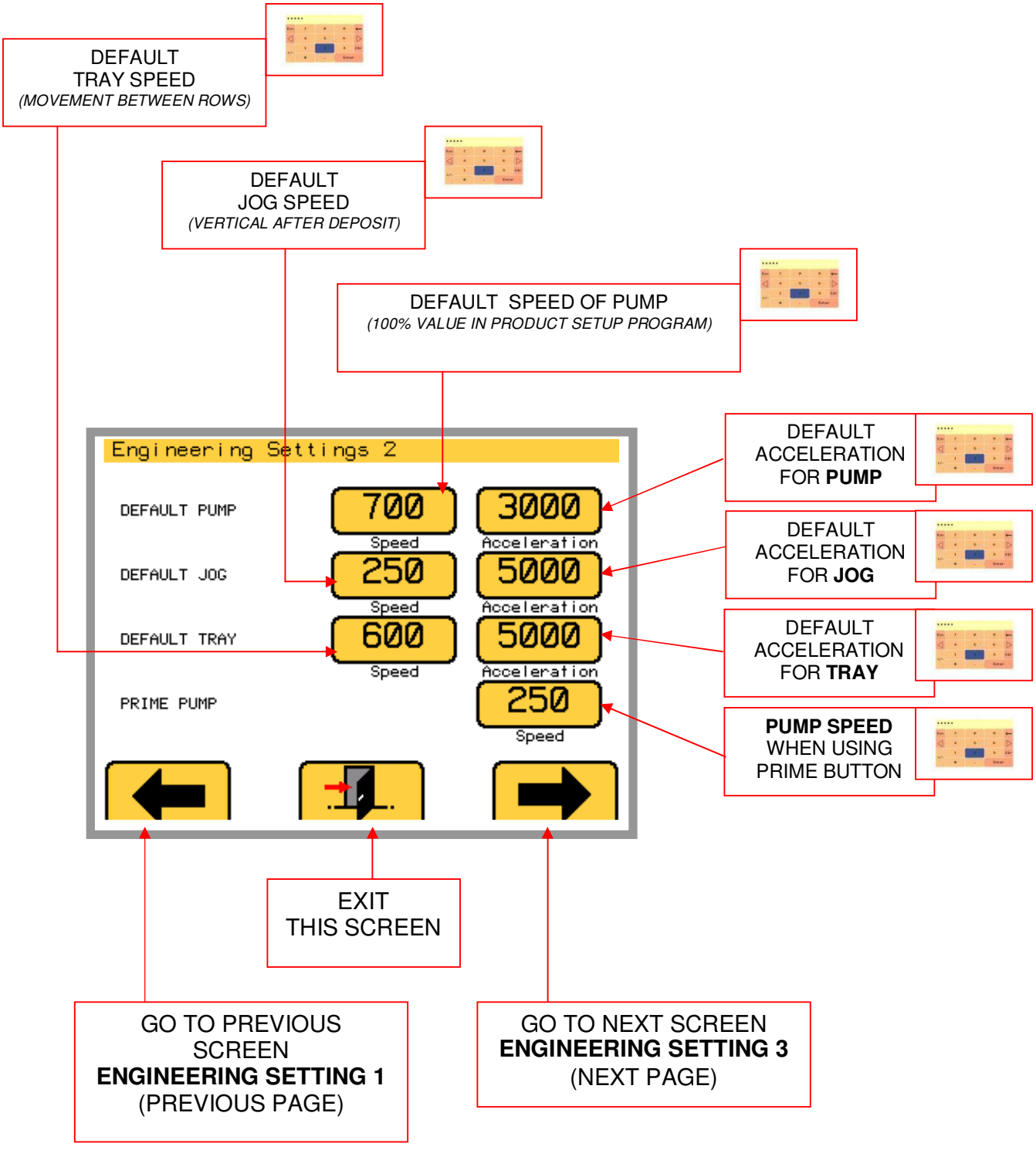


CAUTION

DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS

ENGINEERING SETTINGS (2)

THIS SECTION IS FOR TRAINED ENGINEERS ONLY



CAUTION

DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS

ENGINEERING SETTINGS (3)

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

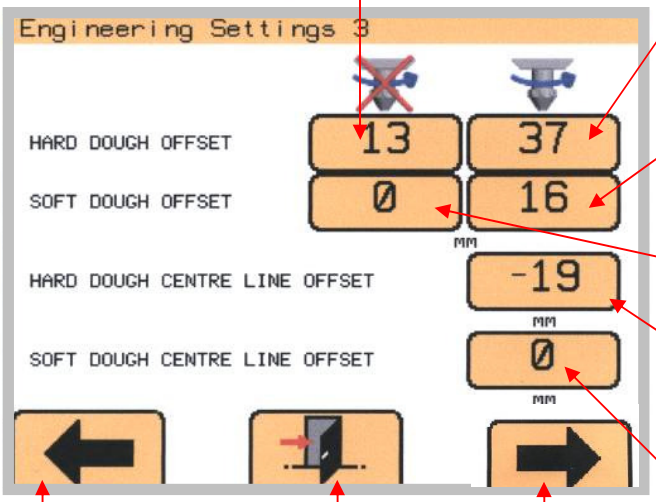
OFFSET HEIGHT VALUE IS FACTORY SET AND SHOULD NOT BE CHANGED UNLESS INSTRUCTED TO DO SO. DAMAGE TO THE MACHINE COULD OCCUR

OFFSET HEIGHT VALUE (mm) **HARD** DOUGH HOPPER **NON-ROTARY** TEMPLATE

OFFSET HEIGHT VALUE (mm) **HARD** DOUGH HOPPER **ROTARY** TEMPLATE

OFFSET HEIGHT VALUE (mm) **SOFT** DOUGH HOPPER **ROTARY** TEMPLATE

OFFSET HEIGHT VALUE (mm) **SOFT** DOUGH HOPPER **NON-ROTARY** TEMPLATE



DISTANCE (mm) FROM **HARD** DOUGH HOPPER DEPOSITING CENTRELINE TO TRAY EDGE DETECTION POINT
(USED IN ROW SPACING CALCULATIONS)

DISTANCE (mm) FROM **SOFT** DOUGH HOPPER DEPOSITING CENTRELINE TO TRAY EDGE DETECTION POINT
(USED IN ROW SPACING CALCULATIONS)

EXIT THIS SCREEN

GO TO PREVIOUS SCREEN **ENGINEERING SETTING 2** (PREVIOUS PAGE)

GO TO NEXT SCREEN **ENGINEERING SETTING 4** (NEXT PAGE)

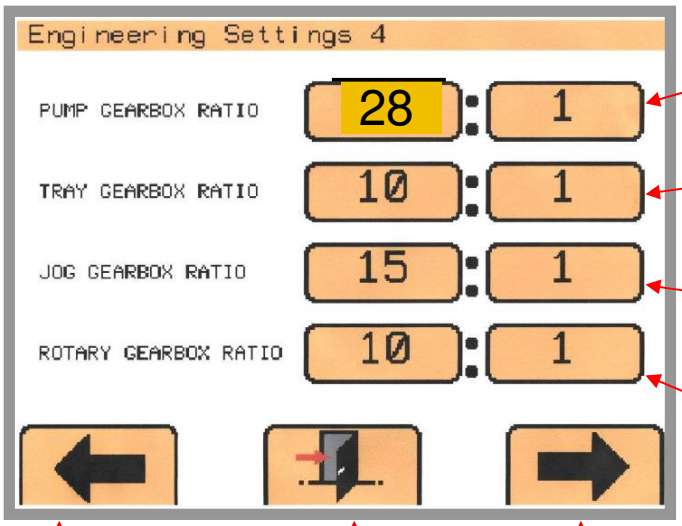
CAUTION

DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS

ENGINEERING SETTINGS (4)

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

GEARBOX RATIOS



PUMP

TRAY

JOG

ROTARY

EXIT
THIS SCREEN

GO TO PREVIOUS SCREEN
ENGINEERING SETTING 3
(PREVIOUS PAGE)

GO TO NEXT SCREEN
ENGINEERING SETTING 5
(NEXT PAGE)

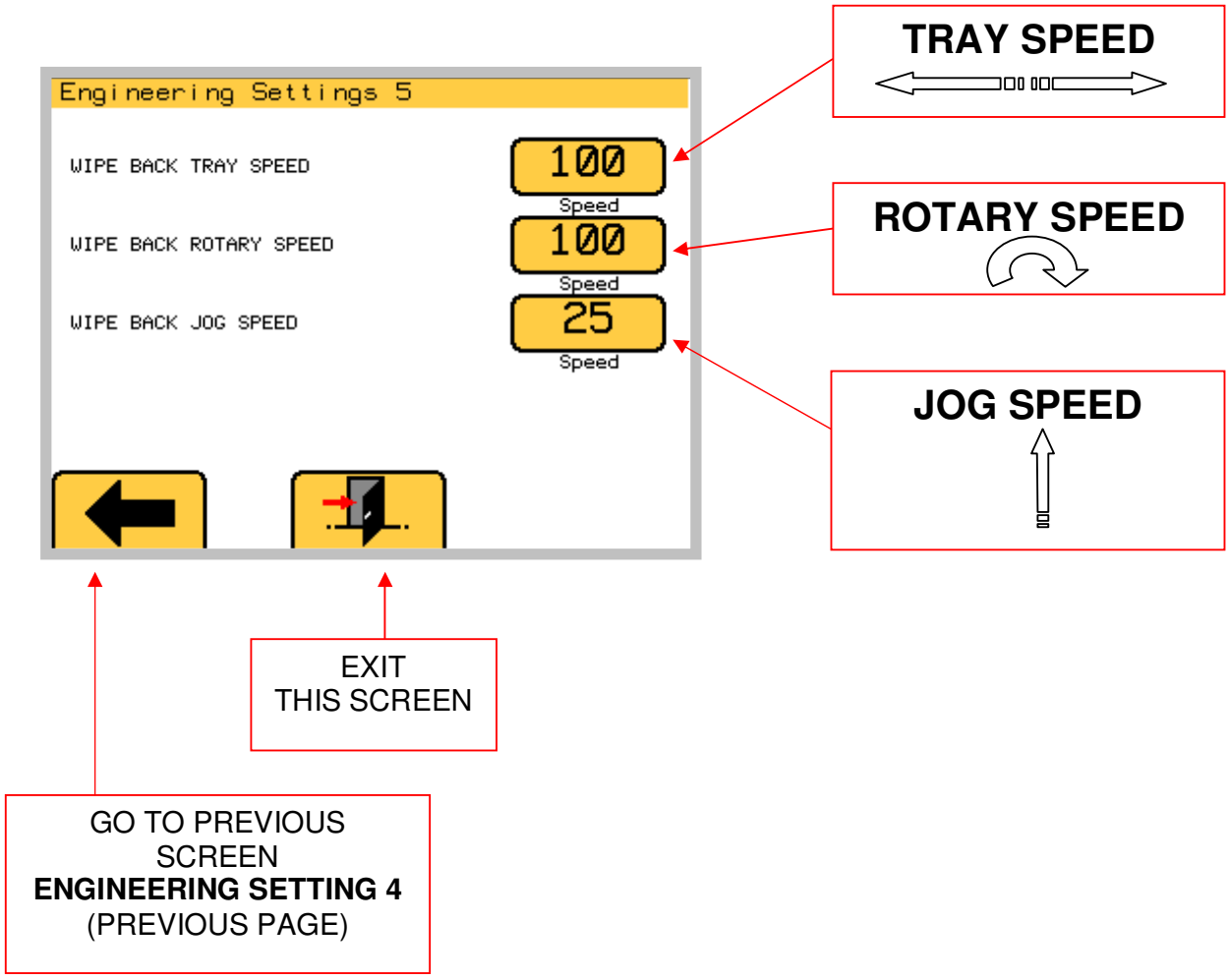
CAUTION

DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS

ENGINEERING SETTINGS (5)

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

WIPE BACK DEFAULT SETTINGS (SEE 5A)

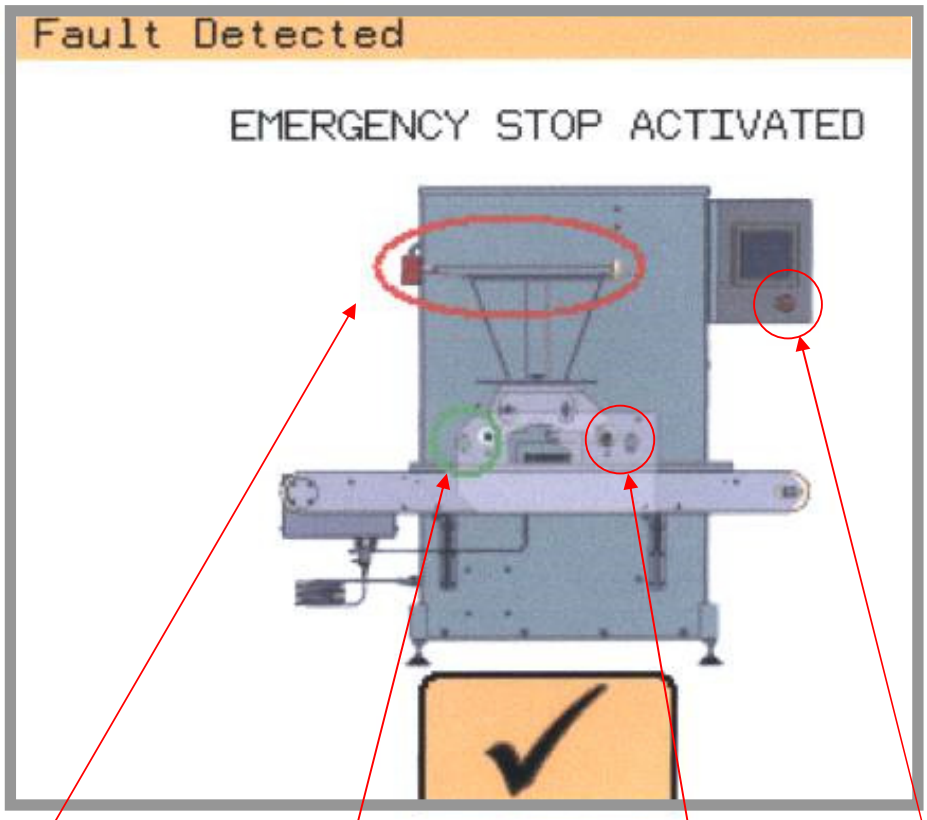


CAUTION

DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS

FAULT INFORMATION SCREENS

10



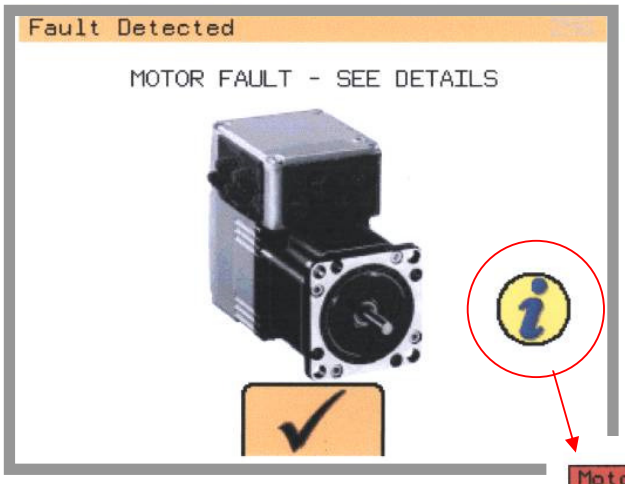
HOPPER COVER | SAFETY BEAM | SAFETY BEAM | STOP BUTTON

THIS SCREEN INDICATES A FAULT CONDITION IN THE SAFETY AREAS.

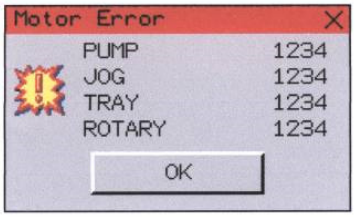
WHEN RED, CLOSE COVER OR CLEAR OBSTRUCTIONS TO CLEAR FAULT.
WHEN INDICATOR GOES GREEN, FAULT HAS BEEN CORRECTED AT THAT POSITION.

PRESS ✓ BUTTON TO CLEAR SCREEN

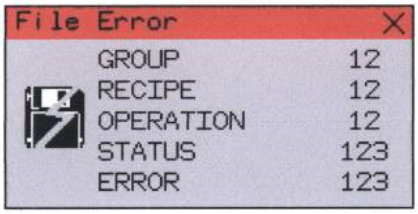
IF THE FOLLOWING SCREEN APPEARS, CHECK THAT THE TABLE MOVEMENT ETC. IS NOT JAMMED WITH SOMETHING. IF IT IS, CLEAR THE OBSTRUCTION AND PRESS ✓ TO PROCEED.



PRESS THIS BUTTON IF MORE INFORMATION IS REQUIRED AS TO WHICH MOTOR IS AT FAULT



IF THE FAULT IS NOT OBVIOUS AND NOT ABLE TO BE CLEARED SAFELY, A SUITABLY TRAINED ENGINEER SHOULD BE CALLED



ERROR WHEN LOADING/SAVING RECIPE DATA TO HMI STORAGE CARD

PLEASE CONTACT SERVICE DEPT. / ENGINEER IF PROBLEM PERSISTS

11.0 MAINTENANCE

Under most conditions the machine only needs to be kept clean and used as instructed in this manual.

WARNING: DO NOT UNDER ANY CIRCUMSTANCES USE A WATER HOSE OR PRESSURE WASHER TO CLEAN THIS MACHINE.

Mono Omega Touch

Check and Maintenance Schedule

Operation	Daily	weekly	3 monthly	Yearly
Clean depositor as per instructions in manual	*			
Check condition of supply lead and plug	*			
check fit of guards	*			
Clean under conveyor belts		*		
Check hopper seals		*		
Check end cap seals		*		
Check condition and tension of conveyor, adjust / replace as required			*	
Check end cap bearings			*	
check alignment of sensors on guards			*	
Check tray sensor is secure			*	
Check condition of idle roller bearings				*
Check condition of drive shaft bearings				*
Check condition and tension of chain and grease as required				*
Grease slides as required				*
adjust eccentric guide rollers as required				*
adjust concentric guide rollers as required				*
Check and grease all slide plates as required				*
Check all motor mounts are tight				*
inspect electrical connections and tighten as required				*

Under no circumstances should maintenance or cleaning of this machine be done with the power connected

12.0 SPARES AND SERVICE

.

If a fault arises, please do not hesitate to contact the
Customer Service Department, quoting the **machine serial number**
found on the silver information plate of the machine and on the front cover of this manual

UK SERVICE, SPARES and OVERSEAS SUPPORT:

Queensway
Swansea West Industrial Estate
Swansea. SA5 4EB UK

email:spares@monoequip.com
Web site:www.monoequip.com

Spares Tel. +44(0)1792 564039
Main Tel. +44(0)1792 561234
Fax. 01792 561016

13.0 SPARES

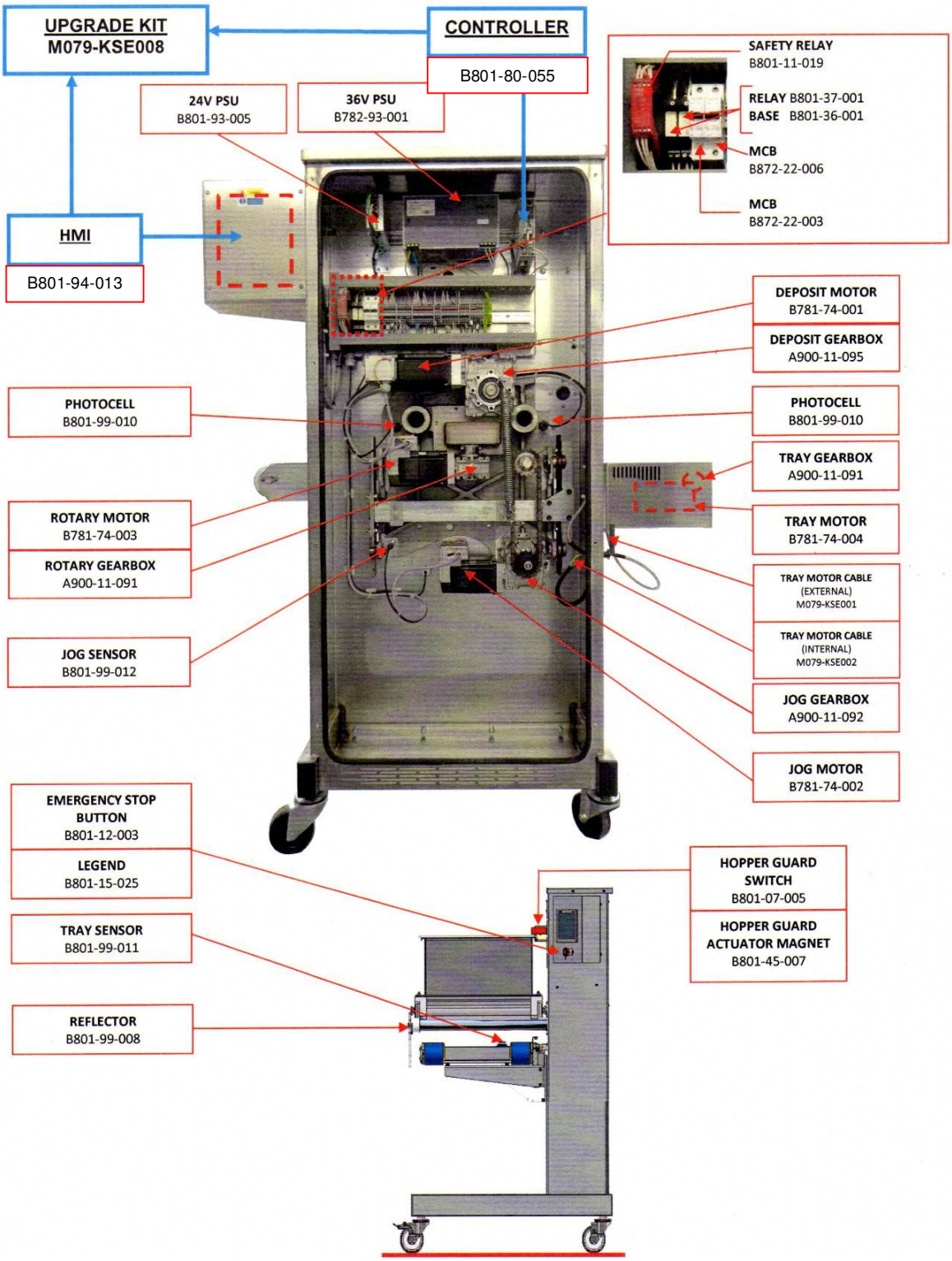
BASE MACHINE SPARES LIST

Omega TOUCH

Spares Item Description	Mono Part No.	Qty Req. per M/C
Deposit Gearbox	A900-11-095	1
Jog Gearbox	A900-11-092	1
Rotary Gearbox	A900-11-091	1
Tray Gearbox	A900-11-091	1
Concentric Guide Roller	A900-06-274	2
Eccentric Guide Roller	A900-06-273	2
V Slide	078-03-00016	1
Jog Drive Chain	A900-08-066	1
Simplex Sprocket 16T 1/2" Pitch	A900-07-071	1
Idler Sprocket 16T 1/2" Pitch	A900-07-072	1
Circlip-Ext Metric 14mm Dia	A900-01-280	1
Circlip-Ext Metric 24mm Dia	A900-01-193	1
Drive Shaft – Hopper	078-03-00015	1
Rotary Drive Shaft	078-03-00011	1
Drive Gear - Rotary Template	078-03-00010	1
Lip Seal (Rotary Drive Shaft)	A900-12-075	1
Lip Seal (Deposit Drive Shaft)	A900-12-079	1
End Guard	078-11-00036	1
(Earlier plastic version	078-11-00005)	
Retainer – End Guard	078-11-00035	2
(Earlier plastic version	078-11-00002)	
Spacer – 450mm/580mm Hopper	078-11-00003	1
Spacer – 400mm Hopper	078-11-00004	1
Seal-Rear Cover	A900-25-309	1

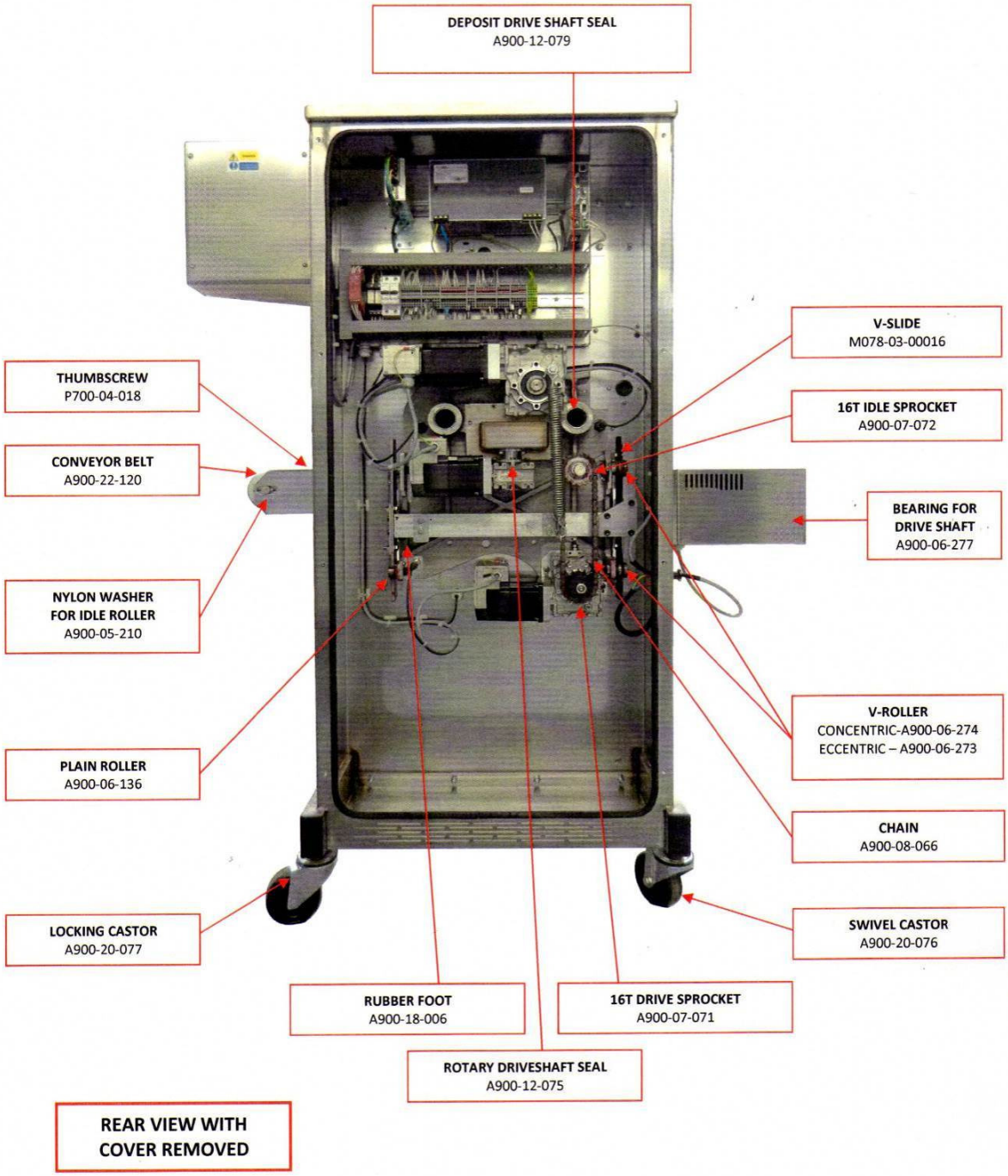
ELECTRICAL COMPONENT LAYOUT PARTS

Omega TOUCH



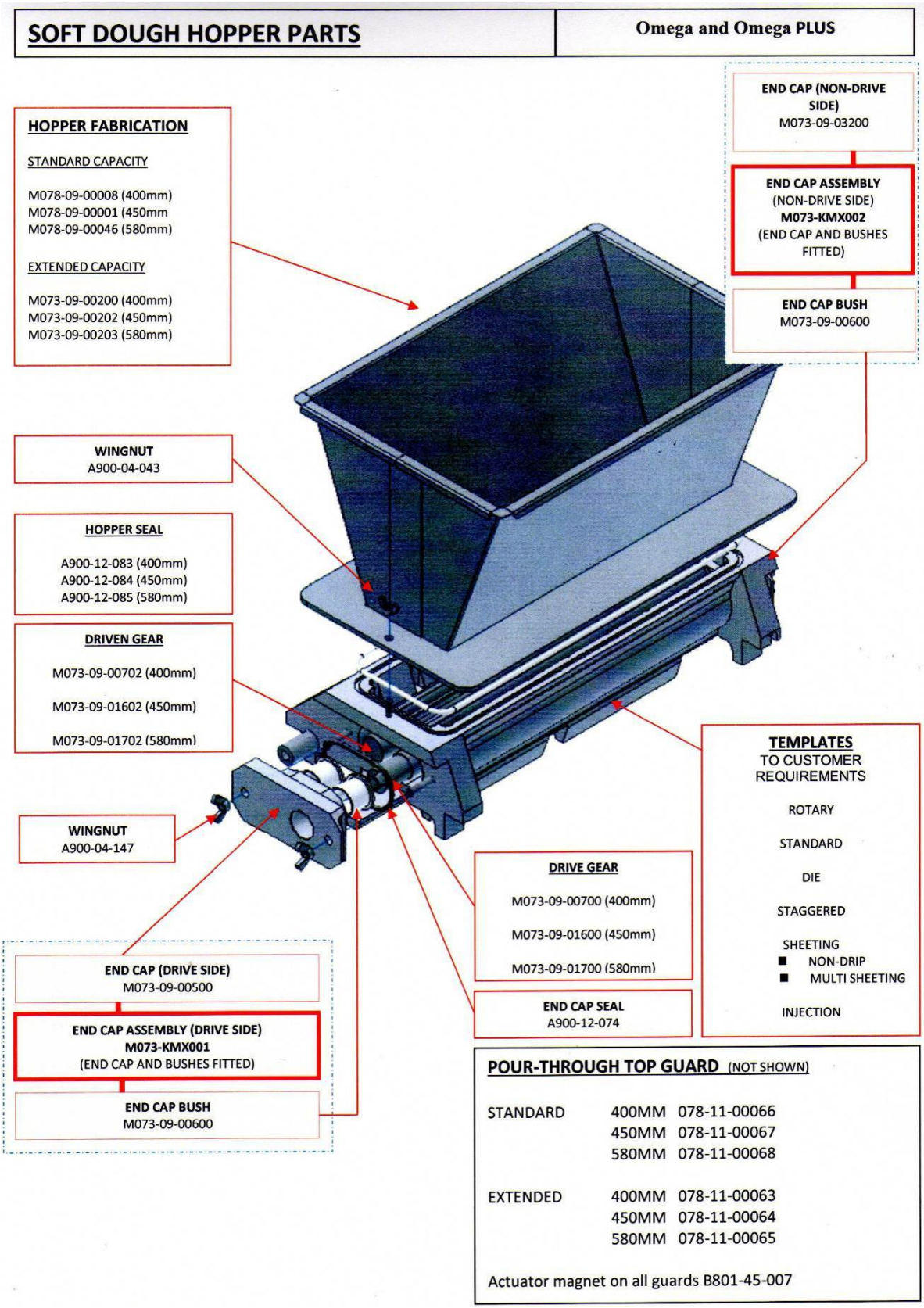
MECHANICAL COMPONENT LAYOUT PARTS

Omega TOUCH



SOFT DOUGH HOPPER PARTS

Omega and Omega PLUS

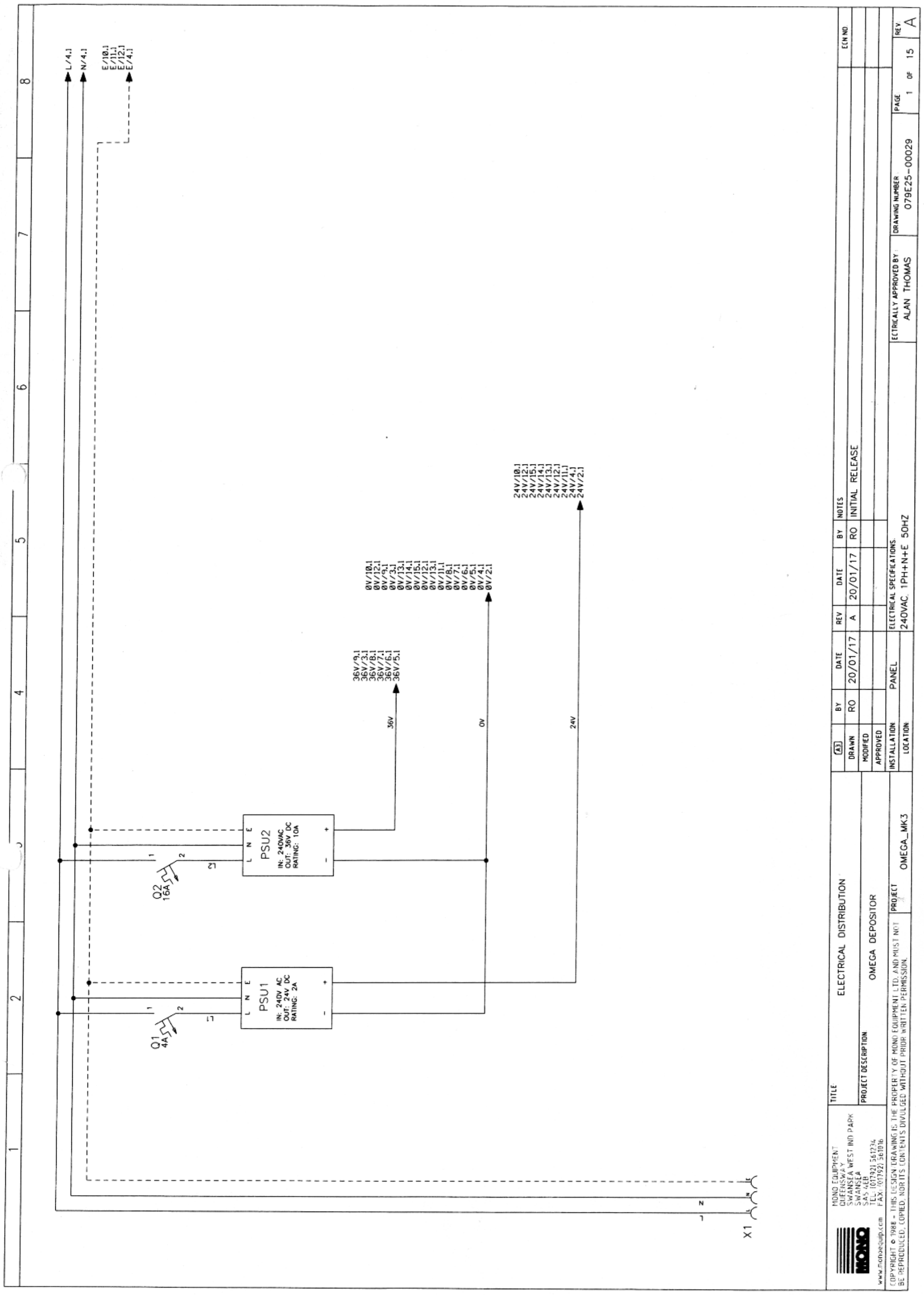


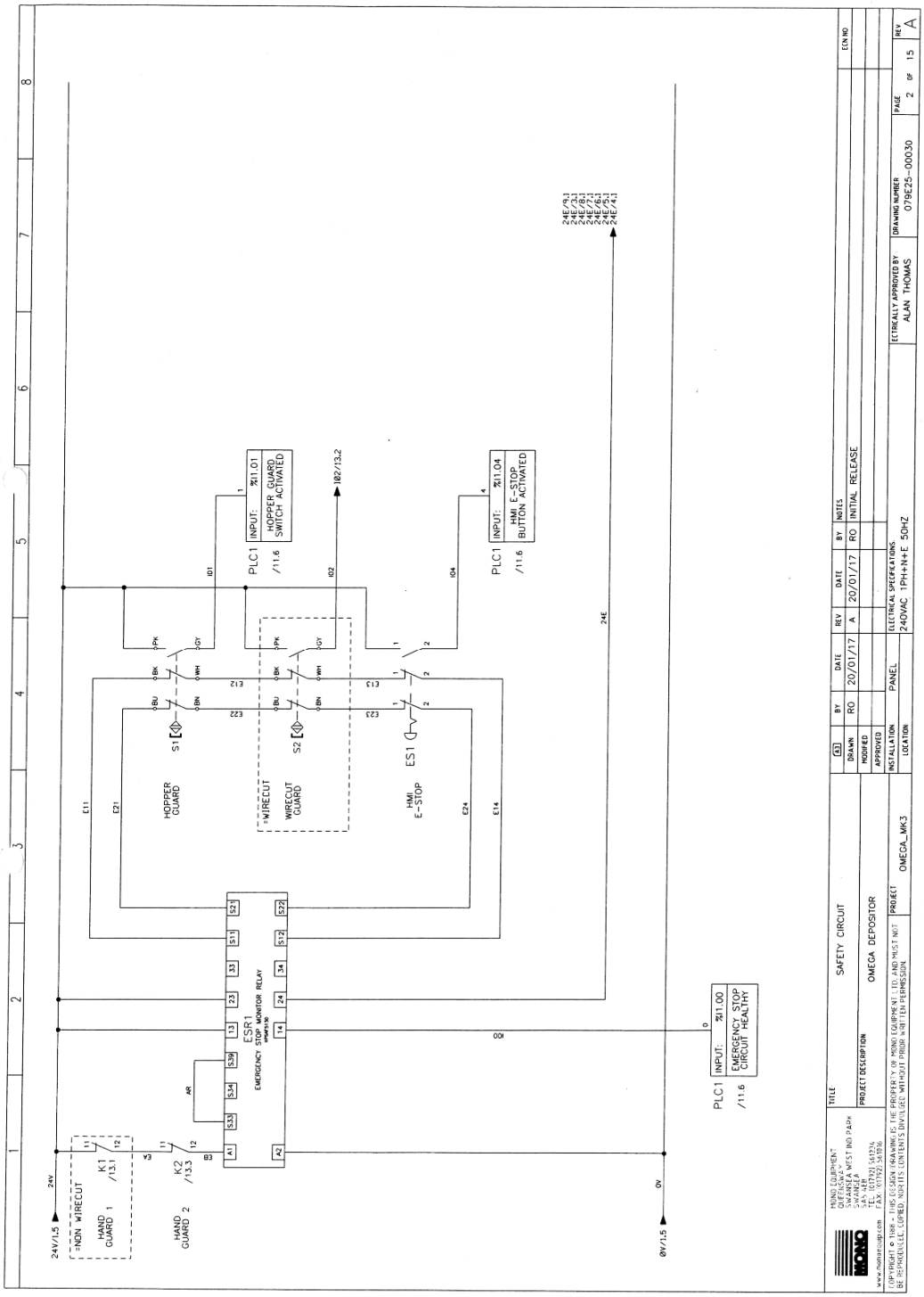
POUR-THROUGH TOP GUARD (NOT SHOWN)

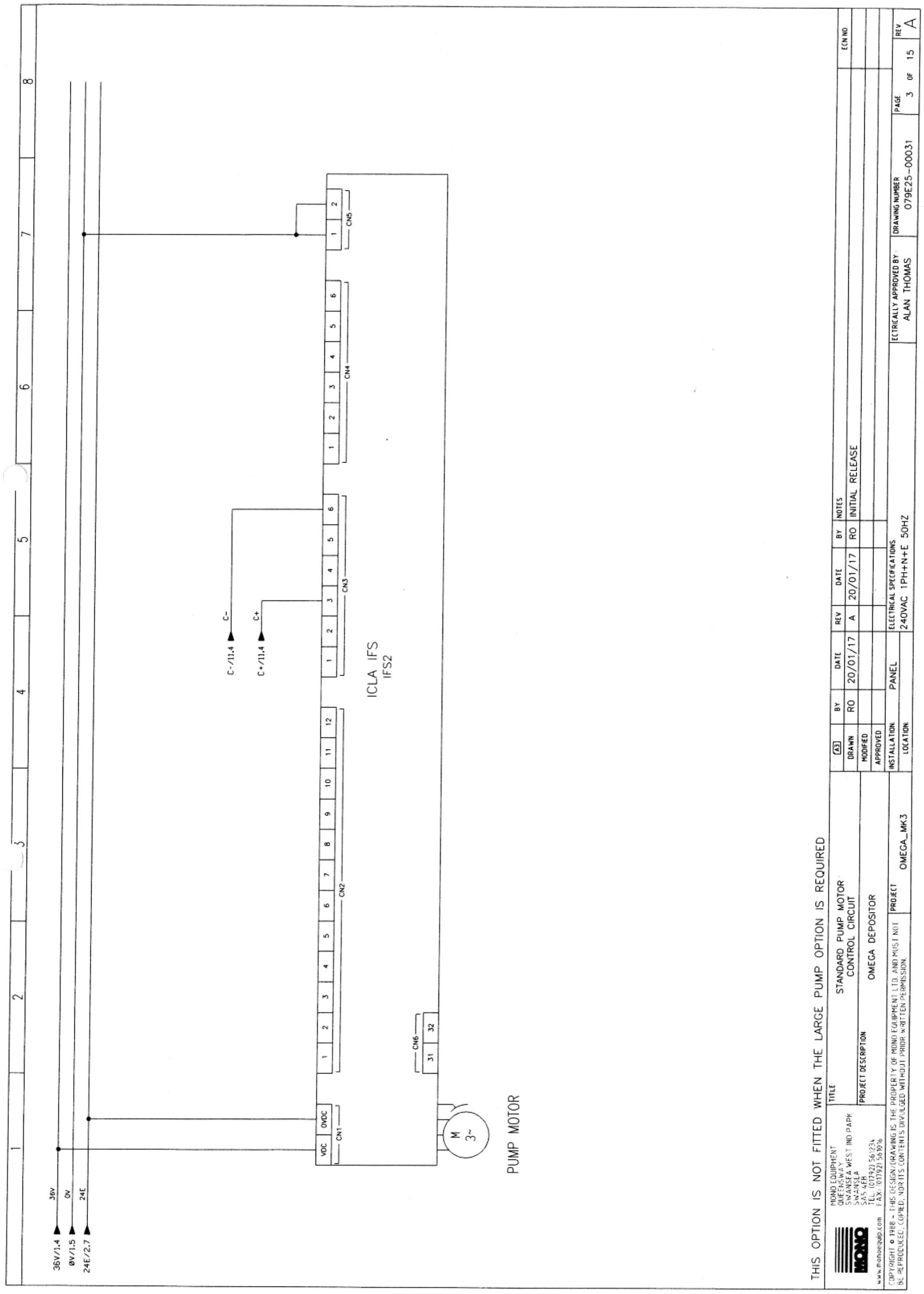
STANDARD	400MM	078-11-00066
	450MM	078-11-00067
	580MM	078-11-00068
EXTENDED	400MM	078-11-00063
	450MM	078-11-00064
	580MM	078-11-00065

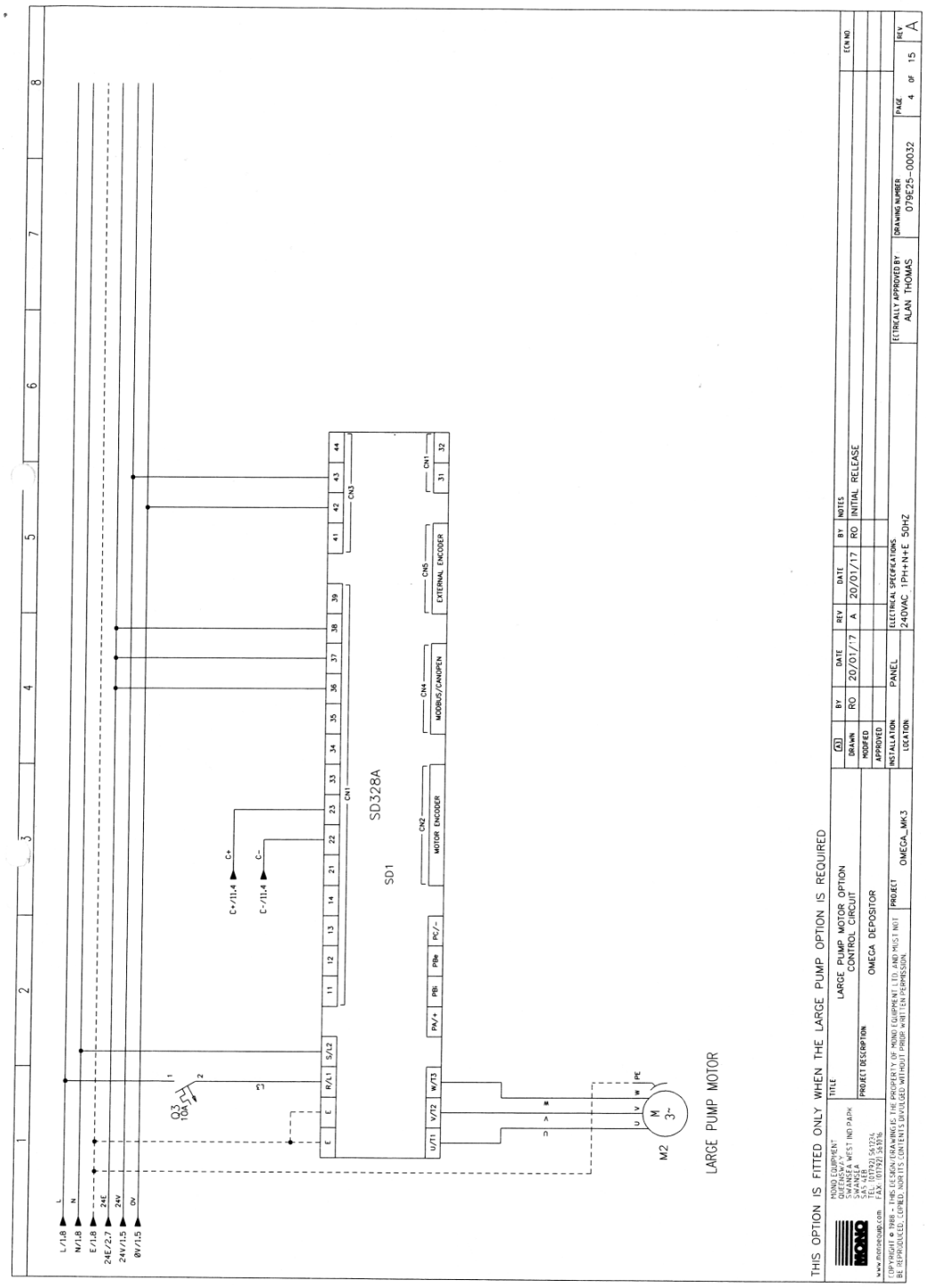
Actuator magnet on all guards B801-45-007

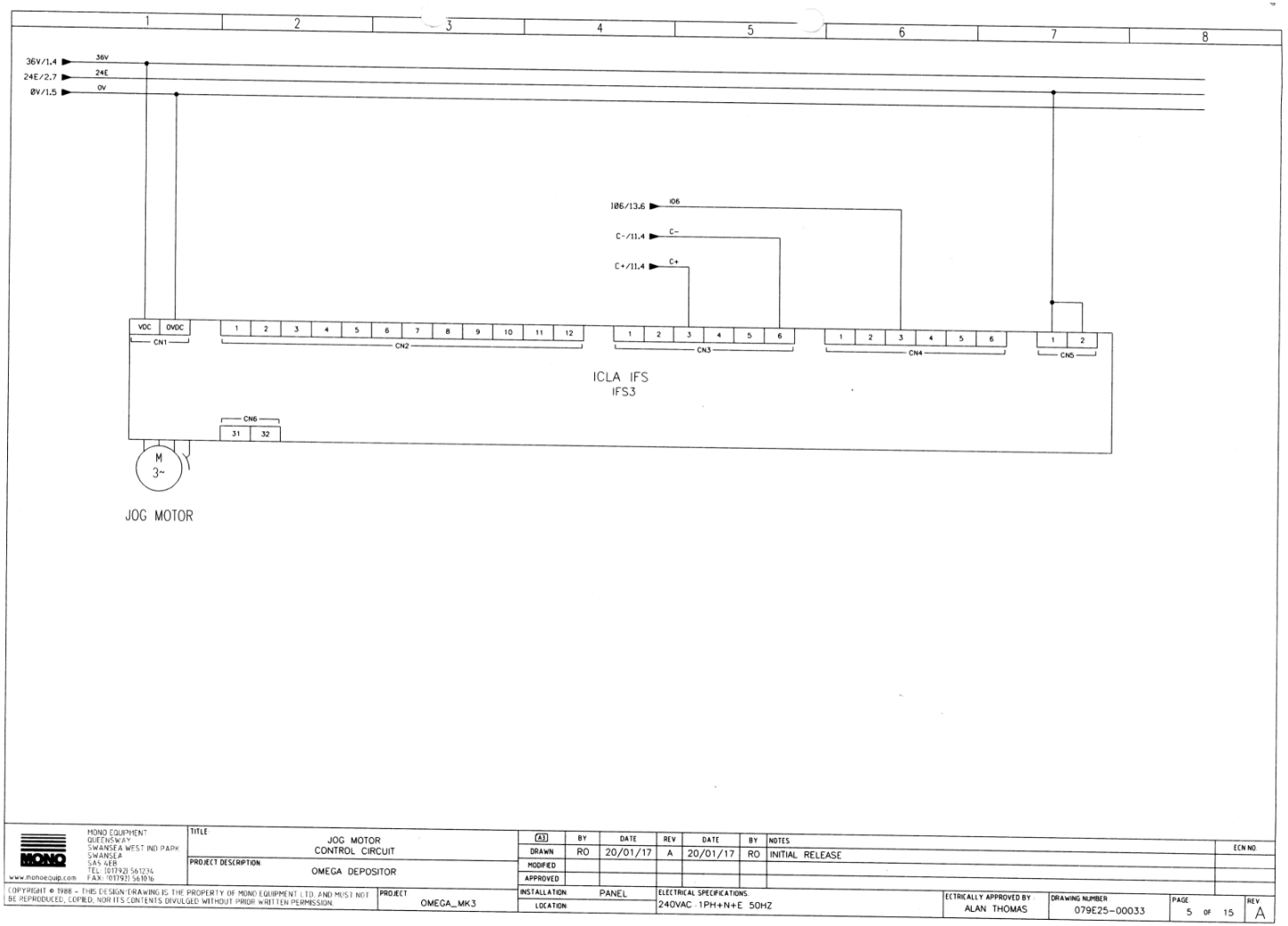
14.0 ELECTRICAL INFORMATION TOUCH VERSION

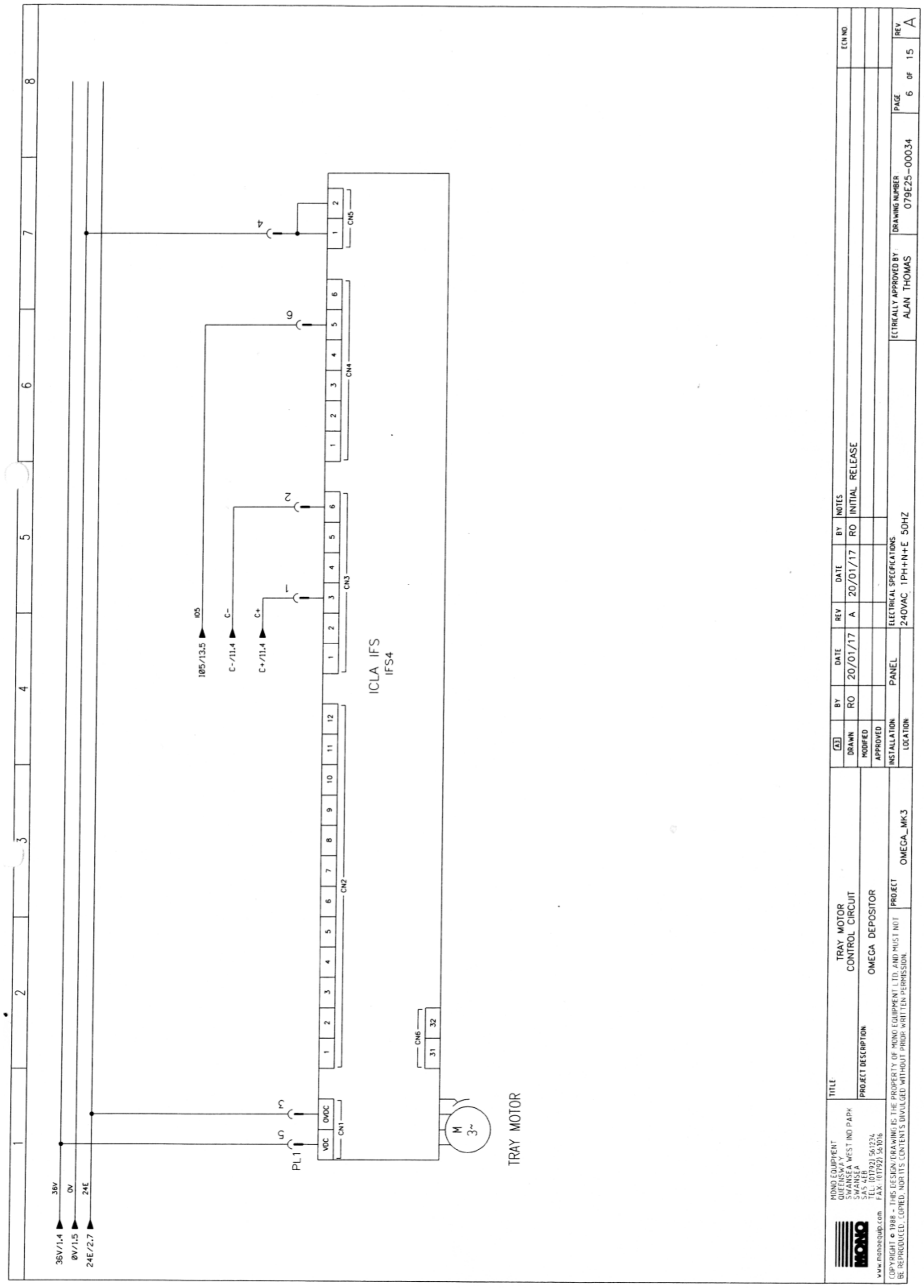

ELECTRICAL DISTRIBUTION
OMEGA DEPOSITOR
OMEGA_MK3
PSU1
IN: 240V AC
OUT: 24V DC
RATING: 2A
PSU2
IN: 240VAC
OUT: 36V DC
RATING: 10A
Q1
4A
Q2
16A
X1
36V
0V
24V
L/4.1
N/4.1
DRAWN RO 20/01/17
A 20/01/17 RO INITIAL RELEASE
INSTALLATION PANEL
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
ELECTRICALLY APPROVED BY: ALAN THOMAS
DRAWING NUMBER 079E25-00029
PAGE 1 OF 15
REV A
MONO EQUIPMENT

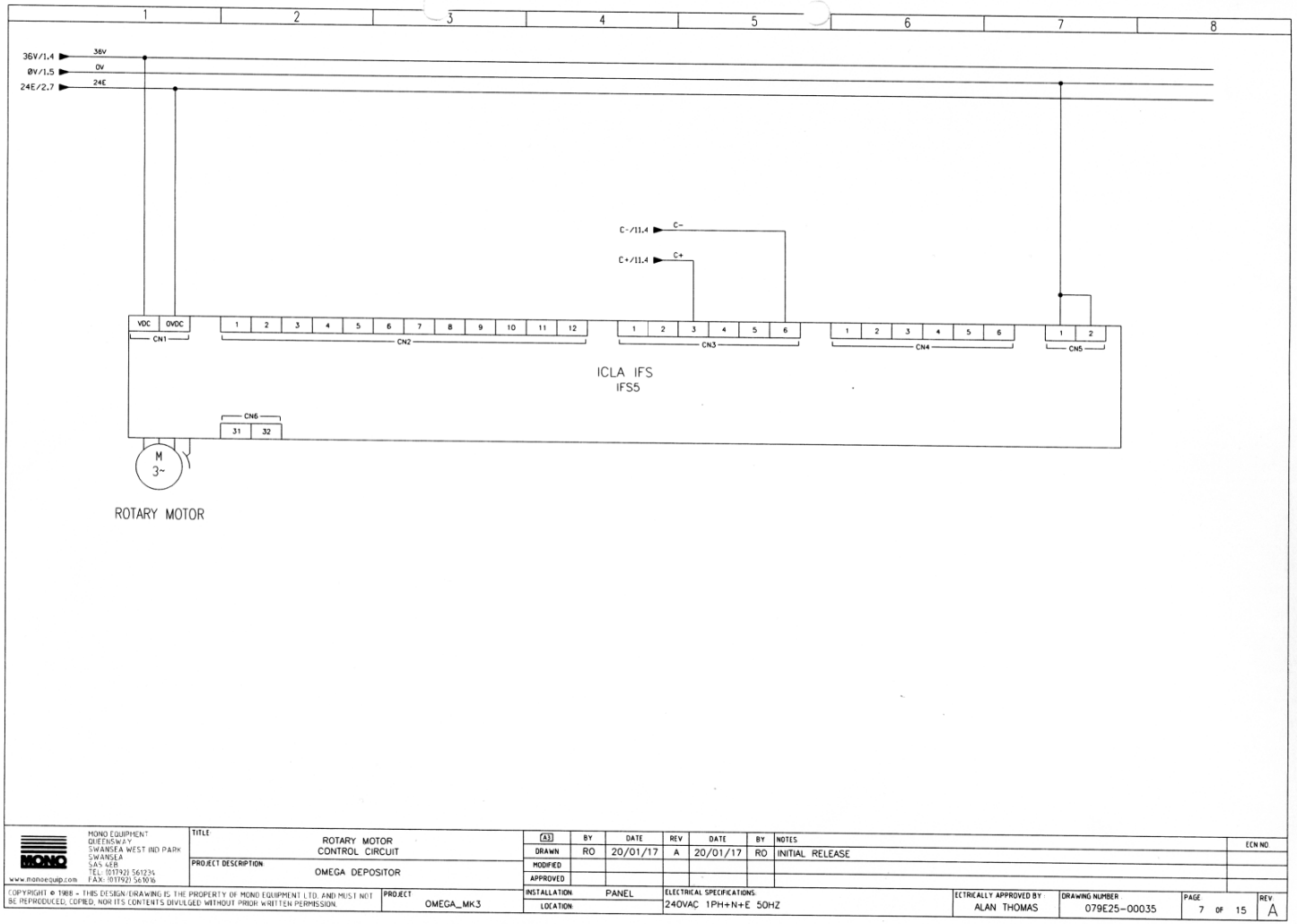

SAFETY CIRCUIT
OMEGA DEPOSITOR
OMEGA_MK3
=NON WIRECUT
HAND GUARD 1
HAND GUARD 2
K1 /13.1
K2 /13.3
ESR1
EMERGENCY STOP MONITOR RELAY
HOPPER GUARD
S1
=WIRECUT
WIRECUT GUARD
S2
HMI E-STOP
ES1
PLC1 /11.6
INPUT: %I1.01
HOPPER GUARD SWITCH ACTIVATED
INPUT: %I1.04
HMI E-STOP BUTTON ACTIVATED
INPUT: %I1.00
EMERGENCY STOP CIRCUIT HEALTHY
24V/1,5
0V/1,5
24V
0V
24E
102/13.2
24E/9.1
24E/3.1
24E/8.1
24E/7.1
24E/6.1
24E/5.1
24E/4.1
DRAWN RO 20/01/17
MODIFIED
APPROVED
INSTALLATION PANEL
LOCATION
REV A 20/01/17 RO INITIAL RELEASE
ELECTRICAL SPECIFICATIONS:
240VAC 1PH+N+E 50HZ
ELECTRICALLY APPROVED BY ALAN THOMAS
DRAWING NUMBER 079E25-00030
PAGE 2 OF 15
REV A


THIS OPTION IS NOT FITTED WHEN THE LARGE PUMP OPTION IS REQUIRED
36V/1.4
0V/1.5
24E/2.7
36V
0V
24E
VDC
0VDC
CN1
CN2
CN3
CN4
CN5
CN6
ICLA IFS
IFS2
C-/11.4
C+/11.4
C-
C+
PUMP MOTOR
M
3~
MONO EQUIPMENT
TITLE
STANDARD PUMP MOTOR
CONTROL CIRCUIT
PROJECT DESCRIPTION
OMEGA DEPOSITOR
PROJECT
OMEGA_MK3
DRAWN RO 20/01/17
REV A 20/01/17 RO INITIAL RELEASE
INSTALLATION PANEL
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
ALAN THOMAS
DRAWING NUMBER
079E25-00031
PAGE 3 OF 15
REV A


THIS OPTION IS FITTED ONLY WHEN THE LARGE PUMP OPTION IS REQUIRED
LARGE PUMP MOTOR
SD1
SD328A
M2
LARGE PUMP MOTOR OPTION
CONTROL CIRCUIT
OMEGA DEPOSITOR
OMEGA_MK3
PANEL
240VAC 1PH+N+E 50HZ
ALAN THOMAS
079625-00032
DRAWN
MODIFIED
APPROVED
INITIAL RELEASE
20/01/17
PAGE 4 OF 15
REV A




36V/1.4
0V/1.5
24E/2.7
PL1
TRAY MOTOR
ICLA IFS
IFS4
I05/13.5
C-/11.4
C+/11.4
CN1
CN2
CN3
CN4
CN5
CN6
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA
SA5 4EB
TEL (01792) 561234
FAX (01792) 561016
www.monoequip.com
TITLE
TRAY MOTOR CONTROL CIRCUIT
PROJECT DESCRIPTION
OMEGA DEPOSITOR
PROJECT
OMEGA_MK3
DRAWN RO 20/01/17
REV A 20/01/17 RO INITIAL RELEASE
INSTALLATION PANEL
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
ELECTRICALLY APPROVED BY
ALAN THOMAS
DRAWING NUMBER
079E25-00034
PAGE 6 OF 15
REV A



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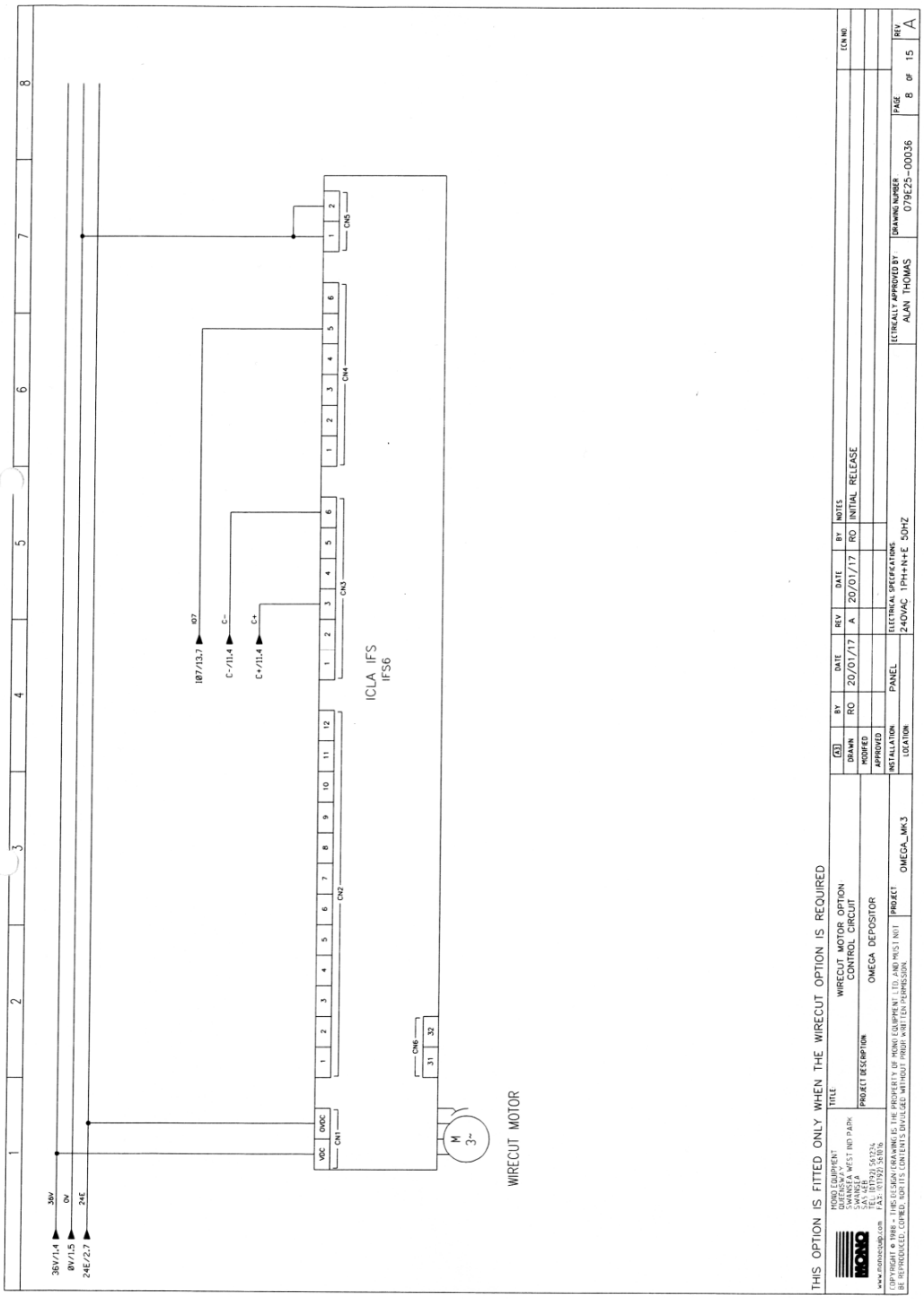
SWANSEA
SA5 4ER
TEL: (01792) 561234
FAX: (01792) 561016
www.monoequip.com

TITLE: ROTARY MOTOR CONTROL CIRCUIT
PROJECT DESCRIPTION: OMEGA DEPOSITOR
PROJECT: OMEGA_MK3

A3	BY	DATE	REV	DATE	BY	NOTES	ECN NO
DRAWN	RO	20/01/17	A	20/01/17	RO	INITIAL RELEASE	
MODIFIED							
APPROVED							

INSTALLATION: PANEL
LOCATION:
ELECTRICAL SPECIFICATIONS: 240VAC 1PH+N+E 50HZ
ECTRICALLY APPROVED BY: ALAN THOMAS
DRAWING NUMBER: 079E25-00035
PAGE: 7 OF 15
REV: A


36V/1.4
0V/1.5
24E/2.7
36V
0V
24E
VDC
0VDC
CN1
CN2
CN6
31
32
M
3~
WIRECUT MOTOR
ICLA IFS
IFS6
107/13.7
C-/11.4
C+/11.4
107
C-
C+
CN3
CN4
CN5
THIS OPTION IS FITTED ONLY WHEN THE WIRECUT OPTION IS REQUIRED
MONO EQUIPMENT
QUEENSWAY
SWANSEA WEST IND PARK
SA5 4ER
TEL: (01792) 561274
FAX: (01792) 561876
www.monoequip.com
TITLE
WIRECUT MOTOR OPTION
CONTROL CIRCUIT
PROJECT DESCRIPTION:
OMEGA DEPOSITOR
PROJECT
OMEGA_MK3
DRAWN
RO
20/01/17
MODIFIED
APPROVED
INSTALLATION
PANEL
LOCATION
REV
DATE
BY
NOTES
A
20/01/17
RO
INITIAL RELEASE
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
ECN NO
ELECTRICALLY APPROVED BY
ALAN THOMAS
DRAWING NUMBER
079E25-00036
PAGE
8 OF 15
REV
A
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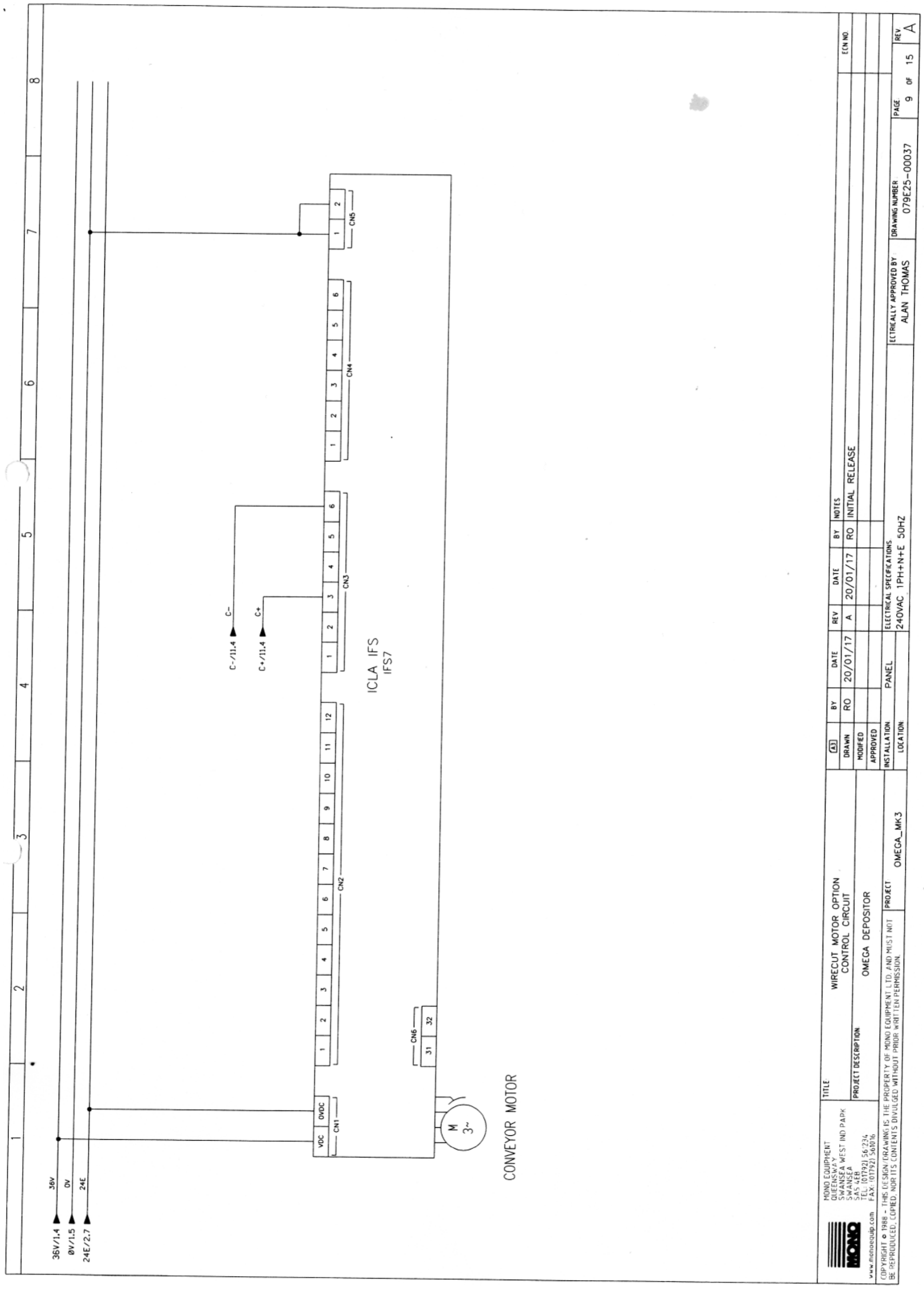
36V/1.4
0V/1.5
24E/2.7
36V
0V
24E
VDC
0VDC
CN1
CN2
CN3
CN4
CN5
CN6
C-/11.4
C+/11.4
C-
C+
ICLA IFS
IFS7
CONVEYOR MOTOR
WIRECUT MOTOR OPTION
CONTROL CIRCUIT
OMEGA DEPOSITOR
OMEGA_MK3
PANEL
20/01/17
RO
INITIAL RELEASE
240VAC 1PH+N+E 50HZ
ALAN THOMAS
079E25-00037
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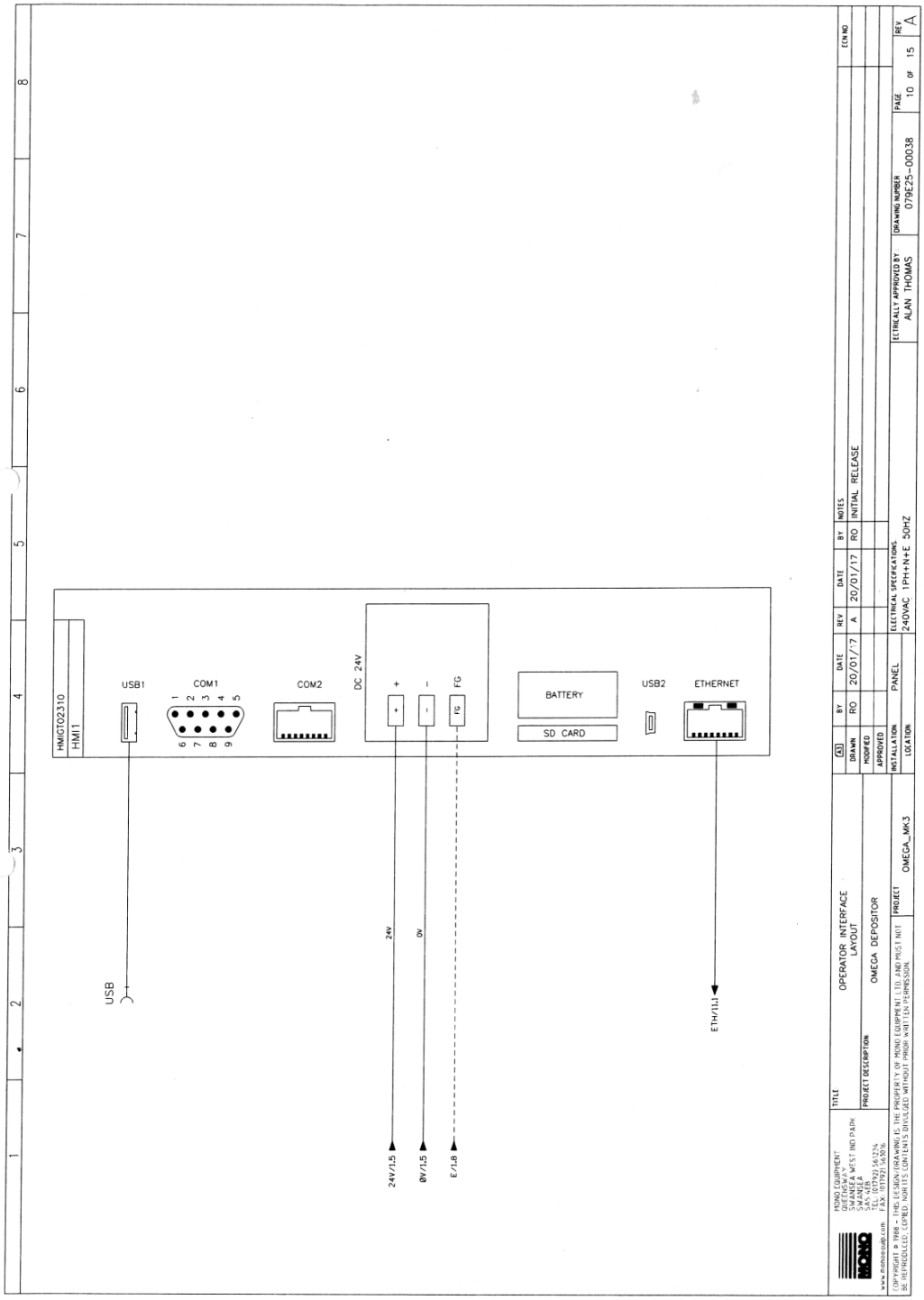
HMIGTO2310
HMI1
USB1
COM1
COM2
DC 24V
+
-
FG
BATTERY
SD CARD
USB2
ETHERNET
USB
24V
0V
ETH/1,1
24V/1,5
0V/1,5
E/1,8
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SWANSEA WEST IND PARK
SWANSEA
SA5 4EB
TEL: (01792) 561234
FAX: (01792) 563074
www.monoequip.com
TITLE
OPERATOR INTERFACE LAYOUT
PROJECT DESCRIPTION
OMEGA DEPOSITOR
PROJECT
OMEGA_MK3
DRAWN BY RO 20/01/17
MODIFIED
APPROVED
INSTALLATION PANEL
LOCATION
REV A
DATE 20/01/17
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
BY RO
NOTES INITIAL RELEASE
ECN NO
ELECTRICALLY APPROVED BY
ALAN THOMAS
DRAWING NUMBER
079E25-00038
PAGE 10 OF 15
REV A
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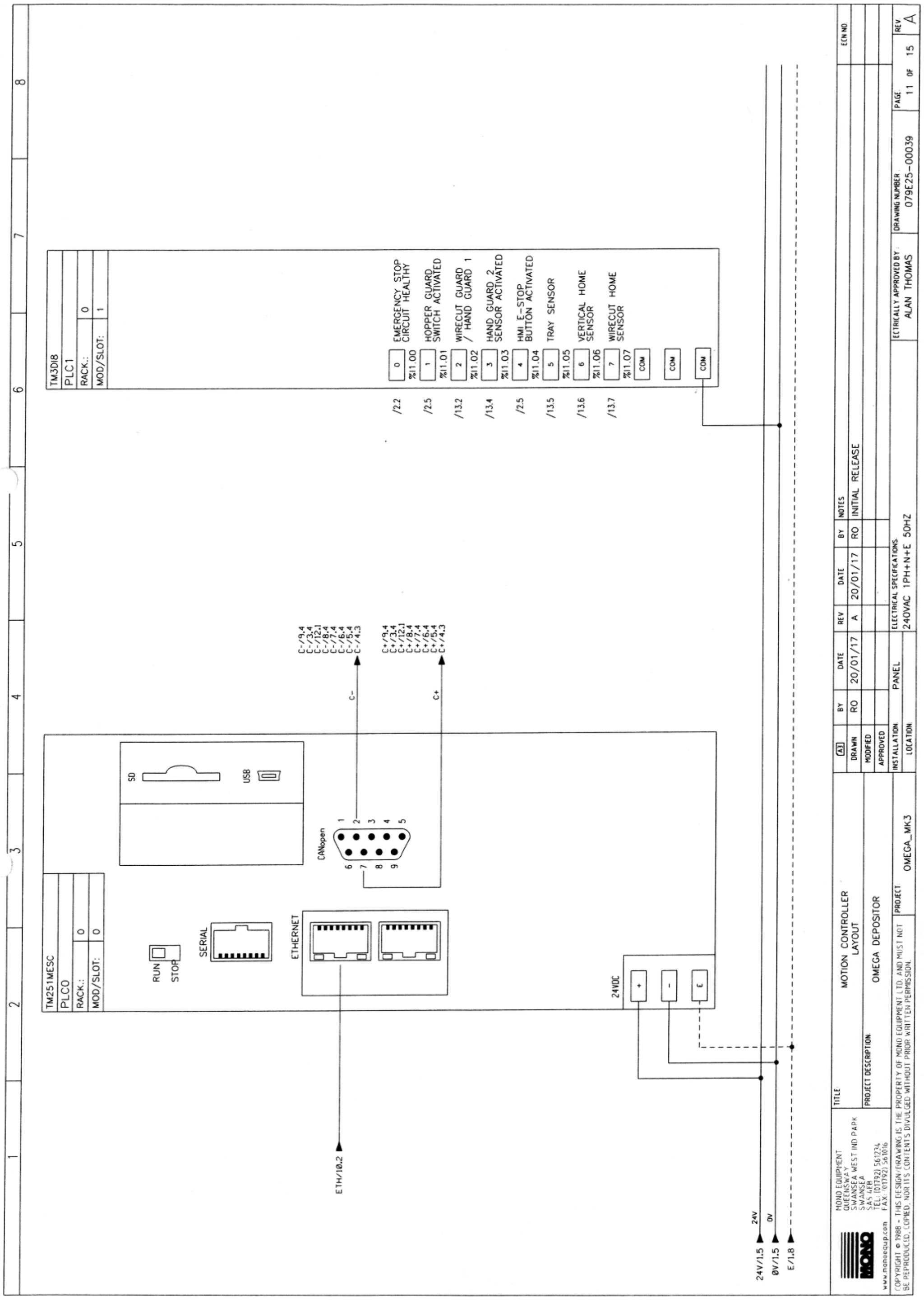
TM251MESC
PLC0
RACK.: 0
MOD/SLOT: 0
RUN
STOP
SERIAL
ETHERNET
SD
USB
CANopen
24VDC
ETH/10.2
C-
C+
24V/1.5
0V/1.5
E/1.8
TM3DI8
PLC1
RACK.: 0
MOD/SLOT: 1
EMERGENCY STOP CIRCUIT HEALTHY
HOPPER GUARD SWITCH ACTIVATED
WIRECUT GUARD / HAND GUARD 1
HAND GUARD 2 SENSOR ACTIVATED
HMI E-STOP BUTTON ACTIVATED
TRAY SENSOR
VERTICAL HOME SENSOR
WIRECUT HOME SENSOR
COM
MONO EQUIPMENT
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SWANSEA WEST IND PARK
SWANSEA
SA5 4EH
www.monoequip.com
MOTION CONTROLLER LAYOUT
OMEGA DEPOSITOR
OMEGA_MK3
INITIAL RELEASE
20/01/17
PANEL
240VAC 1PH+N+E 50HZ
ALAN THOMAS
079E25-00039
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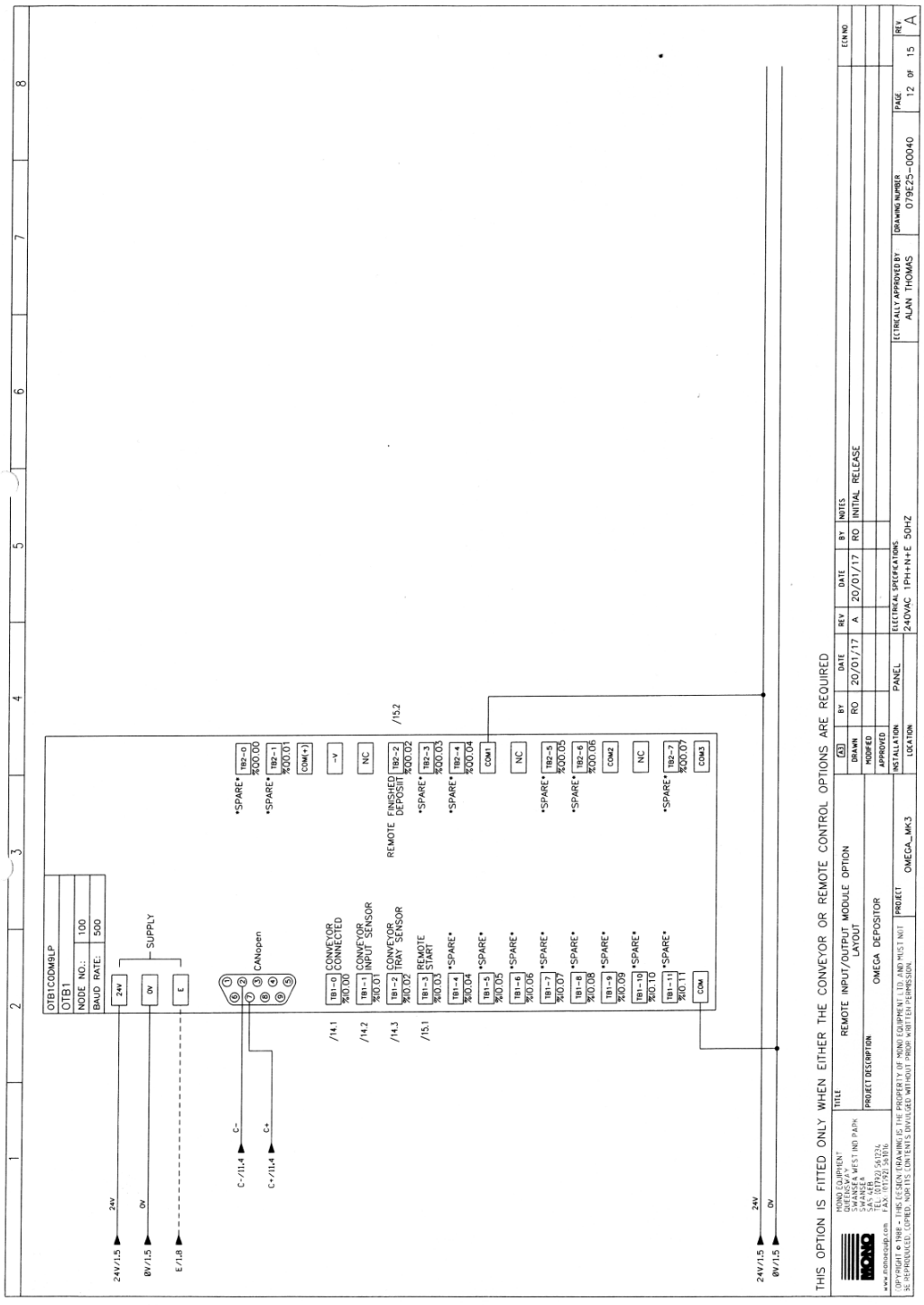
OTB1CODM9LP
OTB1
NODE NO.: 100
BAUD RATE: 500
SUPPLY
24V
0V
E
CANopen
C-
C+
CONVEYOR CONNECTED %I0.00
CONVEYOR INPUT SENSOR %I0.01
CONVEYOR TRAY SENSOR %I0.02
REMOTE START %I0.03
SPARE %I0.04
SPARE %I0.05
SPARE %I0.06
SPARE %I0.07
SPARE %I0.08
SPARE %I0.09
SPARE %I0.10
SPARE %I0.11
COM
REMOTE FINISHED DEPOSIT %Q0.02
SPARE %Q0.00
SPARE %Q0.01
SPARE %Q0.03
SPARE %Q0.04
SPARE %Q0.05
SPARE %Q0.06
SPARE %Q0.07
SPARE %Q0.08
SPARE %Q0.09
SPARE %Q0.10
SPARE %Q0.11
COM1
COM2
COM3
NC
/14.1
/14.2
/14.3
/15.1
/15.2
C-/11.4
C+/11.4
24V/1.5
0V/1.5
E/1.8
THIS OPTION IS FITTED ONLY WHEN EITHER THE CONVEYOR OR REMOTE CONTROL OPTIONS ARE REQUIRED
MONO EQUIPMENT
SWANSEA WEST IND PARK
SWANSEA
SA5 4EB
TEL 01792 561234
FAX 01792 561235
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TITLE
REMOTE INPUT/OUTPUT MODULE OPTION LAYOUT
PROJECT DESCRIPTION
OMEGA DEPOSITOR
PROJECT
OMEGA_MK3
DRAWN RO 20/01/17
MODIFIED
APPROVED
INSTALLATION
PANEL
LOCATION
REV A DATE 20/01/17 BY RO NOTES INITIAL RELEASE
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
ECN NO
ELECTRICALLY APPROVED BY
ALAN THOMAS
DRAWING NUMBER
079E25-00040
PAGE
12 OF 15
REV
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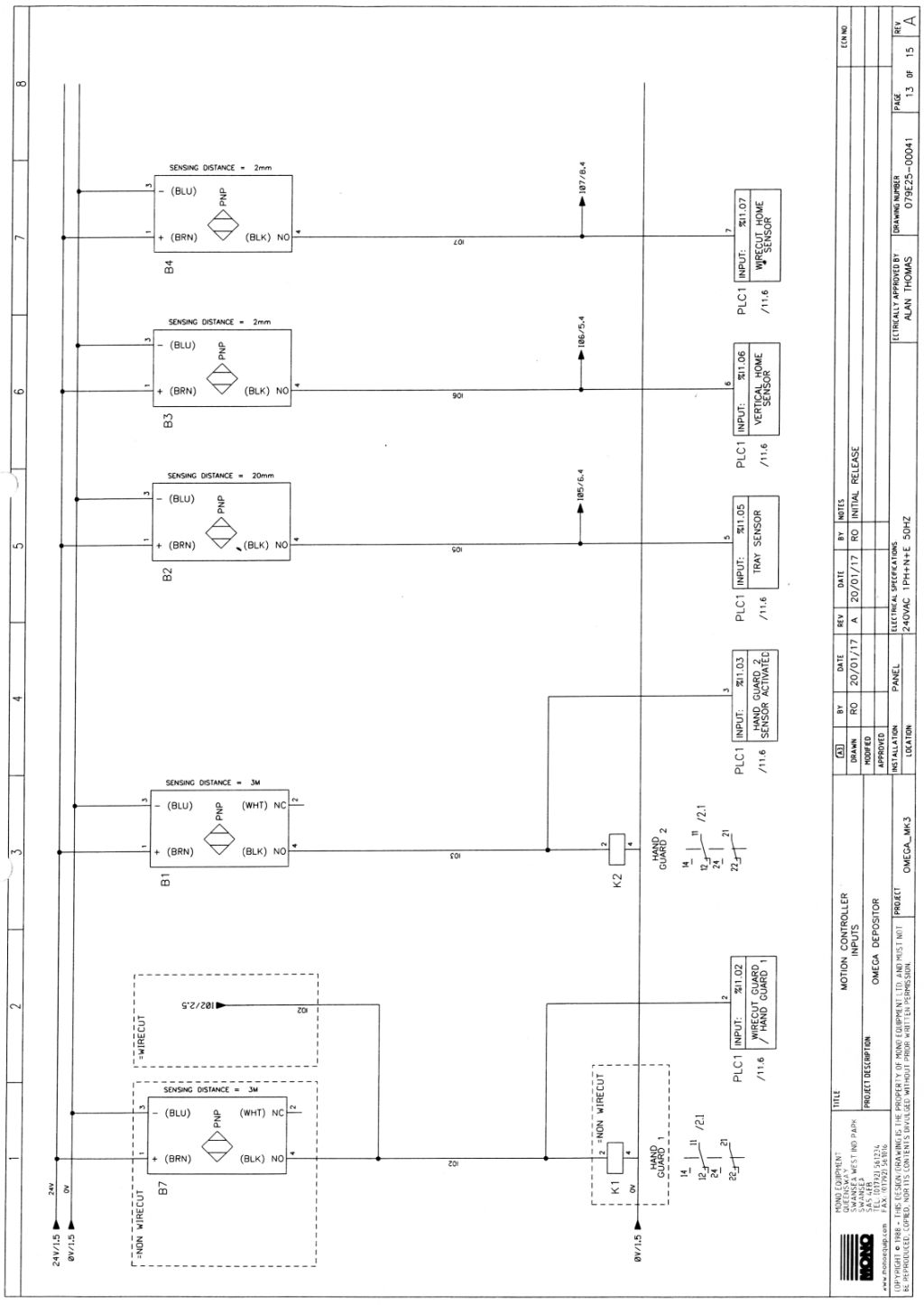
SENSING DISTANCE = 2mm
(BLU)
(BRN)
PNP
(BLK) NO
B4
B3
SENSING DISTANCE = 20mm
B2
SENSING DISTANCE = 3M
(WHT) NC
B1
B7
=WIRECUT
=NON WIRECUT
K1
K2
HAND GUARD 1
HAND GUARD 2
24V/1.5
0V/1.5
PLC1 INPUT: %I1.07 WIRECUT HOME SENSOR /11.6
PLC1 INPUT: %I1.06 VERTICAL HOME SENSOR /11.6
PLC1 INPUT: %I1.05 TRAY SENSOR /11.6
PLC1 INPUT: %I1.03 HAND GUARD 2 SENSOR ACTIVATED /11.6
PLC1 INPUT: %I1.02 WIRECUT GUARD / HAND GUARD 1 /11.6
MOTION CONTROLLER INPUTS
OMEGA DEPOSITOR
OMEGA_MK3
INITIAL RELEASE
240VAC 1PH+N+E 50HZ
ALAN THOMAS
079E25-00041
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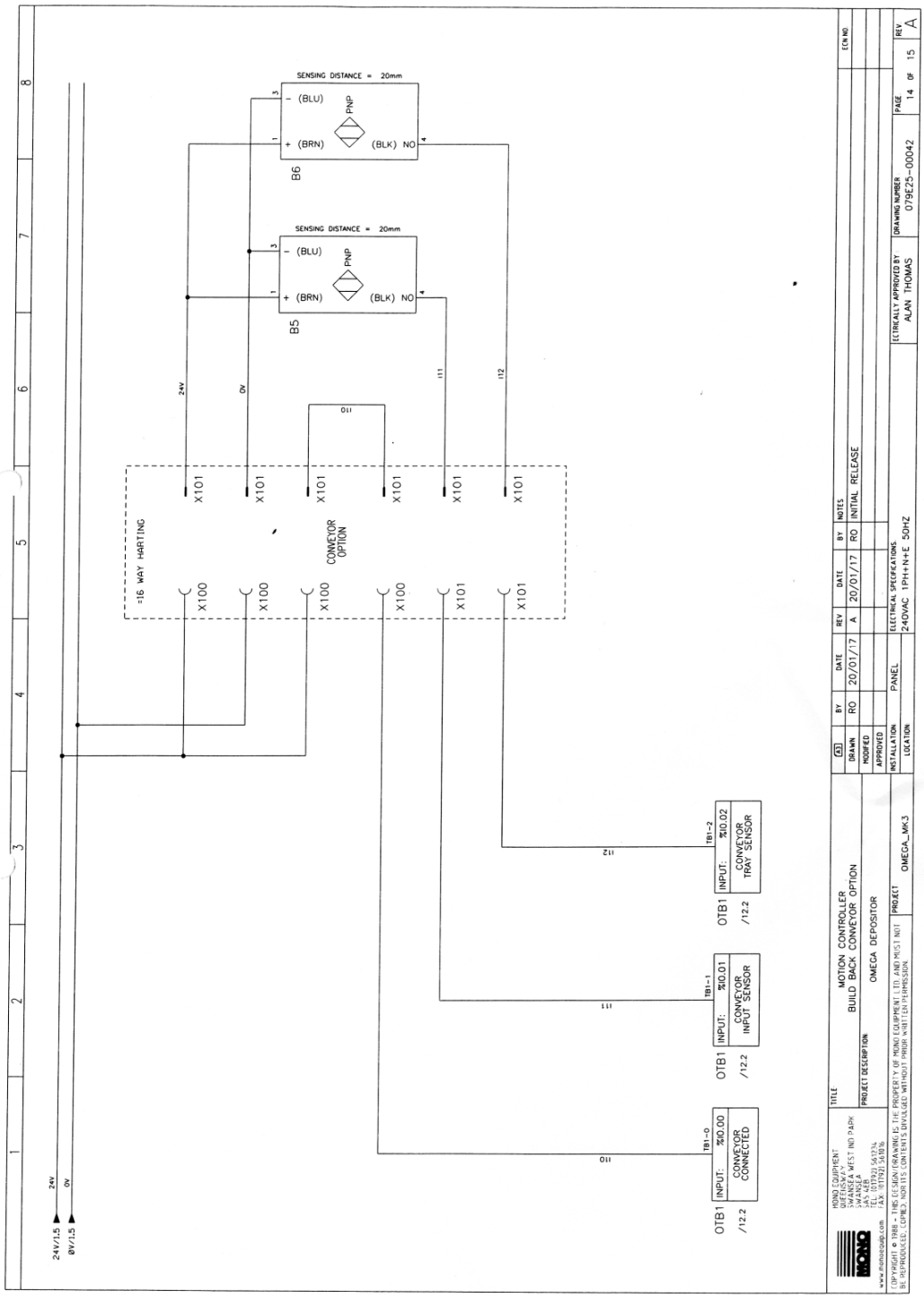
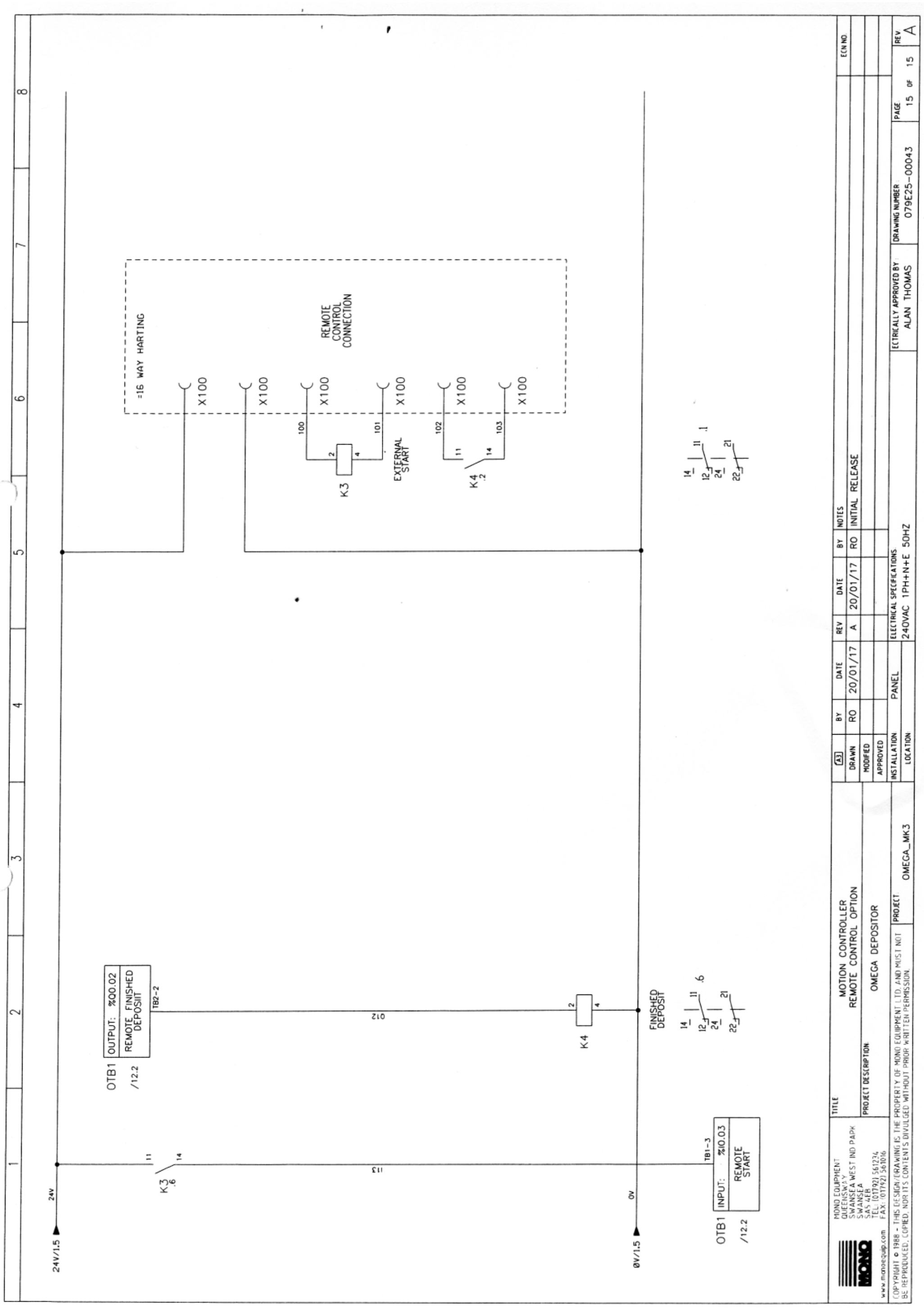

SENSING DISTANCE = 20mm
(BLU)
(BRN)
PNP
(BLK) NO
B6
B5
24V
0V
=16 WAY HARTING
X101
X100
CONVEYOR OPTION
OTB1
INPUT: %I0.00
CONVEYOR CONNECTED
/12.2
INPUT: %I0.01
CONVEYOR INPUT SENSOR
INPUT: %I0.02
CONVEYOR TRAY SENSOR
MOTION CONTROLLER
BUILD BACK CONVEYOR OPTION
OMEGA DEPOSITOR
OMEGA_MK3
PANEL
240VAC 1PH+N+E 50HZ
INITIAL RELEASE
079E25-00042


24V/1.5
0V/1.5
24V
0V
K3 .6
OTB1 INPUT: %I0.03
TB1-3
REMOTE START
/12.2
OTB1 OUTPUT: %Q0.02
TB2-2
REMOTE FINISHED DEPOSIT
/12.2
K4
FINISHED DEPOSIT
=16 WAY HARTING
X100
REMOTE CONTROL CONNECTION
K3
EXTERNAL START
K4 .2
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QUEENSWAY
SWANSEA WEST IND PARK
SWANSEA
SA5 4EB
TEL: (01792) 561234
FAX: (01792) 561016
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TITLE
MOTION CONTROLLER
REMOTE CONTROL OPTION
PROJECT DESCRIPTION
OMEGA DEPOSITOR
PROJECT
OMEGA_MK3
DRAWN RO 20/01/17
A 20/01/17 RO INITIAL RELEASE
INSTALLATION PANEL
ELECTRICAL SPECIFICATIONS
240VAC 1PH+N+E 50HZ
ALAN THOMAS
DRAWING NUMBER
079E25-00043
PAGE 15 OF 15
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The equipment mentioned in this manual has CE accreditation.

As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice

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Swansea West Industrial Estate,
Swansea.
SA5 4EB
UK

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Email:marketing@monoequip.com

Web site:www.monoequip.com

- **DISPOSAL**
  Care should be taken when the machine comes to the end of its working life. All parts should be disposed of in the appropriate place, either recycling or other means as the law permits at the time.