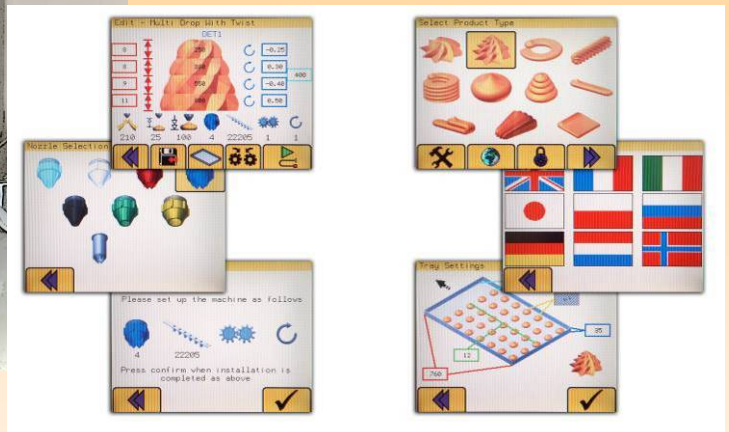


Enter **Serial No.** here.

MANUAL No. Y-OM-02E

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

**Store this document safely and ensure it is available at all times.
Non-availability may affect the service / repair to your machine.**



OPERATING AND MAINTENANCE MANUAL

OMEGA TOUCH DEPOSITOR (400, 450, 580)


-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 2006/95/EC

**The requirements of the
Electromagnetic Compatibility Directive
2004/108EC, 91/263/EEC, 92/31/EEC
and
General Safety of Machinery and
food processing Standards applicable**

Signed: 
(G.A.Williams: Quality Manager)

Date:

Machine Code FG..... 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 35, 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.



FOR SAFE WORKING, PAY SPECIAL ATTENTION TO ITEMS MARKED



- 1.0 - INTRODUCTION
- 2.0 - DIMENSIONS
- 3.0 - SPECIFICATIONS
- 4.0 - SAFETY 
- 5.0 - INSTALLATION
- 6.0 - ISOLATION
- 7.0 - CLEANING INSTRUCTIONS
- 8.0 - OPERATING CONDITIONS
- 9.0 - PREPARING FOR OPERATION**
 - 9A – FITTING THE HOPPER*
 - 9B – FITTING A TEMPLATE*
- 10.0 - OPERATING INSTRUCTIONS**
 - 1** – SELECT PRODUCT TYPE
 - 2** – SELECT SAVED NAME OF PRODUCT TYPE
 - 3** – CONFIRM SETUP
 - 4** – OPERATOR SCREEN
 - 5** – EDIT SCREEN
 - 5A** – TRAY SETUP
 - 6** – COPY
 - 7** – DELETE
 - 8** – PASSWORDS
 - 9** – ENGINEERING SETTINGS
 - 10** – FAULT INFORMATION SCREENS
- 11.0 - MAINTENANCE
- 12.0 - SPARES AND SERVICE
- 13.0 - SPARES LIST
- 14.0 - ELECTRICAL INFORMATION

1.0 INTRODUCTION

Omega
Touch

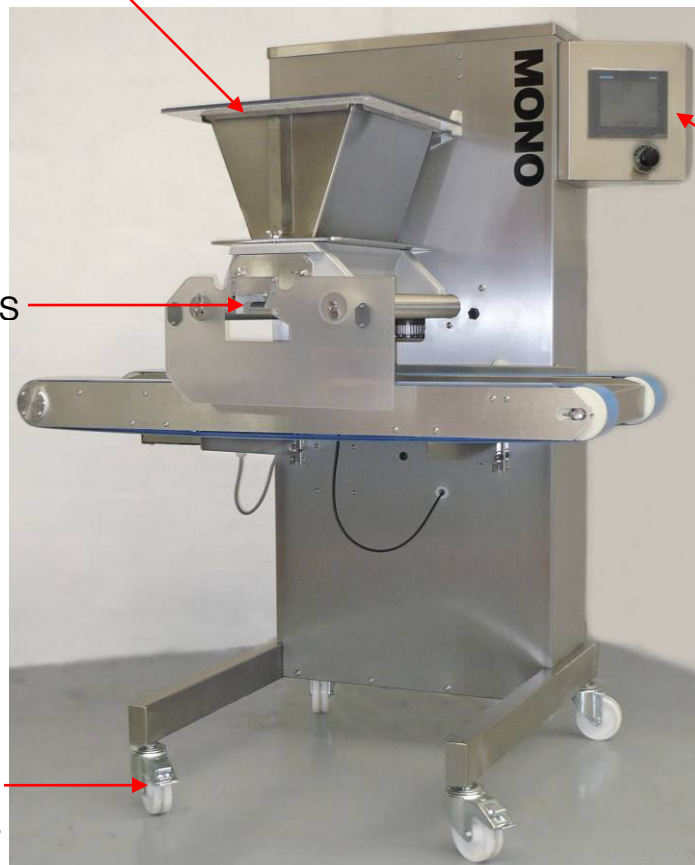
- The innovative “four axis deposit” design of MONO’s “**Omega Touch**” depositor allows it to recreate most of the hand movements of the Master confectioner. This makes the “**Omega Touch**” capable of exceptional accuracy of product weight, size and shape.
- Maintenance is kept to a minimum and the 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 and hard dough hoppers. There is also a large selection of templates and nozzles.

HARD OR SOFT
DOUGH HOPPERS

SLIDE IN TEMPLATES

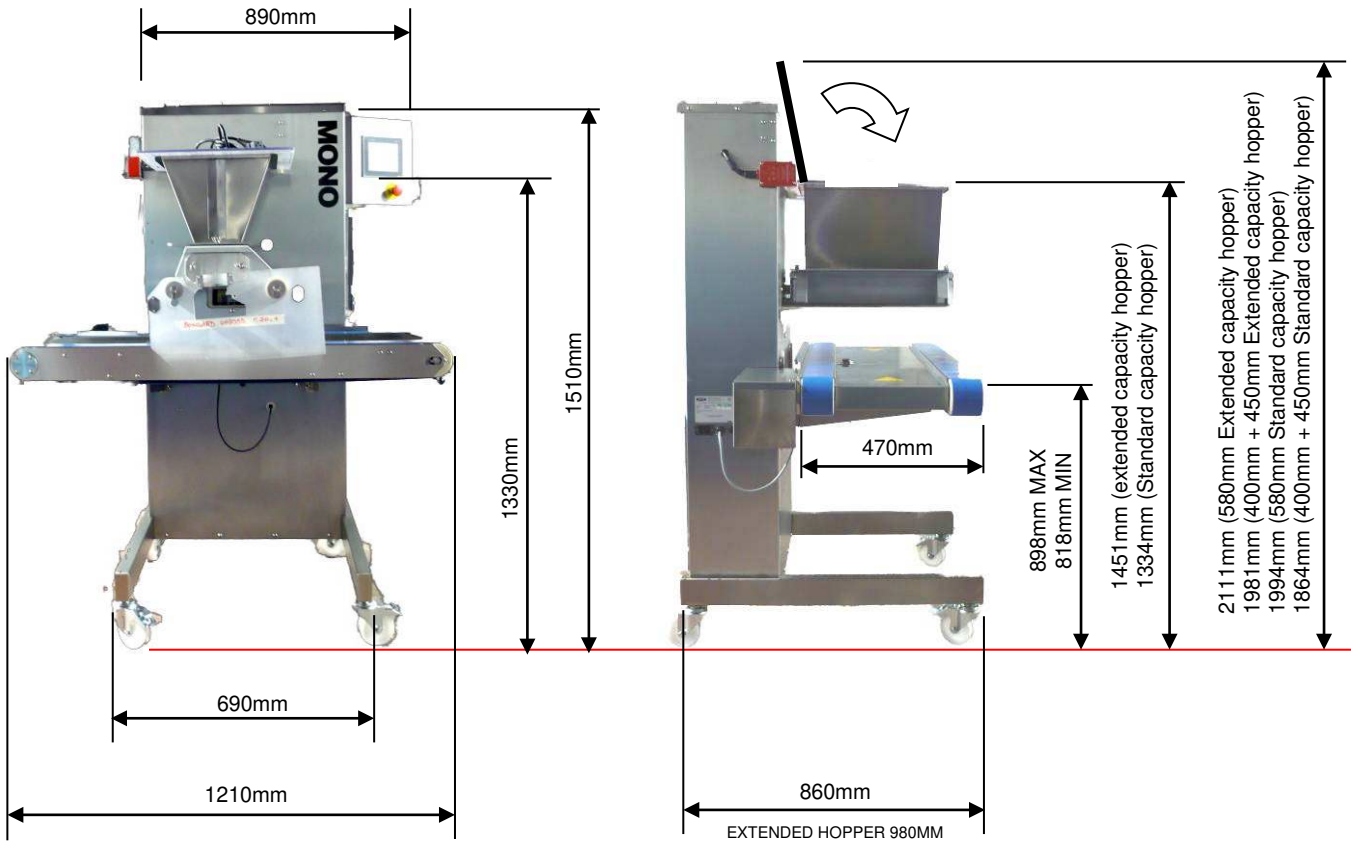
EASY CONTROLS

STAND WITH
LOCKING CASTORS



2.0 DIMENSIONS

Omega Touch



3.0 SPECIFICATIONS

Omega
Touch

	<u>SOFT DOUGH</u>			<u>HARD DOUGH</u>		
MODEL (Nom. hopper width (mm))	400	450	580	400	450	580
Weight (with hopper fitted) (Kg) :	176	185	194	196	210	224
Standard hopper Capacity (litre) :	20	22.5	29	21	24	31
Extended hopper Capacity (litre) :	36	41	53	31	35	45

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

MAX RATING 2.5kW single phase fused at 13A

Cycles per minute = 35

Min distance between trays = 50mm

Max vertical travel = 80mm

Max program storage = 650

Number of languages = 13

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

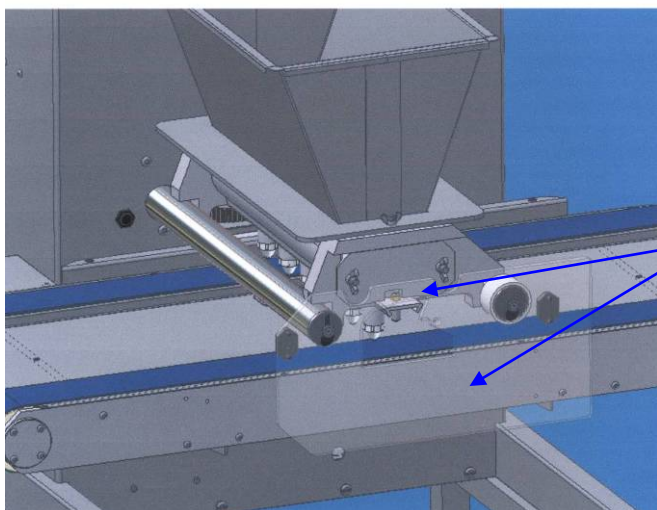


- 1 **Never use a machine in a faulty condition** and always report any damage.
- 2 **Only trained engineers** may remove parts from this machine that requires a tool to do so.
- 3 Always ensure hands are dry before touching any electrical appliance (including cable, switch and plug). **NEVER move machinery 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.**
- 8 **No loose clothing** or jewellery should be worn while operating the machine.
- 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

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

Omega
Touch

- 1 Ensure that the depositor is connected to correct electric supply as specified on the serial number plate on the side of the machine.
- 2 Ensure that the correct fuse rating is fitted in the electrical supply

6.0 ISOLATION

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

To release the emergency stop button, turn clockwise.



STOP BUTTON

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.

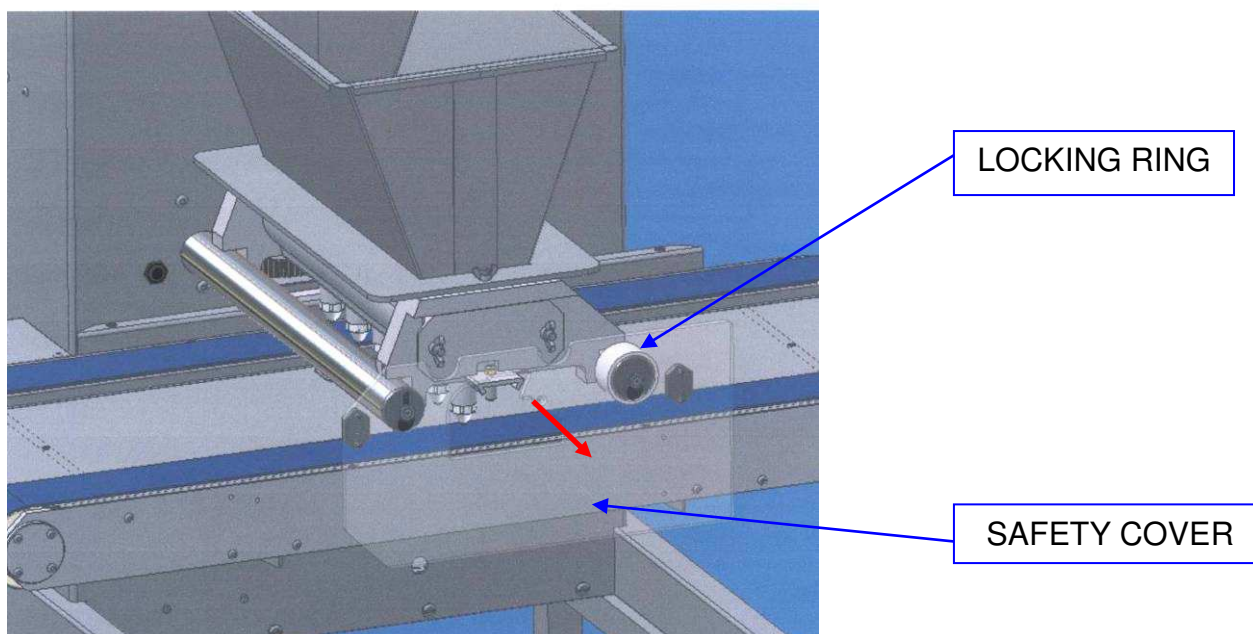
-Do not use any form of caustic detergent or abrasive cleaners.-

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

HARD AND SOFT DOUGH HOPPERS **BETWEEN PRODUCT MIX CHANGES**

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

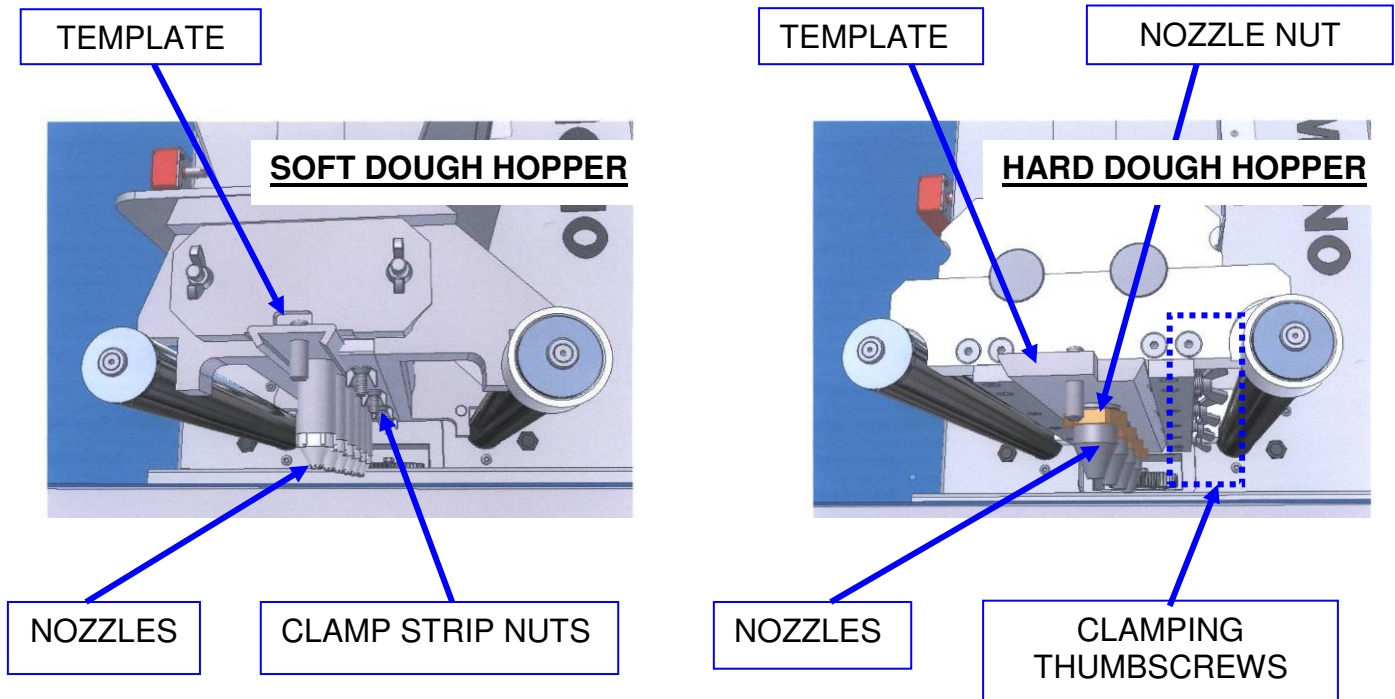
1. Open top safety guard and remove excess mixture remaining in the feed hopper.
2. Lift off front see-through safety cover and locking-ring.



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.

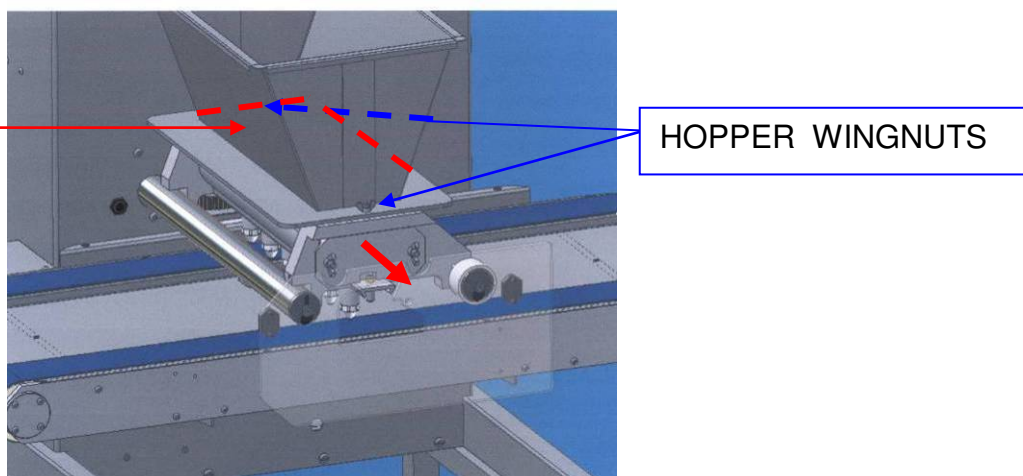
NOTE.

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 wingnut, 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.

SOFT DOUGH HOPPER



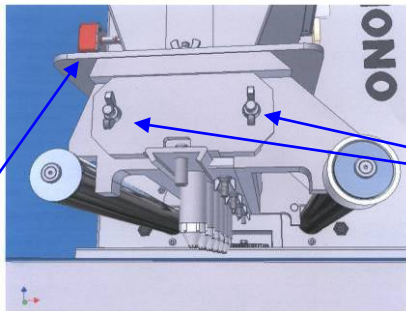
CAUTION:

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.

1. After removing the feed hopper, check condition of feed hopper seal.
2. 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.

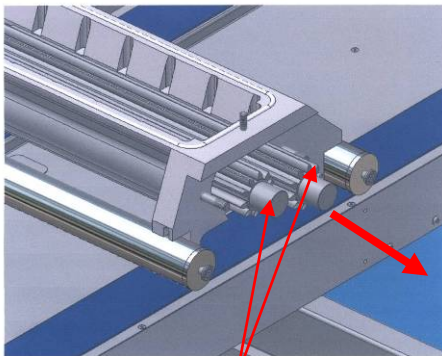
FEED HOPPER
SEALING SURFACE



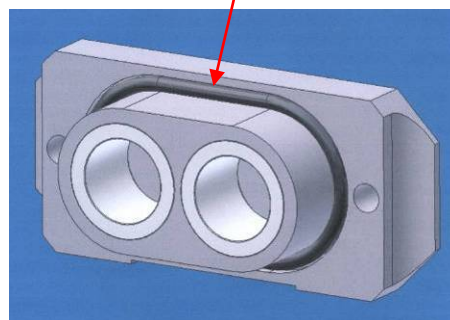
ENDCAP NUTS

3. 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.



PUMP GEARS
REMOVE WITH END CAP
(NOT SHOWN)



'O' RING IN GROOVE

END CAP

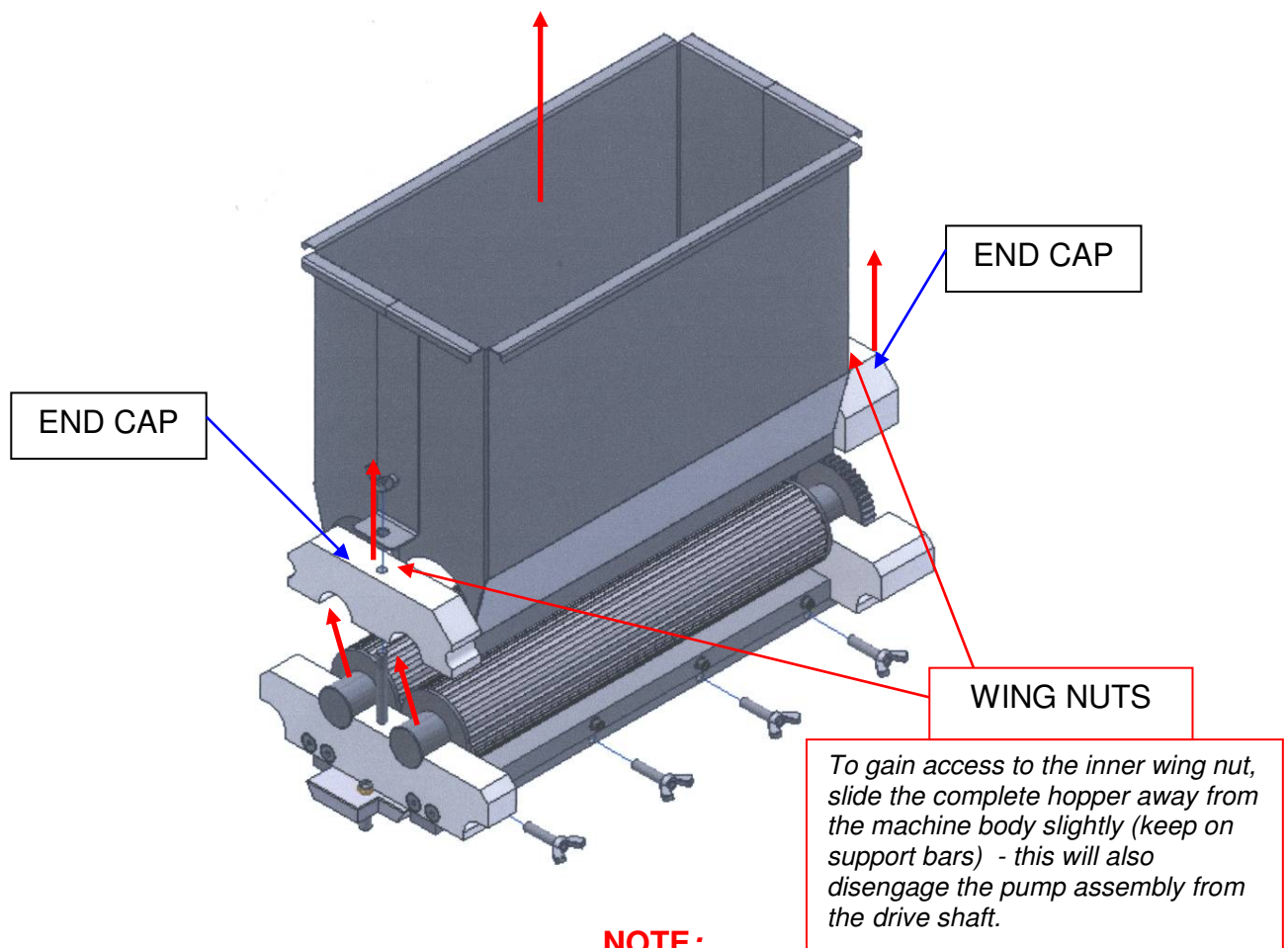
3. Remove remainder of pump assembly from the machine and remove remaining end-cap to fully dismantle pump assembly components for cleaning.

HARD DOUGH HOPPER

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.

To reduce weight and bulk, separate and remove empty feed hopper from pump assembly, whilst still on the machine, by unscrewing the wing nuts.
(Ensure that the nuts are placed where they will not be lost.)
 The pump assembly will now be lighter and more easily removed.

1. Lift off both upper plastic end-caps.
2. Remove both gears from the assembly, one at a time, by lifting vertically.
3. Remove remainder of pump assembly from the machine for cleaning.



Use only warm soapy water to clean these parts that should be rinsed and thoroughly dried before re-assembly.
The greatest care must be taken not to drop the hopper.

Do not leave any components in the hopper.  

8.0 OPERATING CONDITIONS

Omega
Touch

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**.

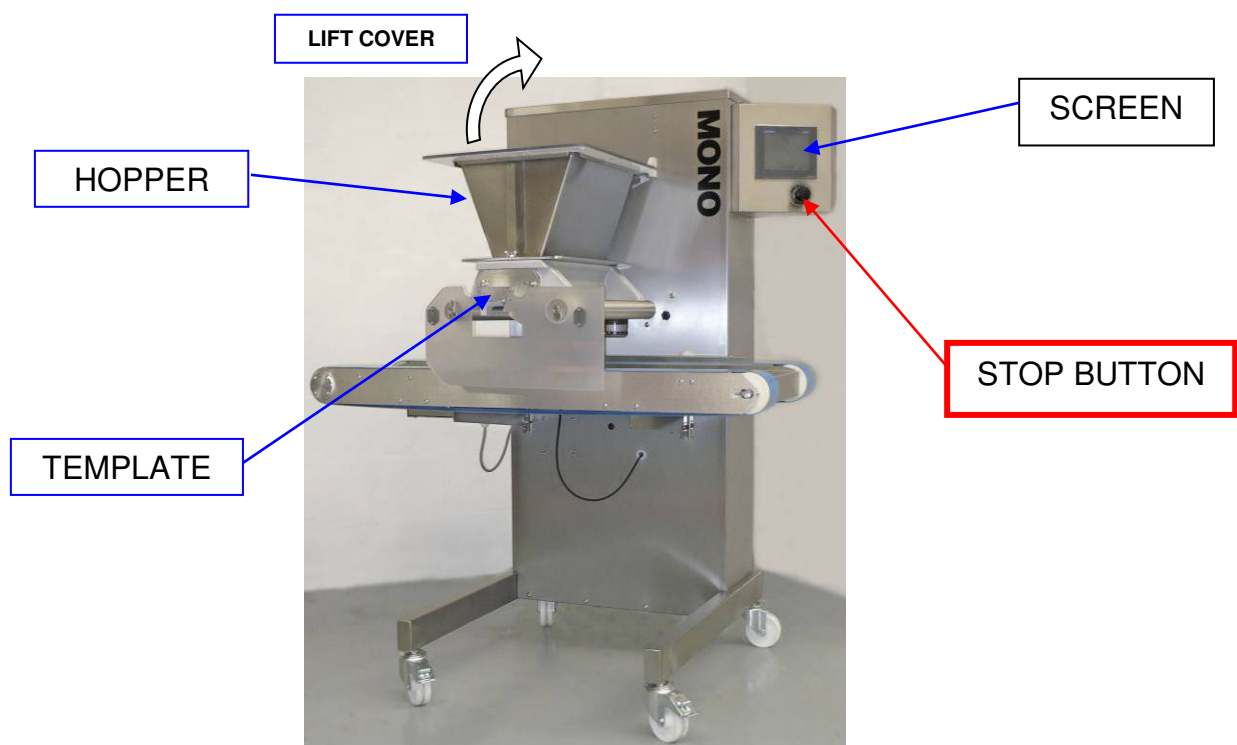


9.0 PREPARING FOR OPERATION

Omega
Touch

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

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.



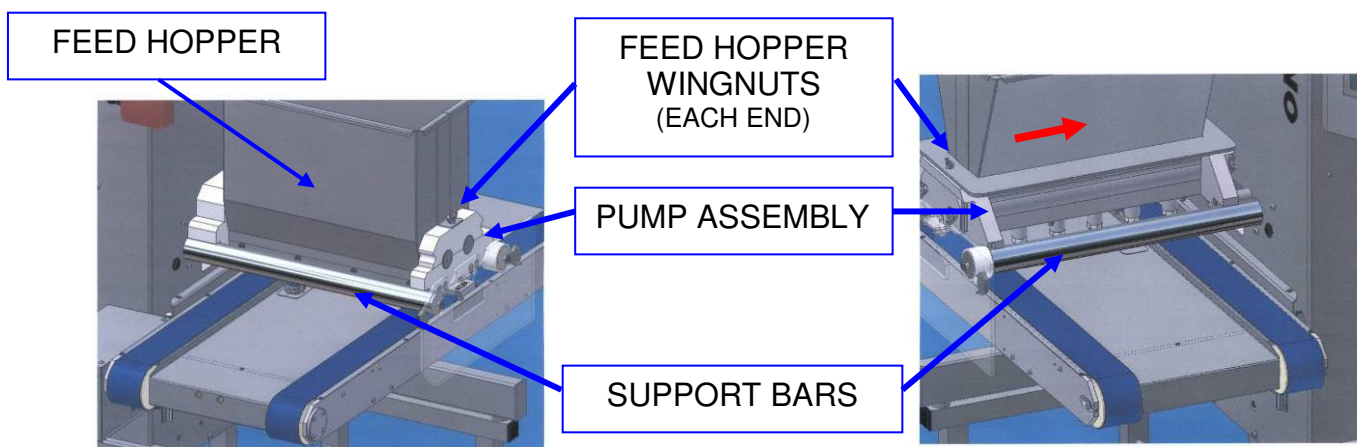
- 2 Connect power cable to electrical supply.
Make sure stop button is in released position (turn clockwise if required).
- 3 Select an existing program or create a new program through the on-screen menus.
(see section 10 operation)
- 4 The machine is now ready for operation.

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 off by two people, or dismantled into smaller components while still 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.

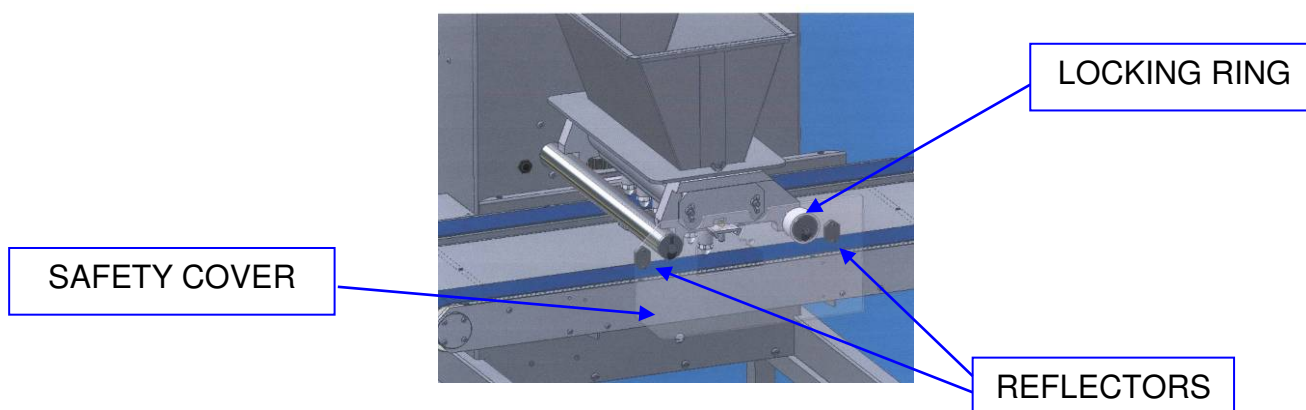
- 1 By hand, align pump assembly drive gear roller with drive shaft on machine.
- 2 Fit hopper to pump assembly and secure with wing nuts.
- 3 Slide hopper on support bars until fully up against machine.



HARD DOUGH

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.



DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED

9b FITTING A TEMPLATE

- **Soft dough**

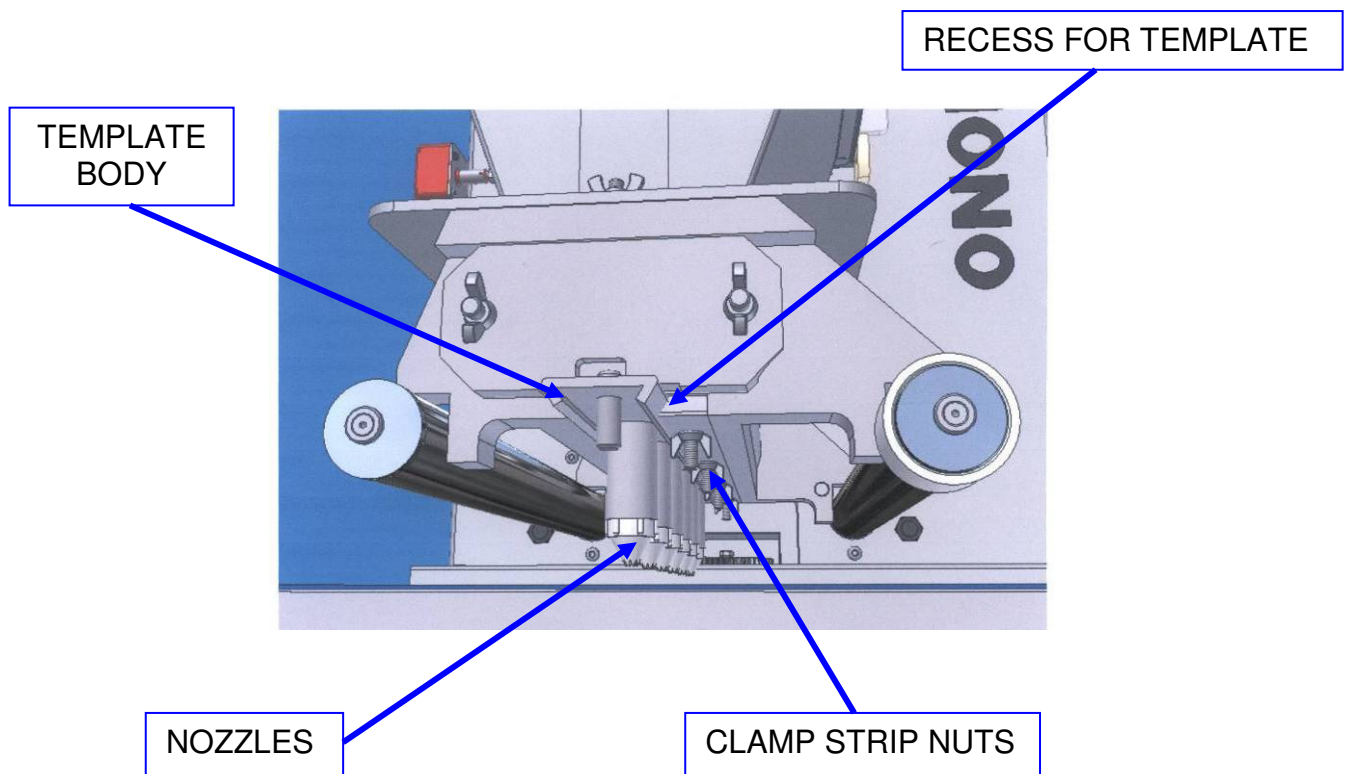
Non-rotary templates that can be fitted with nozzles, requires screwing the nozzles into the threaded holes provided.

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

• Hard dough

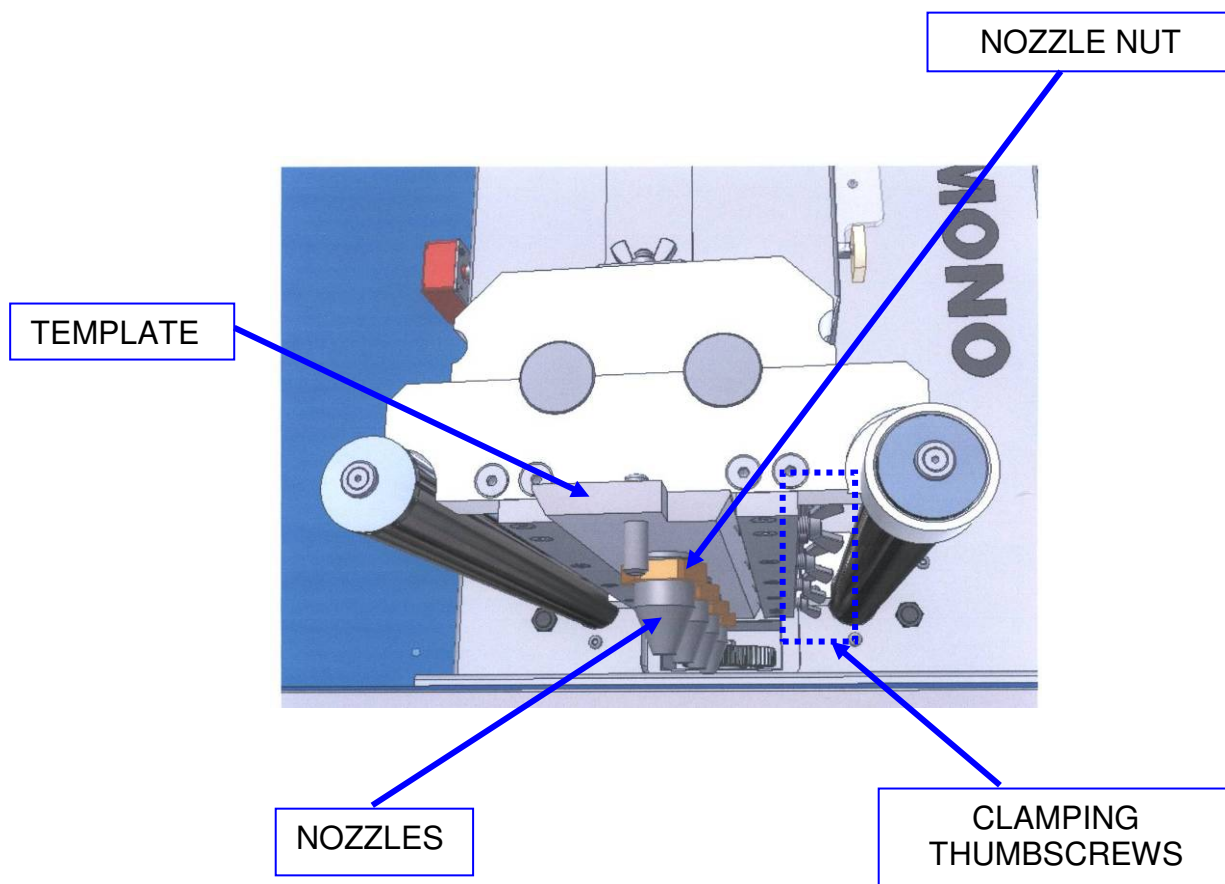
Non-rotary templates that can be fitted with nozzles, require them to be secured in place with a separate nut. Nozzles are not required for sheeting templates.

Rotary templates require nozzles to be secured in place with a separate nut.

- 1 Select template and nozzles required.
- 2 Attach nozzles to template body using special nut:
- 3 Slide template into position and hand-tighten thumbscrews.

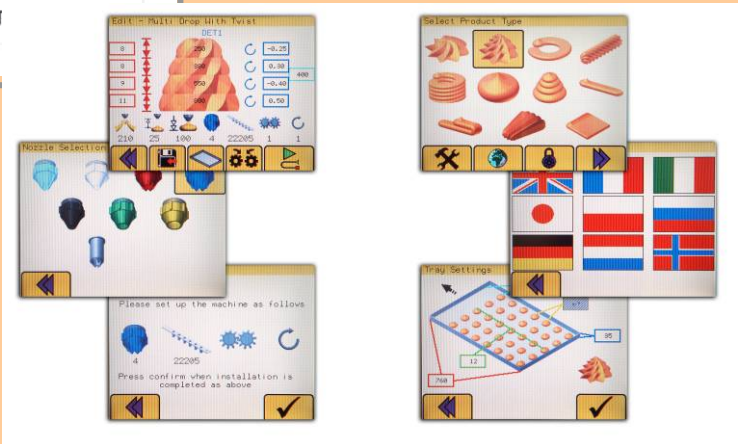
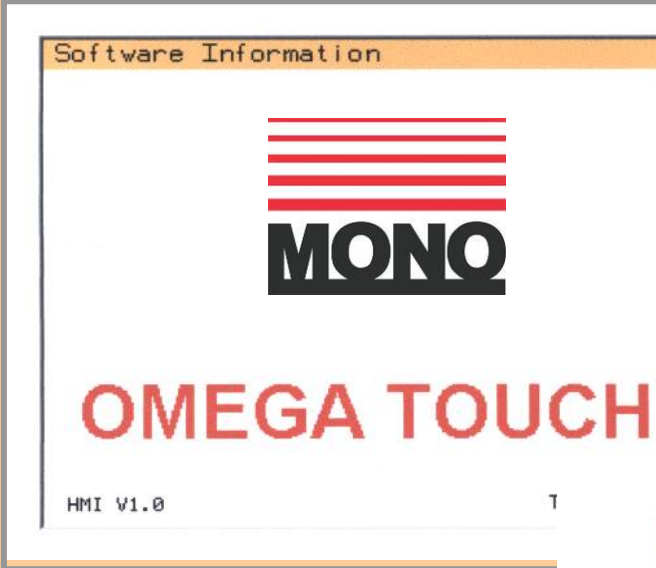
NOTE.

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 while the screws are tightened.



DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED


10.0 'OMEGA TOUCH' OPERATION



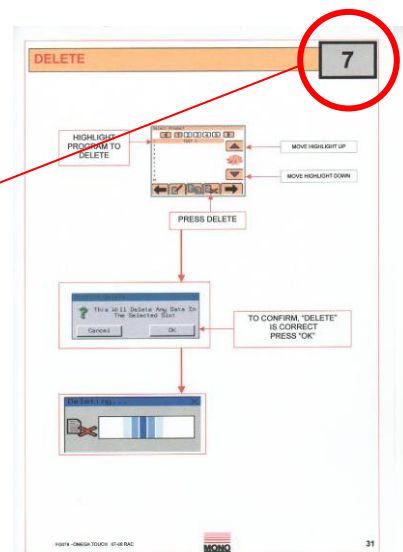
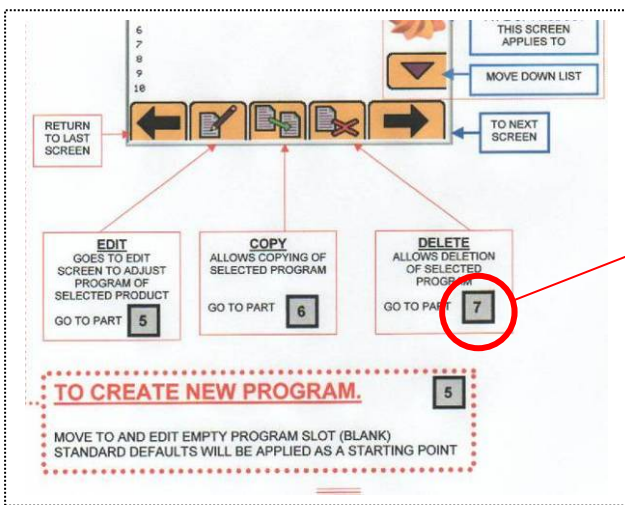
OPERATING KEY FOR FOLLOWING INSTRUCTIONS

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)

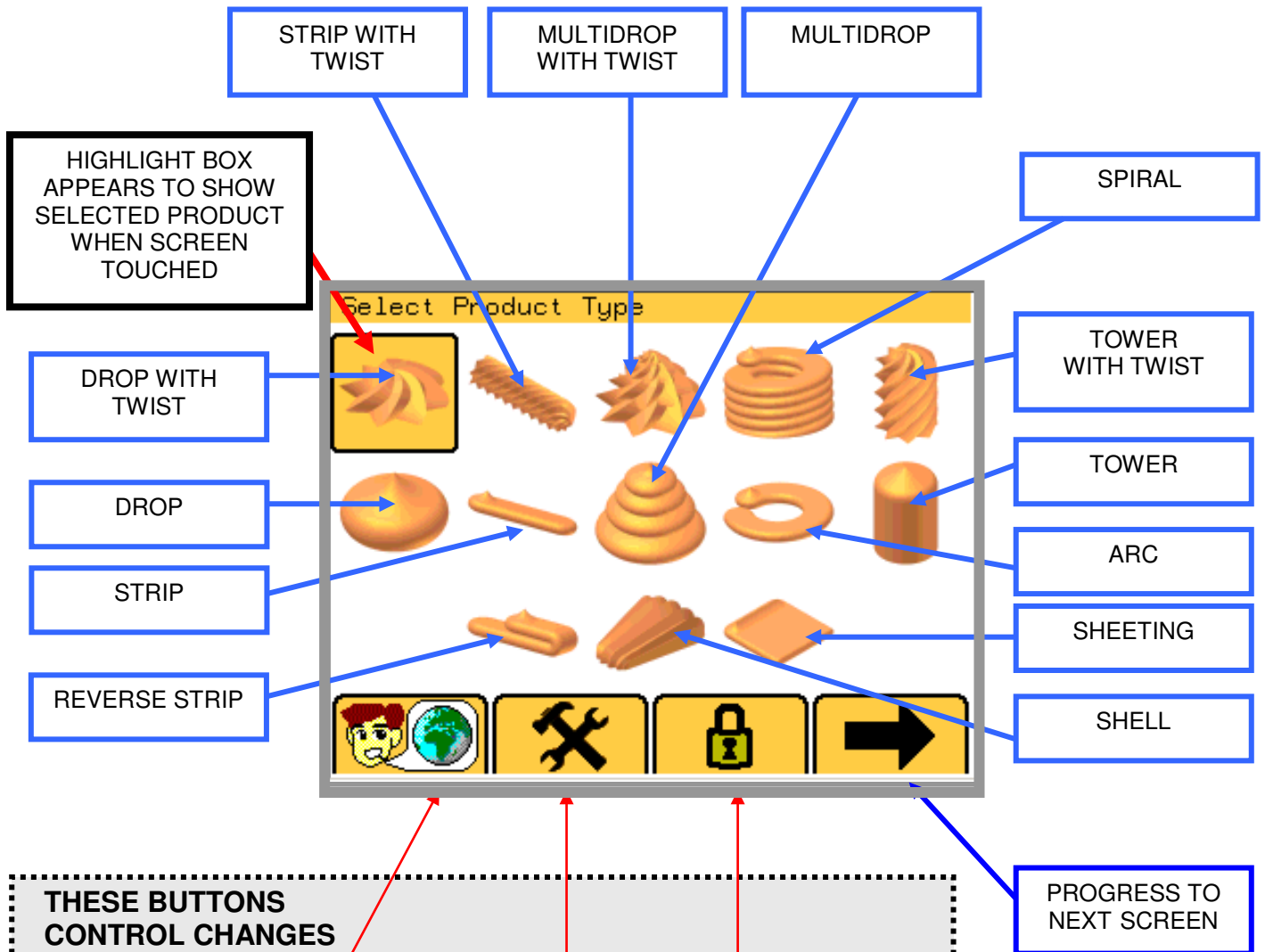


SELECT PRODUCT TYPE

SELECT PRODUCT TO DEPOSIT OR TO CREATE NEW PROGRAM

1

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



THESE BUTTONS CONTROL CHANGES TO THE MACHINE

CHOOSE LANGUAGE

TO LAST SCREEN

MACHINE SETUP

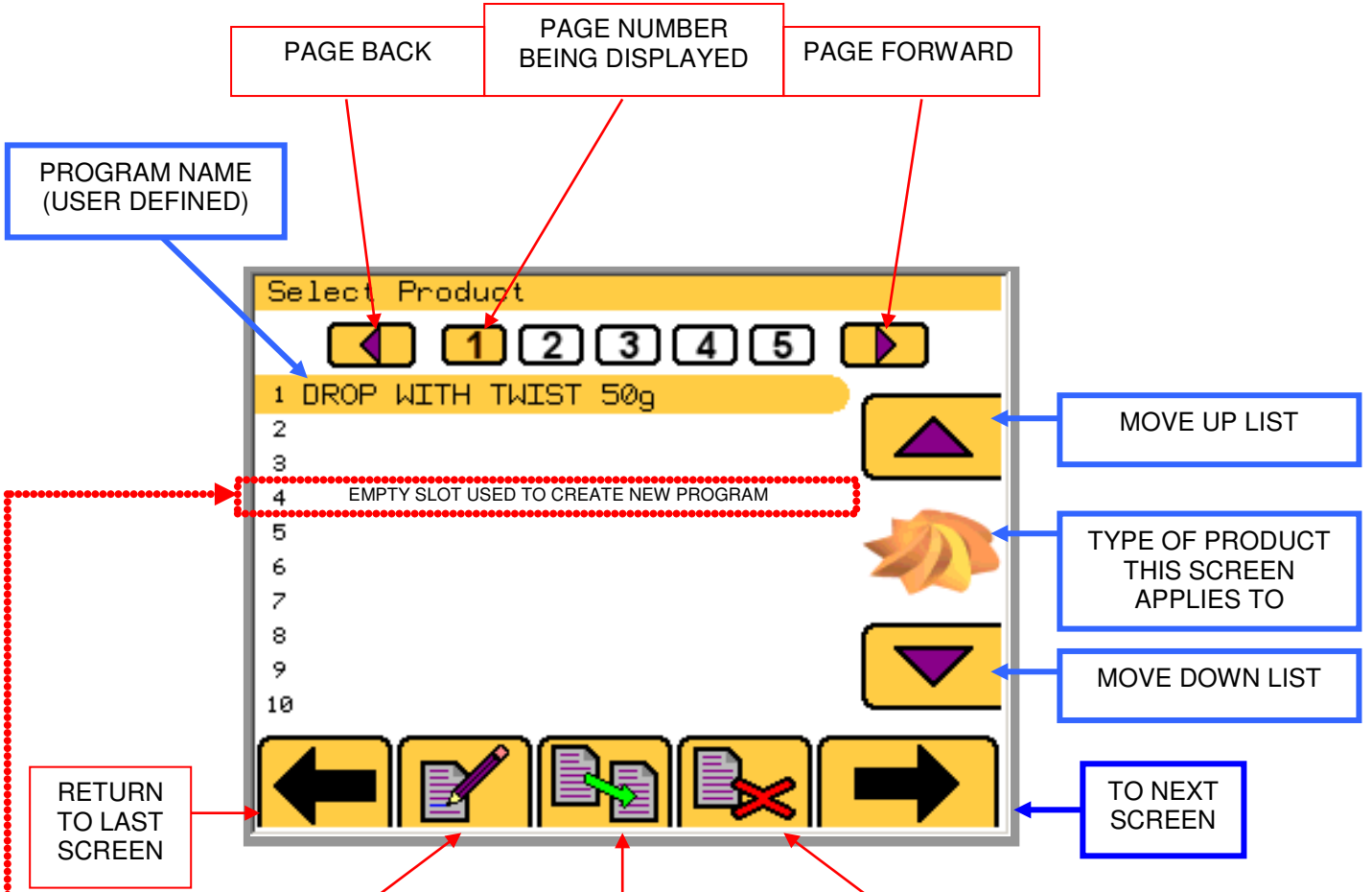
PRODUCT EDITING
COPYING
DELETING

PASSWORDS ARE REQUIRED FOR THESE FUNCTIONS. SEE PART 8



SELECT SAVED PRODUCT TYPE

OR CHOOSE EMPTY SLOT TO CREATE A NEW PROGRAM



EDIT
 GOES TO EDIT SCREEN TO ADJUST PROGRAM OF SELECTED PRODUCT
 GO TO PART **5**

COPY
 ALLOWS COPYING OF SELECTED PROGRAM
 GO TO PART **6**

DELETE
 ALLOWS DELETION OF SELECTED PROGRAM
 GO TO PART **7**

TO CREATE NEW PROGRAM. **5**

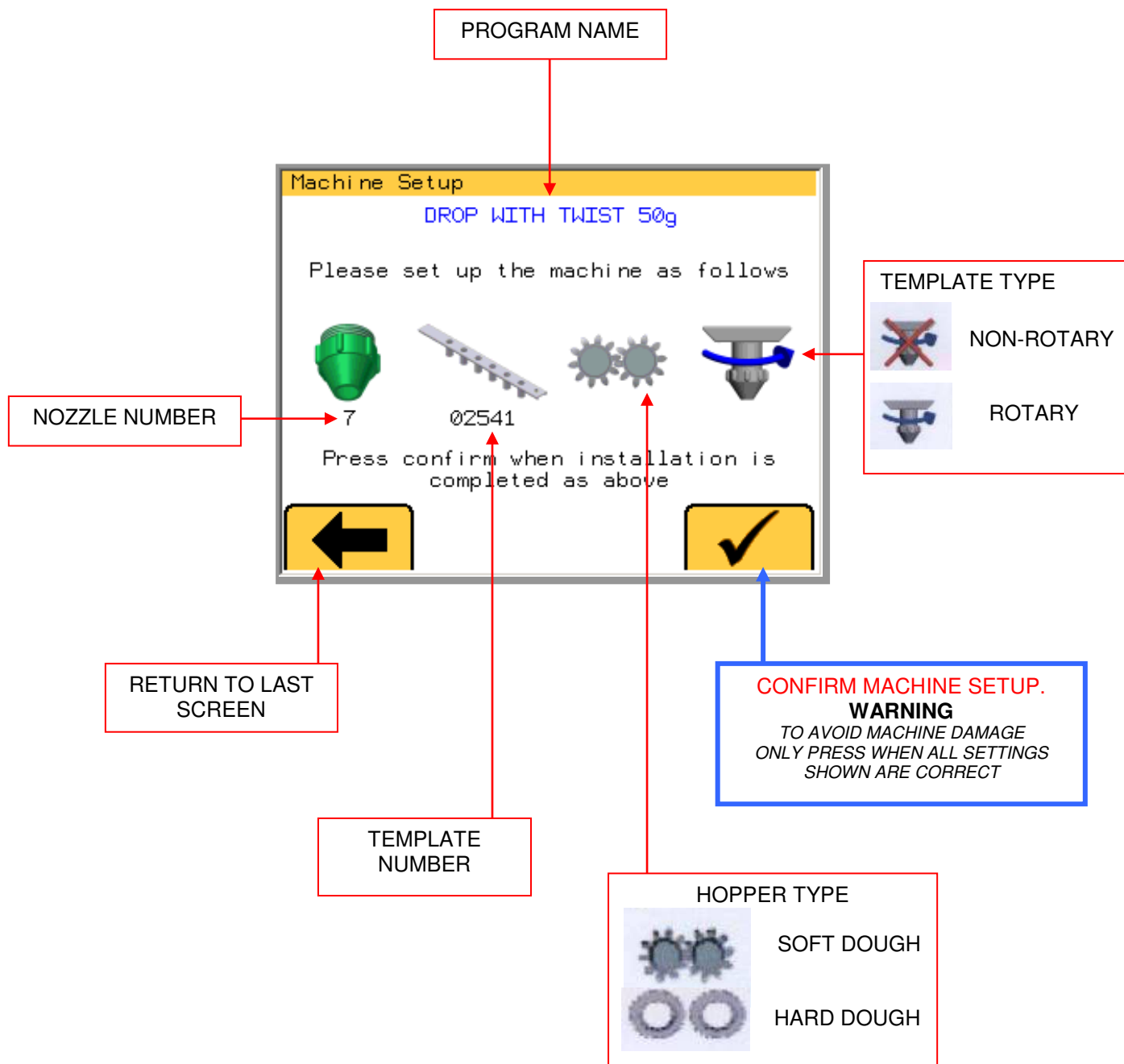
MOVE TO AND EDIT EMPTY PROGRAM SLOT (BLANK)
 STANDARD DEFAULTS WILL BE APPLIED AS A STARTING POINT



CONFIRM SETUP OF MACHINE

3

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

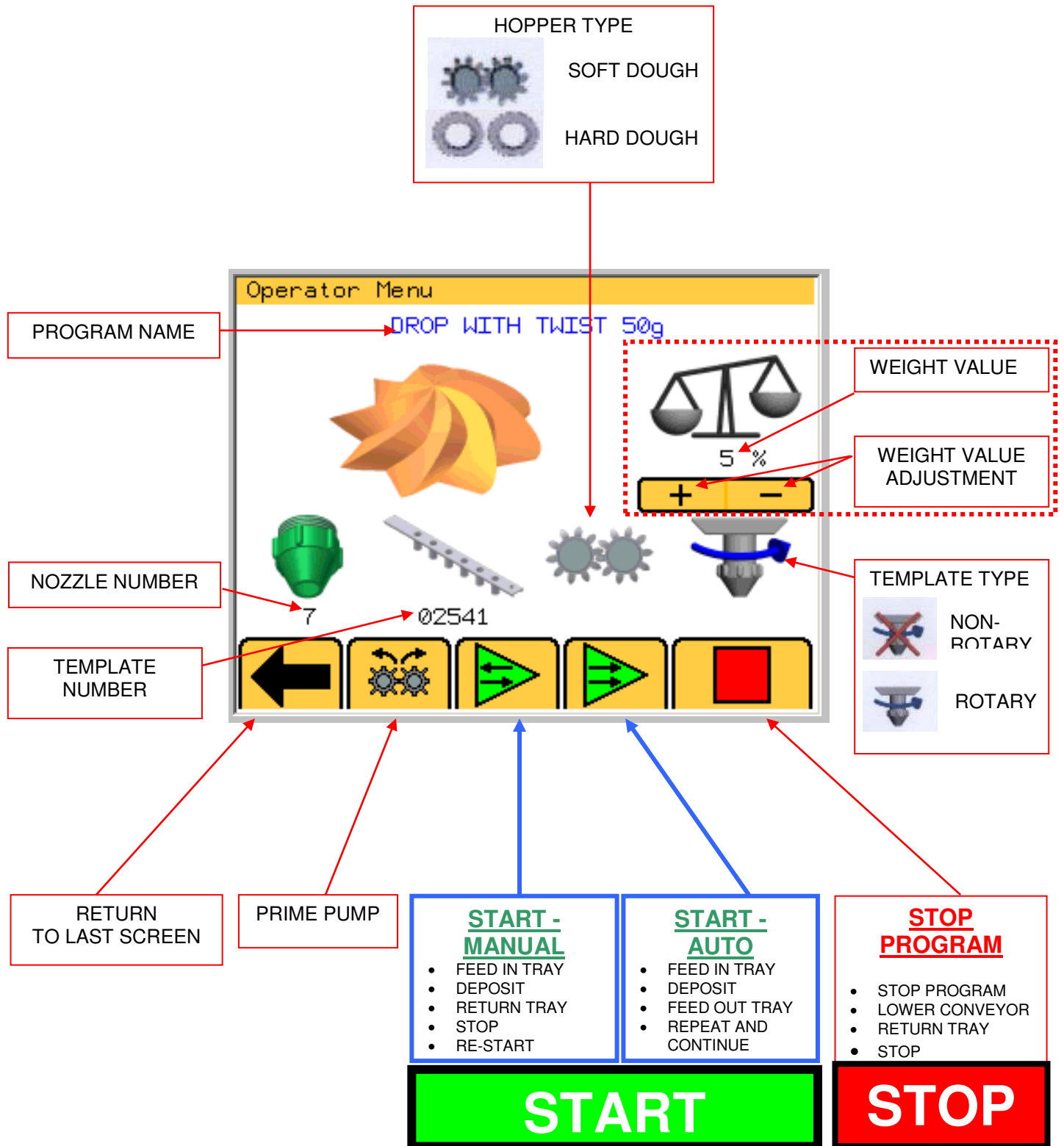


TO AVOID MACHINE DAMAGE
ONLY PRESS CONFIRM BUTTON WHEN ALL PARTS ATTACHED TO THE MACHINE
ARE AS SHOWN ON THE SCREEN

OPERATOR SCREEN

4

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

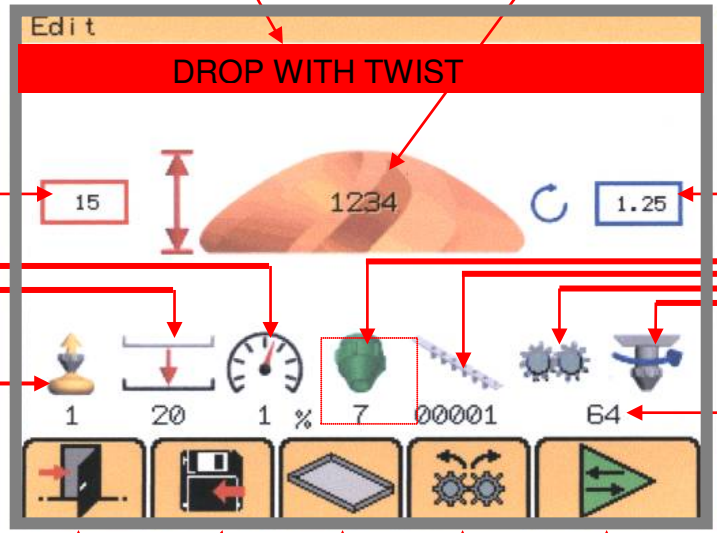


EDIT AND SAVE SCREEN

**EXAMPLE:
DROP WITH
TWIST**

PROGRAM NAME
*MUST BE ENTERED TO
ALLOW PROGRAM TO SAVE*

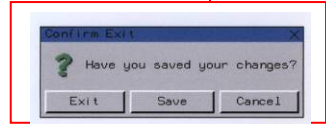
PRODUCT QUANTITY
*THIS IS A SETTING NUMBER AND
DOES NOT INDICATE A MEASURE OF
ACTUAL VOLUME*



NOZZLE HEIGHT (mm)
ABOVE TRAY SURFACE

NOZZLE ROTATIONS
*NUMBER OF TURNS
DURING A DEPOSIT CYCLE*

EXIT THIS SCREEN



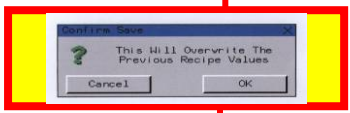
ENTER TRAY
SETUP
SCREEN
**GO TO PART
5A**

MAX HEIGHT FOR
HOPPER/TEMPLATE
COMBINATION

START
MANUAL MODE

PRIME PUMP
(SOFT DOUGH SHOWN)

SAVE EDITS



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

TEMPLATE TYPE
ROTARY
NON-ROTARY

SELECT HOPPER
HARD DOUGH
SOFT DOUGH

TEMPLATE NUMBER
*ENTER VIA KEYPAD
THAT APPEARS WHEN
PRESSED*



SUCK BACK
QUANTITY

TABLE
JOG DISTANCE (mm)

OVERALL
MACHINE SPEED
(% OF MAXIMUM)

CHOOSE NOZZLE TYPE

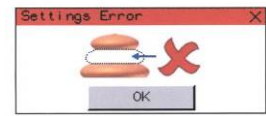


**EXAMPLE:
MULTIDROP WITH
TWIST**

DEPOSIT QUANTITY
FOR EACH LAYER

SETTING ERROR
INDICATOR

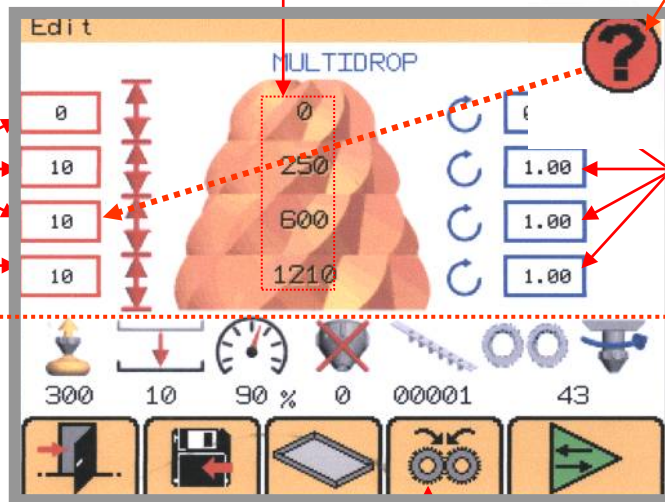
BOXES TURN RED WHEN
INCORRECT SETTING MADE



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**

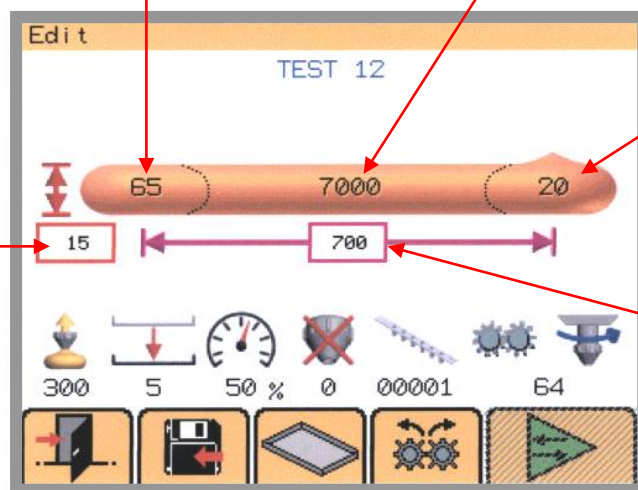
DEPOSIT QUANTITY
FOR BEGINNING OF
PRODUCT

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

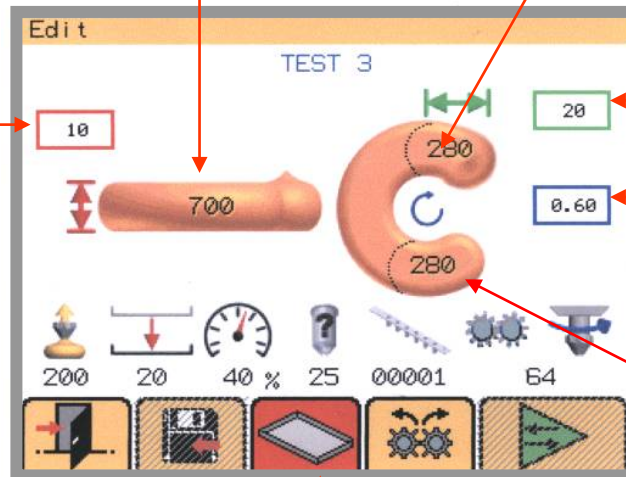
DEPOSIT QUANTITY
FOR END OF
PRODUCT
(-VE VALUES POSSIBLE)

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)

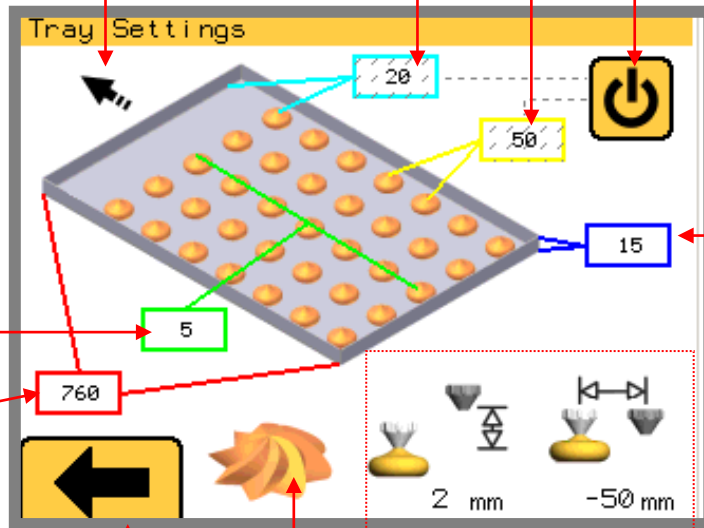
MANUAL OVER-RIDE FOR ROW SPACING
ON/OFF

DIRECTION OF TRAY MOVEMENT

NUMBER OF ROWS PER TRAY

TRAY EDGE HEIGHT (mm)

TRAY LENGTH (mm)

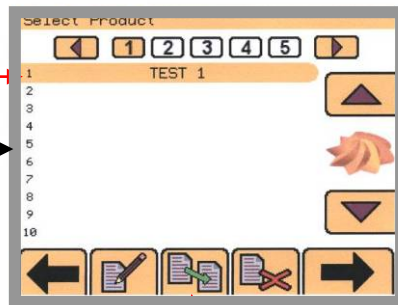


TO LAST SCREEN

WIPE BACK BUTTON
(DISTANCE MOVED BY TRAY AFTER DEPOSIT)

PRODUCT TYPE

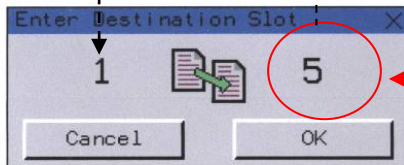
HIGHLIGHT PROGRAM TO COPY



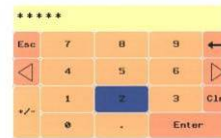
MOVE HIGHLIGHT UP

MOVE HIGHLIGHT DOWN

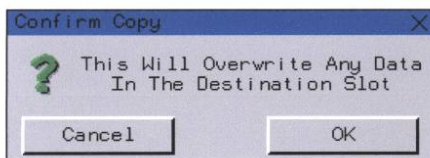
PRESS COPY



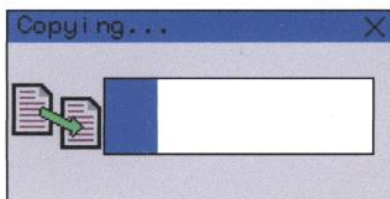
PRESS, THEN ENTER PROGRAM LIST POSITION REQUIRED TO COPY TO.



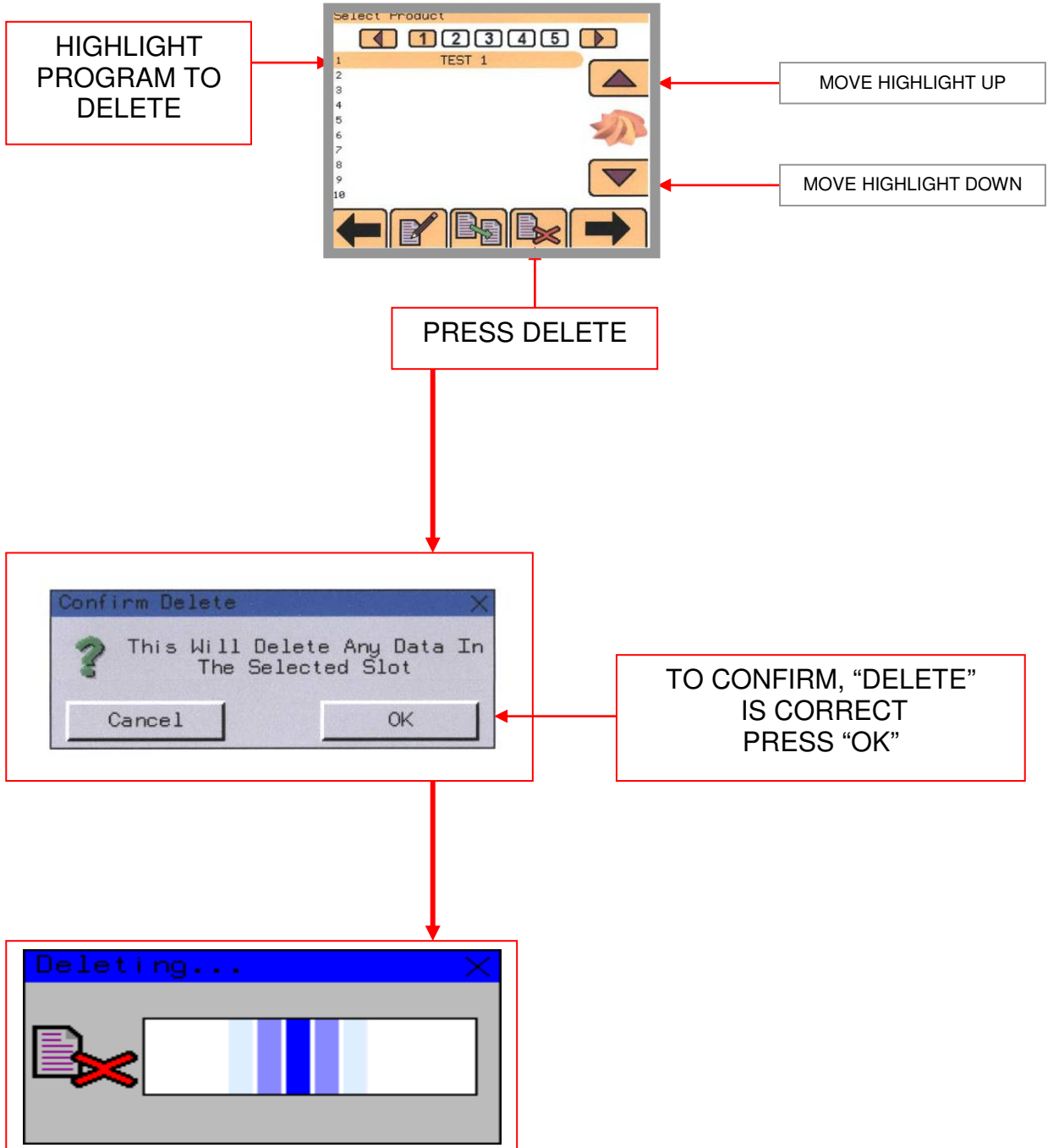
PRESS "OK"



CONFIRM "COPY TO" POSITION IS CORRECT PRESS "OK"

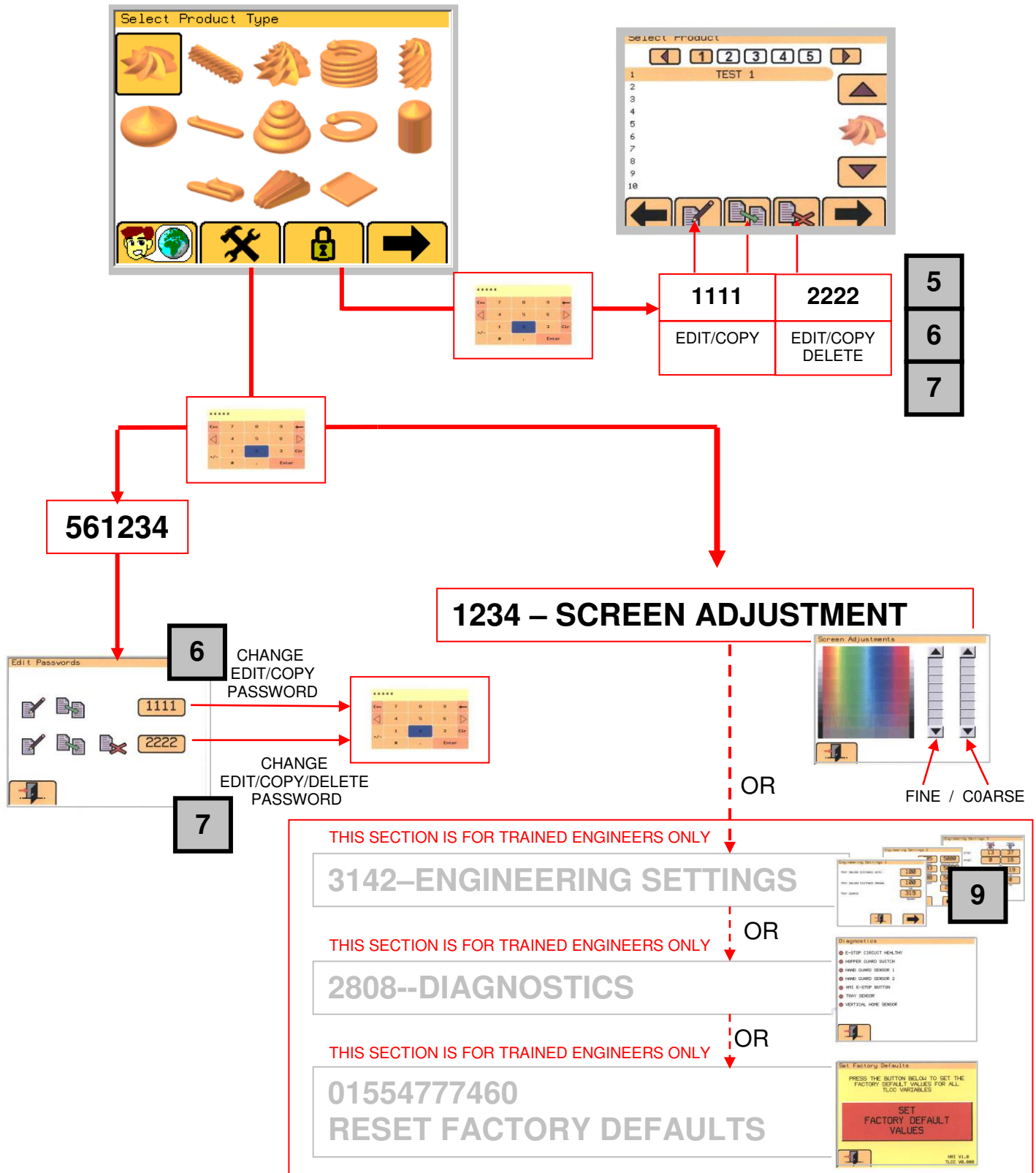


PROGRAM DETAILS ARE COPIED TO NEW LOCATION

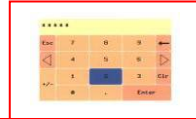


CAUTION

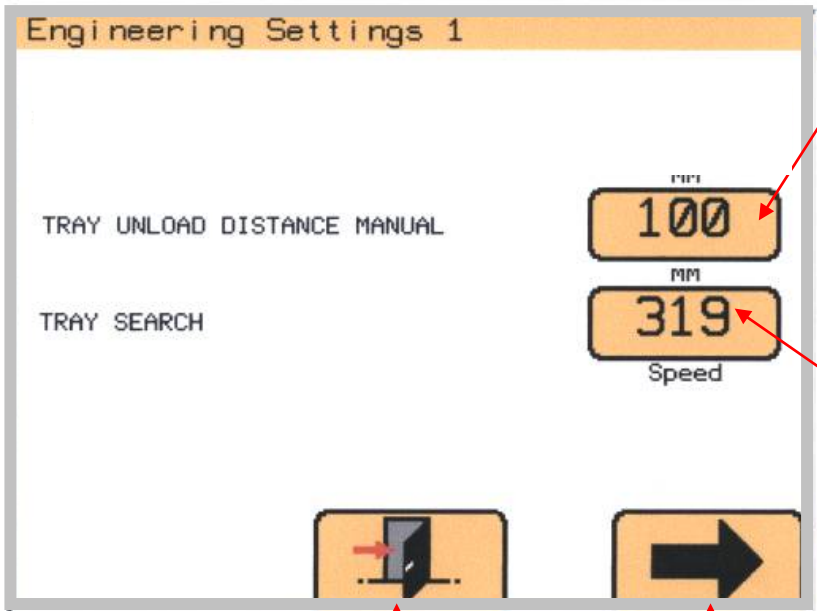
DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS



THIS SECTION IS FOR TRAINED ENGINEERS ONLY



IN MANUAL MODE:
DISTANCE THAT THE LEADING EDGE
OF THE TRAY IS BROUGHT BACK
PASSED THE TRAY SENSOR, WHEN
RETURNING TO OPERATOR



SPEED VALUE THAT TRAY IS
FED UP TO TRAY SENSOR



EXIT
THIS SCREEN

GO TO NEXT SCREEN
ENGINEERING SETTING 2
(NEXT PAGE)

CAUTION

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

ENGINEERING SETTINGS (2)

9/2

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

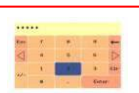
DEFAULT TRAY SPEED
(MOVEMENT BETWEEN ROWS)



DEFAULT JOG SPEED
(VERTICAL AFTER DEPOSIT)



DEFAULT SPEED OF PUMP
(100% VALUE IN PRODUCT SETUP PROGRAM)



Engineering Settings 2

DEFAULT PUMP	700 Speed	3000 Acceleration
DEFAULT JOG	250 Speed	5000 Acceleration
DEFAULT TRAY	600 Speed	5000 Acceleration
PRIME PUMP		250 Speed

← →

DEFAULT ACCELERATION FOR PUMP



DEFAULT ACCELERATION FOR JOG



DEFAULT ACCELERATION FOR TRAY



PUMP SPEED WHEN USING PRIME BUTTON



EXIT THIS SCREEN

GO TO PREVIOUS SCREEN
ENGINEERING SETTING 1
(PREVIOUS PAGE)

GO TO NEXT SCREEN
ENGINEERING SETTING 3
(NEXT PAGE)

CAUTION

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

ENGINEERING SETTINGS (3)

9/3

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

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

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

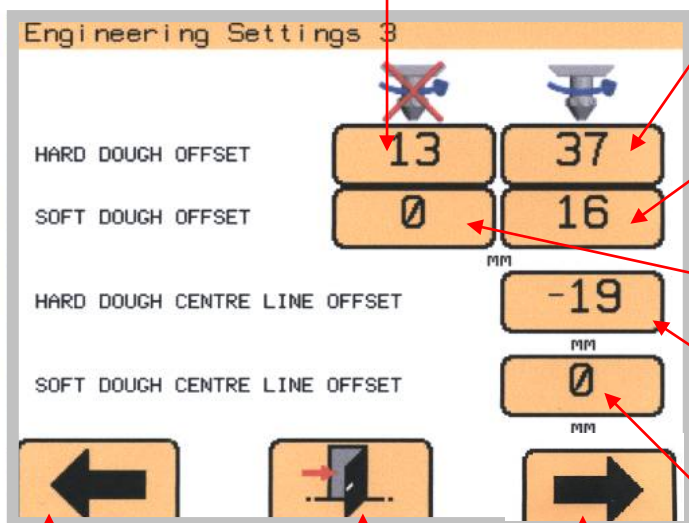
OFFSET HEIGHT VALUE (mm)
**HARD DOUGH HOPPER
ROTARY TEMPLATE**

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

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

GEARBOX RATIOS

The screenshot displays the 'Engineering Settings 4' interface with the following data:

Setting	Value 1	Value 2
PUMP GEARBOX RATIO	28	1
TRAY GEARBOX RATIO	10	1
JOG GEARBOX RATIO	15	1
ROTARY GEARBOX RATIO	10	1

Navigation and Exit options:

- Left arrow: GO TO PREVIOUS SCREEN ENGINEERING SETTING 3 (PREVIOUS PAGE)
- Center icon: EXIT THIS SCREEN
- Right arrow: GO TO NEXT SCREEN ENGINEERING SETTING 5 (NEXT PAGE)

Labels on the right side of the screen:

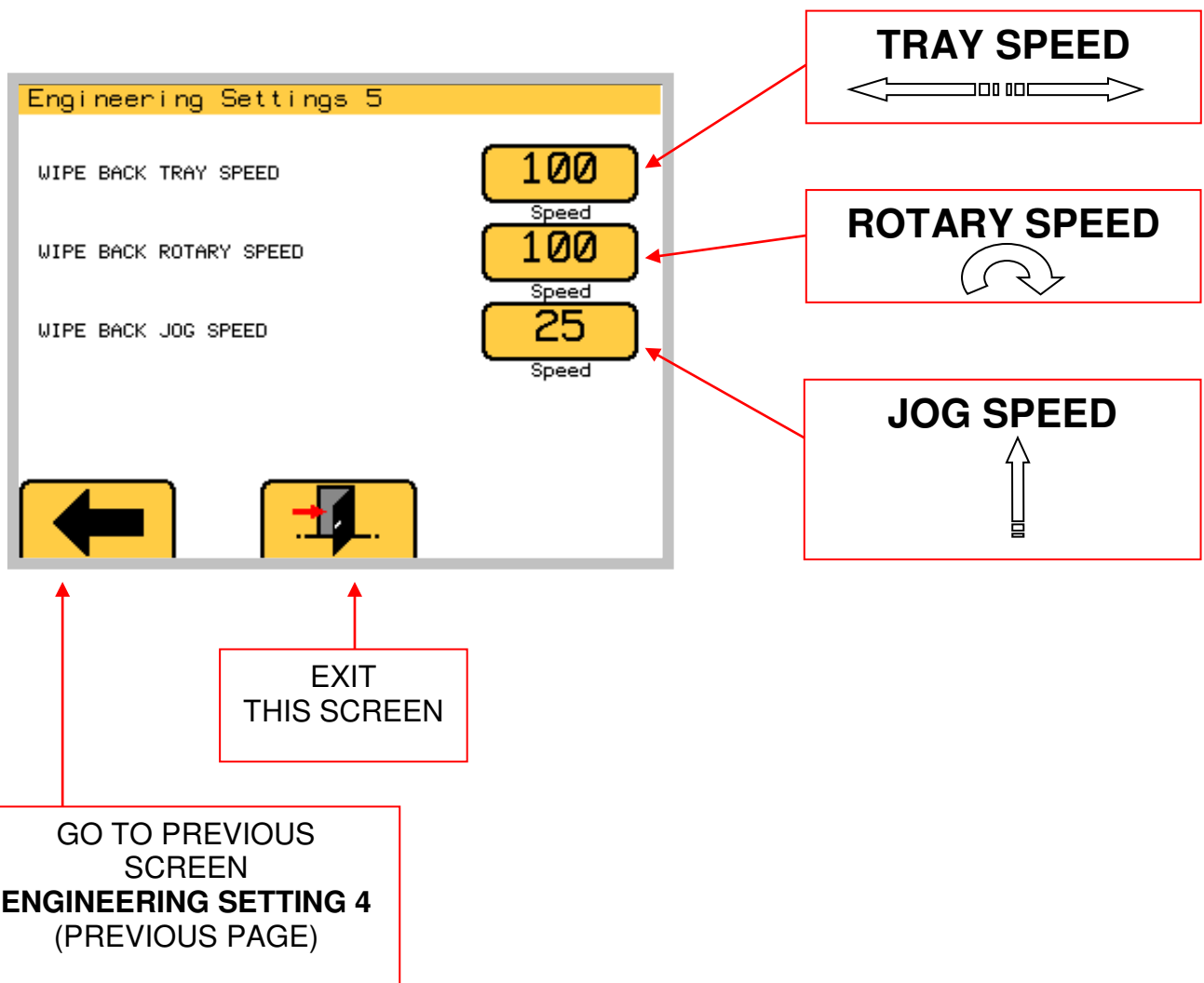
- PUMP
- TRAY
- JOG
- ROTARY

CAUTION

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

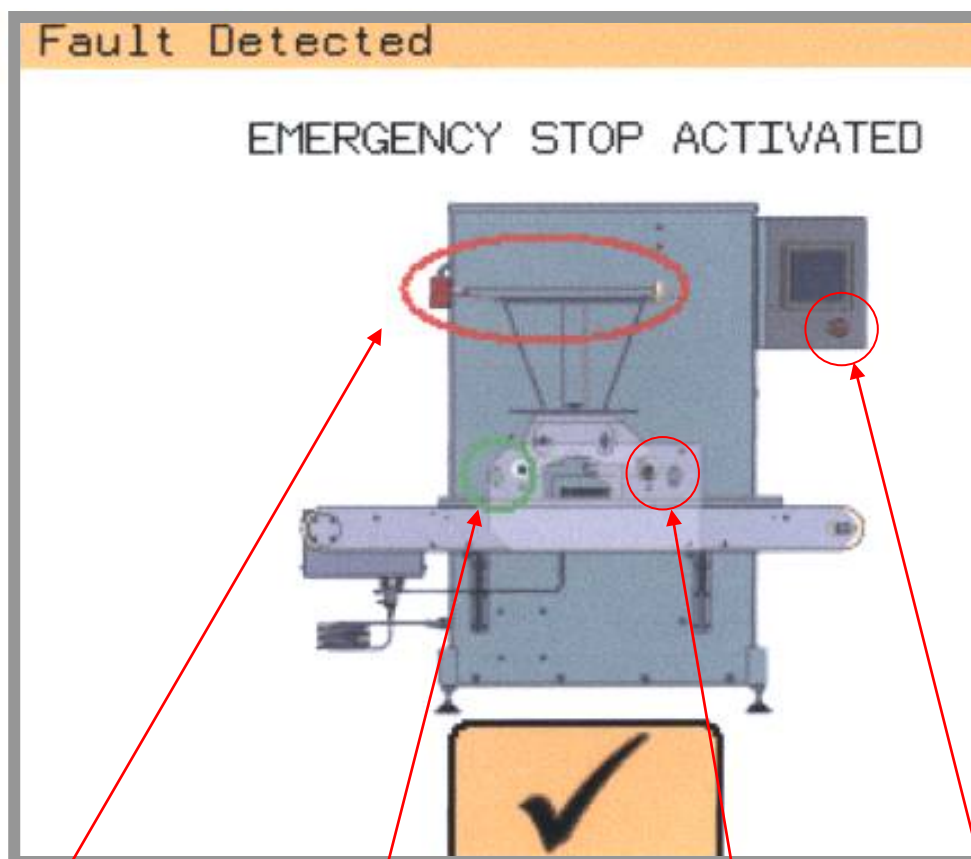
THIS SECTION IS FOR TRAINED ENGINEERS ONLY

WIPE BACK DEFAULT SETTINGS (SEE 5A)



CAUTION

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



HOPPER COVER

SAFETY BEAM


SAFETY BEAM

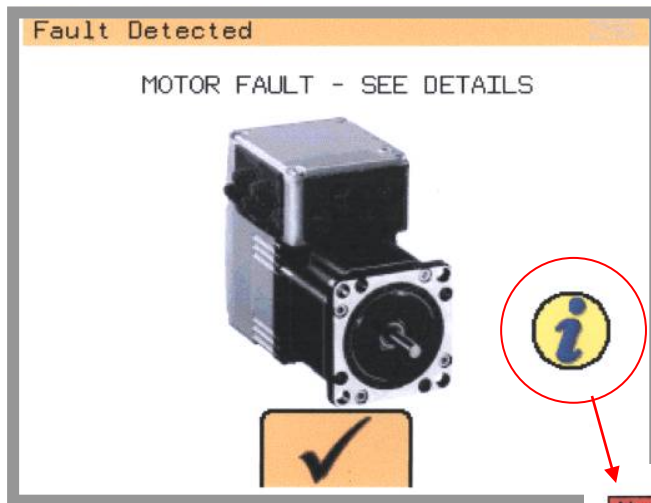
STOP BUTTON

THIS SCREEN INDICATES A FAULT CONDITION IN THE SAFETY AREAS.

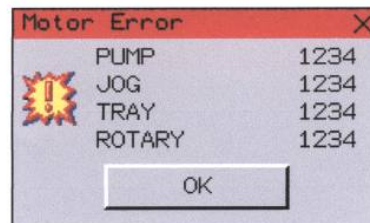
WHEN **RED**, CLOSE COVER OR CLEAR OBSTRUCTIONS TO CLEAR FAULT.
WHEN INDICATOR GOES **GREEN**, FAULT HAS BEEN CORRECTED AT THAT POSITION.

PRESS  BUTTON TO CLEAR SCREEN

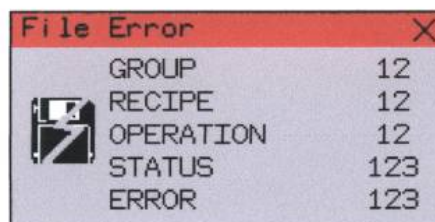
IF THE FOLLOWING SCREEN APPEARS, CHECK THAT THE TABLE MOVEMENT ETC. IS NOT JAMMED WITH SOMETHING. IF IT IS, CLEAR THE OBSTRUCTION AND PRESS  TO PROCEED.



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.**

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

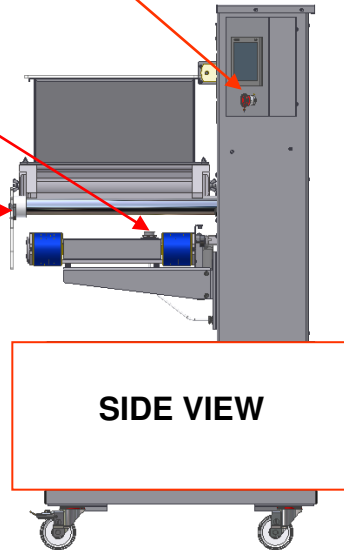
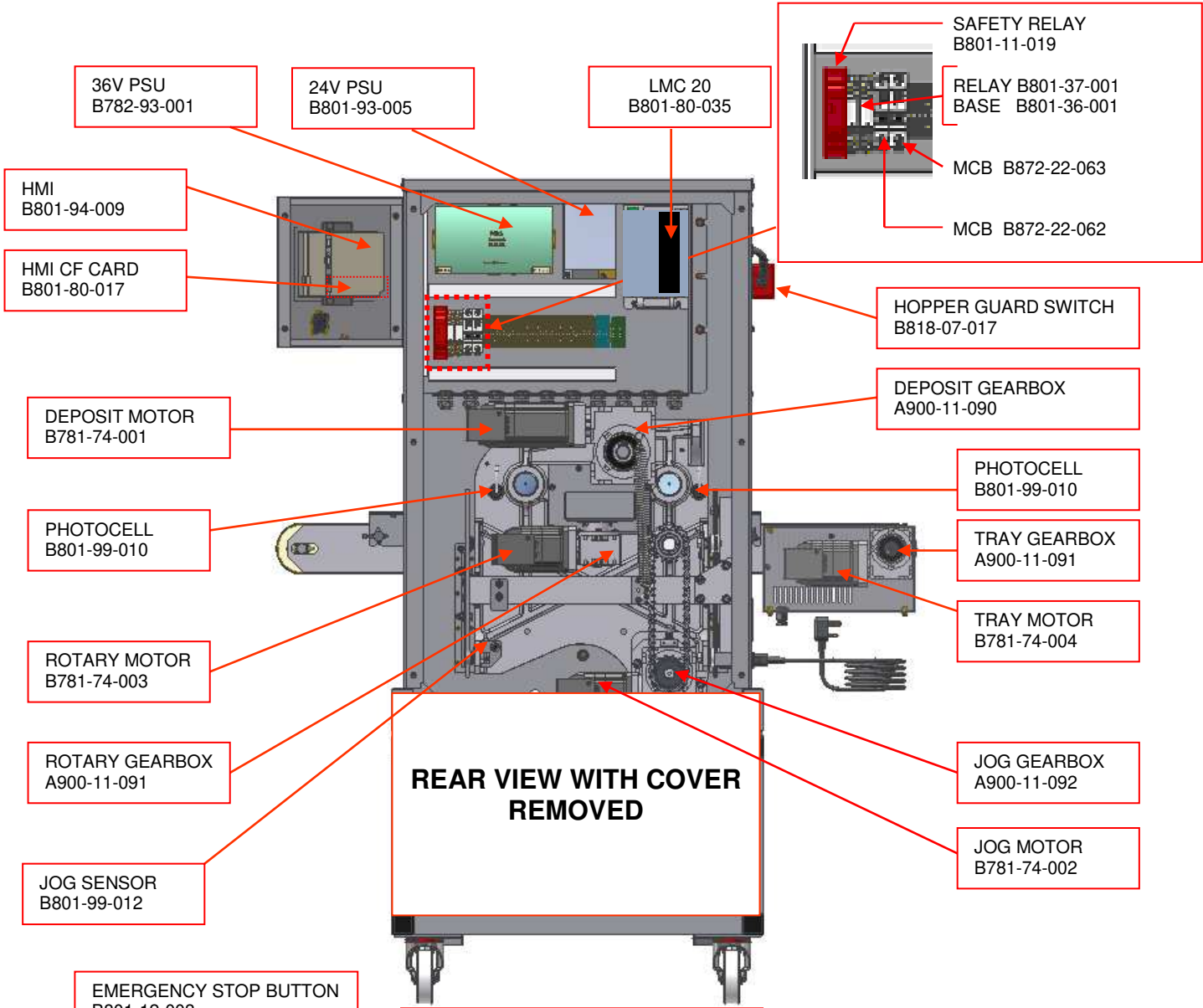
Fax. 01792 561016



13.0 SPARES
TOUCH VERSION

ELECTRICAL COMPONENT LAYOUT PARTS

Omega Touch



MECHANICAL COMPONENT LAYOUT PARTS

DEPOSIT DRIVE SHAFT SEAL
A900-12-079

V-SLIDE
M078-03-00016

THUMBSCREW
P700-04-018

IDLE SPROCKET
A900-07-072

CONVEYOR BELT
A900-22-120

BEARING-
DRIVE SHAFT
A900-06-277

BEARING – IDLE ROLLER
A900-06-261

NYLON WASHER – IDLE ROLLER
A900-05-210

V-ROLLER
CONCENTRIC-A900-06-274
ECCENTRIC – A900-06-273

**REAR VIEW WITH COVER
REMOVED**

PLAIN ROLLER
A900-06-136

CHAIN
A900-08-066

LOCKING CASTOR
A900-20-043

SWIVEL CASTOR
A900-20-002

RUBBER FOOT
A900-18-006

DRIVE SPROCKET
A900-07-071

ROTARY DRIVESHAFT SEAL
A900-12-075

**REAR VIEW WITH
COVER REMOVED**

BASE MACHINE SPARES LIST

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
Slide Plate	078-03-00016	2
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
Top Guard 400mm/450mm Hopper	078-09-00005	1
Top Guard 580mm Hopper	078-09-00044	1
End Guard	078-11-00001	1
Retainer – End Guard	078-11-00002	2
Spacer - 450/580mm Hopper	078-11-00003	1
Spacer – 400mm	078-11-00004	1
Seal-Rear Cover	A900-25-309	1

HARD DOUGH HOPPER PARTS

Omega Touch

HOPPER FABRICATION

STANDARD CAPACITY

M078-09-00086 (400mm)
 M078-09-00042 (450mm)
 M078-09-00089 (580mm)

EXTENDED CAPACITY

M078-09-00087 (400mm)
 M078-09-00088 (450mm)
 M073-09-00092 (580mm)

WINGNUT
 A900-04-147

UPPER END BLOCK
 (DRIVEN SIDE)
 M078-09-00037

DRIVE ROLLER

M078-09-00066 (400mm)
 M078-09-00060 (450mm)
 M078-09-00074 (580mm)

TEMPLATES

ROTARY
 ■ SMALL BORE
 ■ LARGE BORE
 STANDARD
 ■ SMALL BORE
 ■ LARGE BORE
 DIE
 SHEETING

DRIVEN ROLLER

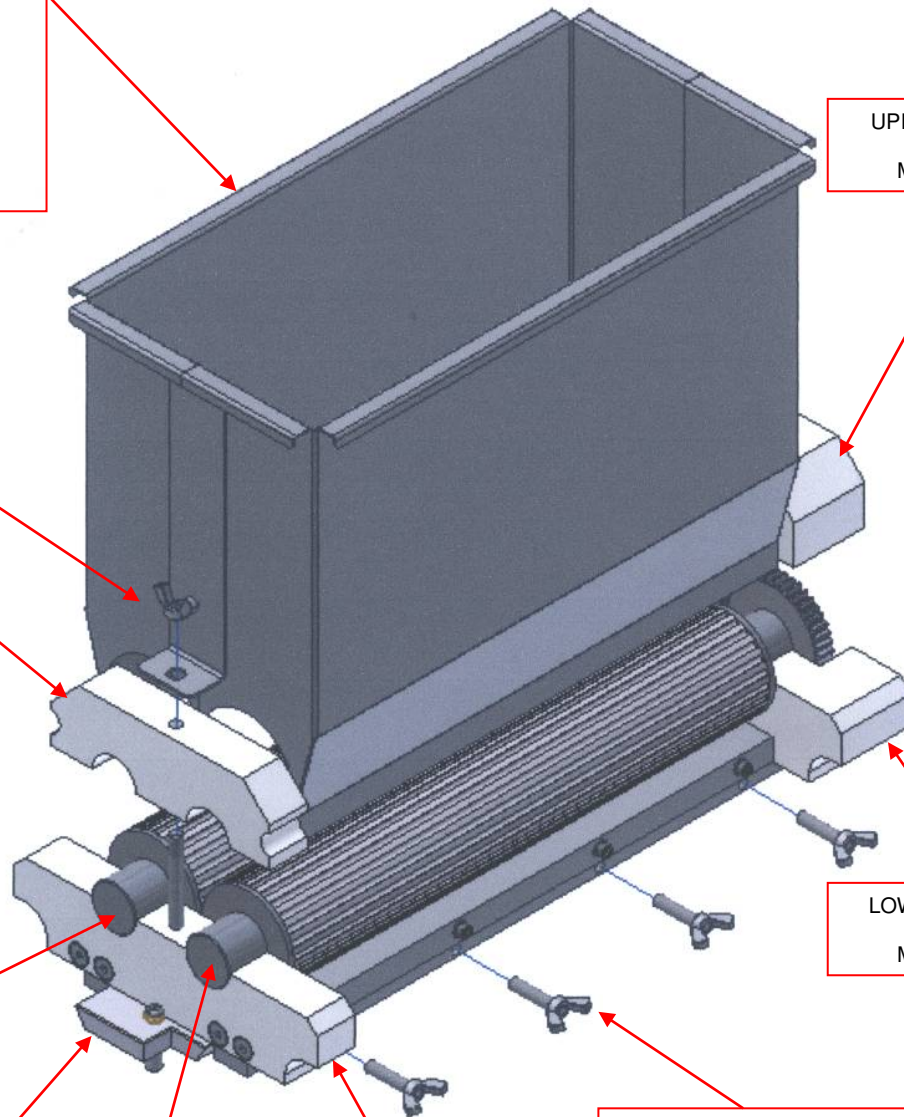
M078-09-00067 (400mm)
 M078-09-00061 (450mm)
 M078-09-00075 (580mm)

LOWER END BLOCK
 (DRIVEN SIDE)
 M078-09-00035

THUMBSCREW
 M078-09-00043

UPPER END BLOCK
 (DRIVE SIDE)
 M078-09-00036

LOWER END BLOCK
 (DRIVE SIDE)
 M078-09-00034



SOFT DOUGH HOPPER PARTS

HOPPER FABRICATION

STANDARD CAPACITY

M078-09-00008 (400mm)
 M078-09-00001 (450mm)
 M078-09-00046 (580mm)

EXTENDED CAPACITY

M073-09-00200 (400mm)
 M073-09-00202 (450mm)
 M073-09-00203 (580mm)

WINGNUT
 A900-04-043

HOPPER SEAL

A900-12-083 (400mm)
 A900-12-084 (450mm)
 A900-12-085 (580mm)

DRIVEN GEAR

M073-09-00702 (400mm)
 M073-09-01602 (450mm)
 M073-09-01702 (580mm)

DRIVE GEAR

M073-09-00700 (400mm)
 M073-09-01600 (450mm)
 M073-09-01700 (580mm)

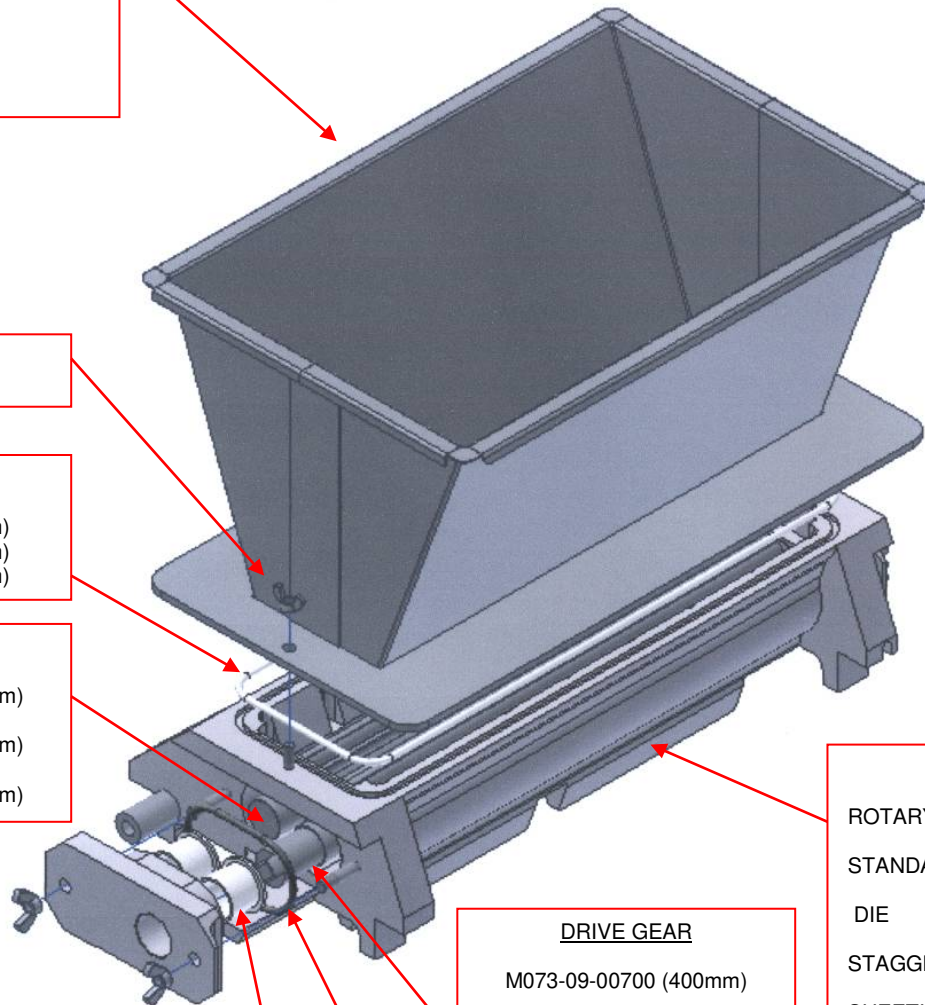
WINGNUT
 A900-04-147

END CAP BUSH
 M073-09-00600

END CAP SEAL
 A900-12-074

TEMPLATES

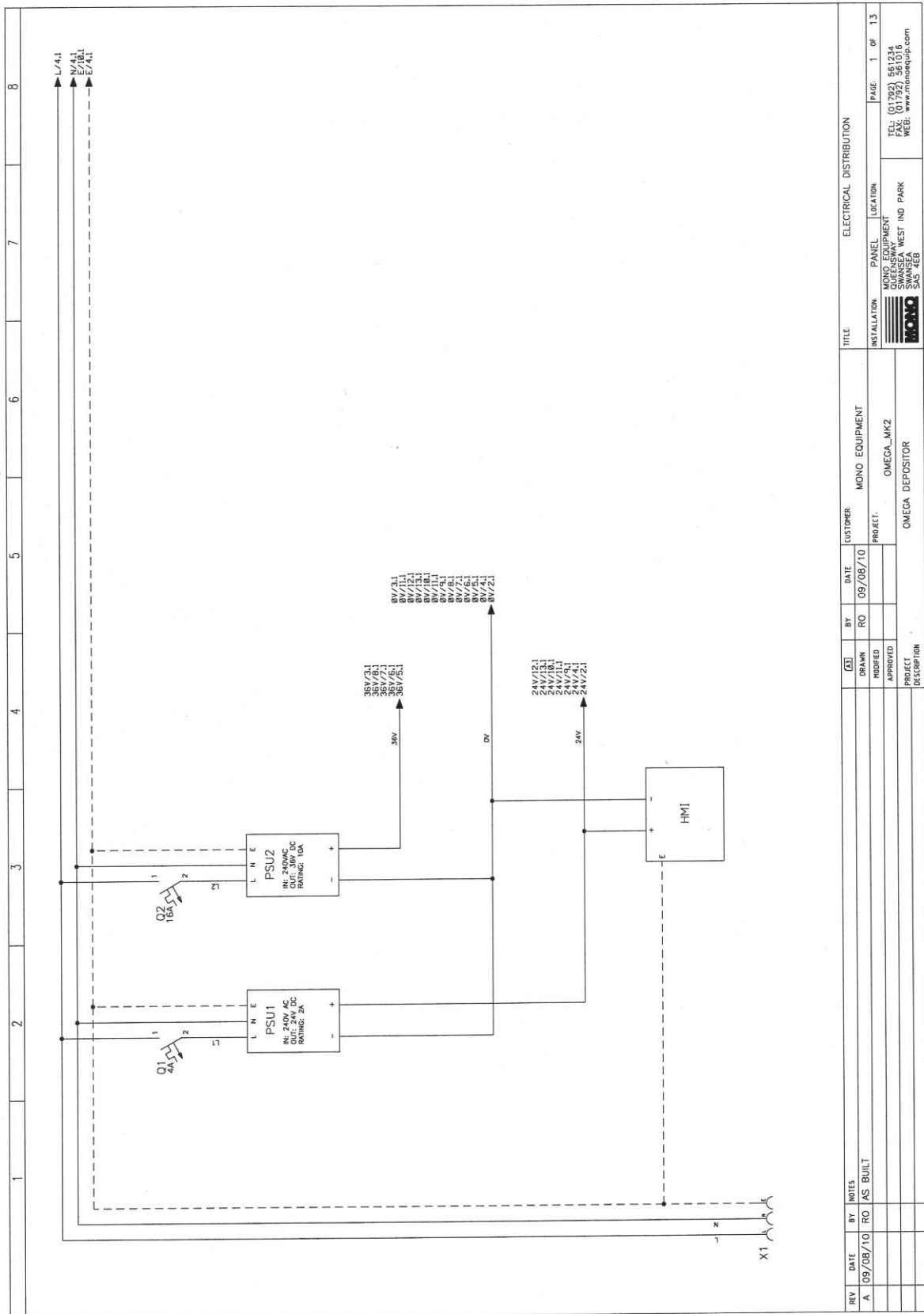
ROTARY
 STANDARD
 DIE
 STAGGERED
 SHEETING
 ■ NON-DRIP
 ■ MULTI SHEETING
 INJECTION



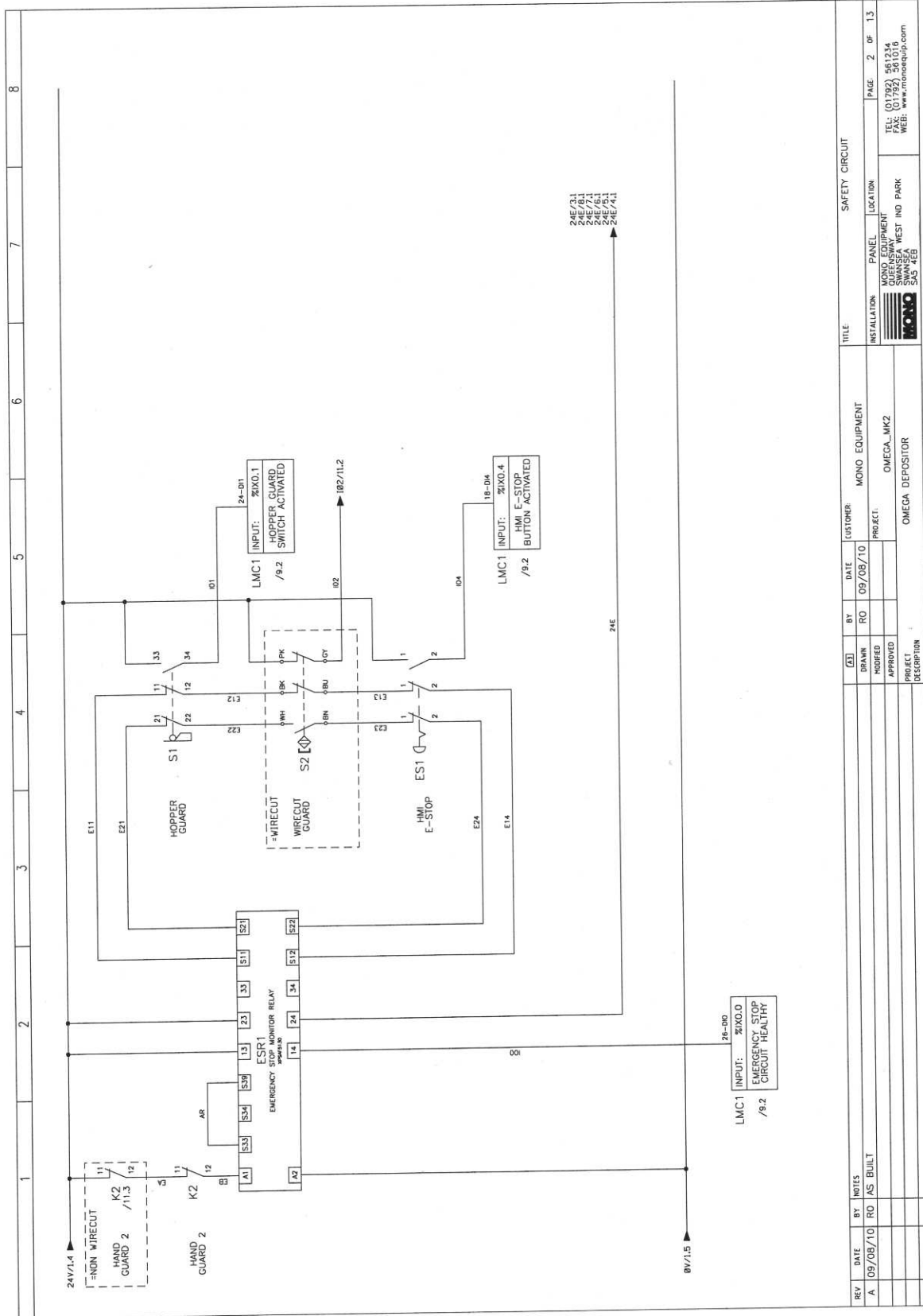


14.0 ELECTRICAL INFORMATION

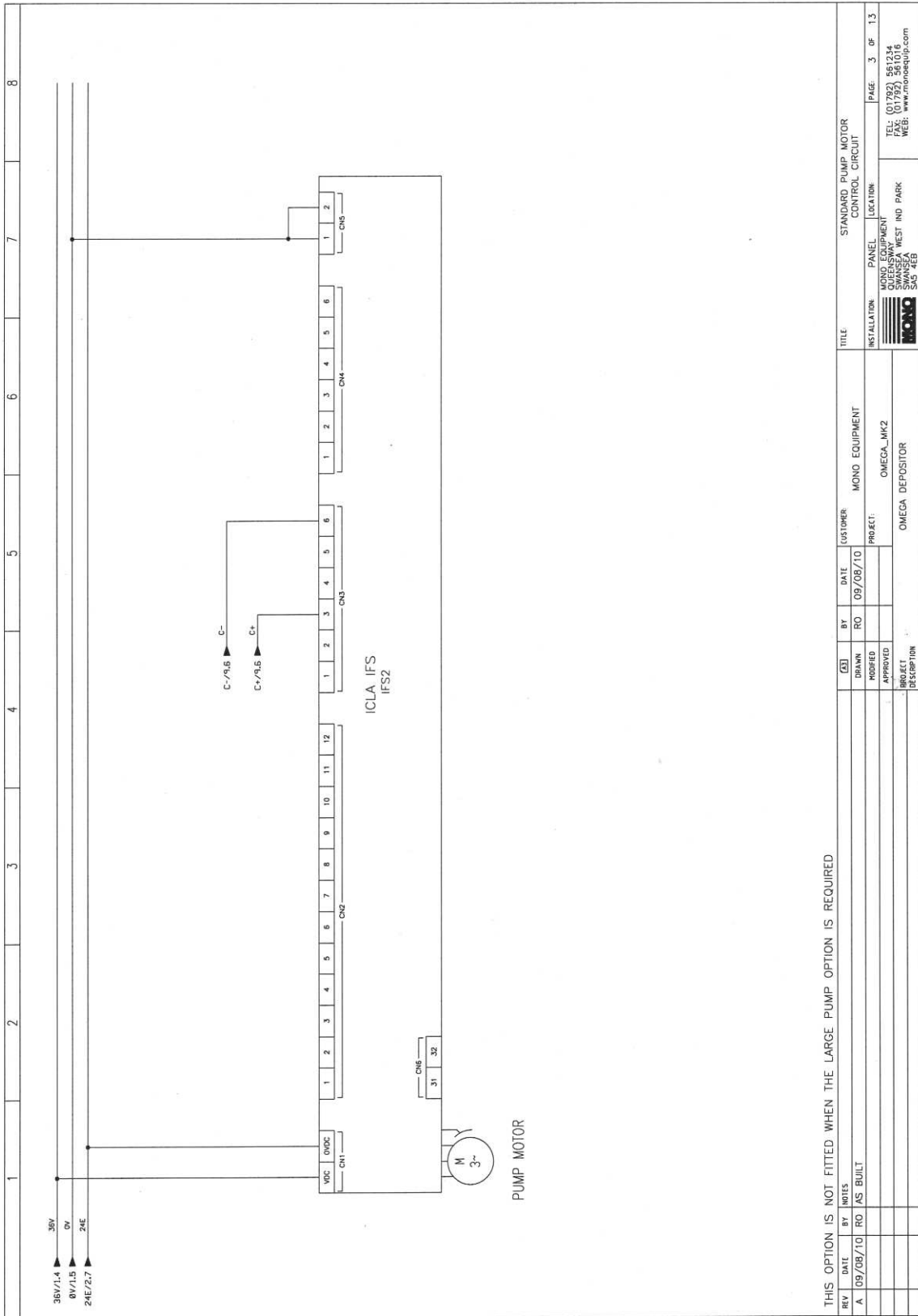
TOUCH VERSION



REV	DATE	BY	NOTES	DATE	BY	DATE	CUSTOMER	MONO EQUIPMENT	TITLE	ELECTRICAL DISTRIBUTION		
A	09/08/10	RO	AS BUILT	09/08/10	RO	09/08/10	OMEGA DEPOSITOR	OMEGA_MK2	INSTALLATION	PANEL	LOCATION	PAGE: 1 OF 13
									MONO EQUIPMENT	MONO	SWANSEA WEST IND PARK	TEL: (01792) 561234
									PROJECT	OMEGA DEPOSITOR	SWANSEA WEST IND PARK	FAX: (01792) 561016
									PROJECT DESCRIPTION	OMEGA DEPOSITOR	SWANSEA WEST IND PARK	WEB: www.monoequip.com



REV	DATE	BY	NOTES	DATE	BY	CUSTOMER	MONO EQUIPMENT	TITLE	INSTALLATION	PANEL	LOCATION	PAGE	OF
A	09/08/10	RO	AS BUILT	09/08/10	RO	OMEGA DEPOSITOR	OMEGA_MK2	SAFETY CIRCUIT	MONO	MONO EQUIPMENT	SWANSEA WEST IND PARK	2	13
PROJECT DESCRIPTION: OMEGA DEPOSITOR PROJECT: OMEGA_MK2 TEL: (01792) 561234 FAX: (01792) 561235 WEB: www.monopanel.com													



THIS OPTION IS NOT FITTED WHEN THE LARGE PUMP OPTION IS REQUIRED

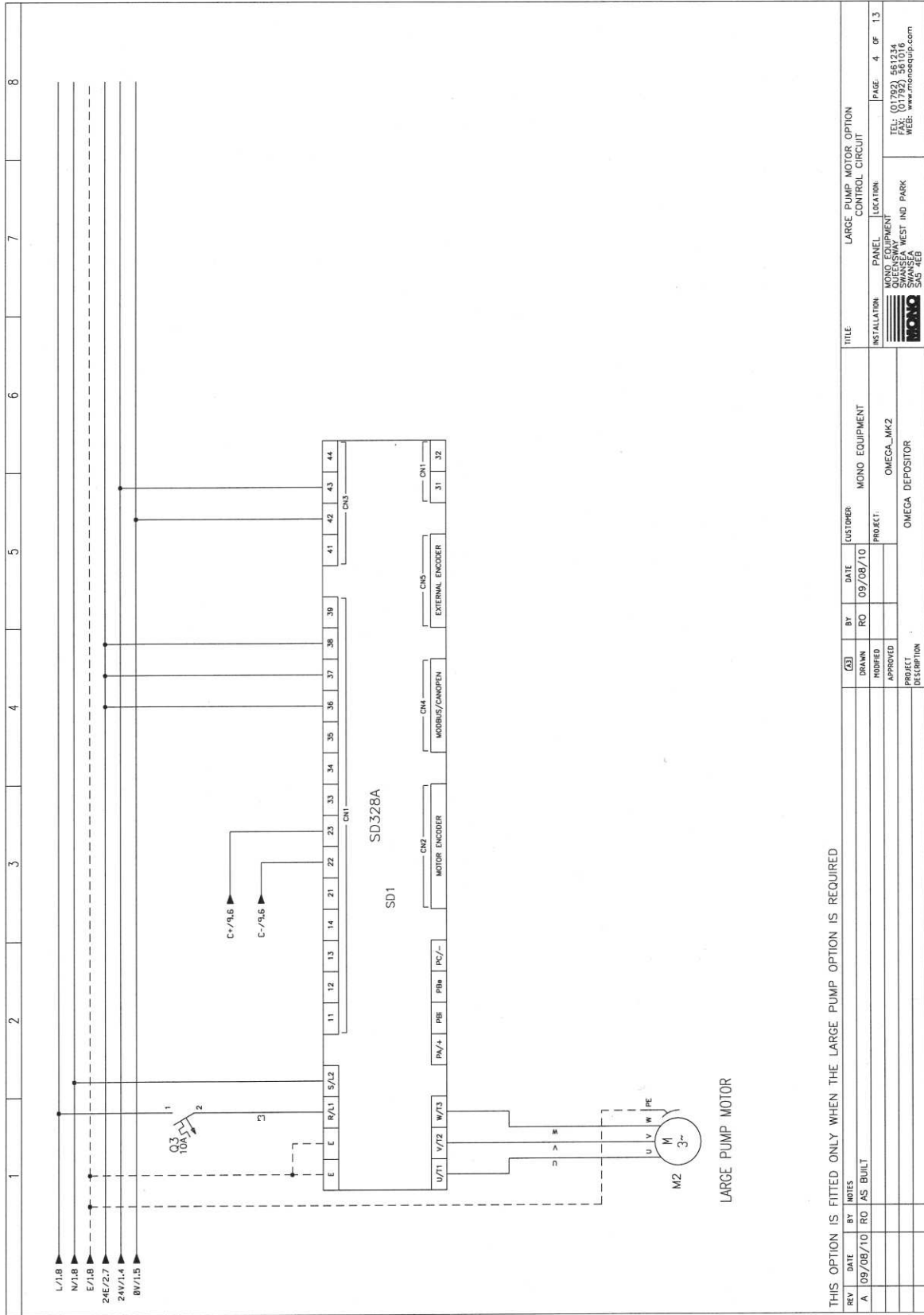
REV	DATE	BY	NOTES
A	09/08/10	RO	AS BUILT

DATE	BY	RO	DESCRIPTION
09/08/10	RO		

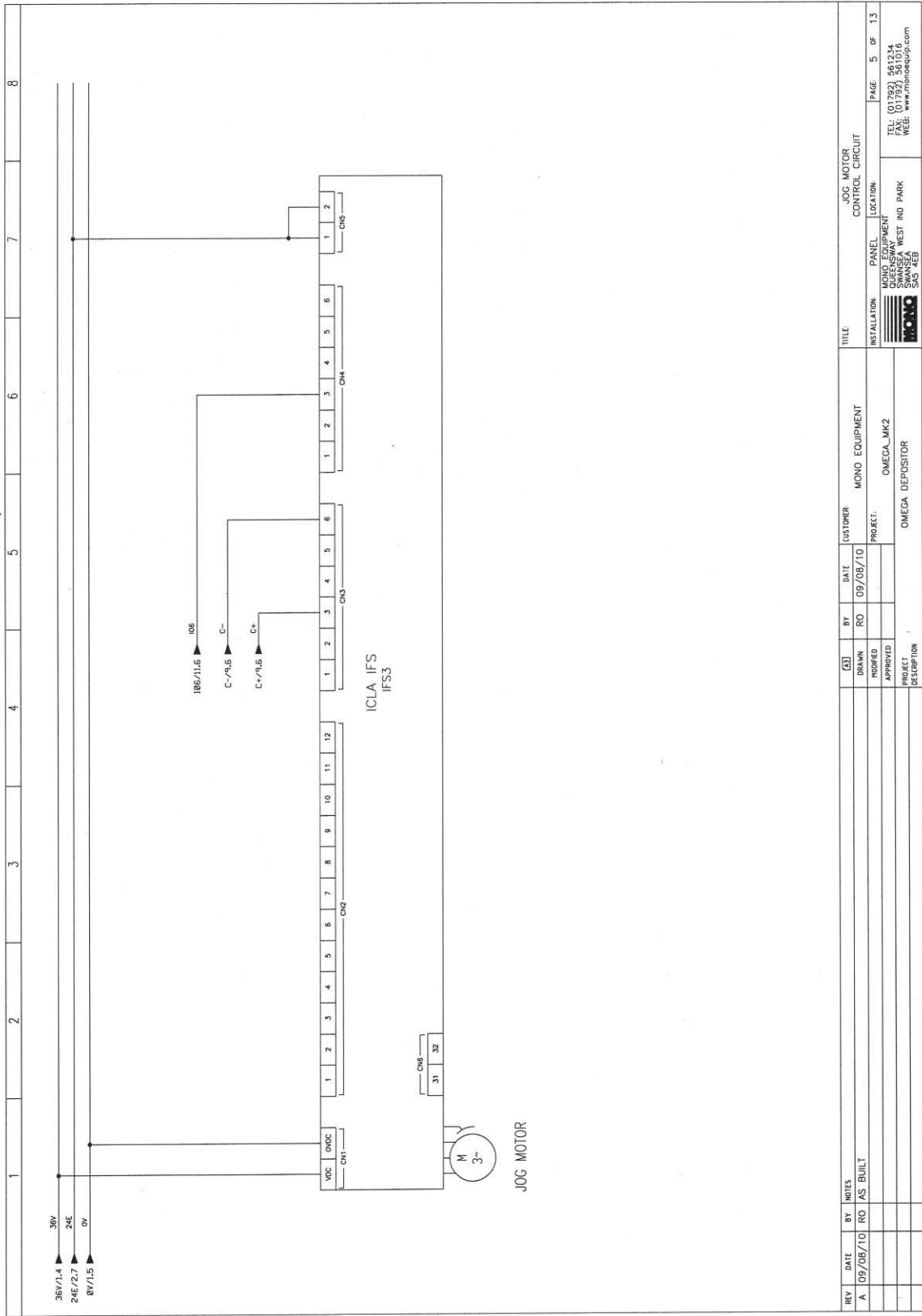
TITLE	CUSTOMER	DATE	BY	RO
STANDARD PUMP MOTOR CONTROL CIRCUIT		09/08/10	RO	

INSTALLATION	PANEL	LOCATION	PAGE	OF
MONO EQUIPMENT			3	13

PROJECT	MONO EQUIPMENT	TEL
OMEGA DEPOSITOR	OMEGA_MK2	(01792) 561214
		(01792) 561016
		(01792) 561016
		WWW.MONOequip.com

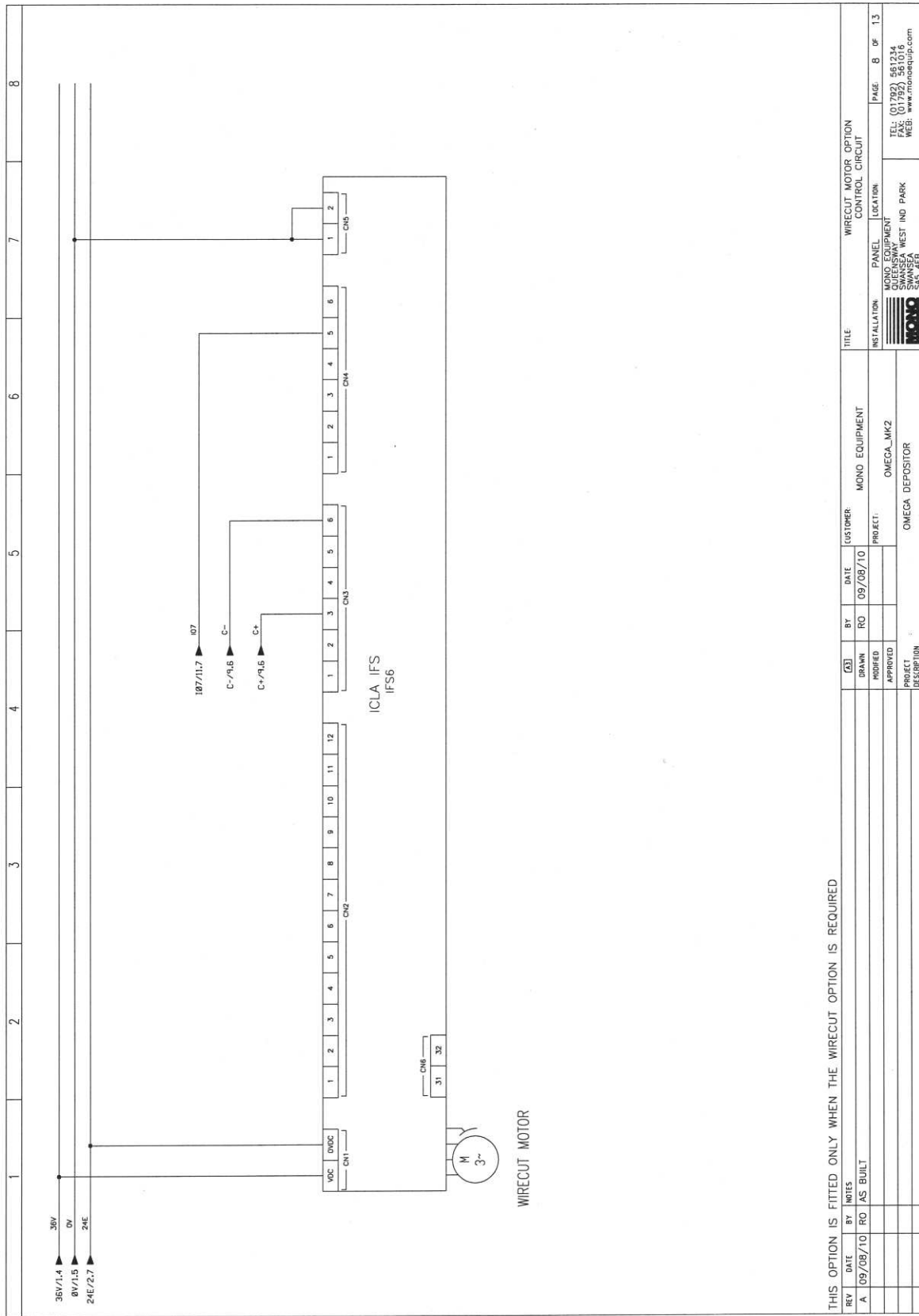


THIS OPTION IS FITTED ONLY WHEN THE LARGE PUMP OPTION IS REQUIRED



REV	DATE	BY	NOTES	DATE	BY	DESCRIPTION
A	05/08/10	RO	AS BUILT	05/08/10	RO	

TITLE:		JOG MOTOR CONTROL CIRCUIT	
INSTALLATION:	PANEL	LOCATION:	
MONO EQUIPMENT SHANGHAI WEST IND PARK SHANGHAI CHINA TEL: (01792) 581214 FAX: (01792) 581016 WEB: www.monoequip.com			
CUSTIPER:		OMEGA DEPOSITOR	
DATE:	05/08/10	PROJECT:	OMEGA_DEPOSITOR
BY:	RO	PROJECT:	OMEGA_DEPOSITOR
DRAWN:		DESCRIPTION:	
MODIFIED:			
APPROVED:			
PROJECT:			
DESCRIPTION:			



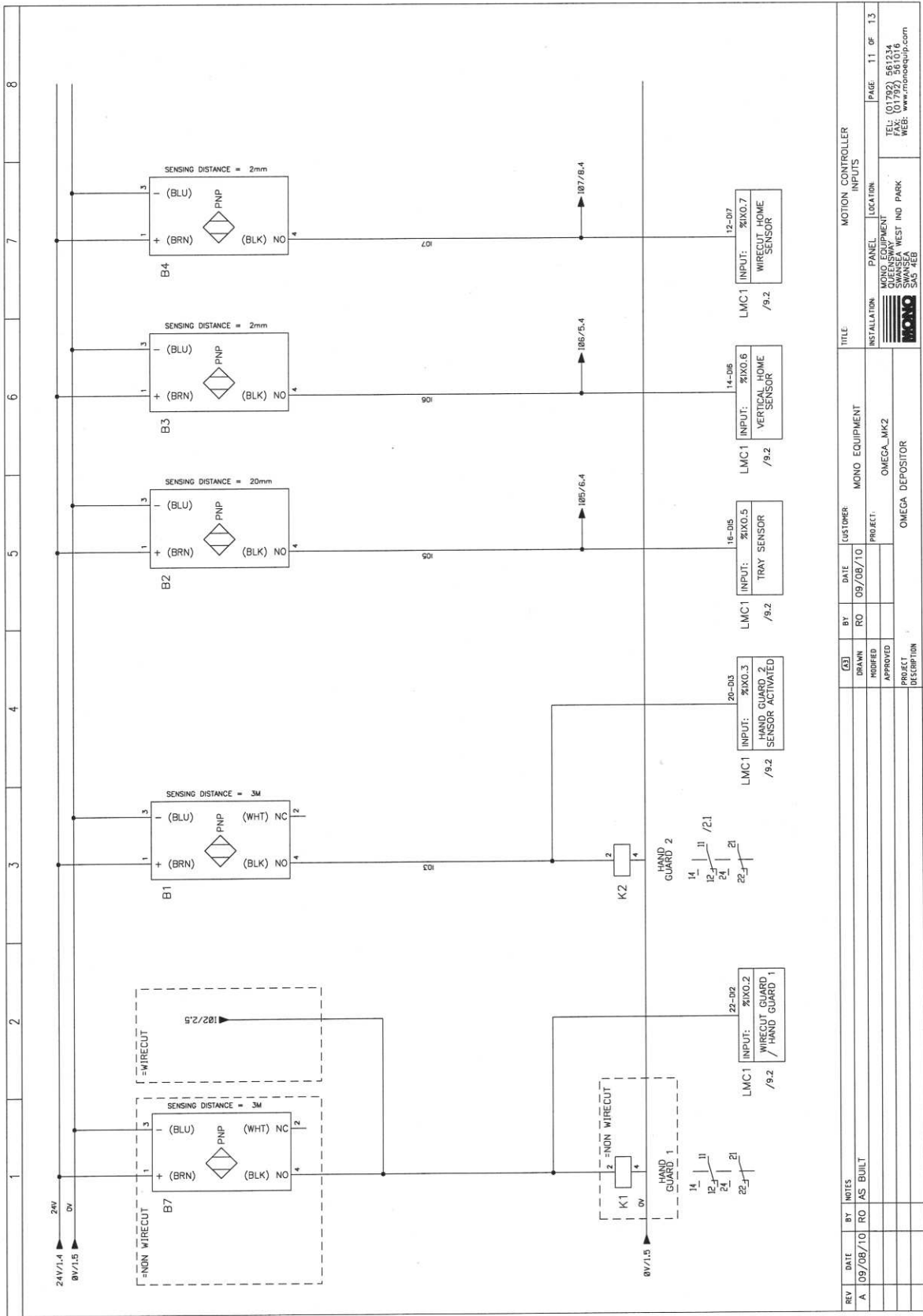
THIS OPTION IS FITTED ONLY WHEN THE WIRECUT OPTION IS REQUIRED

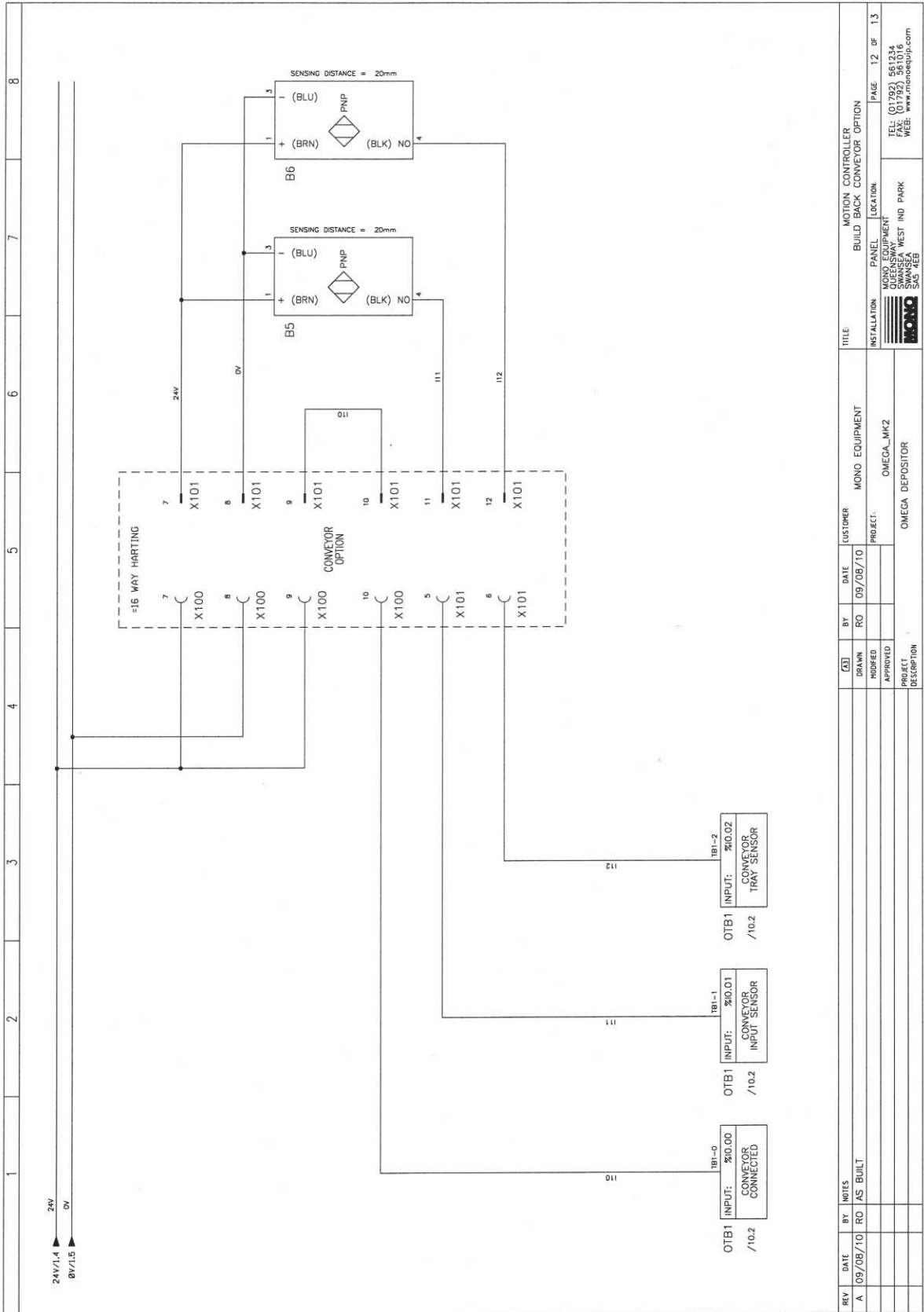
REV	DATE	BY	NOTES
A	09/08/10	RO	AS BUILT

DATE	BY	CUSTOMER	MONO EQUIPMENT	TITLE
09/08/10	RO	OMEGA DEPOSITOR	OMEGA_MK2	WIRECUT MOTOR OPTION CONTROL CIRCUIT

INSTALLATION	PANEL	LOCATION	PAGE	OF
MONO EQUIPMENT			B	13
SWANSEA WEST IND PARK				
SWANSEA				
3-D 458				

TEL: (01792) 561234
FAX: (01792) 561016
WEB: www.monoequip.com





REV	DATE	BY	NOTES	DATE	BY	CUSTOMER	TITLE	PAGE	OF
A	09/08/10	RO	AS BUILT	09/08/10	RO	MONO EQUIPMENT	MOTION CONTROLLER BUILD BACK CONVEYOR OPTION	12	13
				DRAWN		PROJECT:	INSTALLATION	LOCATION	
				MODIFIED		OMEGA_MK2	MONO EQUIPMENT	SWANSEA WEST IND PARK	
				APPROVED		OMEGA DEPOSITOR	MONO	SAS MEG	
				PROJECT DESCRIPTION				TEL: (01792) 561234	
								FAX: (01792) 561016	
								WEB: www.monoequip.com	

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



Omega Touch



Queensway,
Swansea West Industrial Estate,
Swansea.
SA5 4EB
UK

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

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.