

OPERATOR MANUAL



SAFETY

GENERAL

This manual should be used by suitably trained machine operators. It is a quick guide to the general operating conditions of the machine.

To ensure that the operating conditions for the printing machine remain safe at all times, all personnel must follow generally accepted safety procedures in addition to specific safety precautions laid down in this manual.

WARNING notices draw the attention of operators to possible hazards which may cause loss of life, serious injury or ill health.

CAUTION notices alert personnel to the possibility of damage occurring to the machine material.

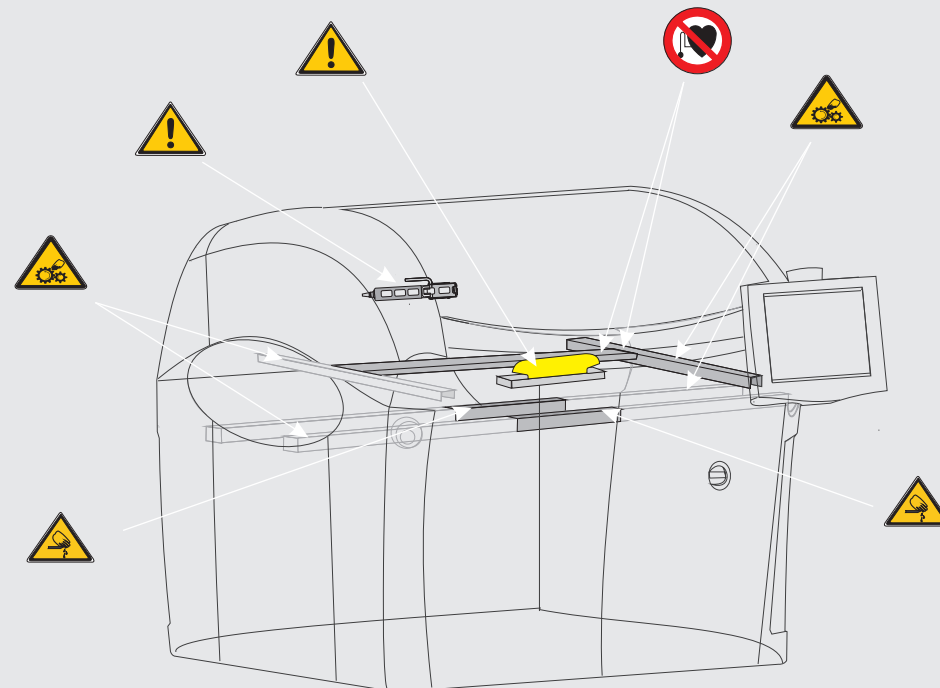
The following label illustrated below, may be fitted to the machine, this signifies that the user should refer to the operator manual before attempting to carry out work on the equipment.



HAZARDOUS MATERIALS

Hazardous materials, as defined by NFPA 497 (National Fire Protection Association), are not recommended by DEK for use on this machine. If one or more hazardous materials are used, decontamination must be carried out in accordance with SEMI S12 or equivalent local regulations.

HAZARDOUS AREAS








SAFETY






WARNING AND CAUTIONS

The warnings and caution notices below are fitted to the machine and shown in the relevant procedures within this manual.

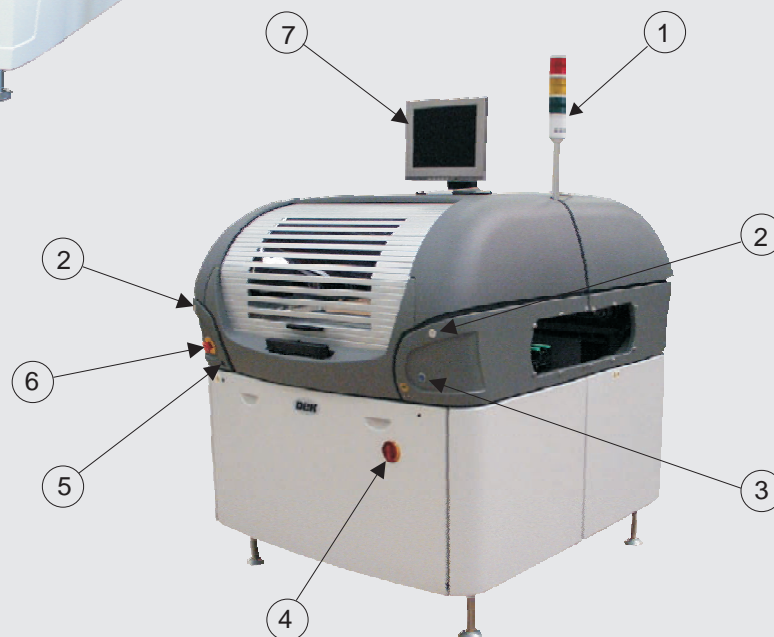
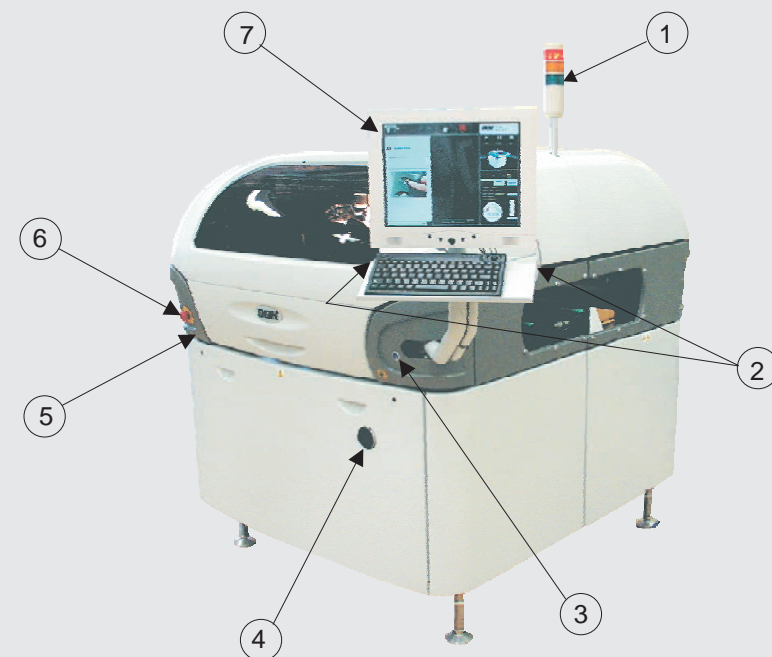


Some of the warning symbols below may not be applicable to your machine.

Symbol	Definition
	WARNING STRONG MAGNETIC FIELD. A STRONG MAGNETIC FIELD EXISTS IN THE VICINITY OF THE CAMERA LINEAR MOTORS. THESE MAY REPRESENT A SERIOUS HAZARD TO PEOPLE FITTED WITH A PACEMAKER.
	WARNING MOVING PARTS. MOVING PARTS ARE PRESENT IN THE VICINITY OF THIS WARNING LABEL, THESE PARTS HAVE THE POTENTIAL TO CAUSE INJURY.
	WARNING BOARD CLAMPS. EXTREME CARE MUST BE EXERCISED WHEN WORKING IN THE TOOLING AREA OF THE MACHINE TO AVOID INJURY. THE FOILS ON THE FRONT AND REAR BOARD CLAMPS ARE VERY SHARP.
	WARNING RECOMMENDED SOLVENTS. ANY SOLVENTS USED MUST COMPLY WITH LOCAL ENVIRONMENTAL GUIDELINES. DEK RECOMMEND USING SOLVENTS THAT ARE ENVIRONMENTALLY FRIENDLY, IE CFC FREE AND WATER BASED. SOLVENTS USED MUST HAVE FAST EVAPORATION RATES AND FLASHPOINT SPECIFICATIONS GREATER THAN 39°C.
	WARNING PROTECTIVE CLOTHING. APPROVED PROTECTIVE CLOTHING SHOULD BE WORN BY SOLDER PASTE AND SOLVENT HANDLERS AT ALL TIMES TO ELIMINATE FUME INHALATION, EYE CONTACT, SKIN CONTACT AND INGESTION.

Symbol	Definition
	WARNING SOLDER PASTE AND SOLVENTS. WHEN USING OR HANDLING ANY SOLDER PASTE OR SOLVENT FORMULATION THE MANUFACTURERS' RECOMMENDED SAFETY PRECAUTIONS MUST BE STRICTLY ADHERED TO.
	WARNING SOLVENT SOLUTION. DO NOT MIX SOLVENT SOLUTIONS. FLUSH THE SOLVENT TANK THOROUGHLY WHEN CHANGING TO A DIFFERENT SOLVENT SOLUTION.
	WARNING MACHINE COVERS. IN ORDER TO PROTECT PERSONNEL AND TO PREVENT DAMAGE TO THE MACHINE, COVERS ARE FITTED TO THE MACHINE FRAME. THESE PANELS MUST ONLY BE REMOVED BY SUITABLY QUALIFIED PERSONNEL.
	CAUTION Toxic chemicals may be present. Skin contact may be hazardous to your health. Wear eye protection.
	CAUTION Toxic chemicals may be present. Skin contact may be hazardous to your health. Wear safety gloves.

MACHINE OVERVIEW

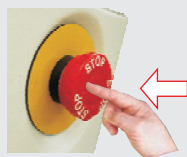


Item	Description
1	Tricolour Beacon
2	Two Button Control
3	System Button
4	Mains Isolator
5	Internal Light
6	Emergency Stop Button
7	Monitor

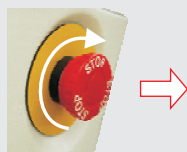
SAFETY

E STOP OPERATION

With the machine powered up, activating the red Emergency Stop button (E Stop) causes the machine to stop in a controlled manner.

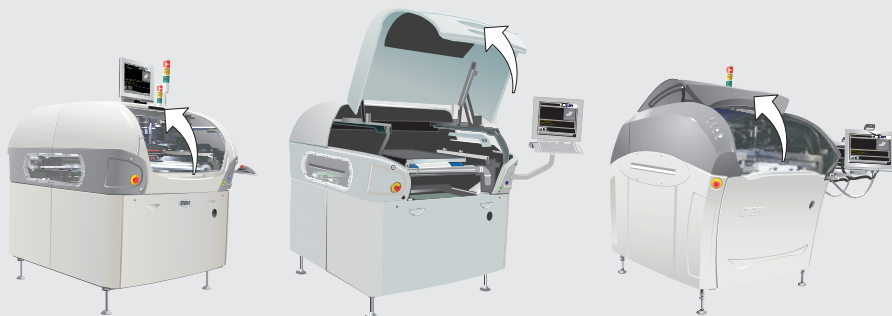


To activate:
press the E Stop button, electrical power to the machine is suspended.



To reset:
turn the E Stop button clockwise until it unlatches.





PRINthead COVER



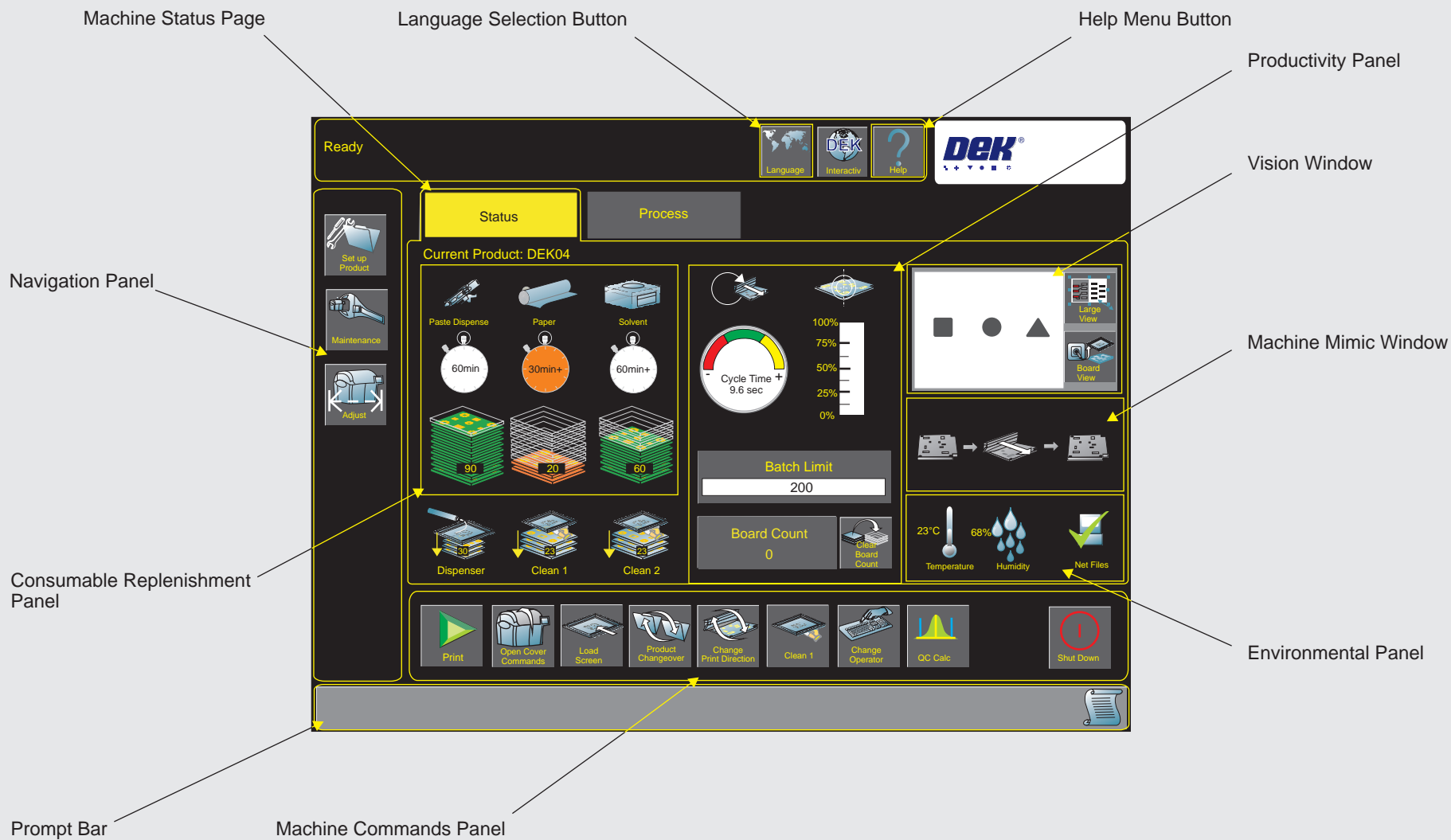
Raising the printhead cover suspends operation of the machine to allow the operator safe access to the tooling area.

TRI COLOUR BEACON

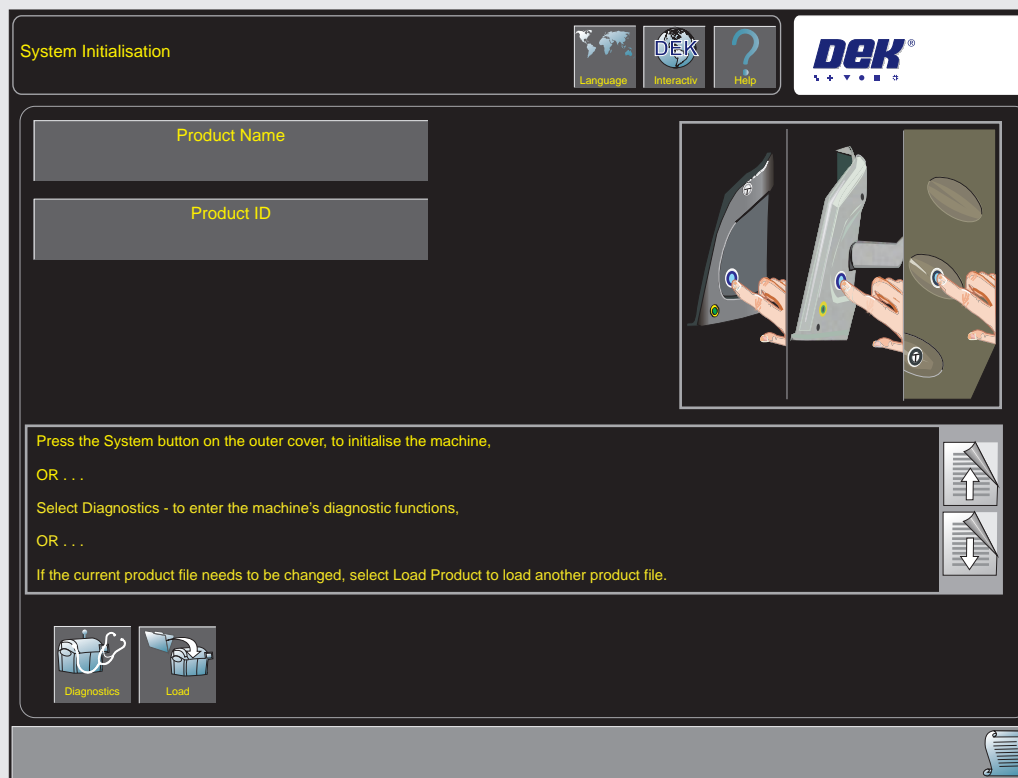
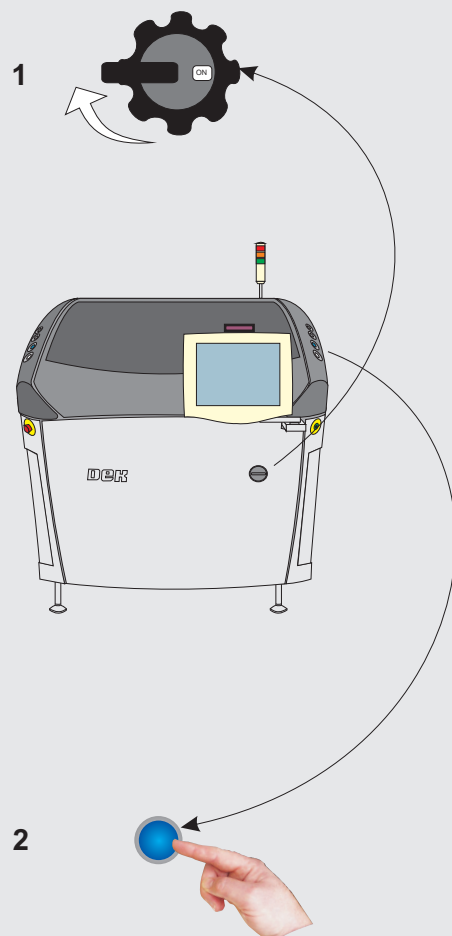
The beacon indicates the operational status of the machine:

Beacon Colour	Operational Status
	Machine is not operational System power is down Error message displayed Paste cartridge is low ProFlow is low Paper roll is empty Solvent tank level is low Vortex cleaning cassette expired
	Machine is not in a ready state Machine is initializing Machine is in set up Machine is in maintenance
	Machine requires operator attention Paste cartridge is low ProFlow is low Paper roll is empty Solvent tank level is low Vortex cleaning cassette expired
	Machine is operational Machine is waiting in a ready state

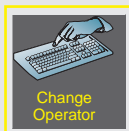
DEK USER INTERFACE



POWER UP



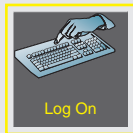
3



LOG ON

4 Enter the Operators name

5



Change Operator

To log on enter your user name and select Log On.

To log off, select Log Off.

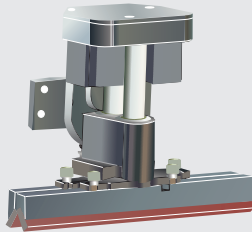
To return to the Ready page select Exit.

Operator Name

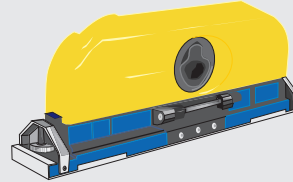
!			\$	%	^	&	()	-
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
\	Z	X	C	V	B	N	M	<	>
Shift Lock		Space				Delete			

Back
 Log On
 Exit

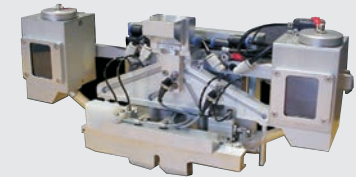
MACHINE SET UP OVERVIEW



For Squeegees refer to page 10



For ProFlow refer to page 13



For Ball Placement refer to page 16

MACHINE SET UP - SQUEEGEES

Select the buttons in the sequence shown and follow the on screen prompts.

1

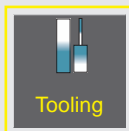


MACHINE SET UP - SQUEEGEES

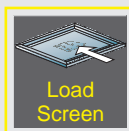
2



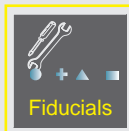
3



4



5



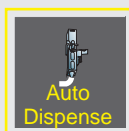
6



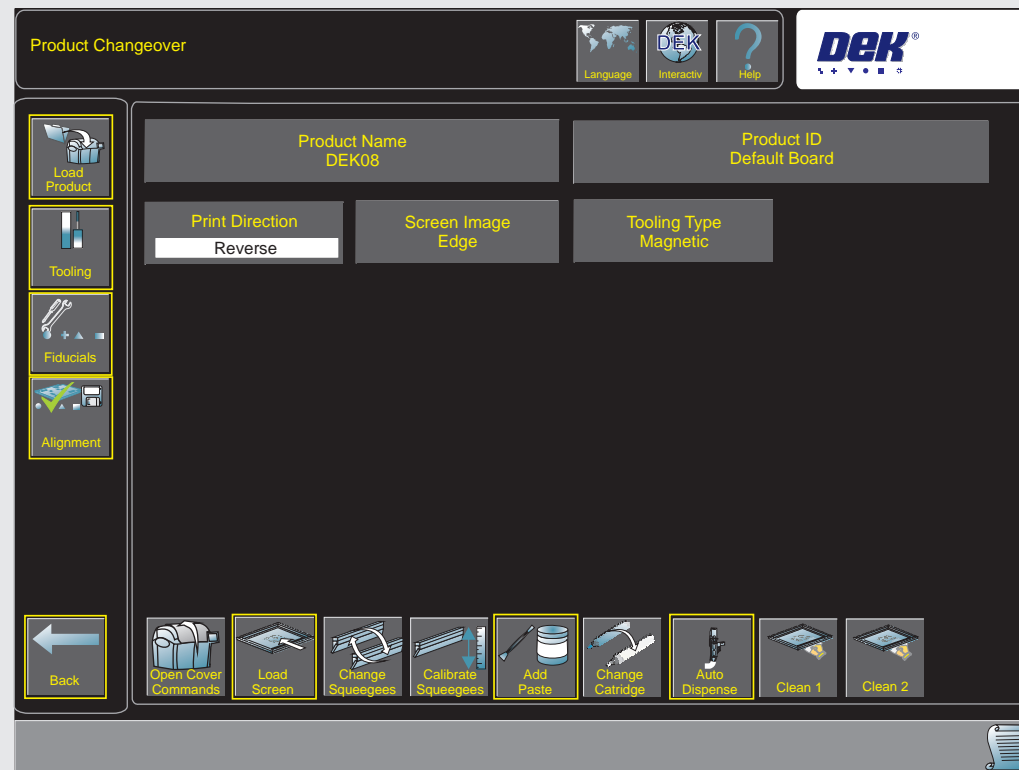
7a



7b

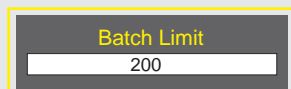


8



MACHINE SET UP - SQUEEGEES

9



10



MACHINE SET UP - PROFLOW

Select the buttons in the sequence shown and follow the on screen prompts.

1

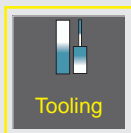


MACHINE SET UP - PROFLOW

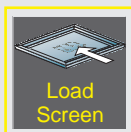
2



3



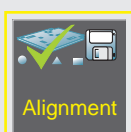
4



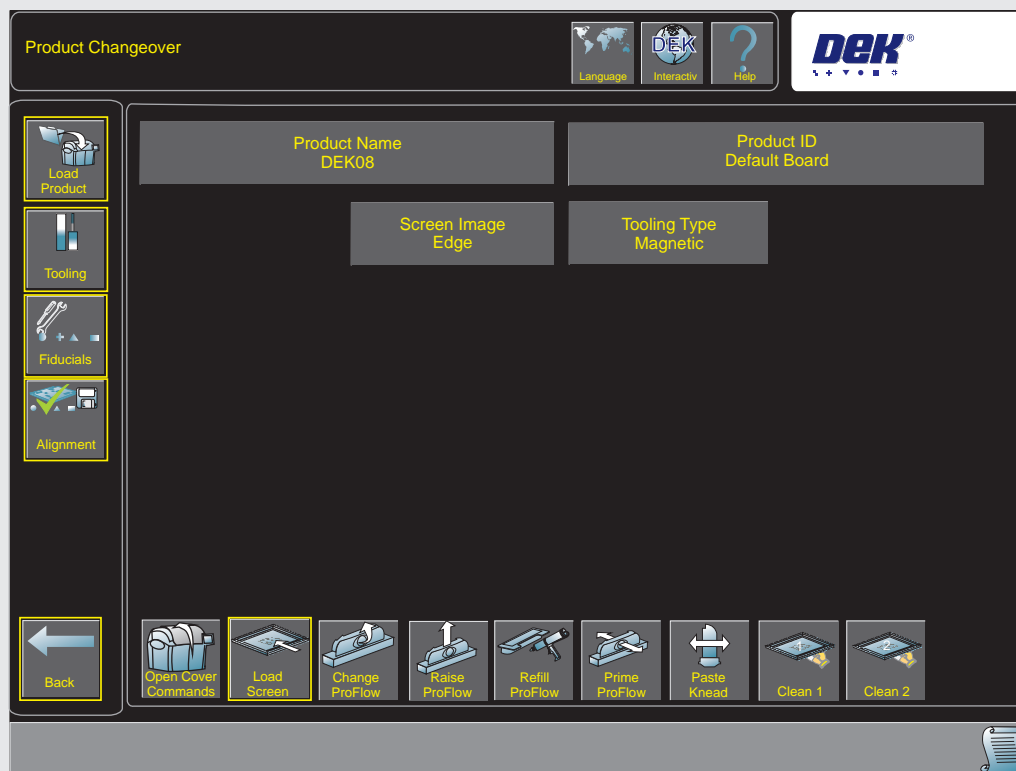
5



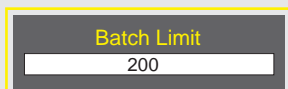
6



7



8



9



MACHINE SET UP - BALL PLACEMENT

Select the buttons in the sequence shown and follow the on screen prompts.

1

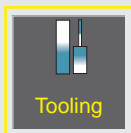


MACHINE SET UP - BALL PLACEMENT

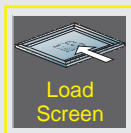
2



3



4



5



6



7



MACHINE SET UP - BALL PLACEMENT

8

Batch Limit

200

9



Ready

Language Interactiv Help

DEK

Status Process

Current Product: DEK04

Cycle Time
9.6 sec

Batch Limit

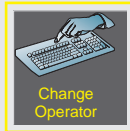
200

Board Count

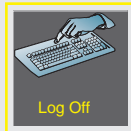
0

LOG OFF

1



2



Change Operator

To log on enter your user name and select Log On.

To log off, select Log Off.

To return to the Ready page select Exit.

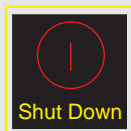
Operator Name

!			\$	%	^	&	()	-
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
\	Z	X	C	V	B	N	M	<	>
Shift Lock		Space				Delete			

Back
 Log Off
 Exit

POWER DOWN

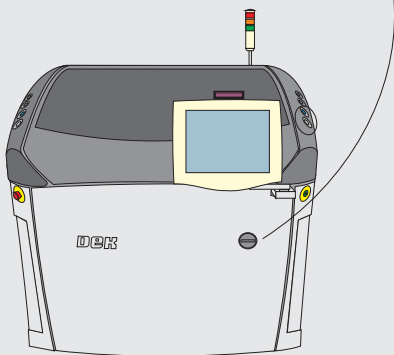
3



4



5





<http://www.dek.com>

A  DOVER COMPANY