

# SIBERT INSTRUMENTS

## COMBINED OPTICAL MATRIX PUNCH TYPE COMP 150

### OPERATING MANUAL



SIBERT INSTRUMENTS  
CENTRE HOUSE  
THE PINES  
BROAD STREET  
GUILDFORD  
SURREY  
GU3 3BH  
ENGLAND

TEL: +44 (0) 1483 301622

FAX: +44 (0) 1483 302699

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

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**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

(i)

**SECTION 1  
IMPORTANT NOTICES**

**Please do not switch on this equipment unless the operating manual has been fully read and understood. If there is any difficulty in understanding, or a translation is required, please contact the address below:**

**Ne mettez pas cet équipement sous tension avant d'avoir entièrement lu et compris le manuel d'utilisation. Si vous rencontrez des difficultés de compréhension ou avez besoin d'une traduction, contactez l'adresse suivante:**

**Bitte schalten Sie die Geräte nicht ein, bevor Sie das Bedienungshandbuch vollständig gelesen und verstanden haben. Wenn dabei Verständnisschwierigkeiten auftreten oder Sie eine Übersetzung benötigen sollten, wenden Sie sich bitte an die nachfolgende Adresse:**

**Non accendere questa apparecchiatura senza prima avere attentamente letto e compreso il Manuale delle istruzioni. In caso di difficoltà di comprensione, o se si richiede una traduzione, si prega di contattare il seguente indirizzo.**

**Deze apparatuur pas inschakelen als u de handleiding helemaal hebt gelezen en begrepen. Mocht er iets zijn dat u niet begrijpt, of mocht u een vertaling nodig hebben, neem dan contact op met het onderstaande adres:**

**No encienda este equipo antes de haber leído y comprendido el Manual de Funcionamiento correspondiente. Si tuviera alguna dificultad en comprenderlo o necesita una traducción, sírvase contactar con la dirección siguiente:**

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COMP 150  
TEL NO: +44 (0) 1483 301622  
FAX NO: +44 (0) 1483 302699**

1.1

**SECTION 1  
IMPORTANT NOTICES**

**ONLY AUTHORISED PERSONNEL TO  
CARRY OUT MAINTENANCE OR  
ADJUSTMENTS TO THIS MACHINE**

**\* ONLY THOSE ITEMS THAT CAN BE  
ADJUSTED OR MAINTAINED BY NON  
SIBERT PERSONNEL ARE TO BE  
ACCESSED OR ADJUSTED \***

1.2

SECTION 1  
IMPORTANT NOTICES

## SPARE PARTS

**PLEASE USE RECOMMENDED SPARE PARTS ONLY. FOR A LIST OF AUTHORISED SPARE PARTS PLEASE CONTACT MANUFACTURER.**

COMBINED OPTICAL MATRIX PUNCH  
COMP 150

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1.3

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

**SECTION 1  
IMPORTANT NOTICES**


**WARNING LABELS**

**WARNING  
DANGER OF INJURY FROM  
EDGE OF ROTATING MATRIX**

FOUND ON BASE PLATE  
ABOVE FRONT PANEL

**EMERGENCY  
STOP**

FOUND ON FRONT PANEL

|  |   |   |
|--|---|---|
| <b>DANGER</b><br> | DO NOT REMOVE COVER<br>UNLESS DISCONNECTED<br>FROM MAINS SUPPLY | MAINS<br>VOLTAGE<br>200-250 VAC<br>50Hz |
|--|---|---|

FOUND ON ALL REMOVABLE  
COVERS PROTECTING  
ELECTRICAL SYSTEMS

**NOTE:-**

**THIS MACHINE IS DESIGNED TO PUNCH THE INNER HOLE  
AND OUTER DIAMETER OF CD MATRICES / STAMPERS UP  
TO A MAXIMUM OF 0.35mm THICKNESS AND MUST NOT  
BE USED FOR ANY OTHER PURPOSE.**

**WHEN HANDLING NICKEL  
STAMPERS IT IS ADVISABLE TO  
WEAR PROTECTIVE GLOVES.**

**NOTE :-**

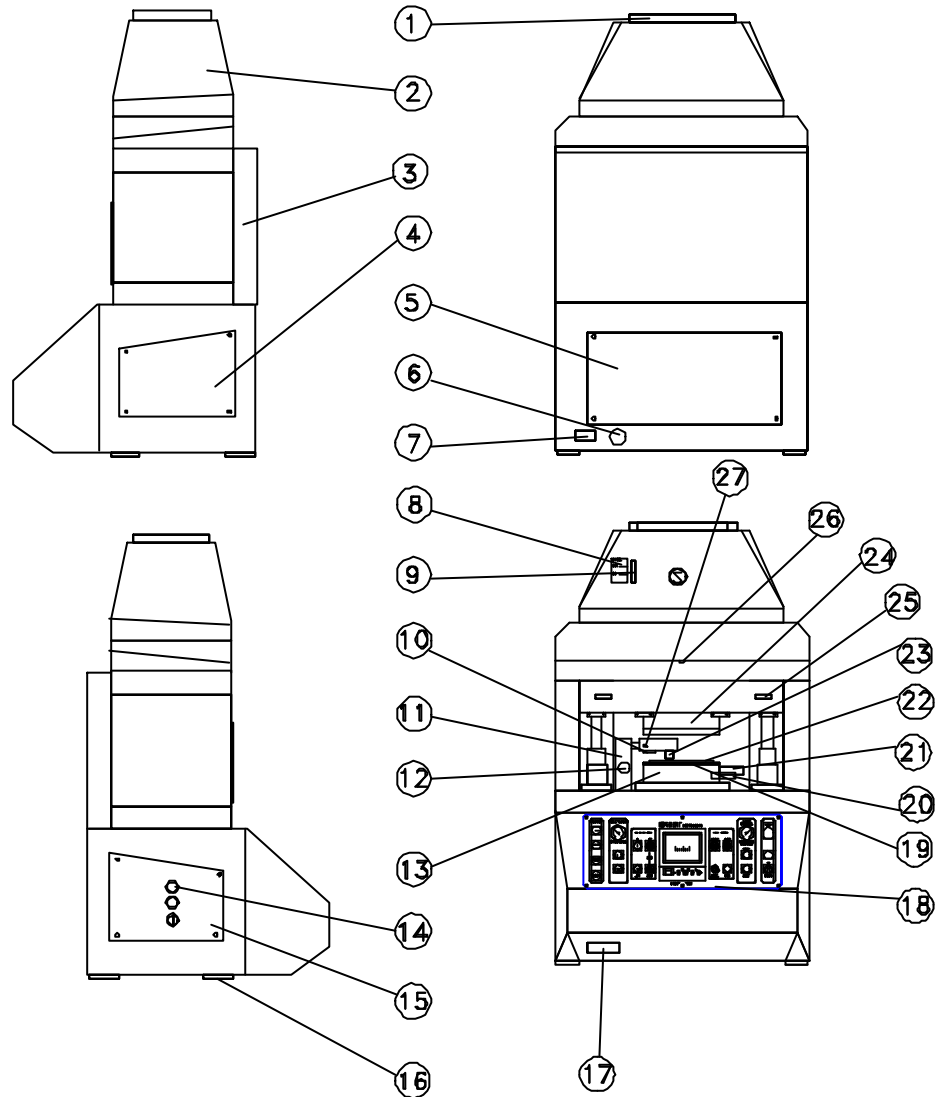
**1 THE COMP 150 HAS BEEN TESTED UNDER "A" WEIGHTED  
CONTINUOUS SOUND AND DOES NOT EXCEED 70 DECIBEL NOISE  
LEVELS.**

**2 THE COMP 150 HAS BEEN TESTED UNDER "C" WEIGHTED  
INSTANTANEOUS SOUND AND DOES NOT EXCEED 130 DECIBEL  
NOISE LEVELS.**

# COMBINED OPTICAL MATRIX PUNCH COMP 150

1.4

## SECTION 2 EQUIPMENT DIAGRAM



|    |                                   |    |                                    |
|----|-----------------------------------|----|------------------------------------|
| 1  | TOP CAP                           | 14 | PUNCH AND DIE REPLACEMENT CONTROLS |
| 2  | TOP COVER                         | 15 | PNEUMATICS COVER PLATE             |
| 3  | BACK COVER                        | 16 | ANTI-VIBRATION FEET                |
| 4  | PLC AND FUSES COVER PLATE         | 17 | CENTRE HOLE WASTE OUTLET           |
| 5  | HYDRAULIC BOOSTER COVER PLATE     | 18 | CONTROL PANEL (SEE SECTION 3)      |
| 6  | PNEUMATIC MAINS INPUT             | 19 | LOWER EJECTION RING                |
| 7  | MAINS POWER INLET PLUG            | 20 | PRE-CENTRING CYLINDER              |
| 8  | OIL LEVEL MAX. AND MIN. INDICATOR | 21 | NUDGE CYLINDER                     |
| 9  | OIL LEVEL SIGHT GLASS             | 22 | VACUUM TURNTABLE                   |
| 10 | VIEWING DIAMETER ADJUSTMENT LEVER | 23 | OBJECTIVE LENS                     |
| 11 | OPTICAL HEAD                      | 24 | UPPER PUNCH AND DIE SET            |
| 12 | OPTICAL HEAD LAMP UNIT            | 25 | PUNCH COUNTER                      |
| 13 | LOWER PUNCH AND DIE SET           | 26 | FRONT GUARD (SHOWN OPEN)           |

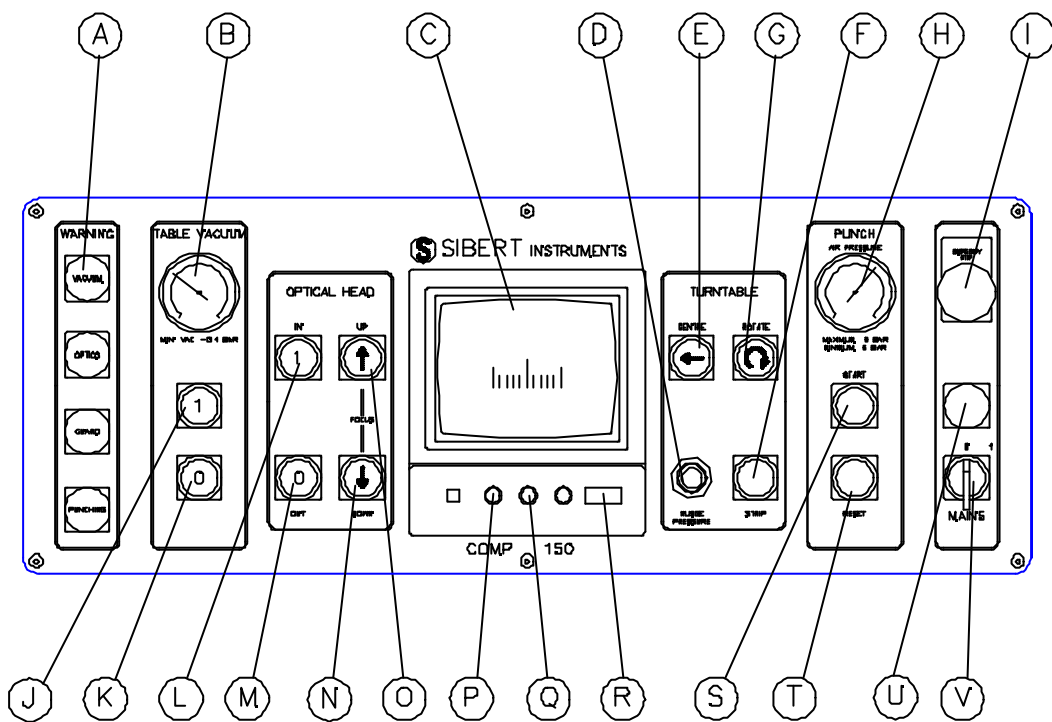
# COMBINED OPTICAL MATRIX PUNCH COMP 150

|  |    |                                     |
|--|----|-------------------------------------|
|  | 27 | OPTICAL VIEWING DIAMETER LOCK SCREW |
|--|----|-------------------------------------|

**WARNING:** DO NOT ADJUST ANY PRE-SET INTERNAL PNEUMATIC REGULATORS

2.1

## SECTION 3 CONTROL PANEL



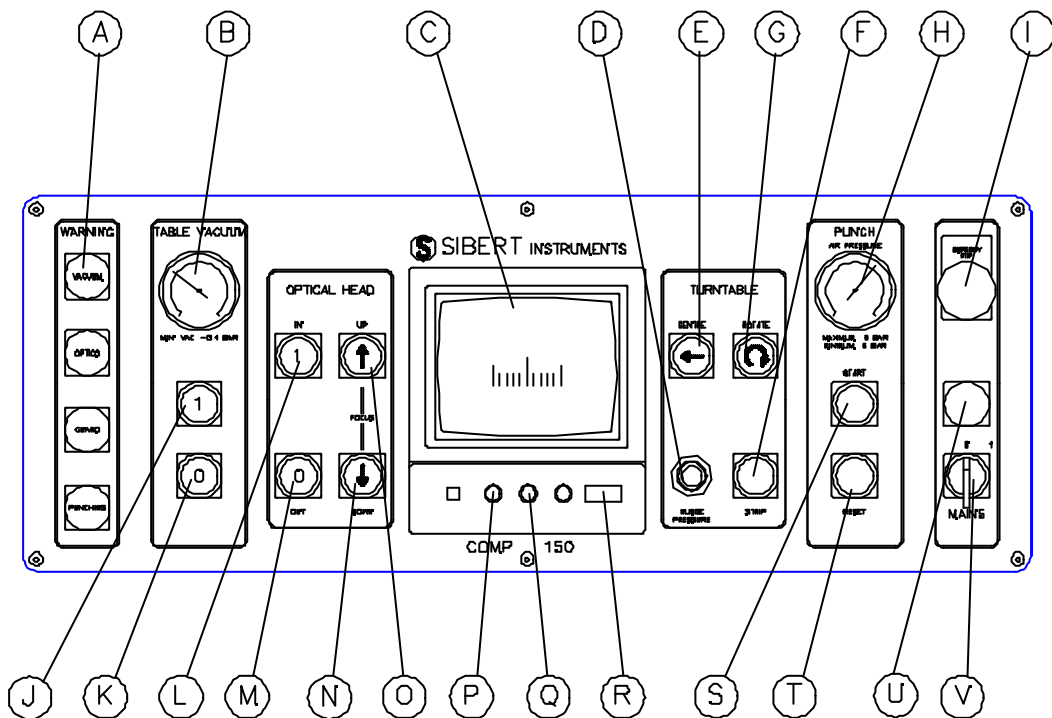
- |   |                          |  |
|---|--------------------------|--|
| A | WARNING INDICATORS       | Illuminate if one or more safety interlocks or procedures are not correct  |
| B | TABLE VACUUM GAUGE       | Indicates the vacuum holding the stamper to the table. If the vacuum is less than $-0.4$ bar, the vacuum warning light will illuminate |
| C | MONITOR VIEWING SCREEN   | Shows a magnified image of the Stamper to aid alignment of the Stamper   |
| D | TURNTABLE NUDGE PRESSURE | Enables adjustment of Pressure to nudging cylinder   |
| E | TURNTABLE CENTRING       | Push Button for centring Stamper   |
| F | TURNTABLE STRIP          | Push Button to remove outside waste after punching   |

## COMBINED OPTICAL MATRIX PUNCH COMP 150

- G TURNTABLE ROTATE Push Button to rotate turntable to align Stamper and Vacuum Table Pre-Centring when Optics are at 'OUT' position.  
**Note: If optional extra pre-alignment pillars are fitted, these also operate at this time.**
- H PUNCH AIR PRESSURE GAUGE Indicates the pressure used at punching
- I RED EMERGENCY STOP BUTTON The machine can be stopped at any time by pushing the RED EMERGENCY STOP BUTTON. This will remove both electric and air power from the machine. The button must be pulled out to enable the machine to be used again. The machine will automatically reset.

3.1

### SECTION 3 CONTROL PANEL



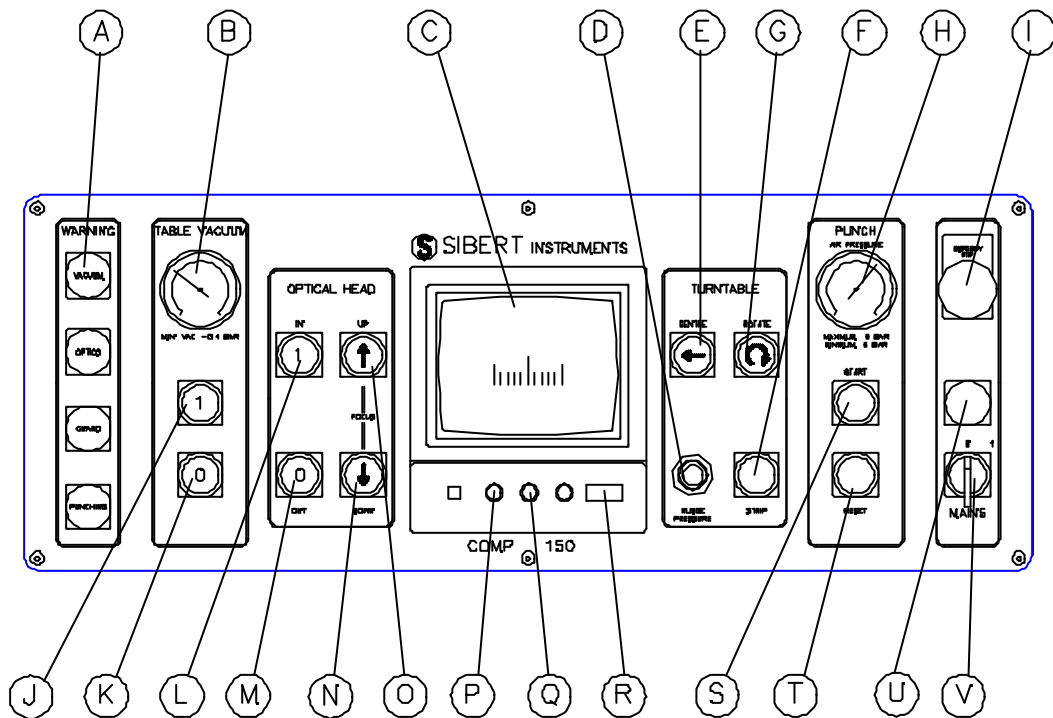
- J TABLE VACUUM ON ( 1 ) Push Button to turn the turntable vacuum ON, to hold the Stamper in position.  
**Note: If optional extra pre-alignment pillars are fitted, these also operate at this time.**
- K TABLE VACUUM OFF ( 0 ) Push Button to turn the turntable vacuum OFF, to allow the Stamper to be removed or re-positioned.
- L OPTICAL HEAD IN ( I ) Push Button to rotate Optical Head in to viewing position.

## COMBINED OPTICAL MATRIX PUNCH COMP 150

- |   |                         |  |
|---|-------------------------|--|
| M | OPTICAL HEAD OUT ( O )  | Push Button to rotate Optical Head safely away from punching area.   |
| N | OPTICAL HEAD FOCUS UP   | Push Button to raise Optical Head away from Stamper during focusing. |
| O | OPTICAL HEAD FOCUS DOWN | Push Button to lower Optical Head toward Stamper during focusing.    |
| P | MONITOR BRIGHTNESS      | Turn to adjust Monitor image   |
| Q | MONITOR CONTRAST        | Turn to adjust Monitor image   |
| R | MONITOR ON/OFF SWITCH   | To switch <b>Monitor only</b> on/off (Can be left ON)                |

3.2

### SECTION 3 CONTROL PANEL



- |   |                    |  |
|---|--------------------|--|
| S | START CYCLE SWITCH | Activates complete punching cycle provided that no WARNING indicators are illuminated. |
|---|--------------------|--|

## COMBINED OPTICAL MATRIX PUNCH COMP 150

|   |                 |  |
|---|-----------------|--|
| T | CYCLE RESET     | Resets punching cycle at any time.   |
| U | POWER INDICATOR | Shows that machine is switched on and emergency stop button is pulled out. |
| V | MAINS SWITCH    | Turns machine on and off provided emergency stop button is pulled out.     |

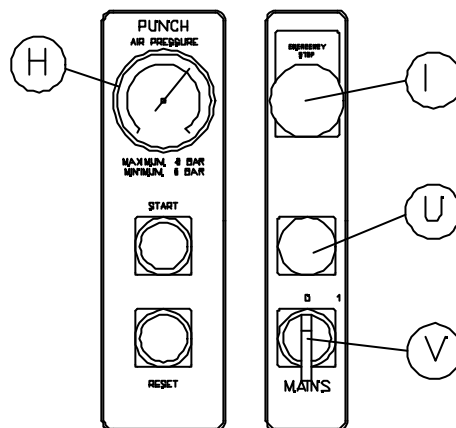
### 3.3

## SECTION 4 OPERATION

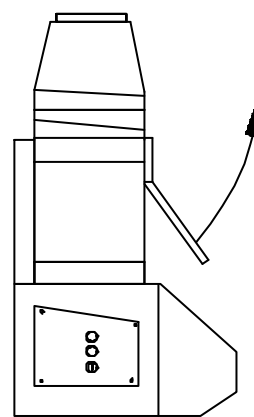
The **Comp 150** has one mains switch which will turn on all parts of the machine.

Before operating the **Mains On / Off Lever Switch (V)** ensure that the **Emergency Stop Push-Button (I)** is pulled out. When the machine is turned on the **Mains On Indicator Light (U)** will light.

Check that the **Punch Air Pressure Gauge (H)** is between the specified limits (6 - 8 bar)



The **Front Guard** should now be opened. There is a small cut-out to enable the guard to be lifted to its fully opened position. This is fixed in the upright position by means of a magnet to ensure it remains thus whilst



## COMBINED OPTICAL MATRIX PUNCH COMP 150

Stamper is loaded onto the machine.

Before centring a Matrix it is helpful to ensure that the **Vacuum Turntable** is in the centre of its travel. This will permit more Turntable travel when centring the Matrix.

With Optics at OUT position, push Button **(G)** to automatically rotate Turntable for approximately one revolution, this will centralise the turntable, for optimum travel.

# COMBINED OPTICAL MATRIX PUNCH COMP 150

## SECTION 4 OPERATION

First, clean the **Table** with a dry, lint free cloth.

The Matrix can now be placed information side up on the **Vacuum Turntable** and the vacuum turned on by the **Table Vacuum On Push-Button (J)**. Ensure the vacuum pressure is below -0.4 bar.

The **Optical Head** is brought into position by the **Optical Head In Push-Button (L)** and focused by the **Focus Up (O) And Focus Down (N) Push-Buttons**. See WARNING INDICATORS (Section 5)

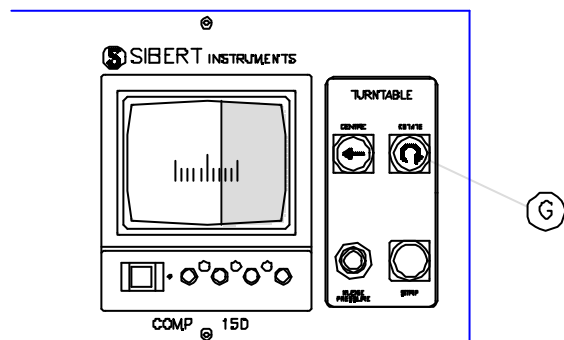
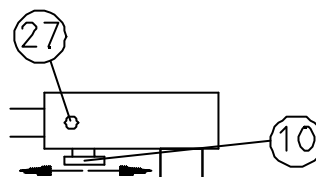
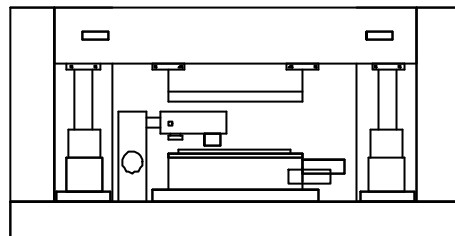
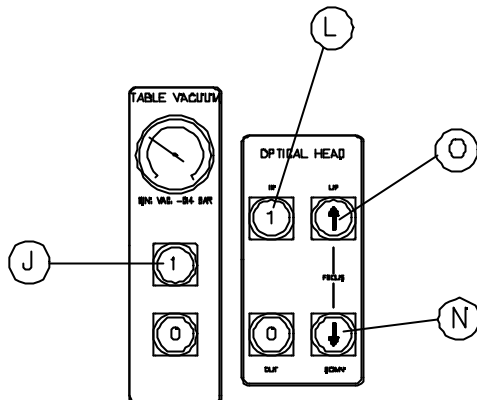
The "information" viewing diameter is selected by moving the **Viewing Diameter Adjustment Lever (10)** left or right, and then locked with screw (27). Once this has been set correctly for Customer 'information' diameter, it need not be reset for further Stampers.

Once set, initial alignment can either be done by eye, watching the run out with respect to the optical tube end or, alternatively, by ensuring that the edge of the information appears on the Monitor screen and is vertical. (This may be easier to do with the vacuum switched off).

**Note: If optional extra Stamper pre-alignment pillars are fitted, these are operated by Vacuum push button (J) and reset by Rotate push button (G).**

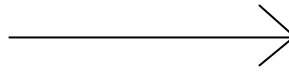
The edge of the information can now be viewed on the Monitor screen and the Stamper rotated by the **Rotate Turntable Push-Button (G)**.

This 'edge' will move from side to side across the screen showing the extent of eccentricity of the Stamper.



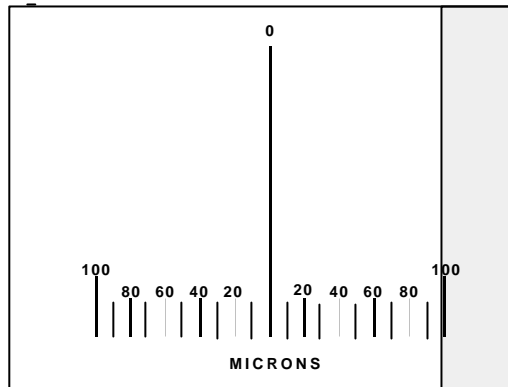
COMBINED OPTICAL MATRIX PUNCH  
COMP 150  
4.2

SECTION 4  
OPERATION

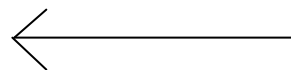


As the 'information' image moves across the screen it should be possible to estimate the amount of eccentricity of the "information".

The table rotation should be stopped at the maximum "information" image movement to the right.

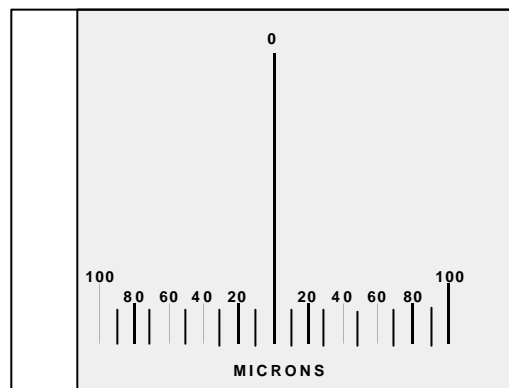


This may in some cases be off the edge of the screen and will therefore have to be judged.



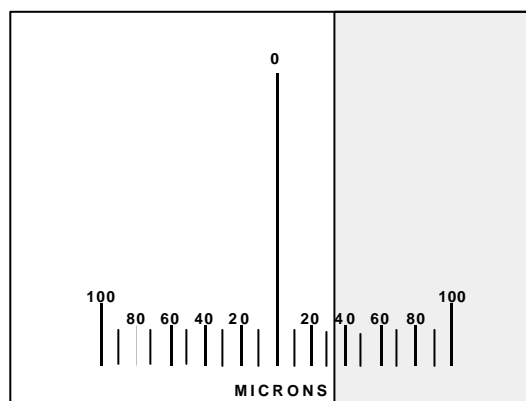
The table can now be **Nudged** to bring the image approximately half-way back to its total movement to the right.

When large amounts of movement are required the **Nudge Pressure** can be increased.



As the matrix eccentricity error becomes less the **Nudge Pressure** can gradually be reduced.

The final position of the information must appear stationary and will not always be in the centre of the screen. This will depend where the **Viewing Diameter Adjustment Lever** has been locked.



**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

4.3

# COMBINED OPTICAL MATRIX PUNCH COMP 150

## SECTION 4 OPERATION

When the Matrix has been correctly centred and you are ready to start the punch cycle make sure that :-

- 1 The **Front Guard** is closed.
- 2 The **Optical head** is out .
- 3 The **Punch Air Pressure Gauge (H)** is indicating between 6 - 8 bar.  
(See Stated Limits Below Gauge)
- 4 The **Vacuum Pressure Gauge** is above  $-0.4$  bar.

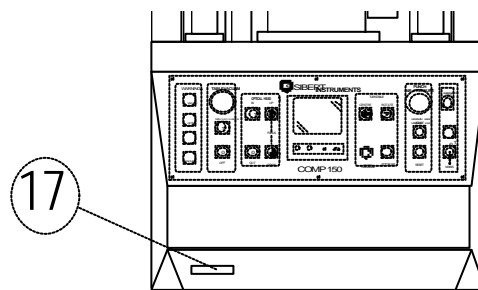
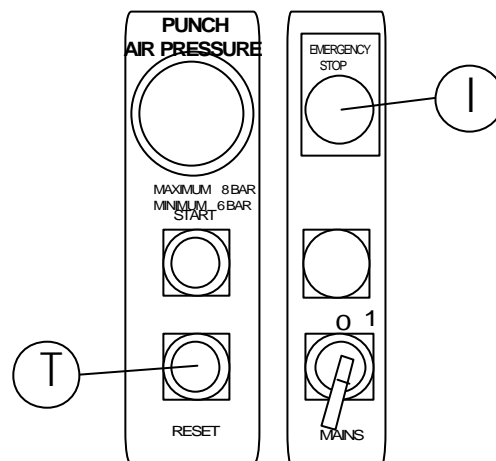
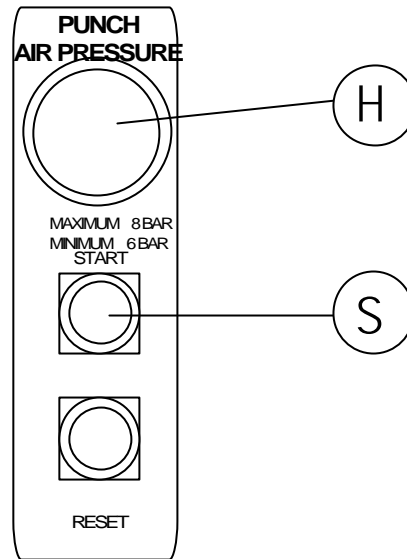
The punch Cycle is started by the **Start Punch Cycle Push-Button (S)**. The Punch plate will come down and the Centre hole will be punched followed by the outside diameter. The punch plate will then return to its top position. See WARNING INDICATORS (Section 5)

During the punch cycle it is possible to reverse the cycle by the **Reset Punch Cycle Push-Button (T)**. The punch plate will immediately return to its top position.

In an Emergency the **Emergency Stop Push-Button (I)** can be pushed and this will stop the punch plate in its current position, turn off the electric supply and remove air from the system.

The **Emergency Stop Button** will need to be pulled out before the **COMP 150** can be operated again.

When the Matrix has been punched the centre hole waste will fall through the **Centre Hole Waste Outlet (17)** in the front of the machine. This may be retained for thickness measurement and verification.



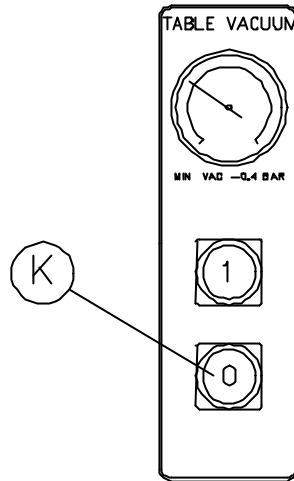
**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

4.4

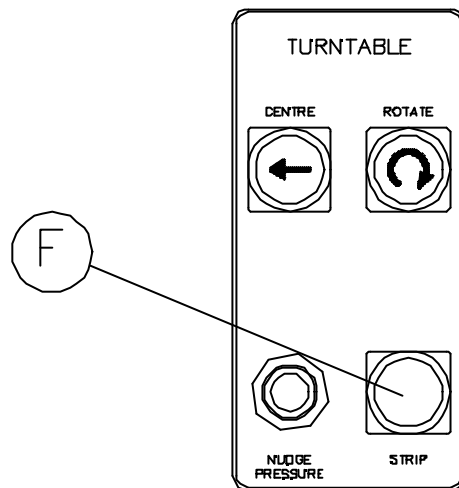
# COMBINED OPTICAL MATRIX PUNCH COMP 150

## SECTION 4 OPERATION

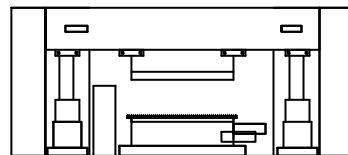
The **Front Guard** should now be opened and the vacuum on the vacuum table switched off by the **Table Vacuum Off Push-Button (K)** This will allow the punched matrix to be carefully removed.



When the punched matrix has been removed the outside diameter waste can be removed by pressing the **Strip OD Waste Push-Button (F)**. See WARNING INDICATORS (Section 5)



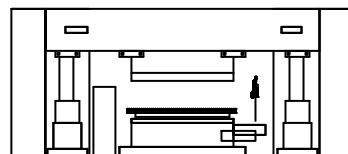
This may need to be done several times to slide the scrap over the punch.



### IMPORTANT

The edge of the matrix can be extremely sharp.

Care should always be taken when handling to avoid injury.



COMBINED OPTICAL MATRIX PUNCH  
COMP 150

WHEN HANDLING NICKEL STAMPERS IT IS ADVISABLE TO WEAR  
PROTECTIVE GLOVES.

4.5

SECTION 5  
WARNING INDICATORS

**Warning Indicators**

There are four warning indicators on the left of the front panel. These will light and a buzzer will sound if one of the controls has been used out of sequence or a guard is not in place.

**Vacuum Warning**

No or insufficient Vacuum pressure when **Start Punch Cycle Push-Button (S)** is pressed.

Vacuum on when **Strip OD Waste Push-Button (F)** pressed.

**Optics Warning**

Optics in when **Start Punch Cycle Push-Button (S)** pressed.

Optics in when **Strip OD Waste Push-Button (F)** pressed.

Optics out when **Focus Up Push-Button (O)** or **Focus Down Push-Button (N)** pressed.

**Guard Warning**

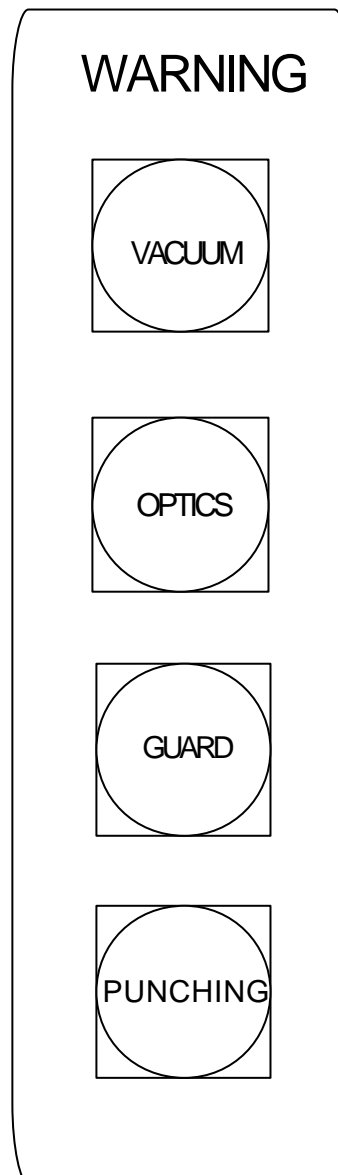
**Front Guard** open when **Start Punch Cycle Push - Button (S)** pressed.

**Table Vacuum Off Push - Button (K)** pressed when **Front Guard** is down.

**Top or Back Cover (2/3)** not in position when **Start Punch Cycle Push - Button (S)** pressed.

**Punching Warning**

**Table Vacuum Off Push - Button (K)** pressed during punch cycle.



# COMBINED OPTICAL MATRIX PUNCH COMP 150

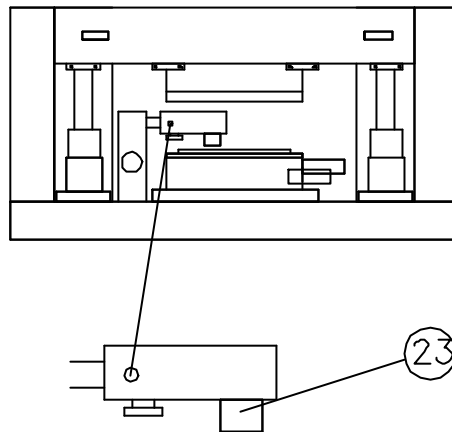
**Optical Head In Push - Button (L)**  
pressed during punching cycle.

5.1

## SECTION 6 ROUTINE CLEANING

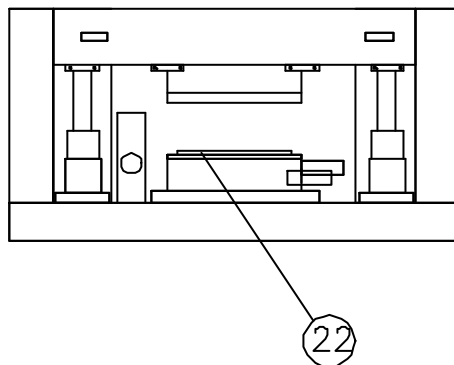
### OPTICAL HEAD

It is important to keep the **Objective Lens ( 23 )** on the **Optical Head** clean to ensure a good image on the **TV Viewing Screen**. It should be cleaned with a clean, dry, soft cloth.



### VACUUM TABLE

The **Vacuum Turntable ( 22 )** should be cleaned daily and checked for nickel particles which could damage the back of the Matrix. Propanol on a clean lint free cloth is recommended for cleaning the **Vacuum Turntable**.



**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

6.1

**SECTION 7  
SERIAL NUMBER, SPECIFICATION AND TEST CERTIFICATE**

|   |  |
|---|--|
| <b>DATE OF DESPATCH:-</b>   |  |
| <b>SUPPLIED BY</b><br>COMPANY NAME:-<br>ADDRESS:-   |  |
| <b>SUPPLIED TO</b><br>COMPANY NAME:-<br>ADDRESS:-   |  |
| <b>SERIAL NUMBERS</b><br>SUPPLIED COMP 150:-<br>SUPPLIED PUNCH AND<br>DIE SET:-<br>SPARE PUNCH AND<br>DIE SET:- |  |

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

|   |  |
|---|--|
| <b>SPECIFICATION</b><br><br>INNER HOLE DIA:-<br><br>OUTER DIAMETER:-<br><br>ELECTRICAL SUPPLY:-<br><br>COLOUR:- |  |
|---|--|

7.1

**SECTION 7  
SERIAL NUMBER, SPECIFICATION AND TEST CERTIFICATE**

**Final Inspection Details**

**Machine Inspected By :-**

**Signed :-**

**Date :-**

**Machine Packed By :-**

**Date :-**

**Machine Issue Numbers :-**

Pneumatic Schematic Issue .....

    Pneumatic Layout Issue .....

Electrical Schematic Issue .....

    Electrical Layout Issue .....

        Parts List Issue .....

**Operating Voltage :-**

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

**Electrical Power Consumption :-**

**Fuse Rating :-**

**Pneumatic Supply Consumption :-**

**Concentricity of Die to Turntable :-**

**Measured ID Hole of Stamper :-**

**Other Comments :-**

7.2

**SECTION 8  
DECLARATION OF CONFORMITY  
DIRECTIVE (89/392/EEC) AMENDED BY (91/368/EEC) AMENDED BY (93/44/EEC)**

**Name of manufacturer:** Sibert Instruments

**Full postal address including country of origin:** Centre House  
The Pines  
Broad Street  
Guildford  
Surrey  
**Postcode:** GU3 3BH  
ENGLAND

**Description of product:** Combined Optical Matrix Punch for  
punching inner and outer diameter  
holes in CD matrix Stampers

**Name , type or model, batch or serial number:** COMP 150

**Standards used:**

|                   |                 |                 |             |             |
|-------------------|-----------------|-----------------|-------------|-------------|
| EN 292 PTS 1 & 2  | PREN 953        | IP 65           | BS 5216     | BS 1490     |
| EN 294            | PREN 954        | IP 20           | BS 2056     | BS 5781     |
| EN 418            | PREN 983        | IP 67           | BS 4862     | BS 7229     |
| EN 60204 PT 1 & 3 | PREN 982        | BS 4265 IEC 127 | BS 970 PT 1 | BS 2874     |
| EN 60320          | BS 6500         | BS 2950A        | BS 4360     | BS 2871     |
| PREN 1050         | BS 4066 IEC 33  | BS 5584         | BS 1470     | ISO 2184    |
| PREN 1088         | BS 3042         | BS 4168         | BS 1474     | ISO 6432    |
| PREN 953          | BS 4491 IEC 320 | BS 4320         | BS 1471     | ISO 1307    |
|                   |                 | BS 3692         | BS 6001     | ISO 1436/11 |

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

**Place of issue:** Sibert Instruments, Guildford

**Name of authorised representative:** Paul Sibert

**Position of authorised representative:** Managing Director

**Declaration**

I declare that as the authorised representative, the above information in relation to the supply/manufacture this product is in conformity with the stated standards and other related documents following the provisions of 93/44/EEC Directives.

**Signature of authorised representative** ..... **Date** .....

For further information Telephone +44 (0) 1483 301622  
Facsimile +44 (0) 1483 302699

8.1

**SECTION 8  
EU DECLARATION OF CONFORMITY**

**89/336/EEC Electromagnetic Compatibility Directive, amended by 92/31/EEC & 93/68/EEC  
72/23/EEC Low Voltage Equipment Directive, amended by 93/68/EEC**

**Name of manufacturer:** Sibert Instruments

**Full postal address including country of origin:** Centre House  
The Pines  
Broad Street  
Guildford  
Surrey

**Postcode:** United Kingdom  
GU3 3BH

**Description of product:** Combined Optical Matrix Punch for  
punching inner & outer diameter  
holes in CD matrix stampers

**Name, type or model, batch or serial number:** COMP 150

**Standards applied:**

|                |   |
|----------------|---|
| EN 55011:-     | 1991/MEASUREMENTS IN RADIO INTERFERENCE ON IND. EQUIP./RAD'D. EM. |
| EN 55011:-     | 1991/MEASUREMENTS IN RADIO INTERFERENCE ON IND. EQUIP./COND. EM.  |
| IEC 1000-4-2:  | 1995/EMC FOR INDUSTRIAL EQUIPMENT/ELECTROSTATIC DISCHARGE REQ.    |
| IEC 1000-4-4:- | 1995/EMC FOR INDUSTRIAL EQUIPMENT/ELEC. FAST TRANSIENT REQ.       |
| BS EN 55022:-  | 1995/MEASUREMENTS IN RADIO INTERFERENCE FOR I.T. EQUIP/COND.EM.   |

# COMBINED OPTICAL MATRIX PUNCH COMP 150

BS EN 55022:- 1995/MEASUREMENTS IN RADIO INTERFERENCE FOR I.T. EQUIP/RAD'D.EM.  
ENV 50141:- 1995/EMC FOR INDUSTRIAL EQUIPMENT/IMM. COND. DIST. BY RAD. FREQS.  
ENV 50140  
UPDATED TO  
BS EN 61000 PT 4.3:- 1997/EMC FOR INDUSTRIAL EQUIPMENT/IMM. RAD'D. RAD. ELEC. MAG. FDS.

## Other standards required:

BS EN 50081-2:- 1994/ ELECTROMAGNETIC COMP. GENERIC EM. STD./IND. ENVIRONMENT.  
BS EN 50082-1:- 1992/ ELECTROMAGNETIC COMP. GENERAL IMM. STD./IND. ENVIRONMENT.  
BS EN 50082-2:- 1995/ ELECTROMAGNETIC COMP. GENERIC IMM. STD./IND. ENVIRONMENT.  
BS EN 60204 PT 1:- 1993/MC SAFETY FOR ELEC. EQUIP./SPEC. FOR GENERAL REQUIREMENTS.

## Declaration

The technical documentation required to demonstrate that the product meets the requirements of EMC, which includes the Low Voltage Directive, has been confirmed by the signatory below and is available for inspection by the relevant enforcement authorities. The CE mark was first applied in: 1995.

**Place of issue:** Sibert Instruments, Guildford

**Name of authorised representative:** Paul Sibert

**Position of authorised representative:** Managing Director

**Signature of authorised representative .....** **Date .....**

For further information:- Telephone +44 (0) 1483 301622  
Facsimile +44 (0) 1483 302699

8.2

## SECTION 8 DECLARATION OF CONFORMITY DIRECTIVE (89/392/EEC) AMENDED BY (91/368/EEC) AMENDED BY (93/44/EEC)

**Name of manufacturer:** Sibert Instruments

**Full postal address including country of origin:** Centre House  
The Pines  
Broad Street  
Guildford  
Surrey

**Postcode:** GU3 3BH  
ENGLAND

**Description of product:** Original Matrix Punch for punching the  
outer diameter on Father stampers  
during CD manufacture.

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

**Name , type or model, batch or serial number:** OMP 250

**Standards used:**

|                   |                 |                 |             |             |
|-------------------|-----------------|-----------------|-------------|-------------|
| EN 292 PTS 1 & 2  | PREN 953        | IP 65           | BS 5216     | BS 1490     |
| EN 294            | PREN 954        | IP 20           | BS 2056     | BS 5781     |
| EN 418            | PREN 983        | IP 67           | BS 4862     | BS 7229     |
| EN 60204 PT 1 & 3 | PREN 982        | BS 4265 IEC 127 | BS 970 PT 1 | BS 2874     |
| EN 60320          | BS 6500         | BS 2950A        | BS 4360     | BS 2871     |
| PREN 1050         | BS 4066 IEC 33  | BS 5584         | BS 1470     | ISO 2184    |
| PREN 1088         | BS 3042         | BS 4168         | BS 1474     | ISO 6432    |
| PREN 953          | BS 4491 IEC 320 | BS 4320         | BS 1471     | ISO 1307    |
|                   |                 | BS 3692         | BS 6001     | ISO 1436/11 |

**Place of issue:** Sibert Instruments, Guildford

**Name of authorised representative:** Paul Sibert

**Position of authorised representative:** Managing Director

**Declaration**

I declare that as the authorised representative, the above information in relation to the supply/manufacture this product is in conformity with the stated standards and other related documents following the provisions of 93/44/EEC Directives.

**Signature of authorised representative** ..... **Date** .....

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Facsimile +44 (0) 1483 302699

8.1

**SECTION 8  
EU DECLARATION OF CONFORMITY**

**89/336/EEC Electromagnetic Compatibility Directive, amended by 92/31/EEC & 93/68/EEC  
72/23/EEC Low Voltage Equipment Directive, amended by 93/68/EEC**

**Name of manufacturer:** Sibert Instruments

**Full postal address including country of origin:** Centre House  
The Pines  
Broad Street  
Guildford  
Surrey  
United Kingdom

**Postcode:**

**COMBINED OPTICAL MATRIX PUNCH  
COMP 150**

GU3 3BH

**Description of product:**

Original Matrix Punch for punching the outer diameter on Father stampers during CD manufacture

**Name, type or model, batch or serial number:**

OMP 250

**Standards applied:**

|                      |  |
|----------------------|--|
| EN 55011:-           | 1991/MEASUREMENTS IN RADIO INTERFERENCE ON IND. EQUIP./RAD'D. EM.  |
| EN 55011:-           | 1991/MEASUREMENTS IN RADIO INTERFERENCE ON IND. EQUIP./COND. EM.   |
| IEC 1000-4-2:        | 1995/EMC FOR INDUSTRIAL EQUIPMENT/ELECTROSTATIC DISCHARGE REQ.     |
| IEC 1000-4-4:-       | 1995/EMC FOR INDUSTRIAL EQUIPMENT/ELEC. FAST TRANSIENT REQ.        |
| BS EN 55022:-        | 1995/MEASUREMENTS IN RADIO INTERFERENCE FOR I.T. EQUIP/COND.EM.    |
| BS EN 55022:-        | 1995/MEASUREMENTS IN RADIO INTERFERENCE FOR I.T. EQUIP/RAD'D.EM.   |
| ENV 50141:-          | 1995/EMC FOR INDUSTRIAL EQUIPMENT/IMM. COND. DIST. BY RAD. FREQS.  |
| ENV 50140            |  |
| UPDATED TO           |  |
| BS EN 61000 PT 4.3:- | 1997/EMC FOR INDUSTRIAL EQUIPMENT/IMM. RAD'D. RAD. ELEC. MAG. FDS. |

**Other standards required:**

|                    |  |
|--------------------|--|
| BS EN 50081-2:-    | 1994/ ELECTROMAGNETIC COMP. GENERIC EM. STD./IND. ENVIRONMENT.   |
| BS EN 50082-1:-    | 1992/ ELECTROMAGNETIC COMP. GENERAL IMM. STD./IND. ENVIRONMENT.  |
| BS EN 50082-2:-    | 1995/ ELECTROMAGNETIC COMP. GENERIC IMM. STD./IND. ENVIRONMENT.  |
| BS EN 60204 PT 1:- | 1993/M/C SAFETY FOR ELEC. EQUIP./SPEC. FOR GENERAL REQUIREMENTS. |

**Declaration**

The technical documentation required to demonstrate that the product meets the requirements of EMC, which includes the Low Voltage Directive, has been confirmed by the signatory below and is available for inspection by the relevant enforcement authorities. The CE mark was first applied in: 1995.

**Place of issue:**

Sibert Instruments, Guildford

**Name of authorised representative:**

Paul Sibert

**Position of authorised representative:**

Managing Director

**Signature of authorised representative ..... Date .....**

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