

MULTI DIAMETER PUNCH MDP 38



Commissioning and Service Manual

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2 Owner Registration

TO ENSURE SIBERT INSTRUMENTS SUPPLIES YOU WITH ANY NECESSARY HARDWARE OR DOCUMENTATION UPDATES, PLEASE ENTER YOUR COMPANY DETAILS, DETACH THIS PAGE AND FAX OR POST TO:-

SIBERT INSTRUMENTS	TELEPHONE:	+44 (0) 1483 739100
CENTRE HOUSE		
THE PINES	FAX:	+44 (0) 1483 302699
BROAD STREET		
GUILDFORD	EMAIL:	Sales@Sibert.co.uk
SURREY		
GU3 3BH		
ENGLAND		

COMPANY NAME: ADDRESS: CONTACT:	
FAX: PHONE: EMAIL:	

I would like to register for a username and password for the Sibert Customer web site (please specify email address above)

DO NOT WRITE BELOW THIS LINE

MACHINE SERIAL NUMBER	
DATE OF MANUFACTURE	
QA ENGINEER SIGNATURE and STAMP	

3 Important Notices

3.1 Safety 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:

3.2 Information Content

All rights reserved. Reproduction of any part of this manual in any form whatsoever without the express written permission of Sibert Instruments is strictly forbidden.

All efforts have been made to ensure the accuracy of the information in this manual, however the contents of this manual are subject to change without notice.

Sibert Instruments shall not be liable against any damages or problems arising from the use of options, consumables or spares, other than those supplied or designated by Sibert Instruments.

The above notwithstanding, Sibert Instruments can assume no responsibility for any errors in this manual or their consequences.

3.3 Sales and Service Address

**SIBERT INSTRUMENTS
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FAX: +44 (0) 1483 302699
EMAIL: Sales@Sibert.co.uk**

3.4 Safety Instructions

3.4.1 Site Selection

When selecting the installation site for the equipment and the pertaining components, relevant health and safety procedures should be followed.

Applicable technical and building regulations must also be observed.



The MDP 38 has been tested under “A” weighted continuous sound and does not exceed 70 decibel noise levels.



The MDP 38 has been tested under “C” weighted instantaneous sound and does not exceed 130 decibel noise levels.

The unit must be placed on a suitable level surface offering the system firm support.

Ensure there is sufficient surrounding clearance for maintenance and cleaning operations.

Sibert Instruments recognises the need for and produces a purpose made bench for the MDP 38 accommodating the filter and regulation unit.



Do not deposit any objects in front or on top of the unit.



Hoses and electrical cables must be laid in a manner to prevent tripping and damage.

3.4.2 General Notes on Safety

All persons concerned with the installation, commissioning, operation, maintenance and repair of the system and its components must have read the operating instructions, particularly those on Safety. If necessary, in-house instruction should be provided, specifically taking into account the qualifications of the individual persons.

Prior to commissioning the system, the user must ensure that all safety conditions are met.



Both this Service Manual and the Operating Manual should be read before attempting to operate the machine.



Only authorised personnel to carry out maintenance or adjustments to this machine.

The system must be maintained and repaired only by persons who are familiar with the system and have been informed about the potential hazards and possess the necessary qualifications.

The pertinent regulations for prevention of accidents and other generally recognised safety and industrial medical requirements must be observed.

3.4.3 Notes on Safety for Operating Personnel

All working methods are forbidden, which:

- constitute a danger to the life and limb of the user or third parties,
- are detrimental to the system or others,
- are detrimental to the safety and proper function of the system,
- are not in compliance with the specified notes on safety.



No safety devices may be removed or rendered inoperative.

If it should become necessary to remove safety devices for setting, repair and maintenance purposes, the safety devices must be replaced immediately on completion of maintenance or repair works, prior to switching the machine on.



Safety devices must be replaced prior to re-connecting mains supplies.

The generally applicable safety rules and regulations for the prevention of accidents must be observed.



Only those items that can be adjusted or maintained by non Sibert personnel are to be accessed or adjusted.



Maintenance and repair may only be undertaken when the unit is switched off and disconnected from the mains input supply.



Hazardous voltages are present in this machine
This machine must be earthed



Repair work on hydraulic and pneumatic system, may only be carried out when relevant pressures are zero.



The front guard must be closed during normal punching operation.



When handling nickel Stampers, protective gloves should be worn.



Care should always be taken when handling Punch and Die sets.

3.4.4 Use for the Intended Purpose



This machine is intended solely to punch the inner hole of CD Matrices / Stampers up to a maximum of 0.35mm thickness (for optimum results, a hardness of 200 +/- 10% HV 0.5 is recommended), for a range of sizes up to 38mm and only with the components supplied and approved by Sibert Instruments.

Use for any other than the intended purpose is considered improper. The manufacturer disclaims all liability for any damage resulting from such use; the user/operator is solely liable.

3.4.5 Spare Parts



Use recommended spare parts only. For a list of authorised spare parts please contact Sibert Instruments.

3.4.6 Terms of Guarantee

Use, other than for intended purpose and unauthorised changes or modifications to the unit and its components which are part of the scope of supply of Sibert Instruments, exclude any liability of the Manufacturer for damage caused as a result of such changes or modifications. The warranty/guarantee of the manufacturer is invalidated.

4 Warning Labels



WARNING
DANGER OF INJURY FROM
EDGE OF STAMPER

FOUND ON BASE
PLATE ABOVE
FRONT PANEL



EMERGENCY
STOP


FOUND ON FRONT PANEL



WARNING
THIS EQUIPMENT
MUST BE EARTHED

FOUND ON BASE
ADJACENT TO
MAINS POWER INLET



DANGER
 DO NOT REMOVE COVER UNLESS
DISCONNECTED FROM MAINS
SUPPLY

FOUND ON ALL REMOVABLE
COVERS PROTECTING
ELECTRICAL SYSTEMS

5 Power Failure Reset Procedure



If a Punch and Die set has been selected (i.e. the Die set is attached to the Top Die Vacuum Clamp and the Lower Punch is in the Punch Holder) and any of the following conditions occur:-

Emergency Stop

Mains Power Loss

Machine Switched Off in Error

then the following procedure must be undertaken:-

- 1 Switch off the MDP 38 using Mains Power switch (20) if not already switched off.
- 2 Pull out the Emergency Stop Button (18) (if this has been operated)
- 3 Open Front Guard.
- 4 Remove Stamper (if present on Lower Punch set).
- 5 Remove Upper Die Set from the top vacuum clamp and locate it over the spigot of the corresponding Lower Punch set on the Punch Holder.
- 6 Close the Front Guard.
- 7 Restore Mains power supply to the MDP 38 (if removed).
- 8 Switch on the MDP 38 using Mains Power switch (20).
- 9 Press the Reset Button (21).



The MDP 38 is now ready for normal use again.



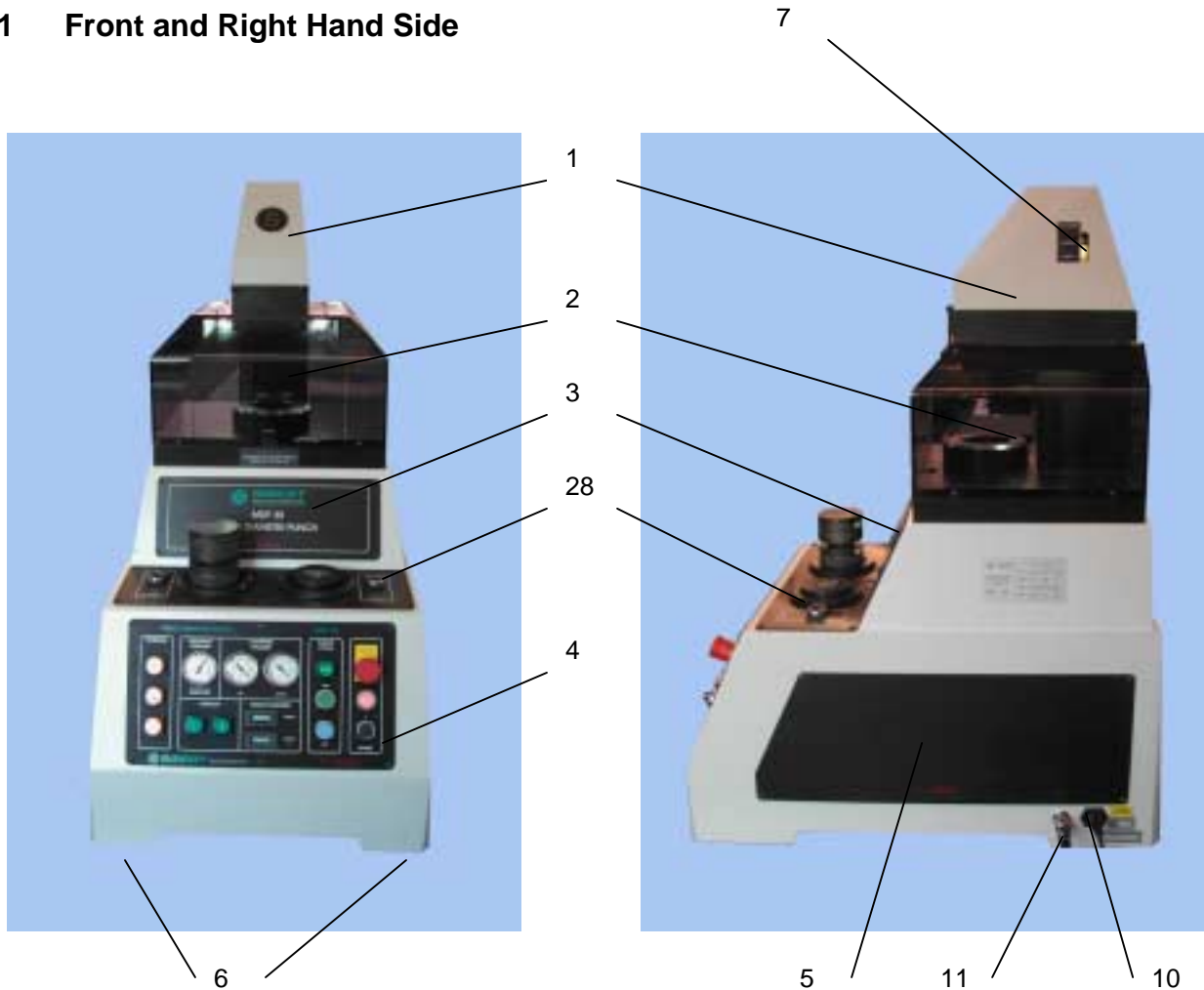
Care should always be taken when handling Punch and Die sets.



When handling Nickel Stampers, protective gloves should be worn.

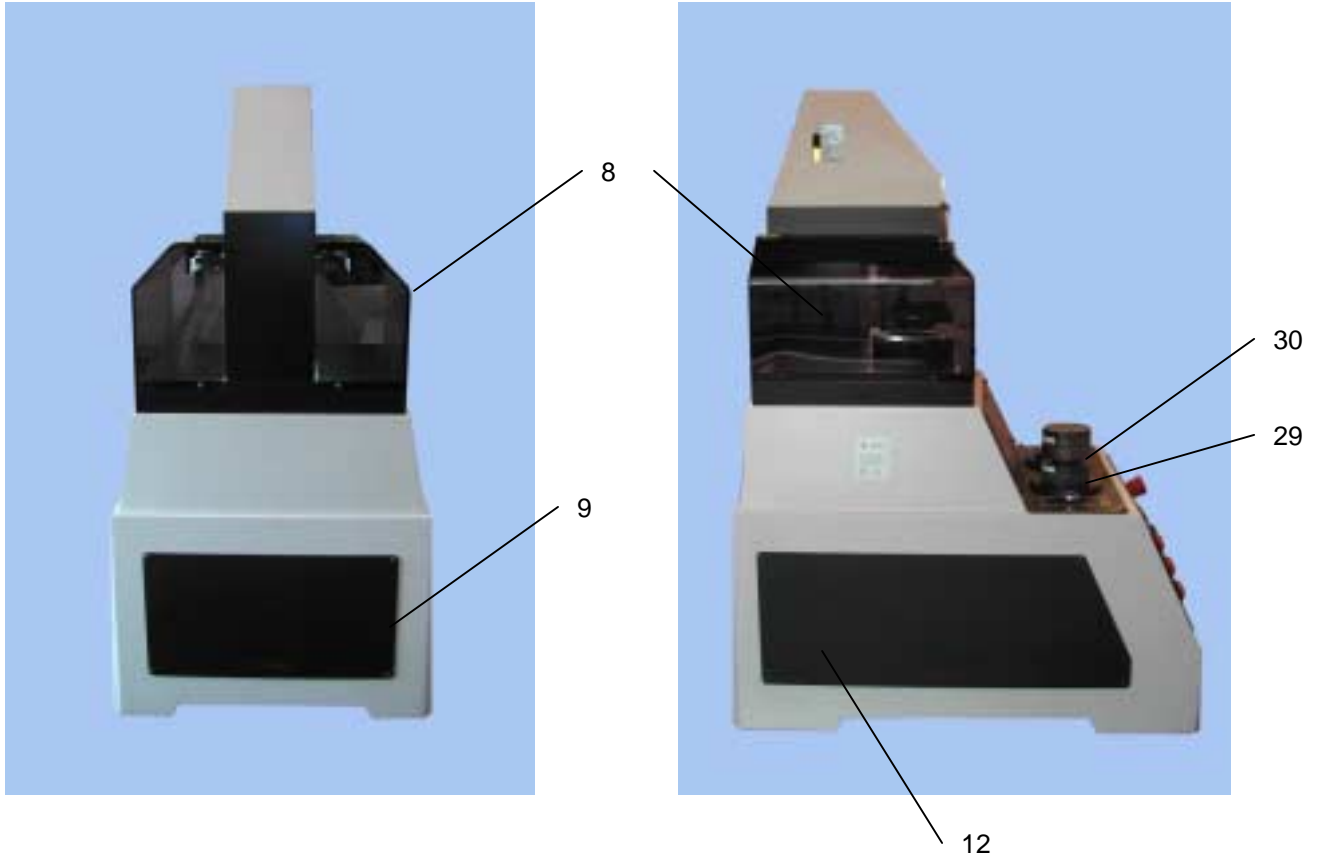
6 Equipment Diagram

6.1 Front and Right Hand Side



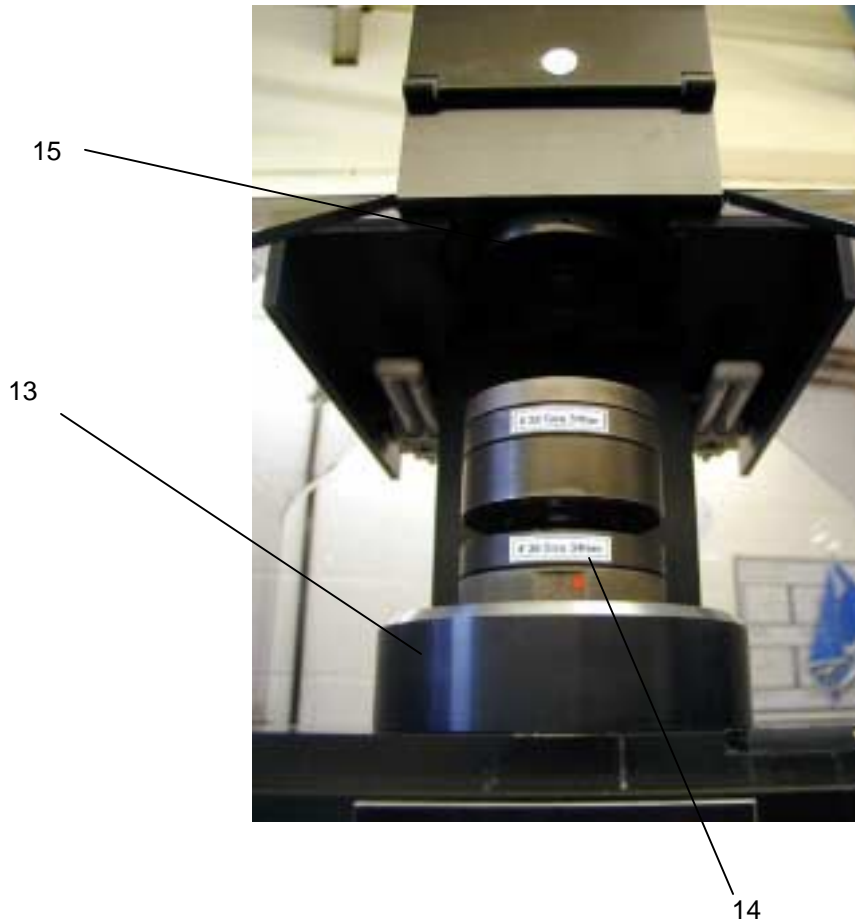
- 1** Top Cover
- 2** Front Guard
- 3** Access Panel
- 4** Control Panel
- 5** Right Hand Cover Plate (Fuses and Power Supply Unit)
- 6** Anti Vibration Feet
- 7** Oil Level Max. and Min. Indicators
- 8 Side Guards
- 9 Rear Cover Plate (PLC and Manifold)
- 10** Mains Power Supply Input
- 11** Pneumatic Mains Supply Input
- 12 Left Hand Cover Plate (Hydraulic Booster)
- 13 Punch Holder
- 14 Punch and Die
- 15 Die Vacuum Clamp
- 28** Punch and Die Button
- 29 Punch and Die Blank
- 30 Punch and Die Rest

6.2 Rear and Left Hand Side



- 1 Top Cover
- 2 Front Guard
- 3 Access Panel
- 4 Control Panel
- 5 Right Hand Cover Plate (Fuses and Power Supply Unit)
- 6 Anti Vibration Feet
- 7 Oil Level Max. and Min. Indicators
- 8 Side Guards**
- 9 Rear Cover Plate (PLC and Manifold)**
- 10 Mains Power Supply Input
- 11 Pneumatic Mains Supply Input
- 12 Left Hand Cover Plate (Hydraulic Booster)**
- 13 Punch Holder
- 14 Punch and Die
- 15 Die Vacuum Clamp
- 28 Punch and Die Button
- 29 Punch and Die Blank**
- 30 Punch and Die Rest**

6.3 Punch Holder



- 1 Top Cover
- 2 Front Guard
- 3 Access Panel
- 4 Control Panel
- 5 Right Hand Cover Plate (Fuses and Power Supply Unit)
- 6 Anti Vibration Feet
- 8 Oil Level Max. and Min. Indicators
- 8 Side Guards
- 9 Rear Cover Plate (PLC and Manifold)
- 10 Mains Power Supply Input
- 11 Pneumatic Mains Supply Input
- 12 Left Hand Cover Plate (Hydraulic Booster)
- 13 Punch Holder**
- 14 Punch and Die**
- 15 Die Vacuum Clamp**
- 28 Punch and Die Button
- 29 Punch and Die Blank
- 30 Punch and Die Rest

7 Accessories

- A1 1 off Operation Manual
1 off Commissioning and Service Manual
- A2 2 off 240v MBC Lamps *
- A3 3 off 24v Indicator Lamps *
- A4 2 off 2A Time Lag Fuses (Mains) *
- A5 2 off 1.6A Time Lag Fuses (PLC) *
- A6 2 off 1A Anti Surge Fuses (power supply) *
- A7 2 off Compact Fluorescent Lamps *
- A8 Assorted Nuts and Bolts *
- A9 1 off Hex Key Set *
- A10 1 off M6x16 CSK SKT Head Screw *
- A11 1 off Punch Adapter Disc *
- A12 1 off Vacuum Filter *
- A13 1 off Air Line Filter *
- A14 1 off Check Unit *
- A15 1 off Moulded Mains Lead (Country dependant) *
- A16 2 off Air Pipes (800mm and 2M)
- A17 1 off Filter-Regulator Unit
- A18 Punch and Die sets

All the above items are available as **Sibert** supplied spares



* Above items are supplied in the Toolkit



A1



A18

8 Unpacking

8.1 Removing Crate Panels

When the **MDP 38** arrives it will be packed in a strong pallet sized crate.

Remove the Top panel using a suitable spanner.

Remove all the included ancillary parts such as:-
Toolcase, Punch and Die sets and filter regulator (if not fitted to bench).

Remove the upper and lower timber retainers.

Carefully open the hermetically sealed foil bag.



8.2 Lifting from Crate



Keep clear of machine while it is being lifted.

Remove the Top Cover using the 5mm HEX Key provided in the Toolcase.

This will then provide access to the lifting eye bolt which can be used to lift the MDP 38 out of the crate using a suitable hoist.



Ensure lifting eye bolt is secure (hand tight only) before attaching hoist. Do not remove the lifting eye under any circumstances.



8.3 Lifting Guidelines



The lifting device should be able to carry at least 400Kg and have a lifting height of 1.9 Metres.



Weight of MDP 38 including packing case is 369Kg.



Weight of MDP 38 bench (if supplied) including packing case 146Kg.



9 Locating

9.1 Mounting on Bench

The MDP 38 should be mounted on a bench of at least 100 cm wide, 80 cm deep. The ideal height of the bench should be 75 cm.

9.2 Bench Description

Sibert Instruments produce a purpose made bench for the MDP 38. This bench accommodates the filter and regulation unit, with an aperture for the pneumatic and electrical supplies.



If the bench selected is not supplied by Sibert Instruments, it must be able to support a minimum of 500Kg.



9.3 Positioning

The back of the MDP 38 should be 20 cm from the wall. If the machine is not mounted on a Sibert Bench, adequate service clearance must be allowed around the rear and side of the MDP 38.

Once the machine has been positioned on the bench the Top Cover can be replaced.



10 Connecting Supplies

10.1 Electricity Supply

The MDP 38 is supplied with a moulded electric mains supply lead (A15) which connects to the Mains Power Inlet (10) at the rear of the machine.

The machine will be delivered to operate in the range:-

AC 100 - 230V \pm 10% 50 - 60 Hz



Check the specification on the side of the machine or see Section 16.

Connect machine to supply only if it conforms to specification.

11

10

10.2 Pneumatic Supply

The MDP 38 is supplied with a Filter / Regulator Unit (A17) together with an Air Hose (A16) for Connection to the Pneumatic Mains Input (11) at the rear of the machine.

A15

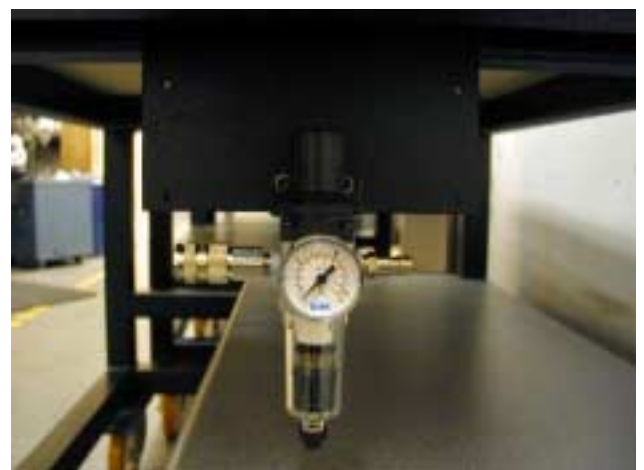
A16



A17

If a Sibert Instruments Bench is not supplied, the Filter / Regulator Unit should be mounted to the right hand side of the machine.

The Sibert Instruments supplied MDP 38 bench has the unit pre-fitted.



10.2.1 Connection

Connect the Filter/Regulator Unit to the mains air supply using the check unit provided.



All pneumatically operated equipment and machinery should only be operated by trained personnel.

Wherever possible, turn off mains air pressure to the check unit.

Make sure that the tailpiece is inserted squarely into the check unit and not at an angle. Push the check unit and tailpiece together.

When the two units are connected correctly, a 'click' will be heard and the sleeve on the check unit will engage onto the tailpiece by locking up against the hexagonal shoulder of the tailpiece.

Next, rotate the grey plastic lock ring on the check unit until the two black arrows are inline.

Check the coupling is correctly engaged by gently pulling each end of the assembly. It should be secure and not pull apart.

Mains air pressure may now be applied

The Regulator (A17) should be pulled to unlock, adjusted to within 85-115 psi (6-8 bar) then pushed to lock.

10.2.2 Release



All pneumatically operated equipment and machinery should only be operated by trained personnel.

Wherever possible, turn off mains air pressure to the coupling assembly.

Rotate the grey plastic lock ring on the check unit through about 90 degrees, until the two black arrows are separated and none of the orange body of the check unit is visible.

Pull the sleeve on the check unit backwards and the tailpiece will be released from the coupling.

Remove the tailpiece and the release is complete.

Pull top to adjust



11 Punch and Die Sets



Care should always be taken when handling Punch and Die sets.

11.1 Initial Installation of Punch and Die Sets

The MDP 38 is usually supplied with two Punch and Die sets.

Each Punch and Die set is supplied with an engraved button cover which should be fitted to the front of the button (28) corresponding to the position that the Punch and Die set will be located on the Punch and Die rest.

Select the required Punch and Die set and place onto Punch Holder (13)

The MDP 38 is now ready for use.



Existing Customer owned MDP 65 Punch and Die sets will need the Punch Adapter Disc fitted (supplied in the Tool Kit). Bottom Clamping Vacuum will be absent if this disc is not fitted.

Extra Adapter Discs and screws are available from Sibert Instruments.

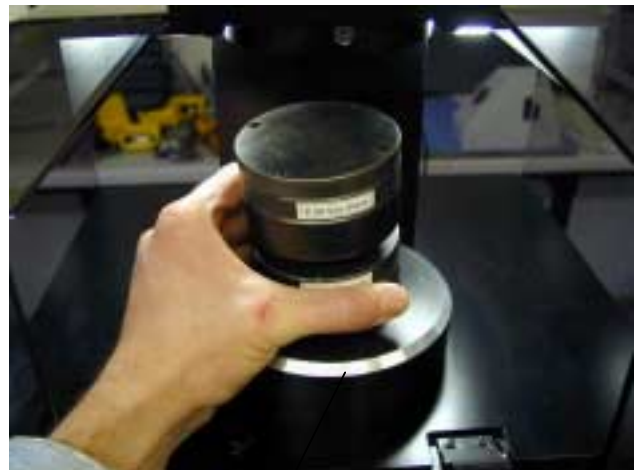


Both this Service Manual and the Operating Manual should be read before attempting to operate the machine.

When positioning the two halves of the punch and die together ensure that this is done carefully to prevent damage to the locator or guide. This may result in damage to the stamper during punching and the punch and die set will need returning to Sibert Instruments for repair.



Care should always be taken when handling Punch and Die sets.



13

11.2 Additional or Replacement Punch and Die Sets

It may be necessary from time to time to add or replace a Punch and Die set.

The MDP 38 will accommodate up to 2 Punch and Die sets and a new size can be located in the other free mounting hole (remove blank first).

Each Punch and Die set is supplied with an engraved button front indicating the size.

If a size button front needs to be changed it can be removed by first unscrewing the button bezel and then firmly pulling off the button front.

The new button front can then be fitted and the bezel replaced.



When replacing a Punch and Die set it is advisable to note the quantity of punch operations, (indicated on the Punch Counter) already existing for this position in the Punch Holder.



12 Fuses



Ensure mains supply is disconnected before attempting to replace any fuse.

12.1 Mains Fuse Replacement

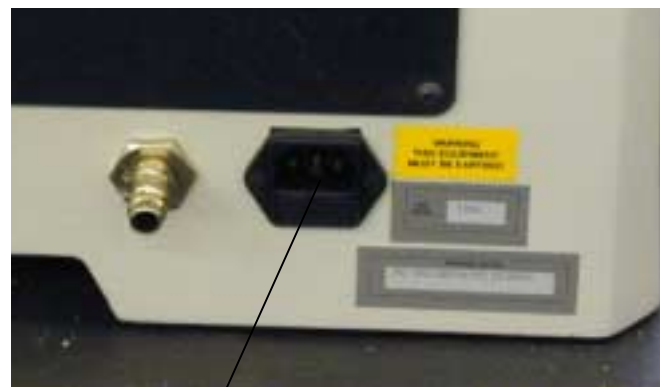
There is one Mains Supply Fuse (1) fitted externally at the rear of the MDP 38 on the left hand side.

The 20mm fuse is as follows:-

Machine	Rating
100 - 230Vac	T2 AL

There is a spare fuse contained in the fuseholder carrier.

Additional fuses can be found in the Toolcase.



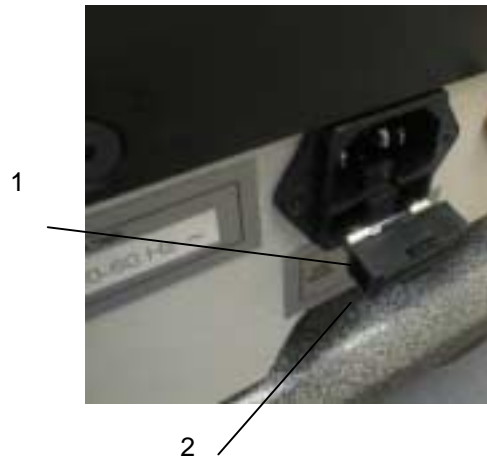
1

The fuse (1) can be replaced by removing the Moulded Mains Lead and then pulling the small carrier out from beneath the socket.

The spare fuse (2) is located in the carrier.



If the fuse blows on replacement, the reason should be investigated immediately.



12.2 Internal Fuse Replacement

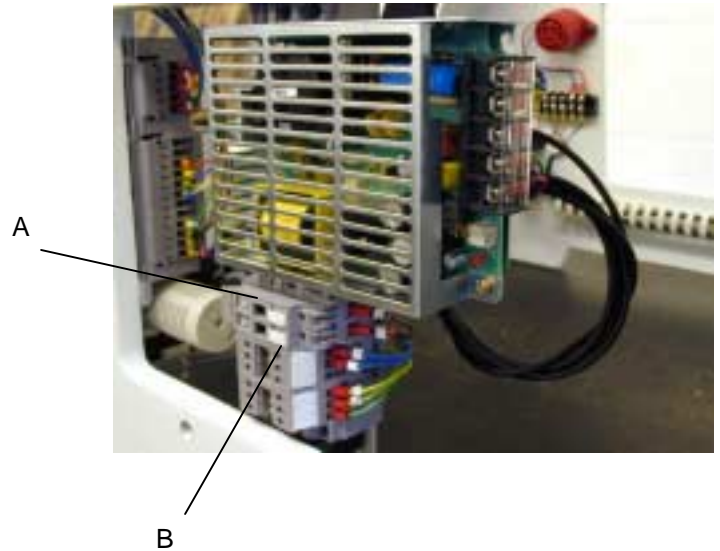
There are 2 internal fuses situated behind the right hand Cover Plate.

The fuse positions are labelled F1 and F2 and are located on the right hand side of the aperture.

They are all 20mm fuses.

Fuse F1 PLC (A)
T 1.6 AL

Fuse F2 Power Supply (B)
T 1A AL



If any internal fuses blow on replacement, the reason should be investigated immediately.

13 Preventative Maintenance

13.1 Schedule

DAILY	
1	Check sufficient supply air pressure
2	Check oil level in reservoir
3	Check Punch and Die sets for quality of cut

WEEKLY	
1	Check front panel is functioning correctly (i.e. all switches and indicators)
2	Check for oil leaks (remove access panels)
3	Check air and vacuum filters
4	Clean Top and bottom Vacuum surfaces
5	Check for air leaks (remove access panels)
6	General clean of complete machine

MONTHLY	
1	Check indicated clamping vacuums (Minimum -15"Hg). This will indicate a change of vacuum filter is required
2	Check general condition and tightness of connections
3	Check tightness of securing screws on all guards and covers

YEARLY	
1	Remove all panels and covers for full inspection
2	If not required sooner, replace vacuum filter
3	If not required sooner, Punch and Die sets should be returned to Sibert for inspection and resharpening (spare set will be required)
4	Check oil for contamination and particles
5	Check all moving parts for wear and damage
6	If not required sooner, replace any necessary lamps including fluorescent



Only authorised personnel to carry out maintenance or adjustments to this machine.



If required, Sibert Instruments can provide a Maintenance Package that includes an annual visit by a Service Engineer.



Maintenance and repair may only be undertaken when the unit is switched and disconnected from the mains input supply.



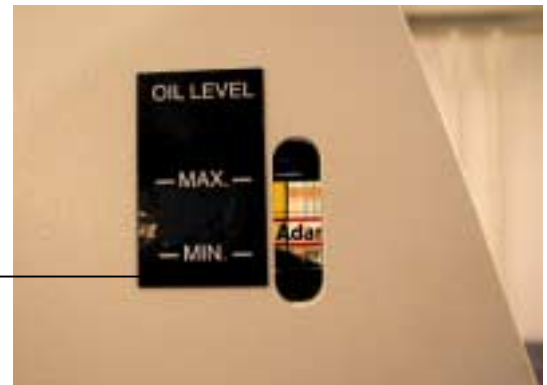
Repair work on hydraulic and pneumatic system, may only be carried out when relevant pressures are zero.

13.2 Hydraulic Oil Reservoir

13.2.1 Level Inspection

If the Reservoir oil level in the sight glass (1) falls below the marked Min. level it is important to check for oil leaks as this can be the only reason for the oil level falling.

1



Provided the reason for the fall in oil level is established and the problem rectified, the oil can be topped up.

13.2.2 Level Top Up

To top up the oil level the 2 M6 screws securing the top cover should be undone and the cover removed.

The Reservoir (2) can then be topped up with hydraulic oil (BP HLP 32 or equivalent).

The top cover should then be replaced.

2



13.3 Filter Replacement



The MDP 38 should not be operated without filters fitted.

13.3.1 Top and Bottom Vacuum Filter

The vacuum air from both the top and bottom clamps is filtered to prevent particles being sucked through the Vacuum Pumps and causing damage.

If the indicated clamping vacuum pressure on either the top or bottom clamp falls below -15"Hg the filter may have become blocked and need replacement.



Vacuum loss due to any other cause should be investigated immediately.

The Filter Assembly (3) is mounted behind the control panel.

With this panel removed, the filter assembly can be accessed.



3

Undo the filter retaining screw and remove the vacuum filter by gently pulling it from the assembly.

A new filter can then be inserted and the above procedure reversed.



13.3.2 Air Line Filter

The Air Line Filter (1) should be periodically checked to ensure that it remains clean. If necessary it should be replaced.

Unscrew the outer body by twisting it counter clockwise. The filter can be removed after unscrewing the retaining screw and cap.

A new filter can then be inserted and the above procedure reversed.

1



Disconnect Filter-Regulator from Pneumatic Mains Input supply before attempting filter replacement.



13.4 Programmable Logic Controller (PLC)

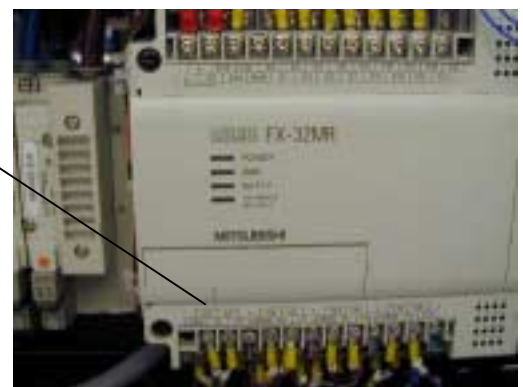
13.4.1 Location

The PLC (2) is located behind the rear cover plate.

13.4.2 Adjustment

The PLC is factory set with a full programmed EEPROM Cassette.

2



No adjustment is possible to the PLC. Contact supplier.

13.5 Fluorescent Lamp

13.5.1 Replacement

The MDP 38 has long life fluorescent tubes fitted to the underside of the top Plate, on either side of the rear column.

The tubes are of the plug-in variety and can be accessed by lifting the Front Guard.

If the Punch and Die is in position, then this must be removed until sufficient clearance is obtained.



Maintenance and repair may only be undertaken when the unit is switched off and disconnected from the mains input supply.



Care should always be taken when handling Punch and Die sets.



14 Service History

Date	Engineer
Details	
Date	Engineer
Details	
Date	Engineer
Details	
Date	Engineer
Details	

15 Schematics

15.1 Pneumatic Schematic

Drg 221901

15.2 Pneumatic Layout

Drg 221902

15.3 Electrical Schematic

Drg 221903

15.4 Electrical Layout

Drg 221904

16 Documentation

16.1 Test Certificate

MDP 38 SERIAL NO:

CUSTOMER:

COLOUR:

SUPPLY / CONSUMPTION:

	ELECTRICAL	PNEUMATIC
FUSE RATING:		
SCHEMATIC DRAWING NUMBER:		
SCHEMATIC ISSUE NUMBER:		
LAYOUT DRAWING NUMBER:		
LAYOUT ISSUE NUMBER:		

FUSE RATING:

SCHEMATIC DRAWING NUMBER:

SCHEMATIC ISSUE NUMBER:

LAYOUT DRAWING NUMBER:

LAYOUT ISSUE NUMBER:

PUNCH AND DIES

PUNCH AND DIE 1 SERIAL NO:

SIZE:

MEASURED ID HOLE OF STAMPER:

 mm

PUNCH AND DIE 2 SERIAL NO:

SIZE:

MEASURED ID HOLE OF STAMPER:

 mm

INSPECTED BY STAMP:

SIGNED:

DATE:

TEST STAMPERS ENCLOSED:

YES	NO
-----	----

16.2 CE 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: Multi Diameter Punch for increasing the inner diameter hole in CD Matrix Stampers.

Name , type or model, batch or serial number: MDP 38

Standards used:

BS EN 292-1:1991	BS 4168-7:1982	BS 4278:1984	BS EN 60127
BS EN 292-2:1991	BS 4320:1968	BS EN 13602:2002	BS 2950:1958
BS EN 294:1992	BS 4320:1968	BS 3692:2001	BS 5584:1978
BS EN 418:1992	BS EN 10270-1:2001	BS EN 10270-3:2001	BS EN 61347:2001
BS EN 60204-1:1998	BS 970-1:1996	BS 5378: 1980	BS EN 60921:1991
BS EN 1050:1997	BS EN 485	BS EN 5499-5: 2002	
BS EN 953:1998	BS EN 515:1993	BS EN 954-1:1997	
BS EN 983:1996	BS EN 573:1995	BS EN 982:1996	
BS EN ISO 4762:1998	BS EN 12020-1:2001	BS ISO 6432:1985	
BS 4168-3:1994	BS EN 12020-2:2001	BS ISO 6431:1992	
BS 4168:1994	BS EN 755:1997	BS 5200:1997	
BS EN ISO 7380:1998	BS EN 754		
BS EN ISO 10642:1998	BS 5200:1997		

Place of issue: Sibert Instruments, Guildford

Authorised representative Paul Sibert Executive Chairman

Name and Position of authorised signatories:

James Gray	Managing Director
Stephen Knight	Product Manager
Allan Harvey	Operations Manager
Ian Locke	Project Manager
Richard Lewis	QA Supervisor
David Humm	Chief Inspector
David Gardner	Purchasing Co-ordinator

Declaration

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

Signature of authorised signatory **Date**

For further information Telephone +44 (0) 1483 739100
Facsimile +44 (0) 1483 302699

16.3 EU Declaration of Conformity

**89/336/EEC Electromagnetic Compatibility Directive, amended by 92/31/EEC &
93/68/EEC
72/23EEC 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: GU3 3BH
England

Description of product: Multi Diameter Punch for increasing the inner diameter hole in CD Matrix Stampers.

Name , type or model, batch or serial number: MDP 38

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.
BS EN 61000-4-2 (Level 4):- 1995/EMC FOR INDUSTRIAL EQUIPMENT/ELECTROSTATIC DISCHARGE REQ.
BS EN 61000-4-4 (Level 4):- 1995/EMC FOR INDUSTRIAL EQUIPMENT/ELEC. FAST TRANSIENT REQ.

Other standards required:

BS EN 50081-2:- 1994/ ELECTROMAGNETIC COMP. GENERIC EM. 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

Authorised representative Paul Sibert Executive Chairman

Name and Position of authorised signatories: James Gray Managing Director
Stephen Knight Product Manager
Allan Harvey Operations Manager
Ian Locke Project Manager
Richard Lewis QA Supervisor
David Humm Chief Inspector
David Gardner Purchasing Co-ordinator

Signature of authorised signatory **Date**

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