ABBERFIELD

INDUSTRIES

PTY LTD ACN 61 000 112 569

STAMP BOOKLET VENDING

ABBERFIELD INDUSTRIES PTY LTD
32 Cross Street, Brookvale, Sydney 2100 Australia
Tel: 61 - (0)2 9939 2844 Fax: 61 - (0)2 9938 3462
Email: contact@abberfield.com.au
Internet: www.abberfield.com.au

THE ULTIMATE MACHINE

2500 SERIES

- Up to four booklet dispensers
- Note and coin acceptance
- Change available
- Extra high security
- Weatherproof
- Secure cash handling
  Collectors cannot access cash.
- Issues audit tickets (Optional)
- Management reports (Optional)
- Battery operation during mains failure
- Wall mount, surface or flush
- Plinth mounting or between pole mounting

2250 SERIES

- Up to four booklet dispensers
- Note and coin acceptance
- Change available
- Extra high security
- Weatherproof
- Secure cash handling
  Collectors cannot access cash.
- Issues audit tickets (Optional)
- Management reports (Optional)
- Battery operation during mains failure
- Wall mount, surface or flush
- Plinth mounting or between pole mounting

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COMPACT / FUNCTIONALITY

2002 SERIES

- One, two or three booklet dispensers
- Note and coin acceptance
- Change option
- Extra high security
- Weatherproof
- Secure cash handling
  Collectors cannot access cash.
- Issues audit tickets (Optional)
- Management Information
- Battery operation during mains failure
- Wall mount, surface or flush
- Pedestal mount

QUALITY / SECURITY

2000 SERIES

- One, two or three booklet dispensers
- Change option
- Extra high security
- Weatherproof
- Secure cash handling
  Collectors cannot access cash.
- Issues audit tickets (Optional)
- Management Information
- Battery operation during mains failure
- Wall mount, surface or flush
- Pedestal mount

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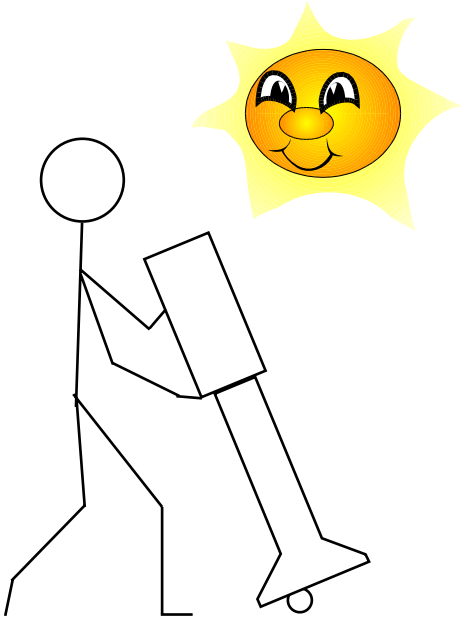
ECONOMY VERSION

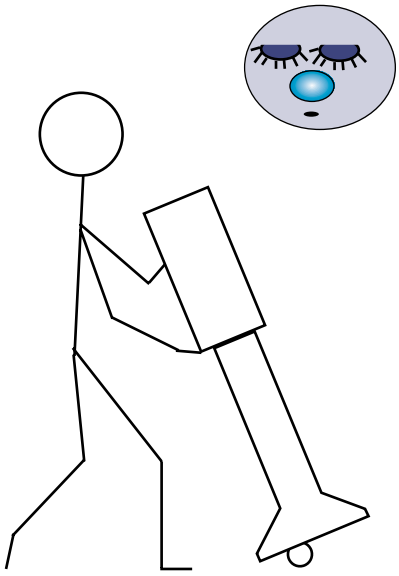
1000 SERIES

- Low cost
- Medium security or high security options
- Weatherproof
- Surface or flush wall mounting
- Pedestal mount, permanently secured

PORTABLE VERSION

Portable pedestal mount, rolls on concealed wheels, operates on battery, secured by chain.





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STAMP BOOKLET

NOTES IN STAMPS OUT INDOOR MACHINES

NTD 250 SERIES
NTD 500 SERIES

- Four or two column machines
- Notes accepted
- Resetable and Non Resetable audit counters
- Wall, surface or plinth mounted

Internal Modules
Note Validator (above)
Stamp Booklet Dispenser (right)

NTD500

NTD250

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STAMP BOOKLET

NOTES & COINS IN STAMP OUT INDOOR MACHINES

NCTD 250 SERIES

- Two column machines
- Notes and coins accepted
- Resetable and Non Resetable audit counters
- Wall, surface or plinth mounted

Internal Modules
Note Validator (left)
Coin Validator (center)
Stamp Booklet Dispenser (right)

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TECHNICAL DETAILS

There are two technology platforms that can be applied to stamp booklet vending.

1. AWARD WIRING MODULAR NETWORKED TECHNOLOGY

2. PURPOSE BUILT VENDING MACHINE

Both technology platforms can be tailor made to meet specific needs.

Modular networked systems employ quality construction in robust vandal proofed housings, suitable forunattended use in exposed locations.

Purposes built machines are intended for indoor semi secure sites. They are a lower cost option with ever increasing options being added over time.

NETWORKED TECHNOLOGY MACHINES

Series- 2500 / 2250 / 2002 / 2000 / 1000

GENERAL FEATURES

A 'Universal' design is offered to accept interchanged components such as stamp booklet dispensers and ticket printers as may be used by different customers.

Housed within a vandal proofed cabinet is a main module, into which is mounted sub-modules. Each of these modules simply plugs and unplugs, usually by just sliding the whole module into position.

Each module contains a microprocessor, not only for its operational requirements, but also to communicate with the other modules and to ensure the integrity of the machine data retrieval system. The interconnection between modules is substantially reduced by software networking using a two wire system. This improves the reliability of interconnecting hardware.

The main module can be removed and the entire system operated normally, out of the equipment casing.

CABINET DESIGN

Cabinets can be produced to any size. However, five sizes have entered production and form the basis of this literature.

Series 1000 machine

410m high, 270mm wide, 180mm deep.

Series 2000 machine

600m high, 420mm wide, 180mm deep.

Series 2002 machine

600m high, 426mm wide, 180mm deep.

Series 2250 machine

600m high, 600mm wide, 180mm deep.

Series 2500 machine

600m high, 840mm wide, 180mm deep.

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CONSTRUCTION MATERIAL

Stainless steel construction is used as a primary security feature. Determined vandals will open even the most sturdy mild steel stamp booklet vending machine, using light weight, portable, oxy acetylene torches. A stainless steel casing will resist this abuse. The panel thickness is 2mm with reinforcing in appropriate areas. Stainless steel screws are used wherever this is appropriate.

HINGING SYSTEM

The hinging system is internal with no vulnerable points, either exposed or concealed. It is not possible to drill through the casing at predetermined places to destroy hinge mounting fasteners.

LOCKING SYSTEM

The locking system is highly vandal resistant. Even destruction of the lock does not release the mechanism. As a further precaution the lock mechanism is protected by a hardened stainless steel fascia.

Removal of the key is not possible unless the cabinet is fully locked.

The latch assembly has overlapping claws that operate in opposing directions and external manipulation cannot release the claws. A multiple of claws engages down the full length of the cabinet. All machines have fourteen claws except the series 1000 which has ten.

These locking claws engage the cabinet and door directly. Attempted forced entry imparts the load directly to the main structure, not to the lock or any mechanism mounting screws.

WEATHER PROOFING

Other than through the coin or stamp booklet entrances, water cannot penetrate to the cabinet interior. A water gutter is fitted on all 4 sides of the cabinet. Additional protection can be provided by a dust and weather neoprene membrane that seals between the door and cabinet.

Water that does enter should escape through internal drain slots.

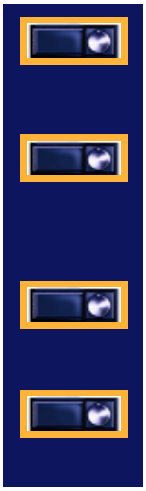
CONCEALED DOOR JOIN

Since the door opens within its own width, the cabinet can be built into a wall, so as to keep the door front flush or nearly flush with the wall. In this position the join between cabinet and door is concealed, making attempted forced entry more difficult.

Free standing cabinets can have this same security by fitting the machine into an optional outer shell, enclosing all but the front face.

MOUNTING FLEXIBILITY

The cabinet design leaves a section around all sides free from control equipment. This area allows bolts to be fitted so that mounting can be:



Upon a wall (rear mounting bolts).

Built into a wall (either side or rear mounted bolts, or both).

Upon a plinth, bench top or stand (bottom mounting bolts).

Between uprights (side mounting bolts).

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MAIN MODULE

This slides into the cabinet and is attached by internal screws which are concealed when the sub-modules are installed. Attached to the rear of the main module is a 'mother' circuit board. This circuit board distributes power and data to all sub-modules, which slide in guides formed by partitions in the main modules metal frame. There is no high voltage on the mother board.

Fitted to the the circuit board are robust self aligning plugs with gold plated contacts. These plugs engage with the sub-modules, which only need to be pressed into place.

ELECTRICAL

Provision is made for electrical cable termination within the cabinet. From this termination is a lead fitted with a plug which attaches to the power supply, being one of the sub-modules.

Cable entry can be through either side, top, bottom or periphery of the rear panel. Mains supply is used to generate 12V to operate high voltage in any part of the equipment accessed by operators or technicians.

POWER SUPPLY

When the cabinet door is opened the power supply is visible, usually positioned in the top left-hand corner. A power 'on / off' rocker switch controls the power supply providing 12 volts DC.

The power supply usually incorporates a low voltage 'system live' light that can show through a fascia on the front door. This 'system live' light can be made to flash in the event of the machine needing service, and extinguish if the machine is totally out of operation.

Further lights are provided on the power supplies fascia to indicate the operating condition of the sub-modules. This is made possible by the use of a microprocessor within the power supply.

Battery back-up can be provided within the power supply, sufficient to operate the complete vending machine during normal black outs.

CENTRAL PROCESSOR UNIT

All machines have distributed 'intelligence' and therefore a separate C.P.U. is not needed. This gives greater reliability and lower cost.

All machines include self diagnosis and will shut down the machine if the coin vault is full, stamp booklet chute is empty, coins or stamp booklet are jammed or if the stamp booklet is not removed by the operator.

The machine includes non re-setable data retrieval.

SOFTWARE

The software involved is sophisticated rather than complex and is layered in levels of access. This means that the software appears incredibly simple to the coin collectors and service technicians. This ensures ease of the machine's use and acceptance by all concerned.

However, a range of audit, service and other details are being monitored quietly without interfering with the basic approach of the machine's functions. Only authorised persons will have access to the various levels of management data.

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COIN VALIDATOR

The coin validator is a standard Abberfield Industries product and has been widely used for boom gate and drive in car wash control for many years. They have a proven record of use in adverse weather and vandal prone conditions.

CASH BOX

Abberfield have designed a novel cash box concept, based on experience with coin 'shrinkage' in large vending applications.

In keeping with the distributed 'intelligence' concept, the cash box is fitted with a microprocessor. This enables considerable audit control.

Additional to the microprocessor is an electric lock and on the cash box front is a small key pad.

When the cash box is installed contacts on the cash box make with the 'mother' board and the cash box is interrogated by the machine's software network. The cash box is coded with a serial number which must be accepted by the machine before the coin inhibit signal is removed.

Removal of the cash box requires entering an authorisation code. If valid, the collector's access code is recorded both in the cash box microprocessor and the machine network software, together with the time of access.

The cash box is then electricity released. Most customers have spare cash boxes and exchange full for empty, so that the machine is open for the shortest period and no cash is on public display.

The electronic cash box lids normally slide straight off but if required can be operated in a more cash secure mode. Rarely used but possible, the cash box can be removed but has an automatic sealing lid which cannot be opened by the collector. Only after it has been taken to the processing station and connected to a data retrieval P.C. will the lid be free to be removed by authorised personnel.

By this process, all data from the machine is recorded before access to the coins is possible.

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PURPOSE BUILD VENDING MACHINE TECHNOLOGY

Series- 250 / 500

- The equipment allows for dispensing one or two stamp booklets with individually programmable prices.
- Equipment is 230 / 240V operated, reducing to safe 12 Volt throughout the working modules.
- Equipment can be mounted upon a wall, upon a bench or upon a plinth.
- Cable entry can be through the side, rear or bottom, plus a preferred method of plugging directly into a power point over which the cabinet is mounted.
- Each of the parts are modular, allowing easy service and permitting continued operation of the remaining dispensers, if one stamp booklet is out of stock or out of service.

FITTING CARD DISPLAYS

Corresponding to each push button is a display window. Into that window can be fitted a panel depicting the product being vended.

Undo the two screws inside the cabinet front door, corresponding to the two top corners of the fascia moulding. This leaves the fascia and control electronics held in place by the centrally positioned M4 nuts.

Held in this way it is possible to bend the top section of the fascia forward and slide in product selection artwork.

FITTING OPTIONAL DISPLAY

An optional advertising frame can be bolted to the cabinet back plate and the cover fits over the point of attachment.

FITTING OPTIONAL PEDESTAL

1. Bolt the ground plate to the floor securely.
2. Fit the Pedestal casing over the ground plate bolts.
3. Securely bolt down the ground plate tie bolt, locking the cabinet.
4. Fit the vending machine casing on top of the pedestal, engaging the long ground plate bolts.

DOOR OPEN ALAM

The equipment is fitted with an alarm to activate if the door is opened. As soon as the door opens press the **Reset** button to turn the alarm off. Machines can be on site programmed to disconnect the alarm.

PROGRAMMING STAMP BOOKLET PRICE

The vend price for each stamp booklet can be set independanly as a field adjustment.

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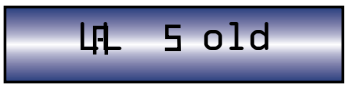
OPERATION

If the machine is sold out or inoperative the display will show a running message

To operate the machine a product selection must be made, ie. press any button.

If that dispenser is empty of cards the display will flash



If there is stock the validator will be enabled, notes can be inserted and the card will be dispensed.

TEST

There is a test function to issue a stamp booklet without affecting the audit count.

AUDIT FUNCTION

There are two audit counters, resettable and non-resettable. These count the dollar value and the numbers of each stamp booklet sold.

FAULT FINDING

The display will show messages to help in diagnosing fault conditions.

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