

# COPIER ACCOUNTING SYSTEMS



**COPYTRON®  
CTM 5000**  
Coin with LED display



**COPYTRON®  
CTM 5020**  
Coin with LC display



**COPYTRON®  
CTM 7020**  
Coin & contactless Mifare® card



**COPYTRON®  
CA 3020**  
Contactless Mifare® card as  
debit card, access card & cost centre



**COPYTRON®  
INPAS 400**  
Integrated network print  
accounting system  
with contactless Mifare® card



**COPYTRON®  
CA 2020**  
Pin code

# Copier accounting system COPYTRON<sup>®</sup> CTM 5000

- Accounting system with coins
- Successor for the CTM 120
- Fully-electronic coin validation of up to 11 coins
- Flexible price adjusting (4 Prices)
- Discounts adjustable (4 discount steps)
- Electronic cash audit and copy counters
- High degree of security (robust steel housing, shaft-locking, lockable cash box)
- Key switch for free/service copies
- Made in Germany

## Technical Data

### **Microprocessor control:**

- Adjusting the prices for the single copy formats and the number of copies for the single discount steps (20c / 50c / 1€ / 2€)
- Four independent prices: DIN A4, DIN A3 and two special functions (e.g. colour A4 and colour A3)
- Displaying the current credit (thrown-in money) and the number of available copies
- Prices and discounts are independent from coins: 20 x 10c yields the same price/discount as 1 x 2€
- Separate pulse input for duplex copies
- Optoelectronic trouble-free customisation to the photocopier
- Adjustable delay for copier enable relay
- Second relay to enable A3 copies
- EEPROM saves the data at mains power failures

### **Electronic coin validator:**

- Coin acceptance of 5c / 10c / 20c / 50c / 1€ / 2€) or other currencies, token or combinations of these
- Other coin set is programmable on the spot with software download (without throwing-in coins)
- Single coins blockable
- Non-jamming electronic coin validation without moving parts
- Fixed programming of the accepted coins or token needs no calibration
- Optimal foreign coin rejection by using electronic measurement system



### **General:**

- Robust steel housing with coin slot, coin return button, LED display with 8 digits and key switch for free/service copies
- Colour: RAL 9002 (light-grey)
- Dimensions: 250 0 Fx 350 0 Fx 100 0 Fin mm
- Weight: 7,2 kg
- Coin box: big lockable coin box with integrated coin return cup
- Mains power: 220-240 V~, 8 VA
- Electrical safety: CE-sign

COPYTRON<sup>®</sup> is a registered trademark of HÖR electronic.

The electronic accounting system CTM 5000 is connectable to all copiers. It is suitable for use in universities, schools, libraries, department stores, copy shops etc.

The copier can be enabled by throwing-in coins. The display gives information about the amount of thrown-in money and the possible copies for this amount. After every copy the remaining number of possible copies is decremented. The copy format can be changed every time.



# Copier accounting system COPYTRON<sup>®</sup> CTM 5020



- Accounting system with coins
- Alphanumerical display with 2x16 signs
- Fully-electronic coin validation of up to 11 coins
- Flexible price adjusting (4 Prices)
- Discounts adjustable (4 discount steps)
- Electronic cash audit and copy counters
- High degree of security (robust steel housing, shaft-locking, lockable cash box)
- Key switch for free/service copies
- Made in Germany

## Technical Data

### Microprocessor control:

- Adjusting the prices for the single copy formats and the number of copies for the single discount steps (20c / 50c / 1€ / 2€)
- Four independent prices: DIN A4, DIN A3 and two special functions (e.g. colour A4 and colour A3)
- Displaying the current credit (thrown-in money) and the number of available copies
- Prices and discounts are independent from coins: 20 x 10c yields the same price/discount as 1 x 2€
- Separate pulse input for duplex copies
- Optoelectronic trouble-free customisation to the photocopier
- Adjustable delay for copier enable relay
- Second relay to enable A3 copies
- EEPROM saves the data at mains power failures

### Electronic coin validator:

- Coin acceptance of 5c / 10c / 20c / 50c / 1€ / 2€) or other currencies, token or combinations of these
- Other coin set is programmable on the spot with software download (without throwing-in coins)
- Single coins blockable
- Non-jamming electronic coin validation without moving parts
- Fixed programming of the accepted coins or token needs no calibration
- Optimal foreign coin rejection by using electronic measurement system

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The electronic accounting system CTM 5000 is connectable to all copiers. It is suitable for use in universities, schools, libraries, department stores, copy shops etc.

The copier can be enabled by throwing-in coins. The display gives information about the amount of thrown-in money and the possible copies for this amount. After every copy the remaining number of possible copies is decremented. The copy format can be changed every time.

The alphanumerical display simplifies the operation of the CTM 5020. All adjustments in the setup mode are menu-driven.



### General:

- Robust steel housing with coin slot, coin return button, LCD display with 2x16 signs and key switch for free/service copies
- Colour: RAL 9002 (light-grey)
- Display: 2x16 signs (sign height: 9,5mm)
- Dimensions: 250 ØFx 350 Ø Fx 100 ØFin mm
- Weight: 7,2 kg
- Coin box: big lockable coin box with integrated coin return cup
- Mains power: 220-240 V~, 8 VA
- Electrical safety: CE-Zeichen





# Copier Accounting System COPYTRON<sup>®</sup> CTM 7020



- Accounting system for coin and chip card
- Alphanumerical display with 2x16 characters
- Uses contactless Mifare<sup>®</sup>-smart cards as debit cards, access cards and cost centre cards
- Upvaluation of debit cards possible
- Up to 1400 cost centre possible
- Fully electronic coin validation up to 11 coin types
- Flexible price-adjustment (4 prices for coins)
- Discounts adjustable (4 discount steps)
- Separate prices for smart cards
- Electronic cash audit and usage control
- High degree of security by robust steel housing, locking bar and lockable cash box
- Two relays with changeover contacts
- Key operated switch for free / service copies

## Technical Data

### **Microprocessor control:**

- Setting the prices per copy and number of copies per discount level (e.g. 0,50 / 1,00 / 2,00 €)
- Displays simultaneous the amount inserted and the number of copies paid for
- Prices and discounts are independent to the coins inserted: 10 x 0,10 € results the same discount as 1 x 1,00 €
- Independent price adjustment for DIN A4, DIN A3 and two special functions (coin and smart card separated)
- Separate connection to count Duplex-copies
- Opto-electronic, i.e. failure-free customisation to photocopiers
- Adjustable release-time for the relay
- Second relay to release A3-copies
- Data-protection in case of power failure

### **Electronic coin validation:**

- Six coin types accepted (e.g. 0,05 / 0,10 / 0,20 / 0,50 / 1,00 / 2,00 €) or other currencies, tokens or combinations
- Single coins can be precluded
- No chance for coins to get stuck because of electronic coin validation (no mechanical mobile parts)
- Adjustable-free permanent programming of coins or tokens to be accepted
- Optimal foreign coin rejection by using electronic measurement system

COPYTRON<sup>®</sup> is a registered trademark of HÖR electronic.

The electronic accounting system CTM 7020 is universal usable for all copier types and is most suitable for universities, schools, book-shops, stores, copy-shops, etc. ...

Make copies by simple inserting coins or pushing in the smart card. The amount and the number of copies you have paid for will displayed. After each copy the display will show you the remaining number of copies. It is possible to change the size of the copies at any time. The CTM 7020 also allows you to valorize your smart card.

The alphanumeric display makes the handling of the CTM 7020 very easy. All settings in setup-mode are menu driven.



### **General:**

- Robust steel housing with coin slot, coin return button, 2x16-character LC-display, smart card slot and key operated switch for free copies
- Colour: RAL 9002 (light grey)
- Display: 2x16 character (9,5mm high)
- Dimension: 250 (B) x 350 (H) x 100 (T) in mm
- Weight: 7,2 kg
- Cash box: large lockable coin box with integrated coin return compartment
- Power supply: 220-240 V~, 10 VA
- Electr. safety: CE-sign

### **Accessories:**

- TAW 500 - table device to valorize smart cards
- WCDA 500 - smart card dispenser and valorizer
- device stand (optional)

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# COPYTRON®-Accessory Device Stand For Coin Systems

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- The solution for all places where it is impossible to mount the COPYTRON® at the photocopier or at the wall.
- Usage freestanding or mounted on the floor.
- Colour: RAL 9002 (light grey)
- Height: 755 mm (incl. rubber bases)
- Usable for the following devices: CTM 100, CTM 120, CTM/C 120, CTM/GK 120, CTM 5000, CTM 5020, CTM/GK 5000, CTM 7020, Universal-Timer UT 8

# Copier Accounting System COPYTRON<sup>®</sup> CA 3020

- Contactless Mifare<sup>®</sup>-smart card operated accounting system
- Uses debit cards, access cards and cost centre cards
- smart card valorization by using
  - our TAW 500 (desktop model)
  - a special valorization-card and the CA 3020
  - our WCDA 500 (a wall mounted device)
- Up to 1400 cost centre possible
- Four prices for different copies adjustable (e.g.: A4, A3, color, b/w)
- One relay with two changeover contacts
- Optocoupler isolated inputs
- LC-Display, 2 x 16 characters, backlight
- Interim- and total-counter
- All counter and settings are accessible by inserting the setup card
- Max. number of copies for cost centre are adjustable
- Data backup in case of power failure
- Optional: serial interface for printer / PC connection
- Dimensions in mm: 122 (W) x 160 (H) x 82 (D)
- Colour: RAL 9002 (light grey)
- Weight: 1,8 kg (without power supply unit)
- Power supply: 24V DC, 100 mA
- Made in Germany
- CE-sign



COPYTRON<sup>®</sup> is a registered trademark of HÖR electronic.

## **General:**

The copier accounting system CA 3020 is universal usable for all common copier types and is most suitable for universities, schools, bookshops, stores, copy-shops, etc. ...

Using the contactless Mifare<sup>®</sup> smart card the CA 3020 is reliable, nearly maintenance-free and protected against manipulation.

The CA 3020 accept smart cards working as debit cards, access cards and cost centre cards. All 3 card types can operate in an asynchronous balance mode.

For example, copy-shop:     debit cards for regular customers  
                                  access cards for casual customers  
                                  cost centre cards for staff.

Accessory: device stand (floor, desktop).

# Copier Accounting System COPYTRON<sup>®</sup> CA 3020

- Contactless Mifare<sup>®</sup>-smart card operated accounting system
- Uses debit cards, access cards and cost centre cards
- smart card valorization by using
  - a special valorization-card and the CA 3020
  - our TAW 500 (desktop model)
  - our WCDA 500 (a wall mounted device)
- The shutter prevents the possibility of inserting coins or other objects
- Up to 1400 cost centre possible
- Four prices for different copies (e.g.: A4, A3, color, b/w)
- One relay with two changeover contacts
- Optocoupler isolated inputs
- LC-Display, 2 x 16 characters, backlight
- Interim- and total-counter
- All counter and settings are accessible by inserting the setup card
- Max. number of copies for cost centre are adjustable
- Data backup in case of power failure
- Optional: serial interface for printer / PC connection
- Dimensions in mm: 122 (W) x 160 (H) x 82 (D)
- Colour: RAL 9002 (light grey)
- Weight: 1,8 kg (without power supply unit)
- Power supply: 24V DC, 100 mA
- Made in Germany
- CE-sign



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## **General:**

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                                  cost centre cards for staff.

Accessory: device stand (floor, desktop).

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# Copier Accounting System COPYTRON® Contactless Mifare® Smart Card

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- Secure against manipulation by 48-bit access-code
- No failure caused by contact-problems (soiling, grease etc.)
- No deletion by external voltage
- Unlimited read-cycles
- 100.000 write-cycles
- 10 years data preservation
- The last 6 sales will be recorded
- The last 3 valorizations will be recorded
- Compatible with MAD
- Usage as student identity card possible, also in association with HIS
- Several purses possible
- Another applications:  
access control, staff-restaurant system, time registration etc..
- Plugable in any way

The contactless Mifare® smart card is designed for all purposes in the future. It removes many effects happens to contact operated smart cards, such as soiling, deletion by external voltage, etc.. It is ideal to operate in outdoor areas or moisty rooms. The Mifare® smart card provides a flexible memory graduation with separate access codes for each memory stack.

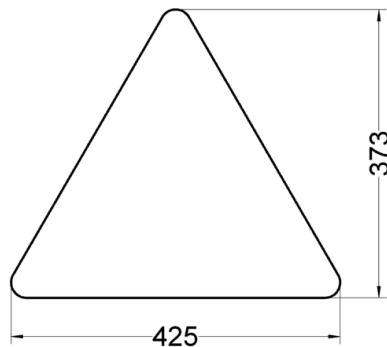
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# COPYTRON<sup>®</sup> - Accessory Device Stand For CA 3020

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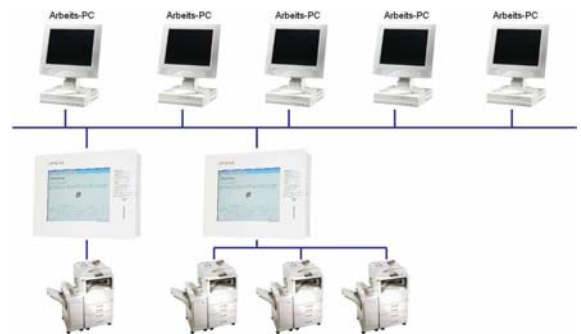
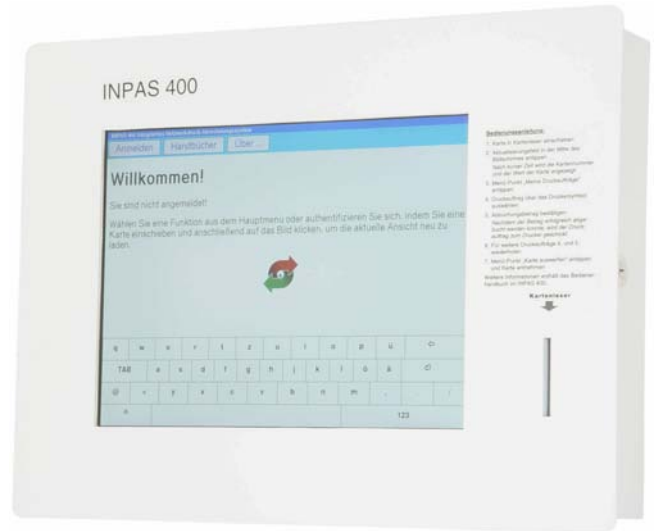


- The solution for all places where it is impossible to mount the COPYTRON<sup>®</sup> at the photocopier or at the wall
- Usage freestanding or mounted on the floor
- Colour: RAL 9002 (light grey)
- Height: 850mm (incl. rubber bases WITHOUT CA 3020)  
930mm (incl. rubber bases and CA 3020)
- Floor space:



# Network-Printing-Accounting System INPAS 400

- Touch-screen handling
- Preview and specific release of the desired print job to avoid unwanted print jobs and misuse
- Printing prices are separate adjustable for each connected printer (A4-b/w, A3-b/w, A4-colour, A3-colour)
- Discounts adjustable
- Colour detection for each printed page
- Several modes:
  - smart card payment
  - cost centre identification by smart card
  - user identification by name & password
- Contactless Mifare® smart card for secure and maintenance-free operation
- All common operating systems can be used to send print jobs
- All settings can be done by web-interface



If you have to gather and account print-jobs separated into clients, then our network-printing-accounting system INPAS 400 will be a perfect solution. It is most suitable for universities, libraries, schools, large companies etc..

The INPAS 400 operates as print-server and accounting terminal for one or more network-printer resp. network-copier. It offers the possibility to preview and to print or to break off the print-job. Before the print-job will be executed the system ensures that the client has enough assets to do the entire job. The client resp. his account will be charged before the job will be send to the printer.

The procedure of the INPAS 400 offers a high-grade protection against manipulation. One network-interface is connected directly to the -official- network. The second interface is connected to the -printer- network, so that all printer are reachable through the INPAS 400 only.

# Network-Printing-Accounting System

## Technical Data

### PC-Configuration

- Intel Pentium 4, min. 2,4GHz
- 2 x 256MB DDR-Ram 400MHz (Dual-Channel)
- Harddisk min. 80GB
- Intel Extreme Graphics 2 (OnBoard)

### Display

- 15"-TFT-Panel, 1024 x 768 Pixel
- Setting of contrast, brightness etc. by internal buttons
- high-grade 15"-glass-touchscreen (3mm glass)

### Network

- 2 x 10/100Mbit Ethernet-Interface (RJ45)
- Separated network for printer resp. copier
- All not needed services are inaccessible
- Additional services are activatable individually

### Software

- Operating System Suse-Linux
- Apache
- GhostScript to analyse print jobs
- CUPS to send the document to the printer

### Administration

- Directly at the INPAS 400
- Using the web-browser at the client-pc
- Remote maintenance possible

### Supported Operating Systems

- Windows NT / 2000
- Windows 98 / ME
- Windows XP Home / Professional
- Linux, Unix, MacOS X

### Printer

- One or more printer connectable
- Connection: network, USB or parallel interface
- All postscript-printer connectable
- All by CUPS supported printer

### Smart Card System

- Integrated reader for contactless Mifare<sup>®</sup>-smart cards
- Segmentation of the smart card according to MAD
- Compatible to all Mifare<sup>®</sup>-systems of Hör electronic
- Valorization of the smart cards by using a wall mounted valorizer or a desktop valorizer

### User functions

- Login via card-number or user-name & password
- Online-manual available (at the INPAS 400 or via client pc)
- Download-area for client-software
- Preview of the print-jobs

### Pricing

- prices separate adjustable for each printer (A4-b/w, A3-b/w, A4-colour, A3-colour)
- Price graduation 1/10c
- Discounts adjustable
- Colour detection for each page or each print-job

### Case

- Robust steel housing with safety lock
- Desktop stand included
- Mounting holes for wall mounting
- Dimensions:  
490mm (W) x 370mm (H) x 93mm (D)

### Adaption / Upgrading

- Adaption of the user login possible
- Communication with CA3020 to release the INPAS 400 possible

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# Desktop Valorizer COPYTRON® TAW 500

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- Comfortable handling of contactless Mifare®-smart cards
- Protected against manipulation by using a master card
- Operation by means of short-stroke keys (no membrane keys)
- LC display, 2x16 characters, backlight
- Displays the number and the value of the smart card
- Fast changing of several smart cards by the memory key (M-key)
- Total counter for accounting control
- Optional also deliverable with a serial interface for the connection to a printer or a pc
- Made in Germany



## **Technical Data:**

- Colour: RAL 9002 (light-grey)
- Dimensions: 155 (W) x 100 (H) x 200 (D) in mm
- Weight: 1,2 kg
- Power supply: 220-240 V AC, 6 VA
- Electrical safety: CE-sign

## **Accessory:**

- Printer / Serial interface (optional feature)

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The table valorizer TAW 500 can be used to change the value of a smart card: revalue, devalue or erase the amount. For security reasons the master-card must be inserted first after power on the TAW 500. After that the smart cards can be modified. With the memory key (M-key) it is possible to modify several smart cards with the same value.

**Printer option:** For printer e.g. the DPU-414 from Seiko or a comparable model can be used.

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# Card-Dispenser-Valorizer COPYTRON<sup>®</sup> WCDA 500

- Vending and valorisation of contactless Mifare<sup>®</sup>-smart cards summerized in one device (2 in 1)
- Compatible to all COPYTRON<sup>®</sup>-devices using Mifare<sup>®</sup>-smart cards
- Sales price for the smart cards adjustable
- Vandalism protected case
- LC display with 2x16 characters
- Banknote validator for 4 different banknotes
- Two card dispenser for up to 850 smart cards (425 smart cards each)
- Recording of the last 100 transactions
- Made in Germany



## Technical Data

### General

- Very robust housing made of 2mm steel-sheet, door made of 3mm steel-sheet
- Safety lock with three locking bars
- Opening angle of the door: 180°
- Overall dimensions in mm: 600(H) x 455(W) x 280(D)

### Microprocessor Control

- Adjusting of the sales price for the smart cards
- Adds up the value of the inserted banknotes and shows it on the display
- Recording of the last 100 transactions
- Data backup in case of power failure

COPYTRON<sup>®</sup> is a registered trademark of Hör electronic.

### Banknote Validator

- Acceptance of up to four different banknotes
- Single banknote types can be debarred
- Patented maintenance-free validation procedure

### Card Dispenser

- Dispense of single smart cards
- Robust construction
- Operating voltage: 24V DC
- Low failure rate by parallel operation of two independent dispenser

### Display

- Alphanumerical LC- display
- 2x16 characters
- Backlight

The WCDA 500 is an universal smart card-vending machine with the additional possibility of smart card valorization. If buying a smart card, the overpaid value is not lost. The remaining value can be used to buy another card or can be credited to an inserted smart card.

Because of its very robust construction the WCDA 500 is usable where sale and valorization of smart cards should be realised without additional staff, e.g. schools, universities, libraries etc.

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# Copier accounting system COPYTRON<sup>®</sup> CA 2020

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- Cost center registration with 999 cost centers
- Connection to the key-counter-connector of the copier is possible
- Short-stroke keys (no membrane keys)
- Enable of the copier is possible with:  
    Cost center number (3 digits) or  
    Pin code (7 digits)
- One enable relay with a changeover contact
- Two inputs, which are isolated with bipolar optocouplers
- LCD display, 2x16 signs, back light
- EEPROM saves the data at mains failures
- Time controlled deactivation of the copier
- Copying limit optional adjustable in steps of 100
- Total counter and two copy counters for every cost center, total counter for every pin code
- Serial interface for sending data to a printer or a PC
- Optional accessories: - mounting bracket  
    - plug-in power supply



- Dimensions: 100 (B) x 195 (H) x 45 (T) in mm
- Colour: RAL 9002 (light-grey)
- Weight: 0,6 kg
- Operating voltage: 24V DC, 60mA
- Made in Germany
- CE-sign

COPYTRON<sup>®</sup> is a registered trademark of HÖR electronic.

## **General description:**

The copier accounting system CA 2020 is a flexible cost center registration. It is connectable to all copiers. The connection is carried out to the key-counter of the copier. The operating voltage can be taken from the copier or from a separate plug-in power supply.

To enable the photocopier a cost center number (3 digits) or a pin code (7 digits) must be entered. An arbitrary number of pin codes can be assigned to every cost center. Group formation is possible through this. The CA 2020 makes it possible to assign copying limits to single cost centers.

Every cost center and every pin code has a total counter. Additionally every cost center has two copy counters (e.g. A4 and A3).

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# Copy Counter COPYTRON<sup>®</sup> KZ 3020

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- Universal copy counter for copy shops
- Lock / enable the connected copier
- Counter reset
- Four prices adjustable (e.g.: A4, A3, colour, b/w)
- One relay with two changeover contacts to release the copier
- Optocoupler isolated inputs
- LC-Display, 2 x 16 characters, backlight
- All counter & settings are accessible by pushing in a setup card
- Interim- and total-counter
- Data backup in case of power failure
- Deliverable with proper connector
- Dimensions in mm: 122 (W) x 160 (H) x 82 (D)
- Colour: RAL 9002 (light grey)
- Weight: 1,8 kg (without power supply unit)
- Power supply: 24V DC, 100 mA



COPYTRON<sup>®</sup> is a registered trademark of HÖR electronic.

## **General:**

The copy counter KZ 3020 is an ideal device for copyshops. It is suitable for colour-copiers by the possibility to set four different prices. If desired the prices can be adjusted in graduations of 0,001 €. The total costs can be displayed at any time.

By keypress the connected copier can be locked or released. The present state will be displayed in cleartext.

The KZ 3020 has internal counter for the total volume of sales and for the volume of sales during an accounting period. It has also a counter for each copy-format.

Accessory: device stand (floor, desktop).

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# Copy counter COPYTRON® KZ 5

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- Universal copy counter for copy shops
- Locking/enabling of the connected copier
- Resetting the counter stand
- Pulse input isolated with optocoupler (bipolar)
- LCD display, 5 digits
- Easy installation
- Connection cable: 9m
- Operating voltage from customary batteries
- Also deliverable with 3 or 4 units in a single housing
- Made in Germany



COPYTRON® is a registered trademark of HÖR electronic.

## **Technical Data:**

- Colour: light-grey
- Dimensions: KZ 5: 146 (W) x 30 (H) x 91 (D) in mm  
KZ 5-3 / KZ 5-4: 158 (W) x 100 (H) x 199 (D) in mm
- Operating voltage: 1 x Mignon LR6 (1,5V) or 2 x Mignon LR6 (1,5V)
- Counting input: - bipolar (polarity must not be taken into account)  
- galvanic isolated  
- signal voltage range 5..24V DC
- Anschlusskabel: - customizable telephone cable with 4 wires and modular plugs  
- 2 connectable parts (6m and 3m)

The KZ 5 can be used, if only the number of copies should be counted and this shall be read easily. Because the KZ 5 can lock the connected copier, it is the right device for e.g. copy shops. With the reset key the displayed counter can be cleared every time.

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# Changer GW 200

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- Acceptance of bills
- Output of 1-3 different coin types
- LC display with 2x16 signs
- Electromechanical bill validator for 4 different bill types
- Optional with coin validator
- Made in Germany



## Technical data

### General

- Very robust steel housing of 2mm-steel sheet, door frame of 3mm- steel sheet
- Security lock with three locking bars
- Opening angle of the door: 180°
- Outside dimensions in mm: 600(H) x 455(W) x 280(D)

### Microprocessor control

- Showing the amount of the inserted money on the LC display
- Control of the output of the coins
- Saving the data at mains power failure

### Bill acceptor

- Acceptance of four different bill types
- Single bill types blockable
- Patented maintenance-free test-procedure
- Integrated stacker for the accepted bills

### Display

- Alphanumeric LC display
- 2x16 signs
- Back light

The GW 200 is the standard device of our change automats. Its equipments can be changed for your specific requirements.

By its very robust construction it is usable everywhere there, where changing of definite coin types should be carried out without additional staff: schools, universities, libraries etc.

The mounting at the wall is very easy by using 6 special screws, which are delivered with the GW 200. The mains power cable can come out above or below.