



Overview of cash dispensing systems

Hardware and software for self-service systems

WINCOR
NIXDORF

"In the Middle of Life"

"In the middle of life" – that is exactly where you will find our cash systems.

In the local bank, shopping centers, mobile ATMs, in the city or at the drive-up. For night drops, ticket purchases or video consulting.

Service is wherever the customer happens to be. With our cash systems you will revitalize your customer contact and actively support your sales: cost-reduced, process-optimized, customer-oriented.

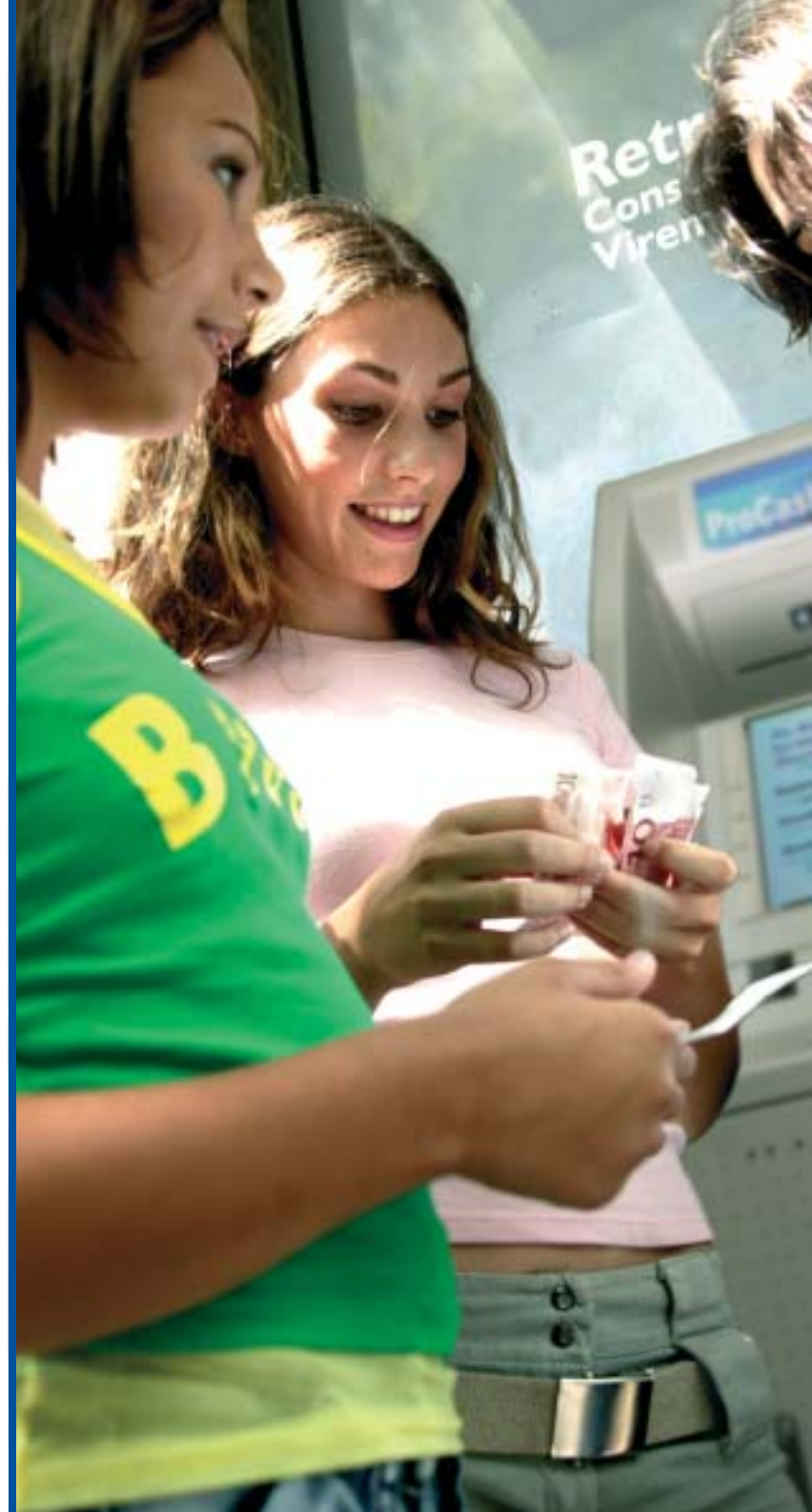
Convenient choice of systems

The right system for each customer – that is the yardstick you can measure us by, and it is backed up by multifunctional cash solutions that are precisely tailored to changing markets, statutory requirements and customers' individual needs. Whether ATMs, cash-in/cash-out machines or cash recyclers – all our systems have the same look and feel. And that is a massive advantage when it comes to standardization. Whether in your bank or at third-party locations your customers will feel at home and be able to handle all their transactions intuitively and securely. At the same time, Wincor Nixdorf's cash systems make a decisive contribution to the appearance of your bank: individualized colors and illuminated promotional logo panels mean that your self-service systems come with your corporate design already integrated.

At the same time our cash systems enable you to realize inactive sales potential, for instance with the package ProSales Marketing. This solution reduces your campaign costs by offering your customers the right product at the right time by way of the ATM, making it a valuable customer management tool for your multichannel sales.

Innovative Top-Ranking Technology

Our designers and programmers have accumulated a wealth of knowledge and experience from our own studies and trend analyses and from international research





projects. And this know-how feeds continually into our systems from the earliest stage of their development. By a process of continuous optimization we have assembled a palette of unusually innovative and user-friendly cash systems with a top-notch reputation all over the world.

Certificated Quality

All the hardware and software modules in our cash systems are a synthesis of proven top-ranking technology and future-oriented innovations. The German certification body DQS has confirmed that we comply rigorously with DIN quality standards ISO 9001 and ISO 9003. This documented certificate guarantees cash systems of the very highest quality.

Ergonomic Design

We have good reason to say that "ergonomics appears on our coat of arms", because Wincor Nixdorf does not create a system as such, but a family of systems with different characteristics – whatever the situation prescribes and your customers desire. "Design for all" is the apposite motto for our solutions. It means that Wincor Nixdorf's intelligent design is able to adapt to various requirements with only minor modifications. An all-round user-friendly and ergonomic system is beneficial to all its users – and is extremely economical.

And last but not least, the fact that Wincor Nixdorf has a pioneering role in all aspects

of ergonomics is demonstrated by the numerous design awards that our systems have received in recent years.

Maximum Security Made-to-Measure

We offer self-service systems individually tailored with security components for our customers' requirements and their areas of application. From structure-borne noise sensors and video management through intelligent safes, locks and GSM location down to anti-tampering technologies and our Platform Security Agent – you receive the optimal combination of security and economy.

Visionary solutions

We are already developing future-oriented solutions for tomorrow. Including, for instance, the "easy-to-clean ATM" – the world's most hygienic cash system. Its weatherproof surface can be treated with an antibacterial agent that simplifies cleaning and prevents persistent contamination; the same process incidentally also puts paid to unsightly graffiti. ESRD screens are a further example of our innovative product policy. ESRD stands for "effective sunlight readable display", and such screens optimize their contrast to make them easier to read in direct sunlight. These visionary developments mean that when it comes to customer-orientation, process automation and cost optimization you will always be nicely ahead of your competitors.

Intelligent Services and Processes

To make sure your business processes function smoothly we have optimized our service operations still further and developed the Wincor Nixdorf eServices Platform. It is the overall concept for electronically based service handling – from ordering consumables through deploying technicians right down to proactive remote servicing. You benefit from this with even faster, more flexible and more reliable services. And the platform enables you to interact directly in order to initiate, control and monitor those services.

Comprehensive Portfolio

In the past Wincor Nixdorf cash systems have repeatedly given our customers decisive competitive advantages. For all branch projects – from analysis and consulting through implementation to outsourcing and service – we are your comprehensive solution partner.

Overview of the Benefits:

- Efficient transaction processes
- Reduced cash handling costs
- High profitability and rapid ROI
- Maximum system availability
- Active sales thanks to particularly customer-friendly solutions
- Staff relieved of routine tasks

Monofunctional cash dispensers

Optimized customer service around the clock, reduced cash handling costs and long-term process orientation – these are the result of over 30 years' experience in the development of automated banking systems and just as long a period of cooperation with customers all over the world.

From this has emerged the ProCash system family, which sets new yardsticks for technology, modularity and design.

ProCash 1500xe



Monofunctional cash dispenser

compact | high-availability | user-friendly

If convenient and compact cash handling is of primary importance then the ProCash 1500xe is the ideal indoor system for you. With its up-to-four cassettes this ATM guarantees maximum availability in banking foyers, filling stations or supermarkets. The optional 15" LCD enables you to generate additional revenues with location-specific promotional offers.

Optional highlights:

- intruder alarm system, portrait camera
- touchscreen
- integrated audio
- 15" LCDs





ProCash 2000xe



Monofunctional cash dispenser compact | flexible configuration

Hardly any other ATM is this adaptable when it comes to offering you the optimum system configuration. You can use the compact ProCash 2000xe as a frontload or rearload model and supplement it as required to increase your revenue, for example to output tickets or vouchers.

Optional highlights:

- touchscreen
- intruder alarm system, anti-skimming device, portrait camera and cash-slot camera
- barcode reader
- illuminated logo areas
- up to 5 cash-out cassettes

ProCash 2050xe



Monofunctional cash dispenser compact | absolutely discreet | indoors & out

The ergonomically positioned control elements and optional privacy display filter of the ProCash 2050xe guarantee maximum security – even in much frequented locations. The individually configurable, illuminated logo area enables your customers to recognize the ATM from some distance away.

Optional highlights:

- touchscreen, sunlight screen
- intruder alarm system, portrait camera
- output of tickets and vouchers
- up to 6 cash-out cassettes
- climate control unit
- illuminated logo areas

ProCash 2054xe



Monofunctional cash dispenser installation-compatible | indoors & out

The ProCash 2054xe has been designed to fit precisely and compatibly in existing openings so that you can easily replace your existing equipment without the need for any structural modifications. Bundle output, 15" LCD and loudspeaker are just a few of the manifold innovative functions offered by this system.

Optional highlights:

- touchscreen, sunlight screen, 15" LCDs
- intruder alarm system, anti-skimming device, portrait camera and cash-slot camera
- illuminated logo areas
- climate control unit

Multifunctional ATMs

Multifunctional ATMs revitalize customer dialog and offer cost-optimized transaction handling.

These systems' manifold flexible combinations, optimal configuration and high availability are unparalleled.

Their rapid return-on-investment makes these versatile systems particularly economical solutions that demonstrably reduce costs.

ProCash 2100xe



Multifunctional cash dispenser

ambitiously designed | highly flexible

Freestanding or built-in, semi-through-the-wall or completely integrated into a frame – the ProCash 2100xe's manifold installation options fulfil your every wish. And the same applies to its highly flexible system configuration and the well thought-out ergonomic design that surpasses even international criteria.

Optional highlights:

- pass-book processing with page-turner function
- coin handling
- document scanner, envelope deposit
- bundle deposit for banknotes and checks



ProCash 2100xxe



Multifunctional cash dispenser
innovative | ergonomic | highly flexible

The ProCash 2100xxe is a genuine all-rounder. Its wide range of functions and an optional four compartment coin hopper make this ATM particularly versatile. Depositing banknotes, printing receipts or depositing securities: the system really fulfills your every wish.

Optional highlights:

- statement printing
- pass-book processing
- integration of a variety of coin modules
- invoice payments

ProCash 2150xe



Multifunctional cash dispenser
high-quality | discreet | indoors & out

The ProCash 2150xe offers you user-friendly all-round service and maximum secrecy in operation. The installation can penetrate walls up to 360 mm thick, enabling you to easily replace your legacy systems without any need for structural alterations.

Optional highlights:

- statement printing/document printing
- pass-book processing
- barcode reader
- document scanner
- alphanumeric combi-keyboard
- bundle deposit for banknotes and checks

Cash-In/ Cash-Out Systems Cash Recyclers

Intelligent deposit and recycling systems automate the entire cash handling process. And this shortens your cash cycle and saves you money from the word go.

You receive a profitable solution that absolutely guarantees your investment.

ProCash 2250xe



Multifunctional cash dispenser
compact | convenient | outdoor & drive-up

The compact ProCash 2250xe was especially designed to be used from an automobile. The system's extremely low profile means that it can also be installed in locations where space is tight. Its optional climate control unit enables this drive-up system to stand up to the most adverse weather conditions.

Optional highlights:

- statement printing/document printing
- output of tickets and vouchers
- check processing
- envelope deposit
- bundle deposit for banknotes

ProCash 2350xe



Multifunctional cash dispenser
freestanding | outdoors & drive-up

Sunlight screen, durable materials and manifold security options fulfil the increased demands for an entirely freestanding ATM. Its intelligent design offers your mobile customers convenient 24-hour operation from their automobile for almost all types of banking transactions.

Optional highlights:

- touchscreen
- automated deposit function for banknotes and bundles of checks (Cash Check Deposit Module)
- statement printing/document printing
- air conditioning system





ProCash 3000



Monofunctional deposit system

customer-friendly | compact | dedicated

The ProCash 3000 permits your customers to pay in banknotes and documents directly on the self-service system. Its compact construction makes the user-friendly ProCash 3000 particularly suitable for lobby locations with frequent deposits. You can use this system as a frontload or rearload model.

Optional highlights:

- touchscreen
- printing receipts or documents using a printer with full graphic capability
- intruder alarm system, portrait camera
- privacy display filter
- integrated audio

ProCash 3100xe



Cash Recycling System

cost-cutting | flexible | volume-oriented

To date the ProCash 3100xe is the only system on the market that offers this unique function: customers can deposit up to five denominations of banknotes at any time of the day or night, and the system then uses these same notes for subsequent withdrawals. Time-consuming and cost-intensive replenishment and removal operations are thus reduced to a minimum, as is the subsequent processing of the deposited cash.

Optional highlights:

- barcode reader, audio systems
- coin-in and coin-out transactions
- intruder alarm system, portrait camera, cash-slot camera

Cash-In /Cash-Out Systems Cash Recyclers

We can offer you optimal cash recycling systems to suit your particular location. These systems enjoy a particularly high customer acceptance, enabling you to rigorously shift routine transactions to your self-service zones.

This not only reduces the cost of processing deposits. Depending on your ratio of deposits to withdrawals you also gain cost advantages from the machines' extended replenishment and removal intervals.

ProCash 4000



Cash Recycling System

cost-cutting | user-friendly

It is not only your customers who profit from cash services outside opening hours and the fact that deposited notes are credited directly to their account. The monofunctional ProCash 4000 also reduces your running costs for replenishment and removal and simultaneously improves your employees' efficiency by enabling them to concentrate on advising and assisting your customers.

Optional highlights:

- integrated audio
- intruder alarm system, portrait camera
- coin-in and coin-out transactions
- anti-skimming device





ProCash 4000xs



Cash Recycling System

compact | modular | user-friendly

Are you looking for a compact cash recycling system? The ProCash 4000xs offers you a flexible and wide range of functions on a footprint of just 0.4 m² for a system only 45 cm wide. This monofunctional cash recycling system gives you a choice of service and operator access from the front or the rear. It comes with five cassettes and is also eminently suitable for even large volumes of deposits.

Optional highlights:

- intruder alarm system, portrait camera
- frontload or rearload model
- 15" LCDs

ProCash 4100



Cash Recycling System

multifunctional | innovative | flexible

The ProCash 4100 offers your customers all possible self-service banking services on a compact footprint and combines the optional functions of cash recyclers and transaction terminals. The system design is innovative, with two integrated safe units controlled separately for access to banknotes and securities.

Optional highlights:

- check and document processing
- DIN A4 printing
- pass-book processing
- barcode reader
- alphanumeric keyboard

Coin sidecars



Coin sidecars

robust | reliable | flexible

The coin sidecar for the ProCash 2100xe, ProCash 3100xe and ProCash 4000 systems enables you to automate your entire coin handling. Around the clock and without assistance your customers can deposit large volumes of loose coins and have the total paid out to the cent. The coin sidecar is available as a frontload or rearload model.

Optional highlights:

- coin withdrawals in bulk or individually
- input hopper capacity 7 kg or 1000 euro coins
- 8-compartment coin hopper
- 4 coin sacks for up to 20 kg

Software for Cash Dispensers

Software structures need to be flexible, reliable and at the same time affordable. These are the challenges that every bank has always had to face.

And at the same time they have to balance the comprehensive banking services that their customers have come to expect against the cost of providing such services.

Wincor Nixdorf is in a position to resolve this difficulty with innovative future-proof software solutions that have already proven themselves thousands of times – consolidating new processes over a number of channels.

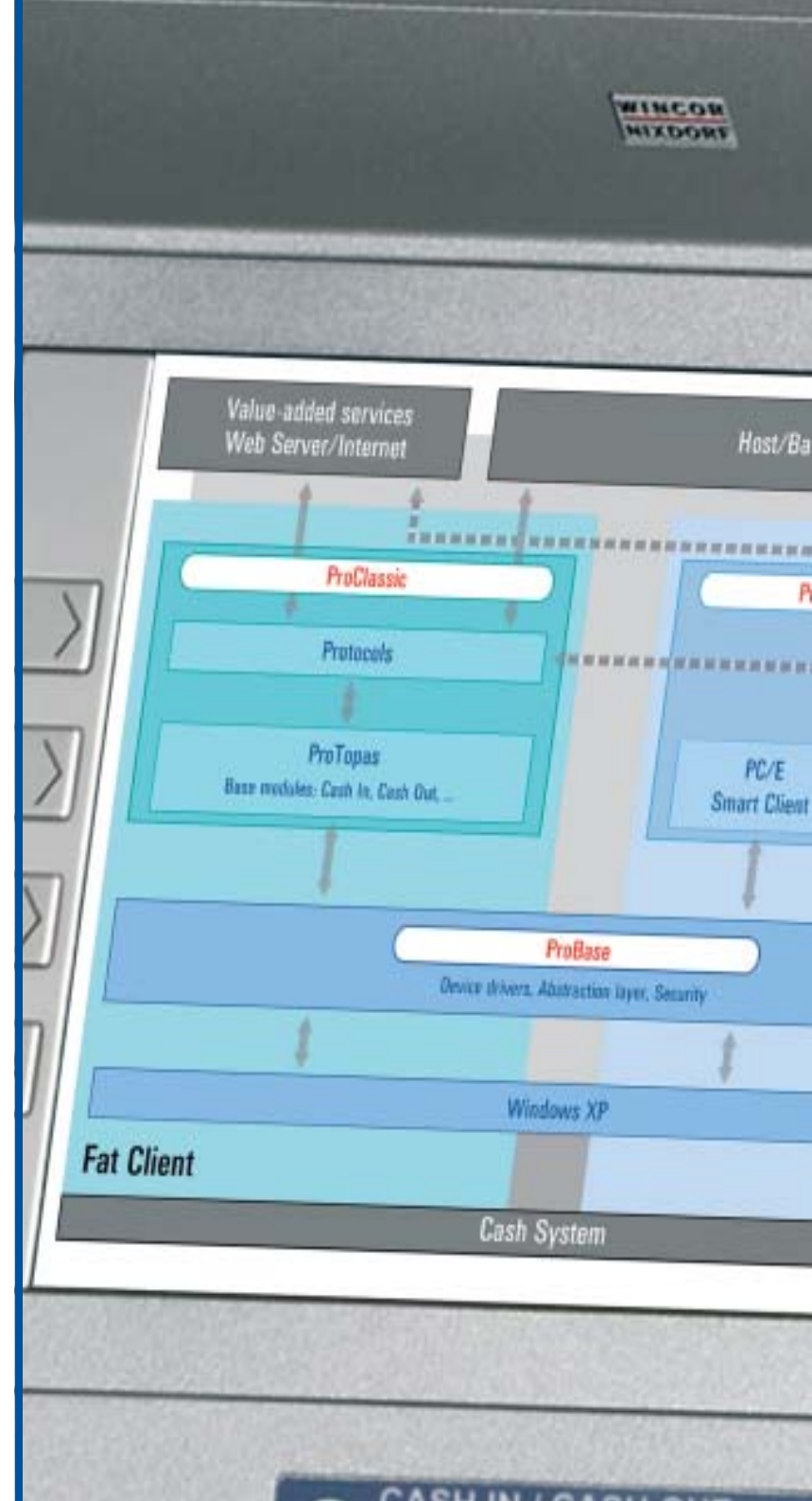
Intelligent software for future-oriented bank branches

One of the keys to successful banking is to interconnect all sales channels and assign them equal weight, so as to significantly increase the value of individual customer contacts while simultaneously reducing the associated costs. But the challenge for this type of process optimization is not merely to cut costs but simultaneously to orchestrate the various architectural approaches into a harmonious whole. Wincor Nixdorf supports your bank's multichannel strategy with a flexible, modular and scalable software portfolio that ensures efficient operation of your entire self-service environment.

Ideal software components for efficient ATM operation

Each cash dispenser contains three layers of coordinated software components: hardware controls, applications for self-service transactions, plus value-added services – and naturally also the connection to the bank's accounting system, the host.

The hardware control components are all contained in the module ProBase, which runs directly under the operating system – for instance Windows XP. This launches the various hardware drivers that provide the functionality for e.g. keyboards or magnetic card readers. Basic security and operating services are also contained in this layer. The integrated abstraction layer GEN/XFS ensures that ProBase is able to communicate with any XFS-compatible





application, thus guaranteeing this basic software genuine multivendor capability.

The second component houses the application that is visible to the bank's customers as the "intelligence" of the self-service system, and this is where the functions that provide each of the individual self-service transactions are located. These can be configured as a package to suit the individual bank's requirements, for instance handling self-service cash-in and cash-out transactions, depositing checks or paying bills. In a dialog banking environment these modules can also be linked into the front-office processes.

Additional modules offering value-added services, such as refilling pre-paid phone cards, customer-specific approaches (one-to-one marketing) or ticket sales, enable cash dispensers to be used as genuinely multifunctional systems.

The connection to the bank's background systems – host systems – is maintained and secured by the third component of our basic solution, the protocol layer. The supported transaction protocols include both vendor-specific standards, such as NDC, DDC and PBM, and independent industrial standards such as IFX and ISO.

Application modules, value-added services and the protocol layer are bundled into a single mature and coordinated software package, and this package is available in two versions – ProClassic and ProClassic/

Enterprise. You can choose the most suitable software architecture for your particular bank's organization, or even combine the two.

ProClassic as a proven multivendor software solution for self-service operation

Cash systems are often operated in dedicated self-service networks and this is the preferred field for ProClassic. This multivendor-capable software package houses both the application and the hardware control directly on the self-service system.

The open, flexible and object-oriented software ProClassic ...

- is multivendor capable and ideal for standardizing heterogeneous networks
- possesses a standardized platform with a modular assembly system for integrating system peripherals and new functions
- offers a high level of reusability across a number of different manufacturers and types of equipment

ProClassic/Enterprise as a network-centered self-service solution

ProClassic/Enterprise employs the client-server principle: the hardware control elements are located on the ATM while the application logic runs on the application server. This makes it possible to set up a flexible self-service network and to merge the various sales channels into one multichannel composite.

This offers a wealth of advantages:

- It is possible to rapidly expand the application to include new functions, regardless of any external background systems
- Function modules that are already available for other channels (web applications and contents) can be reused in a self-service environment
- Possibility of flexible migration by connecting terminals as either smart or fat clients
- Connections to background systems go via industrial standards such as IFX and ISO

ProClassic and ProClassic/Enterprise

Both solutions offer you

- vendor-neutral peripheral addressing
- flexible communication with background systems
- a comprehensive palette of application modules for operating self-service systems from the most diverse manufacturers

You can simultaneously combine this with the following modules from our flexible and comprehensive solution portfolio:

- ProCash/FOnet for dialog banking
- ProSales Marketing for personalized customer approaches (one-to-one marketing)
- ProView for proactive monitoring
- ProCash Analyzer for cash management

For the most common application scenarios we also offer ProClassic or ProClassic/Enterprise as preconfigured bundles.

ATM Overview



ProCash 1500xe



ProCash 2000xe



ProCash 2050xe



ProCash 2054xe



ProCash 2100xe



ProCash 2100xe



ProCash 2150xe



ProCash 2250xe



ProCash 2350xe



ProCash 3000

Installation	ProCash 1500xe	ProCash 2000xe	ProCash 2050xe	ProCash 2054xe	ProCash 2100xe	ProCash 2100xe	ProCash 2150xe	ProCash 2250xe	ProCash 2350xe	ProCash 3000
Indoor	F/R/TTW	F/R/TTW	TTW	TTW	F/R/TTW	F/R/TTW	TTW	-	-	F/R/TTW
Outdoor	-	-	■	■	-	-	■	TTW	FS	-
Keyboards										
Encrypted Pin Pads (EPP)	■	■	■	■	■	■	■	■	■	■
Combi-keyboards, alphanumeric and EPP	-	-	■	-	■	■	■	-	-	-
Card readers										
Motorized hybrid card readers	■	■	■	■	■	■	■	■	■	■
DIP card readers (hybrid)	■	■	■	■	■	■	■	■	-	■
Printers										
Journal printers	T/D	T/D	T/D	T/D	T/D	T/D	T/D	T/D	T/D	T/D
Receipt printers	T/D	T/D	T/D	T/D	T/D	T/D	T/D	T/D	T/D	T/D
Statement / information printers	-	-	-	-	T/D	T/D	T/D	T/D	T/D	-
Screens										
12,1" TFT LCD	■	■	■	■	■	■	■	-	-	■
12,1" TFT LCD sunlight	-	■	■	■	■	-	■	■	■	-
15" TFT LCD	■	■	-	■	■	■	-	-	-	■
15" TFT LCD sunlight	-	-	-	■	-	-	-	-	-	-
Cash-out modules										
No. of cash-out cassettes	up to 4	up to 5	up to 6	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	-
Deposit/recycling										
Envelope deposit	-	-	-	-	■	■	■	■	■	-
Cash and check deposit module (CCDM)	-	-	-	-	■	■	■	■	■	■
Storage media, total	-	-	-	-	2	2	2	2	2	2
Recycling media, total	-	-	-	-	-	-	-	-	-	-
Security										
Safe UL 291 Business Hours	■	-	-	-	-	-	-	-	-	-
Safe UL 291 Level 1	■	■	■	■	■	■	■	■	■	■
Safe CEN L	■	■	■	■	■	■	■	-	-	-
Safe CEN I	-	■	■	-	■	-	-	-	-	■
Safe CEN III	-	■	■	■	■	■	■	-	-	■
Safe CEN IV	-	■	■	■	■	■	■	-	-	■
Safe CEN Vlex	-	-	-	-	-	-	-	-	-	-
Cameras	■	■	■	■	■	■	■	■	■	■
Anti-fraud protection	■	■	■	■	■	■	■	■	■	■
Emergency power supply	-	■	■	■	■	■	■	■	■	-
Additional functions:										
Coin-out	-	-	-	-	■	■	■	-	-	-
Coin-in	-	-	-	-	■ ¹⁾	■ ¹⁾	-	-	-	-
Pass-book processing	-	-	-	-	■	■	■	-	-	-
Audio	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H
Barcode reader	■	■	■	■	■	■	■	-	-	■

Legend: ■ = standard - = not available F = frontload R = rearload TTW = through-the-wall FS = freestanding T = thermal D = dot matrix L = loudspeaker H = headphone



ProCash 3100xe



ProCash 4000



ProCash 4000xs



ProCash 4100



Coin sidecars

	F/R/TTW	F/R/TTW	F/R	F/R/TTW	F/R
	-	-	-	-	-
	■	■	■	■	-
	■	■	-	■	-
	■	■	■	■	-
	■	■	■	■	-
	T/D	T/D	T/D	T/D	-
	T/D	T/D	T/D	T/D	-
	-	-	-	T/D	-
	■	■	■	■	-
	-	-	-	-	-
	■	■	■	■	-
	-	-	-	-	-
	up to 4	up to 4	up to 4	up to 4	-
	■	-	-	■	-
	■	-	-	■	-
	10	5	5	7	-
	5	4	4	4	-
	-	-	■	-	■
	■	■	■	■	-
	■	■	■	■	-
	■	■	■	■	-
	■	■	■	■	-
	■	■	■	■	-
	■	■	■	■	-
	■	■	■	■	-
	■	■	■	■	-
	■ ¹⁾	■ ¹⁾	-	■	■
	■ ¹⁾	■ ¹⁾	-	■ ¹⁾	■
	-	-	-	-	-
	L/H	L/H	L/H	L/H	-
	■	■	■	■	-

1) = only together with sidecars

Here are the principal ATM modules that are listed in the table:

Keyboards

Processing documents

Nowadays, transactions are often read in- to the system for posting, either directly or via scanner modules. An optional alphanumeric keyboard can be integrated into the system as an additional input route. This enables your customers to also process checks in the self-service zone.

Printers

Statements | Transaction receipts | Vouchers and Tickets and much more

Information about current accounts and securities accounts can be printed in a variety of formats and these documents are then output in bundles. If the customer forgets to take the printed documents the system withdraws them and places them safely in its retract box. An optional dot matrix or thermal receipt printer is used to output transaction receipts.

Cash-in

Envelope deposits

This unit makes it possible to deposit cash, checks and various documents in envelopes. An envelope dispenser is integrated in the unit, and the deposited envelopes are placed in a safe. The integrated printer automatically outputs the transaction data, enabling the envelopes to be clearly correlated with users without very much follow-up processing.

Cash and check deposit module (CCDM)

The deposit unit possesses an input hopper for bundles of banknotes. This enables your customers to deposit cash even outside your hours of business hours, the deposited amounts are immediately credited to the customer's account after passing through a counterfeit note detection facility. Checks are also processed entirely electronically. The system immediately interprets the displayed amount and requests the customer to confirm it. The system records full details even of checks with a complex multicolored design.

Additional functions

Coin-in and coin-out transactions

The systems' sidecar solutions support the processing of coins. They contain modules to accept bulk coins or individually. Coins can also be paid out, for example a change from cash-based credit transfers.

Pass-book processing

The self-service pass-book processing is intelligent: it turns to the correct page, locates the correct line, checks the most recent entry and automatically writes the current balance into the book. Forgotten pass-books are retracted and stored in a safe place.

Barcode readers

The system enables customers to pay invoices that are imprinted with barcodes, either as a credit transfer from the account or in cash by using a banknote deposit facility.

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Wincor Nixdorf International GmbH

Heinz-Nixdorf-Ring 1

33106 Paderborn, Germany

Phone +49 (0) 52 51 / 693 - 33 01

Fax +49 (0) 52 51 / 693 - 59 18

www.wincor-nixdorf.com

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