



# X Range™

Driving flexible business



# Flexibility Scalability Productivity



**Adopting a flexible business model allows you to allocate resources when and where it matters, enabling you to sort cash efficiently and cost-effectively. Flexibility, agility and reliability together with low capital investment and maximum productivity are essential in achieving this model.**

The X Range™ is a flexible desktop solution providing high-capacity desktop sorting in return for a low cost of ownership. With quick and easy installation and simple operator processes, the X Range is ideally suited to commercial banks, bank branches, cash centres and small central banks where maximising operating efficiencies and maintaining the highest standards of accuracy and security are vital.

The range includes six configurations, giving you the flexibility to scale your operations as the demands on your currency processing change and multiply. The X Range integrates with ACDP to truly optimise your efficiency, and ECM™ our market-leading cash supply chain platform.



## Driving flexible business



**With a range of six machine configurations from 2+1 to 8+1 pockets, the X Range is a cost-effective solution for a flexible business model.**

The low capital investment of the X Range enables you to scale your operations up and down within one location, and across multiple locations. You can install the same equipment across multiple sites, with a configuration that suits the processing requirements of each site, streamlining operator training and servicing.

The X Range optimises productivity with a standard throughput of 66,000 banknotes per hour (1,100nph). Efficiency is maximised by continuous feeding of the 2,000 banknote capacity feeder and the large, easily accessible output pockets, each holding up to 500 banknotes, including the reject pockets.

The small size of the X Range makes installation and storage simple, as well as the transportation of machines between sites.

The X Range provides access to operational data through open architecture. Four reports are available as part of the sophisticated recording and data storage capability. Through a direct connection, the X Range offers the added benefit of instant report printing.

- ✓ End of batch
- ✓ End of shift
- ✓ End of day
- ✓ Machine report

Up to 20 different currency templates (depending on size of each currency set) can be programmed into the machine making it the ideal solution for locations that process foreign exchange. The intuitive user interface allows for quick change over between currency selections.

A desktop sorting solution with a low total cost of ownership



# The range

The X Range sort modes are user configurable and the diagrams below illustrate some of these modes. These are intended as a guide only and are not a complete list.



**X4200/4500**

- ✓ Counting and authentication
- ✓ Two way fitness sorting of single denomination with one overflow pocket
- ✓ Three way fitness sorting of single denomination
- ✓ Denomination sorting

**X6500R**

- ✓ Counting and authentication
- ✓ Two way fitness sorting on multiple denominations in one pass with overflow pocket
- ✓ Denomination sorting
- ✓ Issue split sorting
- ✓ Three way fitness sorting on single denomination with two overflow pockets

**X5500**

- ✓ Counting and authentication
- ✓ Two way fitness sorting of single denomination with two overflow pockets
- ✓ Issue split sorting
- ✓ Three way fitness sorting on single denomination with one overflow pocket
- ✓ Denomination sorting

**X7500**

- ✓ Counting and authentication
- ✓ High volume three way fitness sorting on multiple denominations in one pass
- ✓ Denominational spread
- ✓ Issue split sorting
- ✓ High volume three way fitness sorting on single denomination in one pass with three overflow pockets

**X6500**

- ✓ Counting and authentication
- ✓ Two way fitness sorting on multiple denominations in one pass with overflow pocket
- ✓ Denomination sorting
- ✓ Issue split sorting
- ✓ Three way fitness sorting on single denomination with two overflow pockets

**X9500**

- ✓ Counting and authentication
- ✓ High volume three way fitness sorting on multiple denominations in one pass
- ✓ Denominational spread
- ✓ Issue split sorting
- ✓ High volume three way fitness sorting on single denomination in one pass with three overflow pockets



## System components

### 1 User interface

- ✓ Large 7" touchscreen
- ✓ Intuitive, colourful, graphical interface
- ✓ Fitness sorting levels are user configurable
- ✓ Can be programmed for single and multiple currency sets
- ✓ Integrates seamlessly with cash management systems including ECM™ ISA
- ✓ Configurable password access enhances operational security

### 2 Feeder & banknote transport

- ✓ 2,000 banknotes capacity feeder
- ✓ Long-edge banknote feeder
- ✓ Continuous feed for optimal productivity
- ✓ Friction feeder handles even the poorest quality banknotes easily and quickly
- ✓ Standard speed of 1,100rpm and throughput of 66,000 banknotes/hour. Optional speeds of 900rpm or 750rpm
- ✓ Quick-to-open covers and access to all parts of the roller transport for easy jam clearance, reducing processing interruptions

### 3 Detectors

- ✓ Accurate and consistent fitness sorting that meets global standards
- ✓ Fitness detection for soiling, stain/graffiti, ink wear, holes & tears, cornerfolds, missing corners, tape
- ✓ Authenticity detection including full-width multi-channel magnetics, double-sided ultra-violet (UV) and infra-red (IR), contact image sensors (CIS)
- ✓ Optional OCR for serial number reading

### 4 Output options

- ✓ Six pocket configurations from 2+1 to 8+1
- ✓ Output pockets with 500 banknotes capacity
- ✓ Option of 200 capacity pockets with the X3200 and X4200
- ✓ Option to configure additional reject pockets available

### 5 Reject Pocket(s)

- ✓ Up to 500 banknotes capacity
- ✓ Easily accessible and neatly stacked banknotes for accurate and efficient deposit reconciliation

# Service



## Service

Simple operator processes, the large 7" touchscreen and intuitive user interface minimise installation and operator training time, meaning you can start to use the machine quickly and with minimal disruption. Productivity is further optimised by the streamlining and efficiency of operator training, service and spares management when multiple X Range sorters are installed, within one site or across multiple sites. The X Range is supported by the CPS global service network and CPS approved distributors.



### Integrated cash supply chain platform

#### Enterprise Cash Management (ECM)

The X Range integrates with ECM, our market-leading integrated cash supply chain platform. ECM is an integrated suite of software products specifically developed by CPS to manage the end-to-end cash cycle. With the best functionality in the industry, ECM is the most widely used cash cycle management system in the world, used by more than 90 customers across 25 countries. ECM is a modular solution consisting of 4 products:

- ✓ **ECM™ ICSP:** Online web portal that provides your customers with greater self-service capability.
- ✓ **ECM™ ISA:** Provides real-time visibility and full traceability and management of inventory, allowing you to get it to where it is needed, when it is needed.
- ✓ **ECM™ BI:** Positively influences performance and provides management with detailed data of the entire operation in-real-time.
- ✓ **ECM™ COP:** Provides insight into how your services are being delivered across the entire service delivery network.

For further information see our ECM brochure.

Optimise stock, enhance revenue and maximise productivity



### Efficient mixed-deposit processing

#### Automated Commercial Deposit Processing (ACDP)

Integrating efficient processing methodologies such as ACDP with the X Range revolutionises your processing capacity. It enables you to meet your customers' current and future processing needs more quickly, easily and economically. With ACDP, banknotes are handled and processed only once, dramatically reducing the cost of processing each banknote, giving you a significant competitive advantage.

ACDP enables you to process multiple customer deposits continuously in a single pass, without stops for batch balancing and reports. This maximises uptime of the machine and reduces processing time. Header and trailer cards are used to separate and identify each deposit and enable instant crediting back to your customer.

ACDP offers limitless options for combining several processes, such as fitness sorting, orientation and spreading mixed denominations, into a single pass process.

#### ACDP enables you to:

- ✓ process high and low-volume customer deposits in the same pass
- ✓ reconcile deposits continuously while processing
- ✓ process multi-denomination currency
- ✓ accept mixed media deposits such as coupons and vouchers in any orientation
- ✓ offer automated prime count facilities to retail customers
- ✓ reduce manual handling of banknotes, increasing security and efficiency

# Product specification

<b>Feeder</b>	
Feeder	Up to 2,000 banknotes, continuous feeding, friction design, long-edge banknote feeding
<b>Fitness sorting &amp; authentication</b>	
Banknote classification	Denomination, series, orientation and size
Fitness sorting	Soil, stain/graffiti, ink wear, holes & tears, cornerfolds, missing corners, tape
Authentication sensors	Full-width multi-channel magnetics, double-sided ultra-violet (UV) and infra-red (IR), contact image sensors (CIS)
Serial number reading	Optional OCR for serial number reading
<b>Output pockets</b>	
Pocket configuration	X3200/3500: 2 output pockets + 1 reject pocket X4200/4500: 3 output pockets + 1 reject pocket X5500: 4 output pockets + 1 reject pocket X6500: 5 output pockets + 1 reject pocket X6500R (4 output pockets + 2 reject pockets) X7500: 6 output pockets + 1 reject pocket X9500: 8 output pockets + 1 reject pocket
Pocket capacity	Up to eight output pockets, each holding up to 500 notes (loose stack) Reject pocket(s) holding up to 500 banknotes (loose stack) Option of 200 capacity pockets with the X3200 and X4200
Reject pocket(s)	One standard, up to 500 banknotes capacity
<b>General</b>	
Processing capability	Standard speed: 1,100nmp (66,000 banknotes/hour) Optional speeds: 900nmp (54,000 banknotes/hour) and 750nmp (45,000 banknotes/hour)
Banknote size range	Width: Up to 91mm Length: Up to 182mm
Banknote substrate	Paper and polymer substrate, including mixed mode
Operating modes	Multiple user defined sort modes Single and mixed denomination Single and mixed issue Facing Automated Commercial Deposit Processing (ACDP)
User interface	7" display, graphical LCD colour touch screen & intuitive user interface
Operating system	Linux
Security access control	PIN access on machine
Connectivity	LAN, USB and Serial ports Enterprise Cash Management (ECM)
Language	Multiple languages available
<b>Operating conditions</b>	
Power	Voltage: 100v-240v +/- 10% Frequency: 50/60Hz
Power ratings	X3200/3500: 240W X4200/4500: 256W X5500: 310W X6500(R): 330W X7500: 350W X9500: 370W
Noise	<77dBA
Ergonomics	Seated or standing operation
Operating temperature	0-40°C
Humidity	30-90% RH
Dimensions (mm) and weights (kg)	X3200: 605(L) x 395(W) x 439(H) / 43kg X3500: 605(L) x 395(W) x 508(H) / 49kg X4200: 762(L) x 395(W) x 439(H) / 49kg X4500: 762(L) x 395(W) x 508(H) / 55kg X5500: 891(L) x 395(W) x 508(H) / 61kg X6500(R): 1022(L) x 395(W) x 508(H) / 67kg X7500: 1076(L) x 395(W) x 508(H) / 75kg X9500: 1300(L) x 395(W) x 508(H) / 90kg

# About CPS

**CPS is the industry's independent global provider of bespoke end-to-end, data-driven cash management solutions, developing long-term partnerships with our customers to safeguard their reputation, optimise their efficiency and protect their investment.**

CPS provides complete cash centre consultancy, data & software solutions and sorting machines, supported by a global service team, to central banks, commercial processors and retailers as well as single note inspection systems to banknote printworks, across the world.

Our integrated solutions enable our customers to have full control and visibility of their banknotes and crucially, own their banknote data, at all stages of the cash cycle from production to destruction.

Our global customer base in over 100 countries, combined with more than 60 years in the industry, gives us the specialist knowledge of global cash cycle trends and currency management we need, to ensure our solutions are tailored to meet our customers' own objectives.

Our on-going support and flexible service packages provide truly future-proofed solutions, enabled through our local presence, global knowledge and a proven ability to deliver bespoke requirements.



Innovation you can trust



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For further information please contact your distributor or your regional account manager.

**[www.cps.world](http://www.cps.world)**

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