

# The NDP Quantum Series

State-of-the-Art Technology



**UNISYS**  
imagine it. done.

## Taking Performance to New Levels.

The ideal platform for centralized check processing centers in small to mid-size financial institutions, for regional centers and specialized applications in large banks, and for remittance processing operations in all industries.

Our engineering teams have incorporated the best-in-class features of our high-speed transports into the NDP Quantum Series platform resulting in unrivaled performance throughout our entire product line. Every aspect of the NDP Quantum Series is designed to provide the dependability required for transaction-intensive environments, attaining an average 98.9% availability.

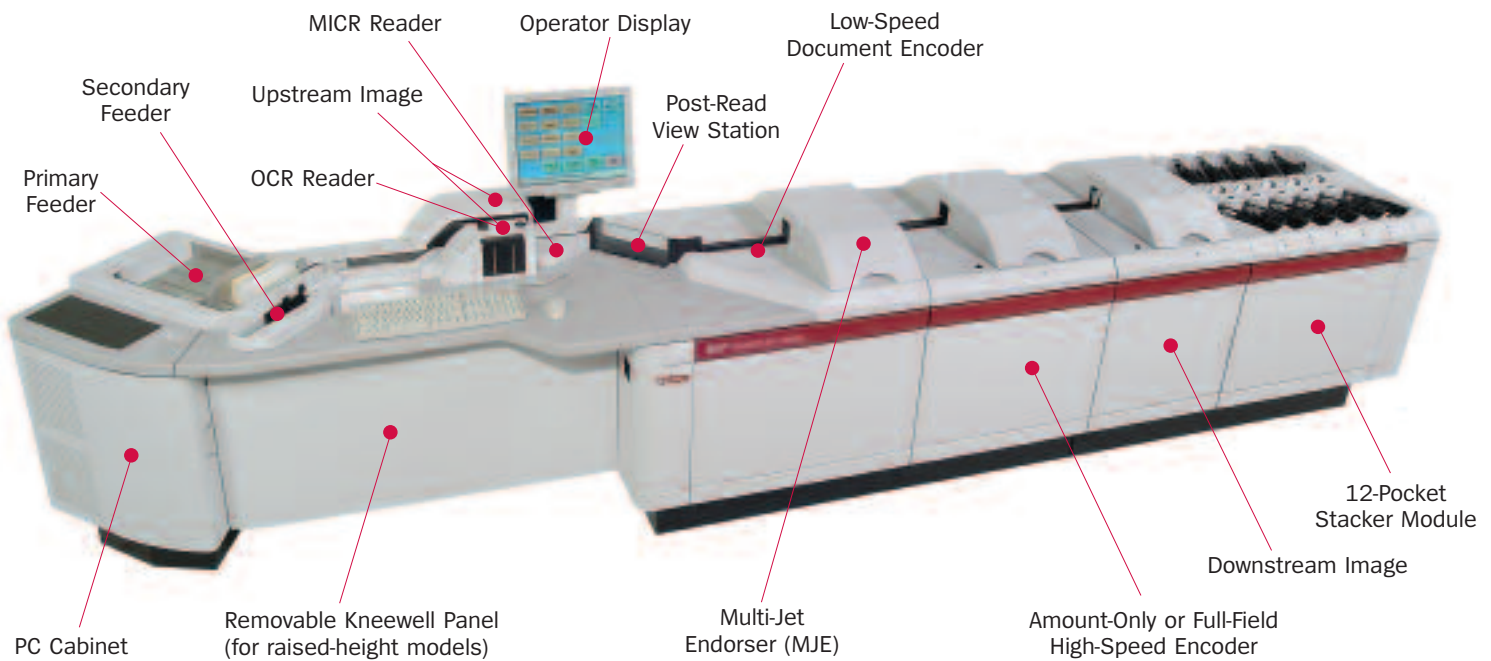
Offered at 200, 300 and 600 documents per minute (dpm), the NDP Quantum Series is the only product family in its class that is field upgradeable from 200 dpm all the way to 600 dpm. Also, the NDP 600 Quantum can be downgraded to 300 dpm if your volumes decline.

With the NDP Quantum Series, you can expect up to 60 percent higher throughput when upgrading from a DP 500 or similar competitive model. And the NDP Quantum Series will outperform competitive transports in its class by as much as 20 percent.

## Maximize Your Return With Unisys.

The leader in providing innovative products and tools designed to improve your overall productivity.

- **Unisys Character Recognition Software**  
Utilizes multiple Courtesy Amount Recognition (CAR) and Legal Amount Recognition (LAR) engines to achieve industry-leading read rates with exceptional accuracy.
- **Image Exchange Utilities**  
Tools to ensure the quality and usability of images and prevent fraud.
- **StatsPlus**  
Tools to measure and maximize platform and operator performance and to plan preventive maintenance.
- **Operator Video Training and Help**  
Transport-based multimedia instructions designed to assist the operator in operating and maintaining the transport.



## The NDP Quantum Series Features.

### Open Track Design

An open track and visual indicators provide unprecedented visibility of document locations.

The open track design makes it easy to identify exceptions.

### Roller System

Advanced roller materials optimize document handling.

Long-life rollers reduce noise and grip items better with reduced downtime and stops.

### Operator Display

A large 17-in. adjustable flat-panel display and optional touch panel are available for easy screen viewing from any area of the transport.

The operator may either touch objects on the panel or click on them with the mouse, whichever is most convenient.

### Removable Kneewell Panel

The removable kneewell panel is designed for flexibility.

Raised-height models come with a kneewell panel that can be removed for comfortable seated read and key operation.

### PC Cabinet

Unisys understands the importance of design.

For an orderly work area, the PC cabinet houses and protects the Windows track control PC. The front door opens out 135 degrees for convenient operator access to the PC and storage area.

### Primary Feeder

The NDP Quantum Series is designed for continual operation and increased productivity.

The automatic primary feeder holds approximately 1,400 documents. An optional, large-capacity hopper with vibrating floor automatically aligns documents for fewer jams. It holds up to 2,550 documents and is available for higher volume operations requiring maximum wall-clock throughput. A Hopper Flag allows for "loading on the fly". A standard manual feeder (single item feeder) provides the ability to enter individual documents manually. The unique Unisys Staple Detector is standard on all NDP Quantum Series models.

### Secondary Feeder

Productivity is improved when the operator can perform other tasks because the transport automatically feeds control documents into the track.

The optional secondary feeder merges documents into the processing stream under program control.

### Field Upgradeability

Protecting your investment.

The NDP Quantum Series is upgradeable on-site from 200 to 300 to 600 dpm. This enables you to start with a lower-cost platform and upgrade as your business needs change.

## Reader

Superior MICR and OCR Readers significantly reduce the time required for data correction due to character rejects and substitutions.

Our magnetic and optical read buffers for the same E13B code line can be combined automatically. The NDP Quantum Series offers a variety of MICR and OCR readers to process documents with multiple fonts, bar code, and dual-height MICR or OCR code lines. OCR code line height selection is programmable, eliminating stops for manual read height adjustments between different batches of work.

## Post-Read View Station

Unlike any other in the industry.

Capability to view codeline area after read without removing and refeeding the document.

## Multi-Jet Endorser (MJE)

Fewer cartridge changes and lower supplies cost are realized through a 500 percent ink capacity increase.

The NDP Quantum Series provides two types of endorsers: the programmable MJE and the Fixed Information Stamp Endorser. The MJE allows for endorsement of up to four lines of programmable text with a graphical logo, for the front and/or rear of documents. It is available with either cartridge or reservoir ink supplies to match the site's ink usage. The Fixed Information Stamp Endorser is available in front or rear endorsement styles.

## 12-Pocket Stacker Module

Our pocket design maximizes operational efficiency.

Up to three modules are available (36 pockets in twelve pocket increments) arranged in an award-winning herringbone pattern to reduce the transport footprint. Enhanced document aligners improve handling of tall documents. Restart buttons are positioned at every module for operator convenience.

## Encoders

The NDP Quantum Series offers both low-speed and high-speed encoder options to ensure highly reliable encoding performance to meet your throughput needs and achieve fault resilience.

Unisys high-speed encoders provide an extensive closed loop error detection system to prevent mis-encoded characters. Unlike its major competitors, the NDP Quantum Series encodes at the rated speed with a single encode module. This avoids the mechanical complexity and additional item manipulation of a split-track solution. Drop-in ribbon loading is provided.

## Low-Speed Document Encoder

This low-cost encoding option for smaller item volumes offers superior print quality and reliability.

The Low-Speed Encoder module, encodes MICR and OCR characters at up to 135 dpm.

## Amount-Only High-Speed Encoder

Choose our accurate high-volume amount encoder, with wider track, in POD or remittance applications.

The Amount-Only High-Speed Encoder module encodes MICR amounts and transaction codes at 200, 300 or 600 dpm.

## Full-Field High-Speed Encoder

The high-speed encoder is designed with a wider track for fewer stops and higher productivity.

The Full-Field High-Speed Encoder module encodes up to 65 MICR characters at speeds ranging from 100 dpm to 383 dpm.

## Image Capability

Our high-resolution image quality enables industry-leading recognition rates providing cost-saving benefits.

The NDP Quantum Series provides the ability to capture and compress up to five images for each document at full-track speed. These images can include CCITT front and rear for Image Statement Print and Data Entry, JPEG front and rear for Archive, and a high-resolution JPEG front for character recognition or special post-processing applications. Image quality suspects are flagged in conformance to the ANSI standard X9.100-180.

Images can be stored in either the industry-standard XML format or the Unisys Common Image API file format. Image quality controls and the digital signatures provide a high degree of assurance that images are usable for their intended purpose and protected against fraudulent alteration.

## Downstream Image

Fully processed items can be archived with Downstream Image.

The downstream image module, located before the first pocket module, captures a fully encoded and endorsed front and rear image of a document.

## Upstream Image

Upstream capture enables real-time recognition processing.

For more efficient image-supported exception handling and lower cost remittance systems, an advanced upstream front/rear camera is available on the NDP Quantum Series. Both downstream and upstream image modules can be configured on the same transport.



## Taking Performance to New Levels.

With its bold progressive look, open-track design, and advanced performance features in every module, the NDP Quantum Series offers unrivaled throughput performance, quality and reliability.

# The NDP Quantum Series

## System Specifications

### Performance

Sustained at the following speeds for

6-in. (15.2 cm) checks:

- NDP 200 - 200 documents per minute (dpm)
- NDP 300 - 300 documents per minute (dpm)
- NDP 600 - 600 documents per minute (dpm)

All devices run at track speed unless otherwise noted

### Front and Rear Image Capture

- Upstream front camera
- Upstream front and rear camera
- Downstream front and rear camera
- Vertical image view areas:
  - 4.52 in. (11.48 cm) on 200 dpi downstream camera and upstream rear
  - 4.0 in. (10.16 cm) on all 240 dpi cameras and on the upstream front camera

### Magnetic MICR Reader Options

- Single-height Auto-Detect - reads intermixed E13B and CMC7 documents
- Dual height - reads E13B MICR

### Image Compression

- Upstream:
  - Front: 240/200 dpi CCITT, 120/100 dpi JPEG
  - Rear: 240/200 dpi CCITT, 120/100 dpi JPEG
  - Optional high-resolution JPEG front image at 240, or 200 dpi
- Downstream:
  - Front/rear: 240/200 dpi CCITT, 120/100 dpi JPEG
  - Optional high-resolution JPEG front image at 240, or 200 dpi
- Up to 5 images per camera at track speed (CCITT/JPEG front and rear plus optional high-resolution front image)
- The downstream camera can optionally be configured with red filters for European Giro applications or with an emboss camera for Japanese applications. The European Giro cameras can be configured to capture both filtered images for ICR and unfiltered images for archive.

### Optical Character Recognition (OCR) (optional)

- (2) OCR codelines selected under application control
- Fonts: OCR-A, OCR-B, OCR-7B and E13B

Requires upstream front image

### Barcode Reader (optional)

- Interleaved "2 of 5" or "code 3 of 9"

Requires OCR reader

### Document Feeders

- Primary hopper capacity: 1,400 or 2,550 documents
- Secondary hopper capacity: 125 documents (optional)
- Storage tray in rear of primary hopper capacity: 700 documents
- Storage tray in front of manual feeder capacity: 200 documents
- Double document detector / staple detector
- Document tray shelf adjacent to primary hopper

### Endorsers (optional)

- (1) front and/or (1) rear MJE
- Print cartridge or reservoir system
- Maximum four lines of text with graphical logo
  - (1) front and/or (1) rear fixed information stamp

### Encoders (optional)

- Low-Speed:
  - E13B or CMC7, OCR-A, OCR-B, up to 135 dpm
- High-Speed:
  - Amount fields/transaction codes (16 characters) up to 600 dpm, E13B or CMC7
  - Full-field: 16 - 65 characters, 383 - 100 dpm, E13B

# Technical Specifications

Module	Length	Depth	Standard Height	Raised Height	Standard Installed Weight	Raised Installed Weight
Workstation operator console with upstream front/rear image	99 in (251.5 cm)	37 in (94.0 cm)	35 in (88.9 cm)	41 in (104.1 cm)	770 lbs (350 kg) 865 lbs (393 kg)	880 lbs (400 kg) 975 lbs (443 kg)
High-speed encoder	26 in (66.0 cm)	29 in (73.7 cm)	35 in (88.9 cm)	41 in (104.1 cm)	280 lbs (127 kg)	310 lbs (144 kg)
Image	21 in (53.3 cm)	29 in (73.7 cm)	35 in (88.9 cm)	41 in (104.1 cm)	252 lbs (114 kg)	277 lbs (125 kg)
First stacker	33 in (83.8 cm)	29 in (73.7 cm)	32 in (81.3 cm)	38 in (96.5 cm)	260 lbs (118 kg)	310 lbs (141 kg)
Second stacker	27 in (68.6 cm)	29 in (73.7 cm)	32 in (81.3 cm)	38 in (96.5 cm)	180 lbs (82 kg)	230 lbs (105 kg)
Third stacker	27 in (68.6 cm)	29 in (73.7 cm)	32 in (81.3 cm)	38 in (96.5 cm)	180 lbs (82 kg)	230 lbs (105 kg)
Acoustic pocket cover			37 in (94 cm)	43 in (109.2 cm)		

## Output Pockets

Increments of 12:	Up to a total of 36 pockets
Pocket capacity:	400 documents
Acoustic pocket covers	(Optional)

## Power Requirements

Power Requirements	Input Voltage	Ampere (amp)
50 Hz	200-240	30 (max. config.)
60 Hz	200-240	30 (max. config.)

## Software Interface

Unisys Common API under Windows XP
Compatible with other Unisys Common API transports

## Safety and Compliance Certifications

UL, CSA, TUV/GS, CE, FCC-A, VCCI, C-Tick

## Consumables

Consult your Unisys Direct Catalog or call 1-800-448-1424 within the USA. Visit them at [www.unisysdirect.com](http://www.unisysdirect.com)

Contact your Unisys representative for international orders

## Warranty

90 days free maintenance period



**Note:** Specifications do not provide a viable substitute for a detailed configuration, environmental and infrastructure planning study. Specifications may change without notice.



## Unmatched Performance, Quality and Reliability.

Unisys NDP Quantum Series delivers the technology to meet today's Check 21 requirements and positions you for the future by providing a completely scalable solution for your needs.

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For more information visit our Website at: [www.unisys.com/products/payment\\_\\_systems](http://www.unisys.com/products/payment__systems)

Specifications are subject to change without notice.

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