



THE **QUALITY** BEHIND
EVERY **TRANSACTION**
DURABLE, SHARP, AND COMPLIANT

Banking Solutions – ATMs and Financial Services



The banking sector demands exceptionally high standards in printing quality, operational reliability, and consumable durability. H2A thermal rolls, designed for banking applications, are engineered to meet these specific requirements thanks to the use of advanced heat-sensitive technologies and high-strength mechanical substrates.

Automated Teller Machines (ATMs/GAB) and equipment used for automated financial transactions operate in critical environments characterized by:
high printing volumes, continuous operation,
and strict security requirements.

H2A provides reliable, robust, and technically optimized solutions tailored to these needs, ensuring consistent print quality, durability, stability, and performance in all circumstances.



Banking Technical Specifications

Available Grammages:

55 g/m²: Premium banking standard for critical applications

48 g/m²: Cost-effective solution that maintains the required banking quality

| Width (mm) | Diameter (mm) | Core (mm) | Banking Applications |
|------------|---------------|-----------|---------------------------------------|
| 80 | 80 | 12 | Standard ATMs, Bank Branches |
| 80 | 200 | 25 | High-capacity ATMs, Financial Centers |
| 80 | 205 | 17.5 | Specialized ATMs, Integrated Systems |

Specialized Banking Applications: Automated Teller Machines (ATMs / GAB)

ATMs represent the most demanding application for banking-grade thermal rolls. Operating 24/7, they require absolute reliability and consistent print quality. Our rolls—particularly the 80x200x25 and 80x205x17.5 formats—offer high capacity, reducing replacement frequency and ensuring maximum service uptime.

The 80 mm width allows the printing of complete and compliant statements, including: account balance and transaction history, banking information, and security elements. The high print quality ensures perfect readability of codes, transaction references, and authentication traces.

Bank Branches & Counters

For teller operations, the 80x80x12 format meets everyday needs for printing receipts, slips, and transaction records. This standard format simplifies restocking, optimizes inventory management, and guarantees a capacity suitable for branch activity.

Integrated Banking Systems

Modern banking environments include multiple printing systems within complex infrastructures. Our rolls ensure full compatibility with these integrated architectures, providing optimal operational fluidity.

Banking Security & Compliance

Compliance with technical standards: sharp printing of security elements, authentication codes, and traceability references.

Anti-fraud resistance: the thermal substrate and printing precision act as a natural documentary safeguard.

Regulatory compliance: excellent fade resistance ensures long-term readability in accordance with legal archiving requirements.

Performance & Operational Reliability

Continuous operation: engineered for intensive use, our rolls maintain their performance during round-the-clock operation.

Environmental resistance: stable printing even with temperature and humidity variations (outdoor areas, public halls, hot climates).

Optimized maintenance: high-capacity formats (200 mm / 205 mm) reduce interventions—and therefore operating costs—while increasing service availability, especially in high-traffic areas.

POS Terminal Rolls

H2A

Technological Innovation Supporting Modern Payment Systems

Thermal rolls designed for Electronic Payment Terminals (POS/TPE) are a highly specialized category of consumables, engineered to meet the strict requirements of the financial industry and secure payment systems.

These compact printing media are developed to support terminals capable of:

reading and authenticating bank cards, recording and tracking transactions, communicating in real time with authorization servers.

With the continuous miniaturization of POS terminals and the rising volume of transactions, technical constraints have become increasingly demanding in terms of:

adapted formats,long-lasting print quality,mechanical and thermal reliability.

Our thermal rolls address these challenges through an optimized design that incorporates the latest heat-sensitive coating technologies and a reinforced structure, ensuring consistent readability, high durability, and reliable performance under all usage conditions.



Banking Technical Specifications

Professional Grammages:

- 55 g/m²: Premium standard for demanding banking applications
- 48 g/m²: Cost-effective solution maintaining the required quality for standard POS terminals

| Width (mm) | Diameter (mm) | Core (mm) | Banking Applications |
|------------|---------------|-----------|--|
| 57 | 30 | 12 | Mobile POS Terminals, Compact Devices |
| 57 | 40 | 12 | Fixed POS Terminals, Retail Businesses |
| 57 | 50 | 12 | High-capacity POS Terminals, Large Retail Stores |

Excellence in Financial Applications

Mobile Payment Terminals

Mobile POS terminals used by itinerant merchants, delivery services, and home-service operators require compact and highly reliable rolls. The 57x30x12 format offered by H2A ensures minimal bulk, optimal print quality, and sufficient autonomy to support a full day of intensive activity without interruption.

Fixed Commercial Terminals

In fixed point-of-sale environments, the 57x40x12 and 57x50x12 formats meet a wide range of transactional volumes. These dimensions ensure continuous payment service—essential for commercial performance—while optimizing supply management.

Integrated Payment Systems

With the increasing integration of POS terminals into more complex checkout systems, the technical compatibility of consumables becomes essential. H2A thermal rolls ensure smooth integration, stable printing, and consistent operational reliability.

Security & Regulatory Compliance

Banking security standards: sharp printing of critical elements (authorization codes, transaction references, traceability identifiers).

PCI DSS compliance: our rolls are designed to preserve the integrity of printed information, contributing to global payment security.

Traceability & archiving: high fade-resistant thermal paper ensuring receipt readability throughout the entire regulatory retention period.

Optimization of Transactional Performance

Printing speed up to 150 mm/s to reduce processing times.

Enhanced mechanical reliability thanks to high-precision winding that prevents jams and machine stoppages.

Simplified stock management: the 57 mm standardization streamlines procurement, reduces logistical costs, and ensures continuous availability.

Cash Register Rolls

Thermal rolls for cash registers represent one of H2A’s core areas of expertise and are the most widely used printing solution in the retail sector.

These high-precision technical consumables are designed to withstand the intensive pace of modern commercial environments, where fast printing, perfect readability, and operational reliability are essential.

The direct thermal technology used in our rolls enables ink-free and ribbon-free printing, offering both an economical and environmentally friendly solution.

The controlled reaction of the heat-sensitive coating ensures consistent print quality with flawless sharpness for text, logos, and barcodes.



Spécifications Techniques Bancaires

Professional Grammages:

55 g/m²: Professional standard offering the best balance between print quality and cost efficiency

48 g/m²: Cost-effective solution maintaining satisfactory print quality for everyday applications

| Width (mm) | Diameter (mm) | Core (mm) | Banking Applications |
|------------|---------------|-----------|---|
| 75 | 75 | 12 | Small Businesses, Specialty Shops |
| 80 | 60 | 12 | Cafés, Restaurants, Local Retailers |
| 80 | 70 | 12 | Convenience Stores, Mid-Size Retail Shops |

Specialized Sector Applications

Supermarkets & Hypermarkets

In high-volume environments, our 80x80x12 rolls (55 g/m²) offer extended capacity, reducing roll changes and improving checkout productivity, while also shortening customer wait times.

Gas Stations & Fuel Distribution

Environments exposed to climatic variations and frequent handling require durable rolls. Our 80x70x12 and 80x80x12 formats ensure long-lasting printing that fully meets regulatory requirements, even under challenging conditions.

Restaurants & Hospitality

The 80x60x12 format is particularly well-suited for restaurant receipts. It reduces bulk while ensuring sharp and precise readability of order details, enabling smooth operations and enhanced customer satisfaction.

Technical & Operational Benefits

Superior print quality: next-generation thermal coating delivering high contrast and sharpness at high printing speeds.

Resistance & durability: excellent resistance to fading, friction, and repeated handling.

Universal compatibility: standard formats compatible with all cash register and POS models.

Standardized 12 mm core: easy installation, smooth unwinding, and incident-free operation.

Economic & Environmental Optimization

Using H2A thermal rolls allows you to:

Reduce operating costs by eliminating the need for additional consumables (ink/ribbons).

Simplify supply logistics through standardized formats.

Lower environmental impact with papers compliant with current ecological standards.

We also offer customized formats, enabling precise adaptation to each client's requirements and optimized stock management—providing a lasting competitive advantage.

Rolls with Back-Side Printing

Marketing Revolution on Thermal Media

Back-side printing on thermal rolls represents an innovative marketing opportunity, transforming every receipt into a direct communication channel with the end customer. H2A develops back-side printing solutions that allow retailers and brands to enhance every transaction by delivering advertising messages, promotional offers, or commercial information directly into consumers' hands.

This approach combines the performance of thermal printing with the creativity of marketing media, offering a unique communication channel characterized by:

- a very high reading rate,
- and a particularly cost-effective contact reach.

Spécifications Techniques Bancaires

Professional Grammages:

55 g/m²: Professional standard offering the best balance between print quality and cost efficiency

48 g/m²: Cost-effective solution maintaining satisfactory print quality for common applications

Specialized Banking Formats:

| Width (mm) | Diameter (mm) | Core (mm) | Banking Applications |
|------------|---------------|-----------|---|
| 75 | 75 | 12 | Small Businesses, Specialty Stores |
| 80 | 60 | 12 | Cafés, Restaurants, Local Retail Businesses |
| 80 | 70 | 12 | Convenience Stores, Mid-Size Retail Shops |
| 80 | 80 | 12 | Hypermarkets, Supermarkets, Large Retail Stores |



Advanced Printing Technology: Up to 4-Color Back-Side Printing

H2A customized thermal rolls feature multi-color (quadri-chrome) back-side printing technology, allowing the creation of visually engaging messages including logos, brand identities, QR codes, and promotional content.

The printing precision ensures:

- Sharp detail and high contrast
- Accurate and consistent color reproduction

The result is a professional marketing medium comparable to traditional printed materials.

Customization & Flexibility

Back-side customization enables dynamic message updates throughout the year, according to:

- seasonal periods,
- commercial campaigns,
- special promotions,
- product launches.

This marketing agility offers a strong competitive advantage in environments where fast commercial responsiveness is essential.

Exceptional Marketing Advantages

| Avantage | Bénéfice |
|-----------------------------|---|
| Distribution automatique | Chaque transaction génère l'impression d'un message, visibilité garantie |
| Audience qualifiée & fidèle | Communication directe auprès de vos clients réels |
| Taux de lecture très élevé | Les clients consultent systématiquement leurs reçus |
| Coût de contact optimisé | Plus économique que l'affichage, les réseaux sociaux ou les imprimés classiques |

In supermarkets, hypermarkets, or high-traffic areas, back-side printing can generate several thousand impressions per day, offering high relevance and remarkable profitability — even for local retailers.



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