ADVANTECH SOLUTIONS (BARCODE LABELS WORLD)
Manufacturing Unit: C-170, 2nd Flr, Mayapuri Industrial Area Phase II, New Delhi 110064
Sales Hotline: +91-9667727123 | Email: saurabh@barcodelabelsworld.com

PRODUCT SPECIFICATION & TECHNICAL CAPABILITY CATALOGUE

Direct Manufacturer & Converter of Barcode Labels, Printed Product Labels & TTR Ribbons

Official industrial catalogue detailing face stocks, adhesive technologies, rotary die-cut sizes, and thermal transfer ribbon grades for warehousing, FMCG packaging, pharmaceuticals, and automated conveyor sorting.

FACTORY CREDENTIALS AT A GLANCE:

Estd. 2007 | GSTIN: 07ACRPC1280B1Z0 | 50,000+ Sq. Meters Daily Capacity | Sourcing: Avery Dennison & UPM Raflatac | 17+ Export Countries

Primary Manufacturing Divisions

1. Barcode Labels

Self-adhesive paper & synthetic labels for thermal printing and inventory tracking.

Substrates:
- Chromo Paper (Semi-Gloss)
- Direct Thermal (Top-Coated)
- TT2C Uncoated Thermal
- Polypropylene (BOPP Film)
- Polyester (PET Matte/Silver)
- Cryogenic Cold-Chain (-80C)
- Tamper-Evident Void Seals

Printers: Zebra, TSC, Honeywell

2. Printed Product Labels

Multi-color brand packaging labels engineered for bottles, cartons, and containers.

Capabilities:
- Up to 8 Colors Flexo Print
- Low-Migration Food Safe UV Inks
- Gloss & Matte Lamination
- Spot UV Varnish & Cold Foil
- High-Tack Tyre Adhesives
- Pharma Serialization Wraps
- FSSAI & FDA 175.105 Compliant

Format: Automated Roll & Sheets

3. Thermal Ribbons (TTR)

Precision-slit ribbon rolls with printhead protective silicone backcoat technology.

Formulations:
- Standard Wax (Rich Black)
- Resin-Enhanced Wax
- Premium Wax-Resin Hybrid
- Full Industrial Resin (Solvent)
- Textile Wash Care (90C Wash)
- TTO Near-Edge (High Speed)

Cores: 0.5" plastic & 1" cardboard
Slit widths: 35mm to 220mm

DIRECT FACTORY WHOLESALE SUPPLY & CUSTOM TOOLING

We provide wholesale contract converting for commercial printers, 3PL logistics networks, retail chains, and export buyers. All consignments are manufactured at our Mayapuri Phase II plant in New Delhi with assured 24 to 48 hour dispatch across India and scheduled air/sea international freight.
Hotline: +91-9667727123 | Email: saurabh@barcodelabelsworld.com | Web: www.barcodelabelsworld.com

1. Manufacturing Machinery, Plant Infrastructure & Standards

Advantech Solutions operates an advanced label manufacturing and converting plant in Mayapuri Industrial Area Phase II, New Delhi. With over 18 years of technical converting heritage, we process prime self-adhesive jumbo rolls from globally accredited coaters into precision rolls, fanfolds, and flat sheets engineered for automatic dispensing and desktop printing.

Equipment / Capability	Technical Specifications & Performance Parameters
Manufacturing Plant Location	C-170, 2nd Floor, Mayapuri Industrial Area Phase II, New Delhi 110064, Delhi, India
Flexographic Printing Presses	Multi-color central impression flexo lines up to 8 colors with inline UV curing and front/back print capability
Rotary Die-Cutting Units	Computerized rotary magnetic cylinders with flexible die-tooling maintaining +/- 0.2 mm kiss-cut precision
Slitting & Rewinding Lines	High-speed turret slitters with electronic web tension control, preventing roll telescoping and uneven edge trim
Thermal Ribbon Slitting Lathes	Dedicated cleanroom TTR slitting machinery producing static-free Wax, Wax-Resin, and Resin rolls
Daily Converting Capacity	Exceeding 50,000 square meters daily converting, die-cutting, and slitting throughput
Raw Material Master Sourcing	Avery Dennison (Fasson), UPM Raflatac, Lintec prime label stocks and release liners
Core Sizes & Formats	1 inch (25.4 mm), 1.5 inch (38 mm), and 3 inch (76.2 mm) heavy-duty industrial cores

2. Quality Assurance Protocol & Scannability Verification

A barcode that fails to scan creates expensive delays, supply chain chargebacks, and warehouse bottlenecks. Advantech Solutions tests every production batch against internationally accepted FINAT and ANSI testing standards:

Inspection Checkpoint	Standard Testing Method	Quality Guarantee & Operational Impact
Optical Barcode Scan Integrity	ANSI / ISO 15416 and 15415 standards	Guarantees Grade A and Grade B optical contrast across 1D and 2D symbologies
Adhesive Peel Adhesion	FINAT FTM 1 (180 degree peel test)	Confirms permanent bond strength on corrugated cartons, HDPE containers, and stee
Liner Release Force	FINAT FTM 3 low/high speed release	Ensures clean label stripping without web breakage on automatic labeling machines
Smudge & Scratch Resistance	Taber abrasion & IPA solvent rub test	Validates thermal ribbon print durability against transit abrasion and human handling
Thermal Cycling Stability	Environmental chamber (-40C to +150C)	Verifies label adhesive and substrate survival in deep freezers and hot engine bays
Release Liner Web Strength	Super-calendered 58/62 GSM Glassine	High tensile tear resistance eliminates downtime on automated packaging lines

STATUTORY & ENVIRONMENTAL COMPLIANCE:
BPA-Free Thermal Papers | RoHS & REACH Compliant Synthetic Films | FDA 175.105 Indirect Food Contact Emulsions | WHO-GMP Compliant Serialization

3. Barcode Labels Division: Substrates, Grades & Dimensions

We convert specialized paper and synthetic face stocks to suit specific thermal printing technologies, environmental temperatures, and operational handling conditions:

Substrate / Grade	Ribbon Required	Recommended Application Sector	Temperature Range
Chromo Paper (Semi-Gloss)	Wax or Wax-Resin	Retail billing, FMCG boxes, shipping cartons, general storage	10 deg C to +70 deg C
Direct Thermal (Top-Coated)	Ribbon-less	E-commerce shipping labels, courier waybills, weigh scales	20 deg C to +50 deg C
TT2C Thermal Transfer Paper	Wax or Wax-Resin	Warehouse inventory, pallet tags, logistics carton identification	15 deg C to +65 deg C
Polypropylene (BOPP Film)	Wax-Resin or Resin	Beverage bottles, chemical containers, moisture-exposed goods	20 deg C to +90 deg C
Polyester (PET Silver/Matte)	Full Industrial Resin	Asset tracking, electrical equipment, automotive component labeling	40 deg C to +150 deg C
Removable Adhesive Paper	Wax or Wax-Resin	Glassware, ceramics, books, furniture, zero residue removal	10 deg C to +60 deg C
Tamper-Evident Void Film	Full Industrial Resin	Warranty void seals, security packaging, calibration asset marks	20 deg C to +80 deg C
Cryogenic Cold-Chain Stock	Full Industrial Resin	Clinical blood bags, test tubes, deep freeze storage down to -80 deg C	80 deg C to +50 deg C

Ready-Stock Standard Rotary Die Sizes (W x H)

Label Size (W x H)	Standard Roll Count	Core Diameter	Primary Industry Application
50mm x 25mm (2" x 1")	2,000 labels/roll	1 inch or 3 inch	Retail pricing, grocery barcode tags, apparel inventory
75mm x 50mm (3" x 2")	1,500 labels/roll	1 inch or 3 inch	Warehouse bin labeling, carton tracking, medical boxes
100mm x 50mm (4" x 2")	1,000 labels/roll	1 inch or 3 inch	Outer shipper cartons, logistics sorting, pallet tags
100mm x 75mm (4" x 3")	1,000 labels/roll	1 inch or 3 inch	Manufacturing batch labels, drum identification, retail totes
100mm x 150mm (4" x 6")	500 labels/roll	1 inch or 3 inch	Standard E-commerce courier shipping waybill (Amazon, Flipkart)
150mm x 100mm (6" x 4")	1,000 labels/roll	3 inch industrial	Export pallet shipping manifests, automotive container tracking
38mm x 25mm (1.5" x 1")	2,500 labels (2-up)	1 inch desktop	Pharmacy prescription bottles, jewelry tags, electronics parts

** Custom rotary magnetic tooling available for non-standard millimeter dimensions, circular shapes, and special gaps.*

4. Multi-Color Printed Product Labels Division

Advantech Solutions manufactures vibrant, high-definition printed product packaging labels for pharmaceutical formulations, FMCG goods, food and beverages, automotive tires, and industrial chemicals. Printed up to 8 colors with UV curing and inline embellishments.

Manufacturing Parameter	Technical Capabilities & Standard	Operational Relevance & Benefits
Printing Process	Multi-color flexography up to 8 colors with UV curing	Consistent Pantone color matching, sharp micro-text, and halftone clarity
Face Stocks Available	Chromo art paper, Clear BOPP, White BOPP, Metallized PET	Selected to match container substrate (glass, PET, tinplate, HDPE, pape
Inks & Formulations	Low-migration UV inks, lightfast pigments, solvent-resistant	Zero toxic odor, rub-resistant, compliant with food and pharmaceutical sa
Surface Embellishments	Gloss lamination, Matte lamination, Spot UV, Cold foil stamping	High-end visual shelf appeal and protective barrier against scuffing
Adhesive Systems	Permanent acrylic, solvent acrylic, high-tack rubber, tyre-grade	Engineered to bond reliably to oily tires, curved vials, or refrigerated jars
Supply Format	Continuous precision rolls for machine dispensing or flat sheets	Wound on 1 inch, 1.5 inch, or 3 inch heavy-duty industrial cores
Overprint Calibration	Designated varnish-free matte coding windows	Calibrated for secondary TTR, inkjet, or laser batch and expiry overprintin

Vertical Industry Label Solutions

• Pharmaceutical Cleanroom Labels

WHO-GMP compliant vial wraps, ampoule labels, and syrup bottle stickers manufactured in clean environments. Features solvent acrylic adhesive resisting moisture and -80 deg C deep-freeze cold storage.

• FMCG & Consumer Goods

High-speed roll labels engineered for automated labeling applicators running at up to 300 containers per minute with zero web breakage or corner lifting.

• Tyre & Rubber Tread Labels

Heavy coatweight vulcanized rubber adhesives designed specifically to anchor securely to textured, sulfur-rich, and oily rubber tire surfaces without falling off in transit.

• Food & Beverage Nutrition Labels

Grease-proof, water-resistant filmic labels meeting FDA 175.105 indirect food contact standards, engineered to withstand refrigerator moisture, ice-bath submersion, and oily sauces.

5. Thermal Transfer Ribbons (TTR) Division

Advantech Solutions manufactures and slits industrial thermal transfer ribbons featuring an ultra-thin 4.5 micron polyester base film and a proprietary silicone backcoating that protects thermal printheads from electrostatic discharge and abrasive wear.

Ribbon Formulation	Substrate Compatibility	Durability & Resistance Profile	Recommended Printer Models
Standard Wax	Chromo Paper, Uncoated Tags	Rich black barcodes, low printhead heat required	Zebra, TSC, Honeywell, Citizen, Godex
Resin-Enhanced Wax	Chromo Paper, Coated Art Paper	Enhanced scratch resistance at high printing speeds	TSC, Zebra, Argox, TVS-E, Datamax
Wax-Resin Hybrid	Semi-Gloss, BOPP Film, PE	High scratch, moisture, and mild solvent resistance	Industrial 203 DPI and 300 DPI Barcode Printers
Full Industrial Resin	Polyester (PET), Polyimide, Vinyl	Chemical proof (alcohol, IPA, acetone), heat-proof up to 200C	Zebra ZT411, Honeywell PM43, Citizen CL-S700
Wash Care Textile	Satin, Taffeta Garment Care Tags	Withstands 90C industrial washing, dry cleaning, and steam	Textile & Apparel Care Label Printers
TTO Near-Edge	Flexible Packaging Pouches, BOPP	High-speed real-time coding up to 600 mm/second	Videojet, Markem-Imaje, Domino, Linx

Standard Slitting Dimensions & Configurations

- Standard Slit Widths: 35mm, 50mm, 55mm, 60mm, 65mm, 80mm, 85mm, 90mm, 100mm, 105mm, 110mm, 150mm, 165mm, 220mm (Custom widths slit on demand).
- Standard Lengths: 74 meters (desktop), 100 meters, 300 meters (industrial standard), 360 meters, 450 meters, and 600 meters.
- Core Configurations: 0.5 inch (12.7 mm) plastic notched cores for desktop printers; 1 inch (25.4 mm) heavy fiber cores with single or double notches for industrial printers.
- Ink Winding Options: Ink-Side Out (CSO) for Zebra, TSC, Godex; Ink-Side In (CSI) for Datamax, Sato, and Citizen printers.

PRINTHEAD PROTECTION GUARANTEE:
Every ribbon batch is coated with an advanced anti-static silicone backcoat that reduces mechanical friction, dissipates electrostatic buildup, and extends thermal printhead life by up to 30 percent.

6. Ordering Guidelines, Logistics & Factory Contact

Advantech Solutions provides flexible wholesale procurement terms for industrial converters, 3PL logistics networks, commercial printers, and export consignments:

Operational Parameter	Factory Policy & Commitment
Standard Size Dispatch	Ready-stock sizes dispatched within 24 to 48 hours from Mayapuri central plant
Custom Die-Cutting Orders	Tooling fabrication and production turnaround within 3 to 5 working days
Packaging Standards	Rolls individually shrink-wrapped with moisture-barrier liners and heavy corrugated master cartons
Domestic Transport Network	Daily pan-India express cargo coverage via dedicated logistics corridors and commercial air freight
Export Consignments	Palletized container dispatch from ICD Delhi / Nhava Sheva to 17+ international export markets
Technical Material Advisory	Free technical evaluation of sample labels, container surface energy, and barcode ribbon matching

ADVANTECH SOLUTIONS - MANUFACTURING PLANT & SALES HEADQUARTERS

Manufacturing Plant:
C-170, 2nd Floor, Mayapuri Industrial Area
Phase II, Mayapuri, New Delhi 110064, Delhi, India
GSTIN: 07ACRPC1280B1Z0
Legal Ownership: Sole Proprietorship (Estd. 2007)
Industry Reputation: 4.8 / 5 Rating on Justdial

Sales Hotline & WhatsApp:
+91-9667727123 (Calling & WhatsApp)
Official Emails:
saurabh@barcodelabelsworld.com
saurabh.choudhri@gmail.com
Official Web Portal: www.barcodelabelsworld.com

Plant visits and tooling inspections welcome by prior appointment. Contact sales desk for free material sample kit.