SHARP®
Packaging Systems

Poly Bags • Bagging Equipment

MAX 12™ & MAX 20™

Continuous Roll Bagging System

Standard for all of Sharp's Machines

Total Systems Care

Maintenance Program for Sharp Machines
- Installation and training
- Free replacement parts for one year
- Two preventive maintenance visits
- Free telephone technical support
- Discounted labor rates
- Preferred service scheduling
- Trade-in incentives for machinery

Engineering Expertise to Customize your Systems

Sharp Packaging System's Engineering Group provides the most cost effective, productive and reliable integration available. We have a team of software and mechanical engineers to develop the best possible packaging system, customized for your needs.

Hands-on assistance
We offer complete integration and automation, and will assist at each step of the process, from research to design, installation and training. Once your system is installed, Sharp engineers are available for support and help with troubleshooting.

Maximize speed and uptime
With cutting edge engineering tools, such as three dimensional parametric modeling software, our mechanical engineers match Sharp's equipment with your operational requirements to maximize packaging speed and uptime. Our CAM (Computer Aided Manufacturing) operations assure an optimal packaging solution for your business.

Streamline communications
Our software engineers have over 30 years of experience developing custom machine software for many types of applications in a wide variety of industries. Packaging operations are completely integrated through our software systems, which streamline PLC, PC and printer communication. As a result, you have maximum flexibility to revise operations and review real-time results.

Financing and Leasing

Sharp Packaging Systems provides financing and lease options for new and used equipment. These packages are designed to help generate a positive cash flow immediately after equipment installation.

Thermal Transfer Ribbon

Sharp thermal transfer ribbons offer consistent high grade resolution and clear printing for creating superior images at high speeds.

SHARP®
Packaging Systems

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www.SharpPackaging.com

Markets

Aerospace	Candy	Fasteners	Hardware	Jewelry	Novelty
Automotive	Electronics	Food	Hobby	Medical	Parts
Beauty	Eyewear	Fulfillment	Injection Molding	Military	Retail

Machine Specifications

Dimensions—Height x Depth	Weight	Air	Rate
Base MAX 12" Machine 45.3" wide x 39.7" long *With (I) Imprinter* 40.1" to 46.3" high	293 lb / 133 kg	80 psi 5 scfm 5.5 bar	50 bags/min[1]
Base MAX 20" Machine 52.6" wide x 49.8" long *With (I) Imprinter* 39.8" to 45.9" high	348 lb / 158 kg		

Packaging Specifications

Bag Width Range	2" – 20" / 5 cm – 50.8 cm
Bag Length Range	3.5" – 32" / 6.5 cm – 81 cm
Film Gauge Range	1 mil – 4 mil / 25 microns – 100 microns
Roll Diameter	10", 14", or fan folded in box[2]
Printing Cycle Rates	*(I) Imprinter end of cycle:* 50 bags/min

Bag Styles

E-Z Bags®
- General Purpose
- Xtreme Poly
- Ultra
- HD Mailer
- Sharp Packaging High Density (SPHD)
- Polypropylene
- Sharp's Military Specification Film
- Gamma Patient
- Sharp's Metalized Barrier Film
- Electric Static Discharge (ESD)
- Modified Atmospheric Packaging (MAP)
- Sharp's Non-Scratch Film
- E-Z Stat™ (Anti-Static)
- Vapor Corrosive Inhibitor (VCI)

Printer Module Specifications

Printing Capabilities
Full downloadable font support to Windows® TrueType® (including multiple languages and Unicode support); Fixed, variable and merged text fields; Flexible date/time formats; Flexible shift code formats; Auto best before date calculations and concession management; Auto incrementing/decrementing text, counters and bar codes; Multiple graphic formats supported (up to maximum print area); Link fields to databases; Scalable text and text blocks

Print Method	Thermal Transfer, directly onto surface of bag
Print Speeds	20"/second
Print Resolution	300dpi (12 dot/mm)
Print Area (max.)	4.2" (107mm) wide x 7.9" (200mm) long
Bar codes	EAN 8, EAN 13, UPC-A, UPC-E, Code 39, EAN 128, Code 128, ITF, RSS (including 2D composite codes); others available upon request
Operator Interface	Built into bagger HMI, WYSIWYG print preview, Full on-board diagnostics
Nominal Ribbon Waste Between Successive Prints	0.002" (0.5 mm)
Ribbon Saving Features	Radial ribbon save, interleaved ribbon save, intermittent ribbon save
Power Supply	90 – 264V
Air Supply	6 Bar. 90 psi, 1.0ml/cycle (max), supplied by bagger

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[1] *Material, gauge and size of package, along with weight and size of product will cause rate to vary.*
[2] *Fan folded bags in a box require the use of the Box Unwind Module.*

MAX 12™ & MAX 20™
Continuous Roll Bagging System

New machines add Videojet® printer, onboard 12.1" PCs, Rockwell Automation PLC

MAX 12™
Bags up to 12" wide

MAX 20™
Bags up to 20" wide

Sharp's E-Z Bags® feed through the machine, are opened, filled with product, then sealed

- **Technology advancements** include HMI, a networkable touchscreen PC running Windows® 7 embedded plus an Allen-Bradley Micrologix 1400 PLC

- **Faster, with huge gains in throughput**
  - Printing is 50% faster than other printers
  - Reduced cycle times with the lighter weight aluminum jaw
  - Quick realignment with heavy duty drive fingers

- **Cost savings**
  - No queuing reduces scrap and material cost with moveable printing head
  - Thermal ribbon usage reduced as much as 90% with simple adjustments
  - Longer lasting constantly heated sealing mechanism
  - Off-the-shelf parts

- **Troubleshoot quickly** on the PC based system with manuals and video clips on the HMI

"The power and flexibility of our new packaging systems are at a level that has never been seen before in the pre-opened industry. Our focus throughout the design process was to exceed industry demands regarding overall equipment effectiveness (OEE) and integrated data sharing. The bottom line is that Sharp's customers will have quicker installations, higher throughput and know more about their packaging process in real time."

- **Jeramy Williams**, Director of Engineering

Faster Printing

- Optional Videojet DataFlex® Plus thermal transfer printer for bar codes, graphics and alphanumeric fonts directly onto the package

- At least 50% faster than printers used by other manufacturers, increasing throughput dramatically

- Set moveable printing head to precise positions, based on package size, to print bags in order, eliminating queuing and reducing scrap and material cost

- Reduce thermal ribbon usage as much as 90% with reduced spacing between impressions, printing with alternative registrations, and adjusting impression placements to increase ribbon usage

Cutting Edge Technology

- Include HMI, a networkable touchscreen PC running Windows 7 embedded plus an Allen-Bradley Micrologix 1400 PLC from Rockwell Automation

- Touchscreen is a 12.1" TFT (thin film transistor) technology, including a PC with Windows 7

- Run Windows labeling software, create labels on the PC, save, then add it to a particular job, so the label format is saved as part of the job

- Includes a high speed counter, pulse train output and network capabilities

More Efficient Operation

- Jaw is aluminum, so less mass, lower inertia, faster movement, and cycle times decrease

- Heavy duty drive fingers don't bend even with tugging at bags, so no need to realign

- Proximity sensor is inside the jaw, protecting the magnet field, improving operation in dirty environments

- Constantly heated sealing mechanism offers a longer life than impulse mechanisms

- Controls for the printer are viewed directly on the bagger HMI, so it's not necessary to manage multiple monitors or displays for the bagger and printing system

- Control, recall stored labels or even create labels directly on the single HMI

- Includes detailed ribbon consumption tools with a gauge that displays how much ribbon remains

Versatility in Loading

- Entire machine moves up or down, adjusting to a wide range of heights

- 90˚ rotation capabilities for horizontal loading for heavy or stuffable products

Access Data Anywhere

- HMI, printer and PLC can be networked, so they can be accessed at any time from almost anywhere

- Use remote label printing, production reporting and SCADA (supervisory control and data acquisition) control

Easy Maintenance

- Off-the-shelf, nonproprietary parts

- Color touch screen display provides troubleshooting guidance with exploded view drawings, manufacturer and part numbers, html help files with hyperlinks to explain any term

- Service manual is completely integrated into the diagnostics

Made in the USA

Experts in Systems for Flexible Packaging

Excellent quality, delivered on time

Flexible Packaging Equipment

For bags on a roll
- SX™
- MAX 12™
- MAX 20™
- MAX Plus™

For vertical form fill and seal
Hawk Evolution™

For linen services
T7™

Film, Bags, and Ribbon

E-Z Bags®
- General Purpose
- Xtreme Poly
- Ultra
- HD Mailer
- Sharp Packaging High Density (SPHD)
- Polypropylene
- Sharp's Military Specification Film
- Gamma Patient
- Sharp's Metalized Barrier Film
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- Sharp's Non-Scratch Film
- E-Z Stat™ (Anti-Static)
- Vapor Corrosive Inhibitor (VCI)

Stretch Sleeves

Sharp's EVO 12 Custom Film

Sharp's Bio Film

Thermal Imprint Ribbon

Services

- On-site consultations to identify the best system for specific flexible packaging needs
- Installation and training
- Custom bags
- Inventory stocking programs
- Artwork
- Off the shelf parts, available from most maintenance supplies companies
- Technical support hotline available 7 a.m. – 7 p.m. Central
- Video consultations to resolve maintenance issues
- On-site service for equipment
- Total Systems Care maintenance agreements

Markets

Aerospace	Hardware
Automotive	Hobby
Beauty	Injection Molding
Candy	Jewelry
Cleaning Products	Linen Services
Electronics	Medical
Eyewear	Military
Fasteners	Novelty
Food	Parts
Fulfillment	Retail

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