POLYCHEM SYSTEMS LLC

STRAPPING • THERMO • STRETCH HOOD • WRAPPING

PACKAGING SYSTEM SOLUTIONS
INCLUDING INTEGRATED SYSTEMS AND CUSTOM DESIGN
Polychem/OMS Systems is based in Northeastern Ohio and is a member of:

Your first choice for experience, competency and results.

Polychem/OMS Systems is the world’s second largest manufacturer of plastic strapping. In 2002, they teamed up with OMS Officina Meccanica Sestese S.p.A. of Italy, the world’s second largest manufacturer of strapping heads to form a powerful partnership to exclusively serve the North American market place for large packaging securement systems. With this merger, Polychem/OMS System has become a vital part of a worldwide packaging presence that spans over the past 65 years.

Polychem/OMS Systems WorldWide Presence

- Over 15,000 Strapping Heads Currently in Service
- 1000 New Strapping Heads are Sold Every Year
- Strapping Heads are Manufactured in Italy
- The Balance of the System is Manufactured in the U.S.A.
- Comprehensive Regional Service Programs are available for our equipment and select competitors.

We are a Total Solutions Provider

From design, equipment, integration, strapping, all the way down to service and parts; Polychem/OMS Systems is the ideal partner to work with on your packaging systems project. The following pages illustrate our lineup of packaging system solutions.

Polychem/OMS Systems is based in Northeastern Ohio

Your first choice for experience, competency
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Ohio and is a member of: and results.
Advantages of Plastic Strapping

Plastic strapping is the least expensive option that utilizes the least amount of packaging material. A Plastic Strapping system can significantly reduce your packaging costs.

- Plastic Strapping is lighter, cleaner and safer to handle.
- Environmentally friendly Plastic strapping is made from 100% recycled resin (RPET) and can be recycled again and again.
- Plastic Strapping is easier on your loads/products as it will not stain or mar surfaces as with steel strapping.
- Plastic Strapping can be used for a multitude of applications; unitizing, palletizing, bundling, reinforcing, securing, closure and pilferage protection.

Strap Patterns

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OMS TR STRAPPING HEADS

The Very Best Equipment for the Lowest Cost of Ownership.

Equipment + Strap + Parts + Service = Total Cost

Polychem provides the Lowest Cost of Ownership

Non-Lubricated Strap
- Less expensive strapping

Superior Seals
- Digital Thermo couple
- Stronger than friction weld seals

Reduced Maintenance
- Rapid disconnect
- Long lasting strap cutting blades
- New welding blade design

Hardened Steel Parts
- Lasts up to 3x Longer

Five Models
- For all applications

OMS World Wide Presence
- 2nd largest manufacturer of large strapping systems

SPECIFICATIONS | TRCB | TR14 | TR14HD | TR18 | TR19HT
STRAP TYPE | PET | PP-PET | PP-PET | PET | PET
STRAP WIDTH | .37 from .37" to .62" | from .50" to .75" | from .50" to .75" |
STRAP THICKNESS | from .015 | from .019" to .030" | from .030" to .050" |
MAXIMUM PACK TENSIONING | 400 lbs. | 900 lbs. | 1500 lbs. |
CONTINUOUS USE TENSIONING | 200 lbs. | 400 lbs. | 600 lbs. | 1500 lbs. |
UTILIZATION TEMPERATURE | 32 - 120 F |
NOISE LEVEL | 70 Db |

Polychem has chosen OMS’s internationally patented TR Model strapping head based on their exceptional durability. The TR strapping head has evolved and has been proven in the most demanding environments. Five versions of the TR Model strapping head are available to meet your strapping needs.
The SX600 model strapping head, with an innovative Ultrasonic weld system is the newest, state of the art design in the field of strapping. With a compact size the new SX600 is lighter weight (less than 50 lbs) and easily movable, greatly simplifying head replacement. The SX600 features simple strap feeding and Ultrasonic Sealing Technology for reliable seals on polypropylene or polyester strapping. If you are looking for a strapping head that was built for safe and maintenance friendly operation the new Ultrasonic SX600 is the strapping head for you!

**Benefits**

**Fast Cycle**
- Variable Speed
- Ultrasonic

**Reliable**
- Fewer Parts
- Linear Cam
- Downtime is virtually eliminated

**Economical**
- Operates with cost efficient strap
- No Lubrication Required

**Specifications**

- **Dimensions:** 15.75” x 9.5” x 6.3”
- **Weight:** 44 lbs.
- **Strap Type:** PET and PP
- **Strap Width:** 3/8” up to 1/2”
- **Feeding and Recovery Speed:** 18 ft/sec
- **Strap Tensioning:** Up to 340 lbs
- **Tensioning Regulation:** Manual Adjustment
- **Utilization Temperature:** 50 ° - 122 ° F
- **Optional:** Automatic strap feeding device
**PBCU** SIDE SEAL FOR CAN AND BOTTLE WITH NEW SX600 ULTRASONIC HEAD

**PCBU** SIDE SEAL FOR GLASS BOTTLES - WITH 4000 LB PRESS
PTTS TRAVERSING TOP SEAL - WITH ROTATING TURNTABLE
Top Seal is also available for product stability and higher throughput.

**CB4000SQ** IN-LINE CORRUGATED BUNDLER WITH 3 SIDED SQUARING CAPABILITY

**CB4000** IN-LINE CORRUGATED BUNDLER AUTOMATIC STRAPPING MACHINE
PCU CORRUGATED PRESS MACHINE WITH 4 SX600 ULTRASONIC HEADS

TOP OF PLATEN VIEW SHOWING 4 SX600 ULTRASONIC HEADS
PBTS BRICK MACHINES

PBTS PAVER MACHINES
PLTS LUMBER STRAPPING MACHINE

PGU GRAPHIC ARTS PALLET STRAPPER
**PSIU/PSBU** SIDE SEAL MACHINES INDEXING HEAD WITH OR WITHOUT RETRACTABLE BAYONET

**PTSU** TOP SEAL MACHINES
**PSSU**  SIDE SEAL MACHINES FIXED HEAD

**PHZU**  HORIZONTAL UNITIZER

**PBSU**  BOTTOM SEAL AUTOMATIC STRAPPING MACHINE
Advantages of Thermo Hooding
Thermo (Heat shrink-hooding) equipment uses tubing that is cut and sealed to form a bag. The oversized bag is applied over the pallet load and is then shrunk using heat. The most common heat sources for shrink-hooding are natural or liquid propane gas. The heat shrink-hooding method provides very good pallet load stability and protection. Similar to stretch hooding Thermo offers complete product protection and added security.

**MODEL AT530**
Hooder with Thermoshrink Capabilities

Hooder with Hot Air Thermoshrinking Device

Thermoshrinking Cycle

Thermoshrinking Cycle
MODEL FT55
Hot Air Thermoshrinking Oven

MODEL AT04
Vertical Winder-Welding Machine

MODEL AT05
Upper Automatic Top Sheet Dispenser

MODEL FT13
Alternating or Continuous Thermoshrinking Oven

MODEL FT20
Hot Air Thermoshrinker with Rotary Table

MODEL AT53
Combined Hooding Machine

PALLET LESS
Advantages of Stretch Hooding

If production line efficiency, protection against the elements, superior stability, and product recognition at point-of-sale are important criteria, then stretch-hooding is a preferred solution as it offers one of the best combinations of packaging performance and total value.

For products sold at retail outlets, such as home centers, the clear optical properties of one-layer, stretch-hood film provides much better product recognition at point-of-sale than multi-layer spiral stretch-wrap film does. It is also possible to print advertising or handling instructions on the stretch-hood film. And stretch-hood film allows for easy bar-code scanning, virtually eliminating misreads and associated remedial costs.

Consistently maintaining its tension, stretch-hood film is particularly well-suited to products that, due to their physical properties, tend to settle after being bagged and palletized. Pallets packed with stretch hoods are waterproof when using a plastic sheet on the pallet before stacking the products. Finally, stretch hood packaging is very fast, with one single high quality line you can pack more than 150 pallets an hour.

**MODEL STRETCH IS43**

Automatic Stretch Hooding Machine
STRETCH HOODING APPLICATIONS

- Brick/Block/Pavers
- Concrete/Cement
- Ice Melt/Rock Salt/Salt Pellets/Charcoal
- Bagged Aggregates/Sand/Soil/etc.
- Fertilizer/Mulch/Seed/Grain/etc.
- White Goods
- Pet Food
- Corrugated
- Beverages
- Packaging Film
- Ceramic Tile/Flower Pots
- Sheet Glass
- Chemicals
- Pails/Buckets/Drums
- Fire Starters/Firelogs
Advantages of Stretch Film

Stretch film is one of the most popular methods of pallet wrapping. It is cost effective and offers superior protection, and is adaptable to fit many load applications.

Stretch wrap offers a secure option for wrapping loads. The option of UV stretch films can help protect products from the sun. Stretch films can also help protect products from dust, debris, and moisture. Stretch wrap is less expensive than other types of pallet wrapping. Mechanical stretch wrap equipment typically requires less energy to operate than other alternatives, and is more economical to acquire.

Stretch film is recyclable. There are a wide variety of stretch films available for different applications. Stretch wrap can be applied to flat surfaces as well as pointed surfaces.

MODEL AVR900
Performance and reliability, the innovative OMS pallet ring wrapper

MODEL AV750
Automatic Rotary Arm Wrapping Machine

MODEL AVFP
Automatic Rotary Arm Wrapping Machine
**MODEL AV200-AV300**
Rotary Table Stretch Wrapper
with Motorized Rollers

**MODEL AV500**
Rotary Arm Stretch Wrapper
for Medium Output

**MODEL AV620**
Automatic Rotary Arm Wrapping
Machine for High Output

**MODEL AV630 TOP**
Automatic Wrapping Machine
with Top Sheet Dispenser
Integrated Systems

Polychem/OMS Systems team will work with your team to design and build a superior integrated solution for your application. Our expertise is born out of years of equipment design and manufacturing - meeting the needs of a wide range of customers. We will work with you as a trusted advisor to ensure that your job is completed with the best design, within budget and installed on-time. We will use our industry knowledge to provide a solution that will help you increase efficiency and profitability while taking into consideration environmental and other concerns.

EXAMPLE 1

Full Turnkey, Integrated System 2x2 Strap Pattern.

EXAMPLE 2

Strap & Wrap Full Turnkey, Integrated System 2x2 Strap Pattern with Inline Stretch Wrapper

EXAMPLE 3

Stand Alone Can & Bottle 4x4 Strap Line
**CONVEYOR SYSTEMS**
- Clutch conveyors
- Drag chain conveyors
- Idler roller
- Powered – single speed
- Powered – variable speed
- Chain Conveyors - 2 / 3 / 5 strand chain single / double

**PACKAGING MANIPULATION**
- Turntable
- Integrated lift and turn
- 90 degree transfer
- Transfer car

**PACKAGING INDEX**
- Centering device pusher
- Pusher

**EQUIPMENT INTEGRATION**
- Polychem/OMS equipment
- Dress station
- Transfer car
- Palletizer
- Stretch wrapper(s)
- Conveyors – ALL
- Plant systems - ALL

**SAFETY**
- Fencing
  - Light Barrier

**LINE TRACKING**
- Product tracking
  - Level 1 & 2 system integration
Custom Systems

• Polychem/OMS Systems is the destination for a long list of Fortune 500 Companies for design/build, and installation of fully customized machinery.

• We can work from your highly detailed plans or co-develop a custom system to specifically fit your needs.

• Polychem/OMS Systems, upon request can provide a list of recent installs.
REGIONAL PARTS & SERVICE FOR POLYCHEM/OMS SYSTEMS & SELECT COMPETITORS

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