



STRAPPING • THERMO • STRETCH HOOD • WRAPPING

PACKAGING SYSTEM SOLUTIONS

INCLUDING INTEGRATED SYSTEMS AND CUSTOM DESIGN

POLYCHEM/OMS SYSTEMS WHERE STRENGTH MEETS STRENGTH

In 2002 Polychem, the worlds' second largest manufacturer of plastic strapping teamed up with OMS Officina Meccanica Sestese S.p.A. of Italy, the worlds' 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 illustrates our lineup of packaging system solutions.

Polychem/OMS Systems is based in Northeastern
Your first choice for experience, competency

TABLE OF CONTENTS

STRAPPING HEADS

PAGES 4-5

INDUSTRY SPECIFIC STRAPPING

PAGES 6-11

GENERAL PURPOSE STRAPPING

PAGES 12-13

THERMO HOODING MACHINES

PAGES 14-15

STRETCH HOODING MACHINES

PAGES 16-17

STRETCH FILM MACHINES

PAGES 18-19

INTEGRATED SYSTEMS

PAGES 20-21

CUSTOM SYSTEMS

PAGES 22-23

**Ohio and is a member of:
and results.**

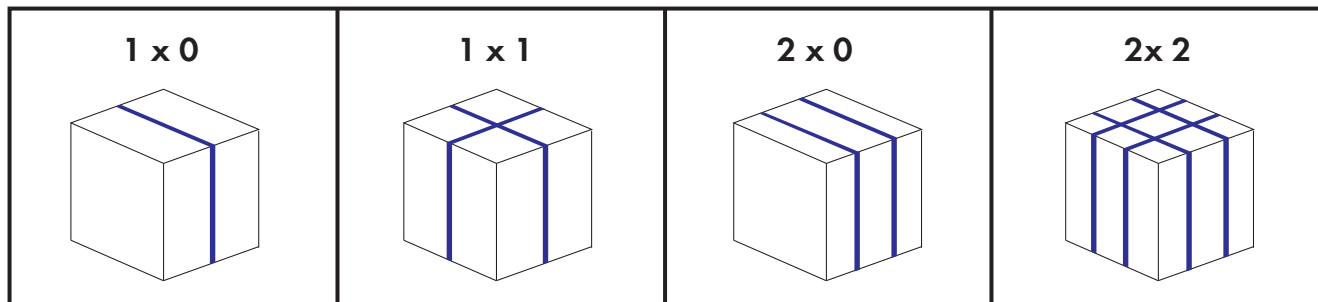


Advantages of Plastic Strapping

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.

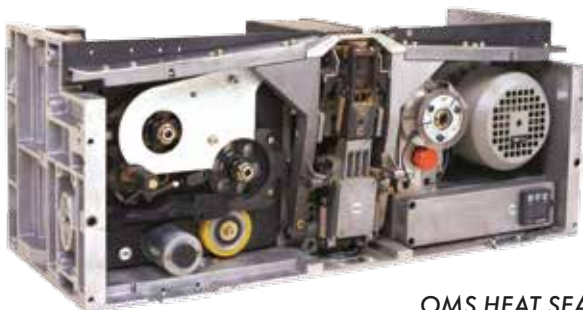
- Plastic Strapping is lighter, cleaner and safer to handle.
- Environmentally friendly Plastic strapping is made from 100% recycled resin (RPET) and can be recycled again and again.
- Plastic Strapping is easier on your loads/products as it will not stain or mar surfaces as with steel strapping.
- Plastic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

Strap Patterns



OMS TR STRAPPING HEADS

The Very Best Equipment for the **Lowest Cost of Ownership.**



OMS HEAT SEAL
STRAPPING HEAD

Equipment + Strap + Parts + Service = Total Cost

Polychem provides the

Lowest Cost of Ownership

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"	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.

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

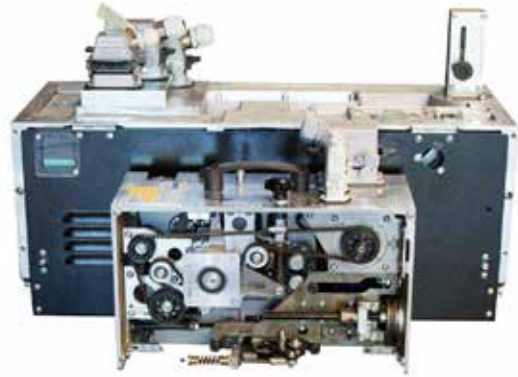
- For all applications

OMS World Wide Presence

- 2nd largest manufacturer of large strapping systems

INTRODUCING **SX600** ULTRASONIC STRAPPING HEAD

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!



- Single Unit Seals, Feeds and Retracts
- Ultrasonic Sealing Technology

- Much smaller (15.75"x9.5"x6.3") and lighter (44lbs.) than TR Head
- For both Polyester (PET) and Polypropylene (PP) Strapping



Easy to Move



Quick Detachable Connections

Benefits

Fast Cycle

- Variable Speed
- Ultrasonic

Reliable

- Fewer Parts
- Linear Cam
- Downtime is virtually eliminated

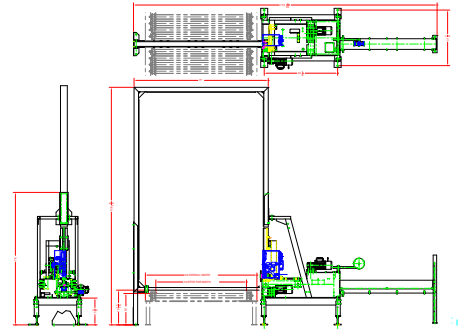
Economical

- Operates with cost efficient strap
- No Lubrication Required

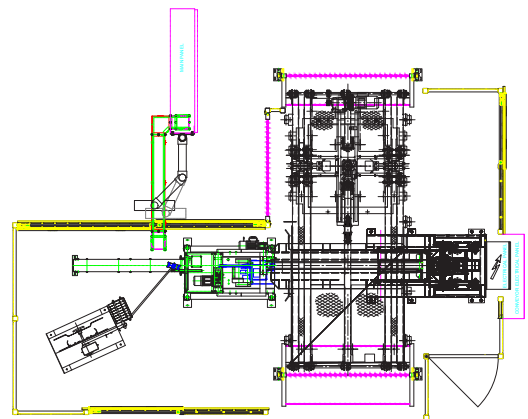
Specifications

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





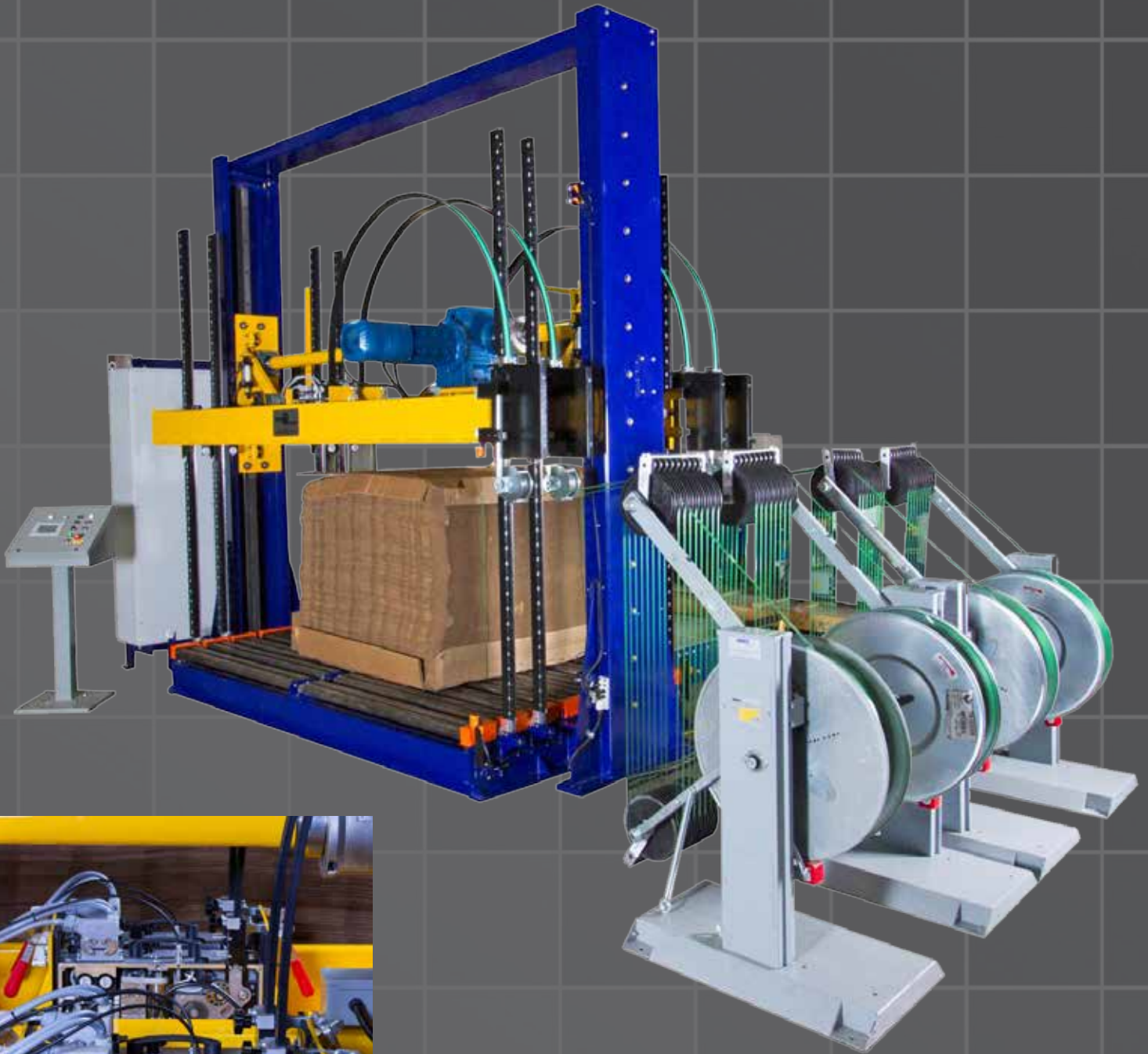
CB4000SQ IN-LINE CORRUGATED BUNDLER WITH 3 SIDED SQUARING CAPABILITY



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



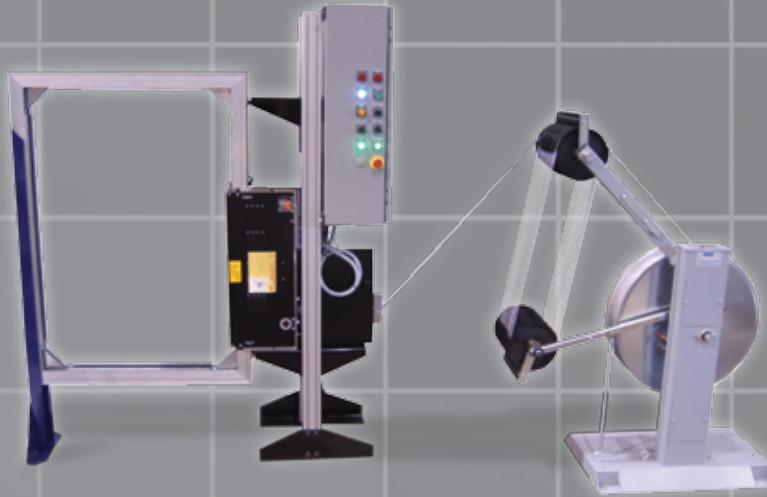
PSIU/PSBU SIDE SEAL MACHINES INDEXING HEAD WITH OR WITHOUT RETRACTABLE BAYONET



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

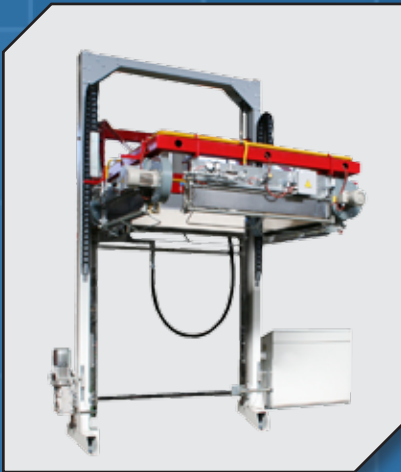




MODEL AT04
Vertical Winder-Welding Machine



MODEL AT05
Upper Automatic
Top Sheet Dispenser



MODEL FT55
Hot Air Thermoshrinking Oven



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



Coil Holder



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



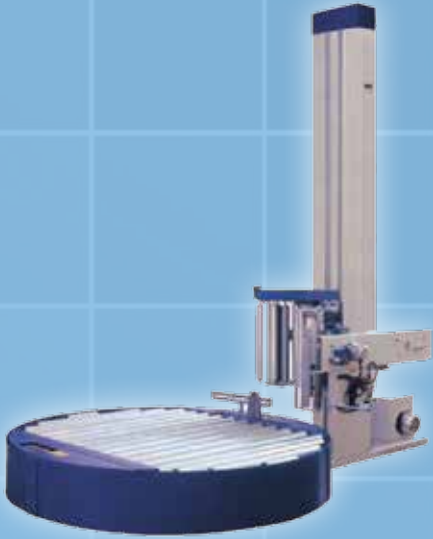
MODEL AV750

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



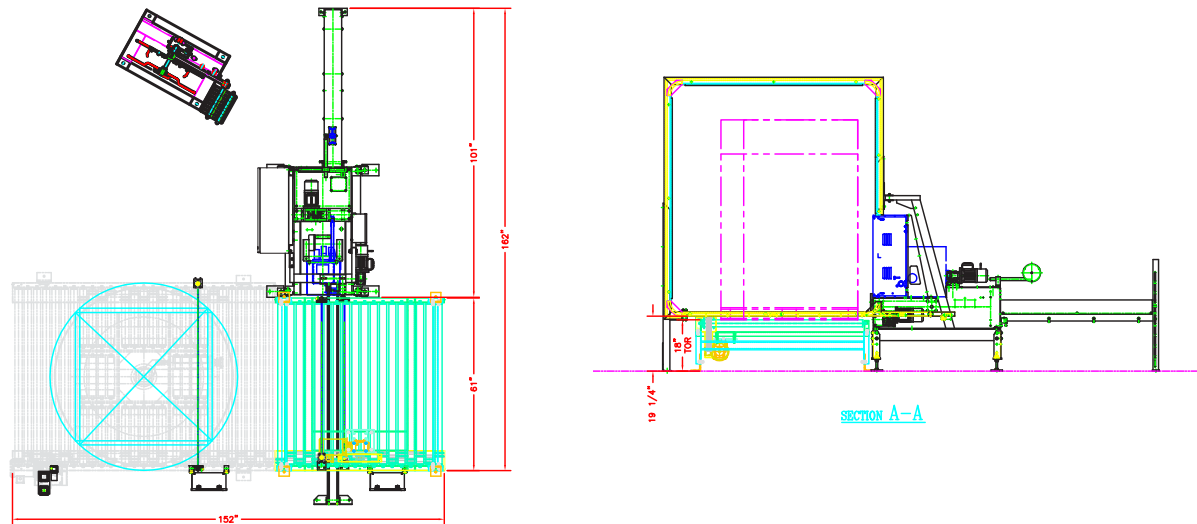
MODEL AV630 TOP

Automatic Wrapping Machine
with Top Sheet Dispenser

Integrated Systems

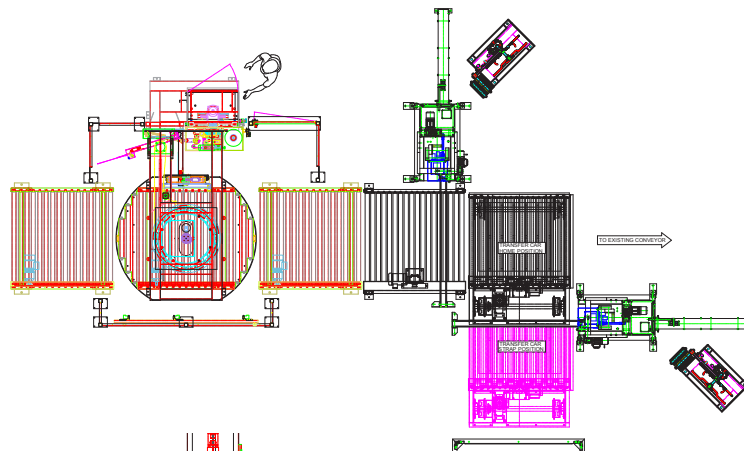
Polychem/OMS Systems team will work with your team to design and build a superior integrated solution for your application. Our expertise is born out of years of equipment design and manufacturing - meeting the needs of a wide range of customers. We will work with you as a trusted advisor to ensure that 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



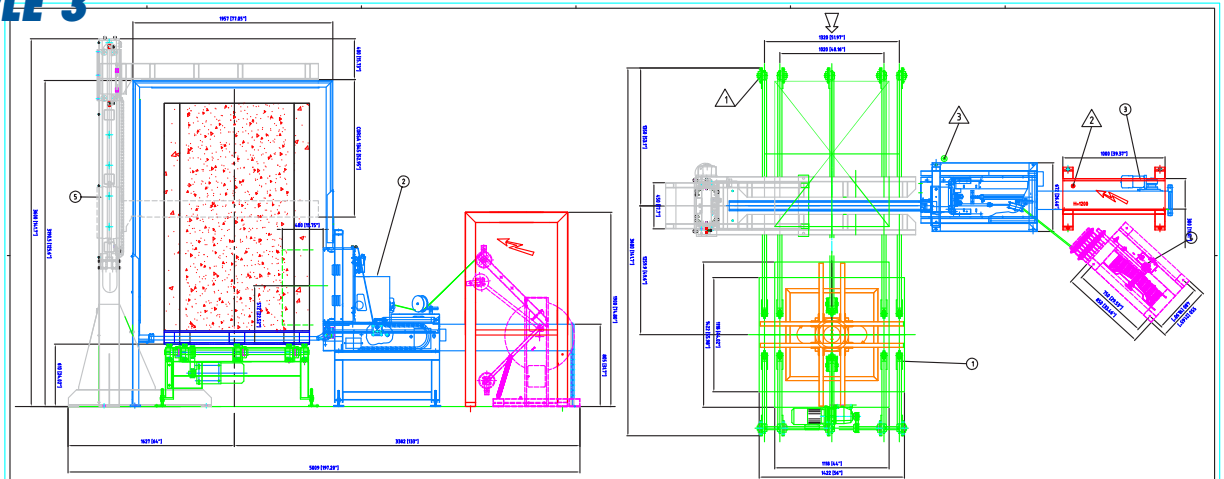
Full Turnkey, Integrated System 2x2 Strap Pattern.

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

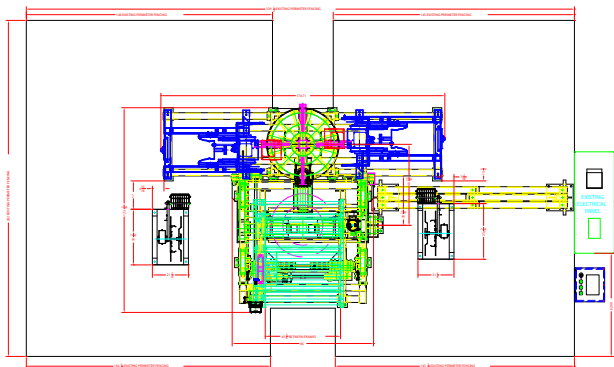
- Fencing
- Light Barrier

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.



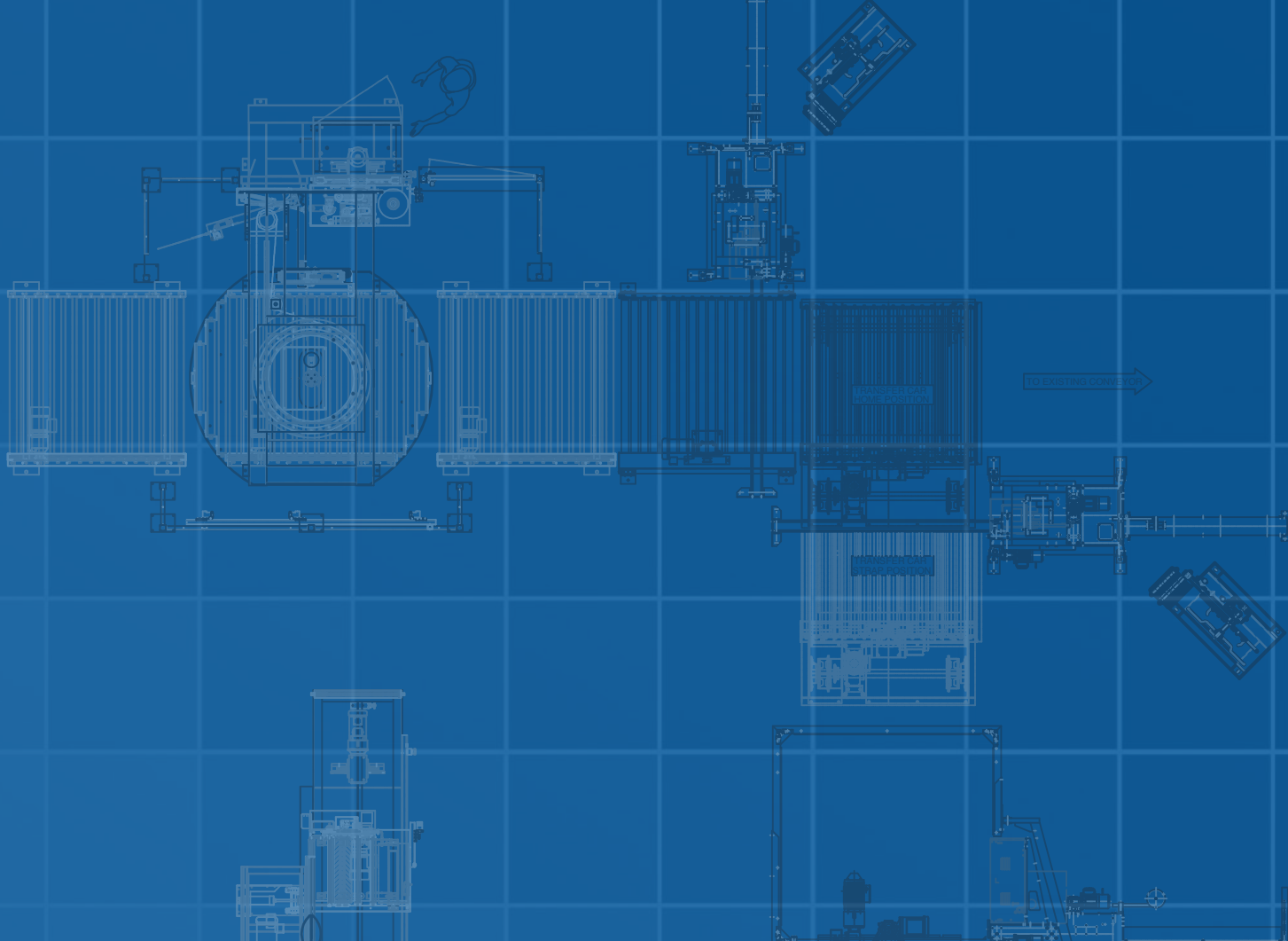
CUSTOM TIRE STRAPPER



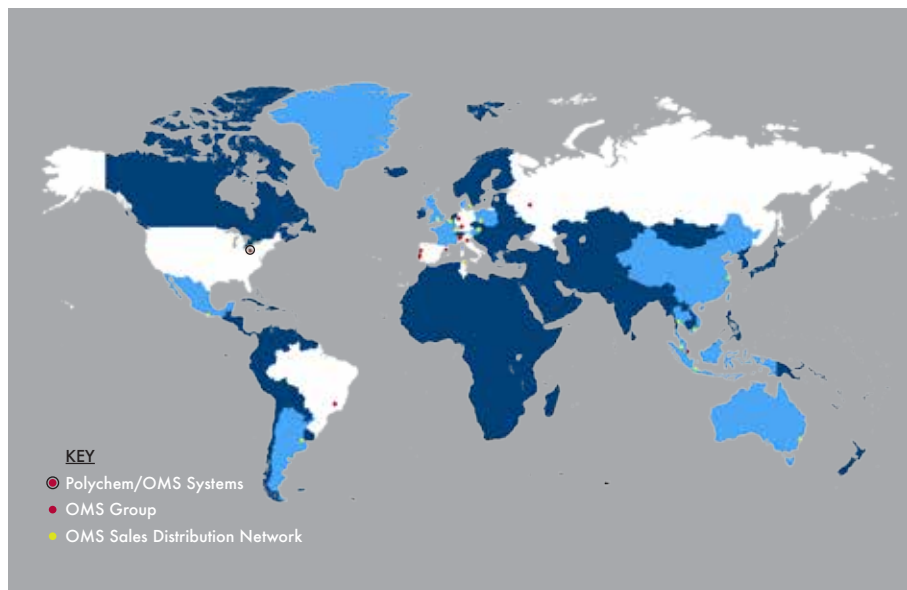
CUSTOM ALUMINUM BILLET STRAPPER







REGIONAL PARTS & SERVICE FOR POLYCHEM/OMS SYSTEMS & SELECT COMPETITORS



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