Retrofit Product Guide

STRETCH WRAP EQUIPMENT UPGRADES “Technology for the 21st Century!”

Retrofitting your stretch wrapper with modern assemblies and upgrades is a cost effective way of improving stretch wrapper efficiency, while reducing stretch film and maintenance costs. In many cases, a simple retrofit can restore an older stretch wrapper into an efficient stretch wrapping system, at a fraction of the cost of a new machine.

Here are just some of the many examples how one would benefit from retrofitting their existing stretch wrapper with a cost saving upgrade:

• Reduce film consumption (improve film pre-stretch).
• Eliminate load retention issues and resulting load damage.
• Adapt to changes in product and/or wrapping requirements.
• Minimize downtime due to maintenance issues with older assemblies.
• Avoid availability issues and higher costs associated with some older assembly spare parts.
• Meet increased speed and throughput requirements for existing production lines.

Muller Load Containment Solutions offers a wide range of custom designed upgrade assemblies that can be easily retrofitted to your existing wrapper. As the ORIGINAL MANUFACTURER of this equipment, our EXPERT STAFF will help you upgrade to the latest technology.

Our professional SERVICE DEPARTMENT is available to perform equipment audits and recommend retrofits that provide the most return on your investment. They can also be called upon to assist with installation to ensure the maximum performance of the retrofit that’s right for you.

1-800-OCTOPUS (800-628-6787)
Service Dept: Prompt #2
service@mullerlcs.com

For further information, please visit our website or contact your local Muller Sales Representative or Muller’s Retrofits Department.
Enhanced wheel and bracket system to improve stability and support for the Octopus 404 ring while reducing wear.

**OCTOPUS 404 Ring Support Kit**

**STRETCH WRAP EQUIPMENT UPGRADES**  “Technology for the 21st Century!”

**FEATURES** | **BENEFITS**
---|---
Full kit including all necessary hardware. | Easy to install in just a few hours.
Larger and more guide wheels. | Better ring stability and support to reduce wear and related maintenance.
 | Opportunity to recapture lost speed and improve performance. (Not designed to increase rotation speed beyond its original specifications.)

**CONSORTS OF**

Larger guide wheels (80 mm), brackets, shafts, clips, and hardware necessary to support your ring.

**IDEAL FOR**

Any Octopus 404 with a composite ring built before 2005.

Both wheel driven and high-speed belt driven systems.

Customers looking to reduce wear, minimize maintenance, and improve performance.

**PART # 00772150**
OCTOPUS 505, 606 & 808 Ring Support Kit

STRETCH WRAP EQUIPMENT UPGRADES

“Technology for the 21st Century!”

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FEATURES

Full kit including all necessary hardware

Larger horizontal guide wheels and, in some cases, additional vertical support wheels.

BENEFITS

Easy to install in just a few hours.

Better ring stability and support to reduce wear and related maintenance.

Opportunity to recapture lost speed and improve performance. (Not designed to increase rotation speed beyond its original specifications.)

CONISTS OF

Larger guide wheels (110 mm), brackets, shafts, clips, and hardware necessary to support your ring.

IDEAL FOR

Any Octopus 505, 606 or 808, typically built prior to 2004, with wheels less than 110 mm.

Both composite and larger steel rings.

Customers looking to reduce wear, minimize maintenance, and improve performance.

PART # D9002090

Enhanced wheel and bracket system to improved stability and support for the Octopus 505, 606, and 808 rings while reducing wear.

Customers looking to reduce wear, minimize maintenance, and improve performance.
Composite Ring Frame Assembly

A complete composite ring frame assembly to dramatically improve cycle times and throughput.

**CONSISTS OF**

- Ring frame assembly
- Allen Bradley PowerFlex Variable Frequency Ring Rotation Drive
- SEW rotation motor
- Lifting chains
- 4 Pole Slip Ring Assembly
- Dual Slip Ring Contact Brushes,
- Complete replacement of all ring frame mounted electrical components (i.e. photo eyes, prox sensors, limit switches, etc.)
- OctoThread Film Carriage Assembly
- Octopus Film Clamp Assembly
- Film Clamp Travel Assembly, and updated assembly drawings with parts lists, schematics, etc.

**IDEAL FOR**

Octopus machines utilizing the older dual steel ring design.

Customer looking to get more speed out of their existing Octopus.

Only customers with a standard size ring (70” load diameters or less).

Customers who need more speed but can’t afford a completely new machine.

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**FEATURES**

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<tr>
<td>High performance SEW Eurodrive Gearmotor.</td>
<td>Improved performance and reliability.</td>
</tr>
<tr>
<td>A single, solid composite ring with a diameter tolerance of just 1/8” in any direction.</td>
<td>Maintains its shape longer to minimize wear, reduce maintenance and improve performance.</td>
</tr>
<tr>
<td>Includes full breadth of the latest technology components to provide nearly a new machine at a minimal expense.</td>
<td>Increased ring rotation speed to as high as 50 RPM depending on the model and application. This can significantly increase production speeds without having to purchase a new machine.</td>
</tr>
</tbody>
</table>
AB5 Film Feed Drive Kit

STRETCH WRAP EQUIPMENT UPGRADES

The latest in film feed technology that provides superior responsiveness in order to minimize film breaks, reduce film usage, and simplify maintenance.

**Basic**

- **PART # E8683901**

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<tr>
<td>Faster response time and greater range of adjustability. Allows you to pre-adjust the film force to ramp up at the start and/or ramp down at the end.</td>
<td>Eliminate film breaks. Reduce film usage to lower costs and meet sustainability initiatives. Increase uptime. Improved wrapping of challenging loads (i.e. sharp corners, “C” type, etc.)</td>
</tr>
<tr>
<td>A smaller, single unit that replaces multiple components.</td>
<td>Simplified maintenance. Easy installation.</td>
</tr>
<tr>
<td>Kit includes all necessary components.</td>
<td>Easy to install with less downtime.</td>
</tr>
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**Deluxe**

- **PART # E8683902**

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<th>FEATURES</th>
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<tr>
<td>Motor brush access port allows replacement of the brushes without having to actually remove the motor.</td>
<td>Easy maintenance &amp; less downtime.</td>
</tr>
</tbody>
</table>

**CONSISTS OF**

- New AB5 Drive Board,
- CMC to AB5 Adaptor Plate,
- Tension Roller assembly with transducers, 15K film force potentiometer, required wiring, hardware, etc., Revised drawings & schematics with calibration instructions.

**DELUXE:** All items included in the basic kit plus a modified Baldor film feed motor, with a Baldor motor brush access port “template”.

**IDEAL FOR**

- All Octopus models with OctoThread carriage where customers are still using the older technology of AB4 boards, as well as older Cleveland Motion Control (CMC) Drive Board, Isolated Tachometers, and strain gauge amplifier.

- A must for customers using Cleveland board components, or older Pacific Scientific Motors.

- Most original carriages built before 2005.

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PowerFlex Variable Frequency Drives (VFD’s)

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The Allen-Bradley PowerFlex control drives offer world-class intelligent motor control solutions primarily for ring lift and ring rotation and occasionally for conveyor control.

IDEAL FOR

CONSISTS OF

A variety of Allen-Bradley PowerFlex VFD options.

IDEAL FOR

Any automatic wrapper (Cobra or Octopus) still utilizing non-PowerFlex drives.

A must have for equipment with original Allen-Bradley 1305, 1333 or 1336 variable frequency drives.

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FEATURES

- Compact, zero stacking design that allows side-by-side mounting.
- Offers a variety of motor control technologies from Volts/Hertz Control for the simplest applications to Vector Control with patented FORCE™ Technology.
- Features an advanced, common operator interface.
- Utilize open network architecture to easily integrate into existing manufacturing operations.
- Provides the latest technology through readily available components.

BENEFITS

- Optimize panel space.
- Provides excellent low speed/zero speed performance for both induction and permanent magnet motors to ensure reliable performance.
- Reduce training, minimize set-up time and simplify operations and inventory.
- Seamless control system integration to maximize uptime.
- Eliminate the risk of having older model drives becoming obsolete and possibly causing extended downtime.

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OctoThread Film Carriage

STRETCH WRAP EQUIPMENT UPGRADES

“Technology for the 21st Century!”

The film carriage is the heart of any stretch wrapper. By upgrading to the latest technology, it will likely pay for itself in film savings in a matter of months.

**FEATURES**

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<tr>
<td>Tilting Film Mandrel.</td>
<td>Allows for fast, easy and safe film roll changes while minimizing the time it takes and the potential to damage the film roll edges.</td>
</tr>
<tr>
<td>Rear access panel to film feed drive board and motor brush access port.</td>
<td>Easy access to key components simplifies maintenance.</td>
</tr>
<tr>
<td>Easy thread OctoThread Door</td>
<td>Save time when loading film by simply opening the door and pulling film across the rollers to the outfeed side while positioned outside the wrap zone.</td>
</tr>
<tr>
<td>Patented film payout system using strain gauge technology that is far superior to old style dancer arms.</td>
<td>Better optimization of film tension and related load containment.</td>
</tr>
<tr>
<td>Includes the latest high perfomance AB5 film feed drive board.</td>
<td>Offers superior responsiveness to minimize film breaks, reduce film usage and improve productivity.</td>
</tr>
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</table>

*Take advantage of the Carriage & Clamp Combo.* Purchase a new OctoThread Film Carriage and receive an Octopus Film Clamp at a significant discount.

**CONSISTS OF**

A completely new film carriage assembly that includes numerous updated features.

**IDEAL FOR**

Any Octopus equipment not utilizing the OctoThread Carriage (i.e. No strain gauge, old orange design).

Most carriages purchased prior to 2009 will benefit from new features.

A must for customers still using analog dancer arm technology.

Customers challenged by frequent film breaks, poor pre-stretch and excessive film usage.
The patented Logo Wrap offers reliable and affordable 4-sided brand identification that incorporates your custom printed film into the normal stretch wrapping cycle.

**FEATURES**

- Automated process for applying brand or product identification.
- Applies 1 wrap of customized, printed film.
- The Logo Wrap is controlled using wireless communication technology.

**BENEFITS**

- Save on labor and material costs compared to manually applying stickers.
- Use valuable pallet space to convey your company’s logo, brand, transportation information and more. Helps you products stand out from the rest.
- Easy to integrate to most Octopus wrappers. Minimizes components and maintenance.

**CONSISTS OF**

A bolt on Logo Wrap carriage that is positioned adjacent to the standard film carriage along with wireless controls and necessary programming.

**IDEAL FOR**

- All Octopus equipment with OctoThread film carriage.
- Customers who are looking to promote their company name or specific brand.
- Customers who are shipping full pallets to the big box stores and want their product to stand out on the racks.
The patented Pak-Air carriage cuts standard machine grade stretch film into bands that provide ventilation to the load while maintaining excellent containment strength.

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<td>Uses standard machine film.</td>
<td>Eliminate the expense and complexity associated with high priced ventilated films or netting.</td>
</tr>
<tr>
<td>Rolls the edges of each band of film to create a strengthening “hem”.</td>
<td>Provides superior strength to minimize film breaks and maximize load containment.</td>
</tr>
<tr>
<td>Utilizes retractable blades to cut bands of film.</td>
<td>Allows the flexibility to easily switch from ventilated banding to standard wrapping.</td>
</tr>
</tbody>
</table>

**CONSISTS OF**

A bolt on Pak-Air carriage that is positioned adjacent to the standard film carriage. Typically purchased with a new film carriage.

**IDEAL FOR**

All Octopus Equipment using OctoThread film carriage or looking to upgrade to an OctoThread carriage.

Customers who are looking to ventilate their wrapped product without losing load containment.

Customers who are wrapping produce, frozen goods and hot fill products.
The OctoMAX system provides simple, useful, actionable information to monitor film usage and equipment performance in order to drive down costs, optimize load containment, increase productivity and reduce unplanned maintenance.

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<tr>
<td>Monitors and records how much film is applied to each load and the related pre-stretch performance.</td>
<td>Lower film costs and eliminate waste related to over usage.</td>
</tr>
<tr>
<td>Monitors and records the amount of film used and the number of film breaks that occur for each roll of film.</td>
<td>Tool for quantifiably comparing different film types to ensure lowest overall cost and minimal disruptions to operations.</td>
</tr>
<tr>
<td>Variable film force control allows for different tension settings at various times during the wrap cycle.</td>
<td>Allows for optimal load containment for all types of loads while minimizing film breaks, film usage, and product damage.</td>
</tr>
<tr>
<td>Ability to track machine settings and performance remotely as well as locally.</td>
<td>Ensures wrapping is being done to specifications to eliminate film waste and load damage.</td>
</tr>
</tbody>
</table>

**CONISTS OF**
A new Smart film carriage, enhanced touch screen display, variable wireless film force control, advanced programming and web based reporting capabilities.

**IDEAL FOR**
Any Octopus model. Requires that existing PLC has an available Ethernet port, otherwise one will need to be added.

Customers looking to make data driven decisions to improve operations.

Customers who value having an insurance policy to prevent film waste and load damage.
Variable Film Force Control

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Allows the user to adjust the tension at various locations throughout the wrap cycle to help eliminate film breaks and optimize load containment.

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<tr>
<td>Variable film force settings.</td>
<td>Eliminate film breaks and reduce film usage by optimizing the settings based on load configuration and containment needs. Eliminate load damage by optimizing film force settings instead of running at lowest operable setting. Improve uptime by reduce film breaks and running at faster speeds.</td>
</tr>
<tr>
<td>Wireless controls.</td>
<td>Easy to integrate to most Octopus wrappers. Minimizes components and maintenance.</td>
</tr>
</tbody>
</table>

**CONISTS OF**

Wireless control system, advanced programming and, if necessary an enhanced HMI screen.

Can be included as part of a complete new carriage or potentially added to an existing carriage in the field or refurbished at Muller's plant.

**IDEAL FOR**

Any Octopus model. Requires that film carriage has an AB-5 board and the existing PLC has an available Ethernet port, otherwise one will need to be added.

Customers who are challenged by frequent film breaks or load damage.

Loads that are difficult to wrap due to reduced materials or demand.

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Load Lifting Pop-Up Conveyor

A wrap zone conveyor section with load lifting device that raises the load above the conveyor and allows product to be wrapped securely to the pallet in order to improve load integrity and reduce product damage.

### CONSERTS OF

- Wrap zone roller conveyor with load lifting pop-up device
- Can be customized to meet the dimension and speed requirements of the customer

### IDEAL FOR

All automatic stretch wrappers

Customers who require additional load stability or need to meet specific retailer wrapping specifications that can only be satisfied by wrapping product down close to the slip sheet or the bottom of the pallet

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<tr>
<td>Heavy duty conveyor construction with pop-up device capable of lifting up to 3,500 lbs.</td>
<td>Durable, long lasting conveyor that requires minimal maintenance and can handle the most demanding applications</td>
</tr>
<tr>
<td>Lifts load up to 4-1/2” above the conveyor</td>
<td>Allows wrapper to secure product to the pallet or allows loads on slip sheets to be completely wrapped for improved load containment</td>
</tr>
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Ring Frame Locking System

An enhanced safety feature that allows the Octopus ring frame to be fully engaged in the locked position during servicing of the machine.

FEATURES

| Locking mechanism can be fully engaged at multiple heights prior to performing maintenance and will automatically engage upon losing power. |

BENEFITS

| Satisfies customer’s more stringent safety requirements to further minimize the risk of falling objects while servicing equipment |

CONSIGTS OF

All hardware, revised drawings, schematics and parts list to install ratchet-type locking system to all four legs of the machine.

IDEAL FOR

Any Octopus 303, 505, 606 or 808

Octopus wrappers equipped with older chain lift or modern belt lift designs.

Customers facing more stringent safety requirements.

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A second independent film carriage that will automatically rotate into primary wrapping position upon the film being depleted or breaking in order to reduce labor and improve productivity.

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<tr>
<td>With SideKick, wrapper can run 2 full rolls of film before requiring attention.</td>
<td>Operator has to attend to the machine half as often, freeing them up to do other tasks.</td>
</tr>
<tr>
<td>Upon depletion of the film or a film break, the SideKick automatically advances to the primary position and resumes wrapping in a matter of seconds.</td>
<td>Significantly increases productivity and eliminates one of the biggest sources of downtime - waiting for the operator to respond</td>
</tr>
<tr>
<td>Provides a redundant system</td>
<td>Offers an insurance policy against one of the film carriages going down or getting damaged and keeps the machine running</td>
</tr>
<tr>
<td>Fits into the existing space of the Octopus and does not increase the footprint of the machine</td>
<td>Benefits achieved without sacrificing valuable floor space</td>
</tr>
<tr>
<td>Completely automatic, simple design with minimal moving parts</td>
<td>Easy to use and operate</td>
</tr>
<tr>
<td></td>
<td>Simple to maintain as it does not require an additional cut, clamp, or heat seal system</td>
</tr>
</tbody>
</table>

A high performance Octo-Thread film carriage with ring positioning and patented auto gripping systems.

IDEAL FOR

All Octopus wrappers, with composite or steel rings, with the exception of the Octopus 202.

Customers with capacity constraints who are looking to improve throughput.

Customer where the operator has additional responsibilities beyond monitoring the stretch wrapper.

Customers who don’t have room for the Auto Roll Changer (ARC)
**NT² No Touch No Tail**

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A superior method of film seaming and cutting suitable for all types of loads. No more heat seal-to-load contact as a counter plate is placed between the sealing element and the load.

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<td>Film is seamed against a counterplate that is positioned between the load and seaming unit.</td>
<td>Eliminates product damage as no heat comes into contact with product. Also allows for a more consistent seal.</td>
</tr>
<tr>
<td>20” vertical seal of film tails.</td>
<td>Vertically seaming the entire film web is more reliable and consistent.</td>
</tr>
<tr>
<td>Durable film cutting element versus hot wire.</td>
<td>Longer element life, reduced maintenance, less downtime, higher production rates</td>
</tr>
<tr>
<td>Standard device used on all new Octopus equipment.</td>
<td>Not a prototype. Proven technology that has been in use in Europe for over 15 years.</td>
</tr>
</tbody>
</table>

**CONSIGTS OF**

- NT² Seamer/Cutter assembly, specially modified Octopus film clamp travel arm assembly, required pneumatics such as valves, cylinders, FRL’s, updated drawings and documentation, preliminary programming

**IDEAL FOR**

- All Octopus wrappers, with composite or steel rings, with the exception of the Octopus 202.
- Customers looking for a more reliable film seaming and cutting device that reduces product damage, increases parts life and reduces maintenance costs.
- All load types, especially B & C type, bags and irregular shaped products.
- Customers using AS/RS storage systems where film tails can be problematic for the automation equipment.

[Image: Standard No Touch - No Tail seaming device (NT²)]

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