

# Industrial Products

ENGLISH



**STRONGER TOGETHER**

**TIPPERTIE™**

# Innovative Solutions for Industrial Applications

## Complete Chub Packaging Systems

TIPPER TIE is the world's leading producer of automated clipped chub packaging systems providing one-stop whole line solutions to industrial markets on five continents. Every day our products are used in packaging a multitude of industrial products like sealants, adhesives, erosion control materials, and commercial explosives. Worldwide, the chub is becoming the package format of choice among end-users, packagers, and manufacturers because of its cost effectiveness, higher production output, and labor savings. Whatever the production output requirements, the wide selection and versatility of TIPPER TIE clipped packaging systems make the chub package not only the popular choice but the cost effective choice, too.

## Industrial Applications

### Adhesives and Sealants

TIPPER TIE's automated clipped packaging systems designs are noted for delivering values like user friendliness, simplified mechanisms and assemblies, and quick-release elements for faster part changes or easy cleaning. Pumpable mastics, epoxies, glue, and caulk can be packaged in a variety of chub sizes for high-use markets like construction, automotive, aerospace, and marine.

### Environmental

Chub products for absorbing, containing and diverting liquids or slurries and for containing hazardous materials can be produced on a variety of TIPPER TIE clipping machines, depending on the package size. Even heavy landscape materials like fertilizer,



Suppliers to industries such as construction and automotive realize tremendous cost savings in storage, production and shipping with the flexible chub package.

ground cover, sand, and gravel can be secured with our high-strength closures.

### Industrial Explosives

Manufacturers of packaged explosives – detonator sensitive and booster sensitive - look to our automatic and semi-automatic systems used to package both UN 1.1D and UN 1.5D water-based emulsion, water-gel, and slurry explosives in cartridge, chub, and shot bag package options. These systems meet global requirements for use within explosives production facilities and have been thoroughly examined by many Hazards Analysis and Operability Studies (HAZOP) during the course of installations around the world.



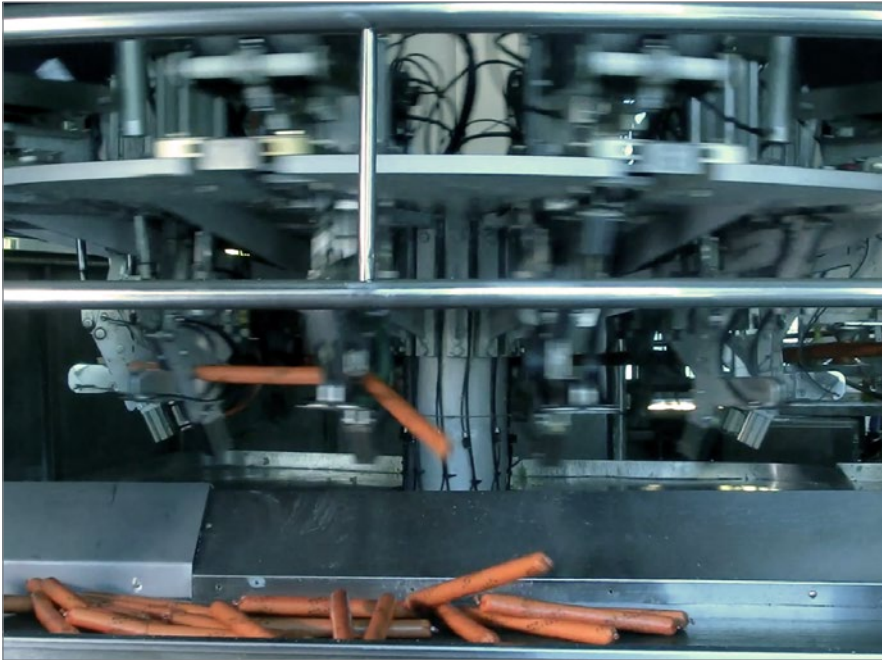
## Integrated Solutions

Manufacturers rely on TIPPER TIE for the latest innovations and technologies in automated clipped packaging systems. These machines are recognized for their proven reliability, high efficiency, and safety-conscious design. Our whole line solutions approach offers the equipment types to address the complete production operation including processing, dosing, clipping, transfer, case packing, and palletizing.

For manufacturers requiring low production rates to those needing throughput of over 400 pieces per minute our complete selection of automatic systems satisfies every need.

### High Speed Production (400+ pieces per minute)

The TIPPER TIE Rota-Clip is the state-of-the-art, high speed, automated production system designed to package most any pumpable emulsion. Central to Rota-Clip's high speed production is its use of



The Rota-Clip in high speed production of commercial explosive cartridges.

economical roll stock plastic film. It forms and seals the film into a tubular casing via a heat or glue seal system. The machine's high speed is generated from a rotating table with 12 clipping stations. They enable the Rota-Clip to reach production speeds over 400 pieces per minute based on product length, emulsion viscosity, film type, and pump capacity. Package diameters range from 25 mm to 130 mm (1" to 5") and lengths from 152 mm to 457 mm (6" to 18").



TTSealH with automated clipper

### Medium Speed Production (25 to 70 pieces per minute)

The TTSealH system is suited for shift-long production runs and produces heat-sealed and clipped chubs from cost-effective flat film.

Package diameters range from 20 mm to 120 mm (.75" to 4.75") and are produced at film speeds up to 30 meters per minute. TIPPER TIE's TT Series of automatic double clippers are true work horse models. These sturdy stainless steel machines can be connected to all conventional filling systems,

### Low Speed Production (5 to 15 pieces per minute)

The KDCMA series are semi-automatic machines and modular in design. The basic and add-on components of these stainless steel clipping machines are exchangeable throughout the entire series, which means that each model can be easily optimized to suit the desired application. With the optional roller frame this high-performance system can be combined with virtually any doser and produce chubs in widths from 25mm to 120mm (.99" to 4.7").

### Consumables

The alloys, profiles and dimensional precision make the TIPPER Clip an absolute top quality product

that ensures high product reliability. All TIPPER TIE clips are available in different sizes and are made of specific aluminum alloys to fit the product and application. The TIPPER Clip is strong, light-weight, non-removable, and recyclable. It is also available in a variety of colors.



## The TIPPER TIE Difference

- Advanced technology servo, controls, machine feedback, and communication tools.
- A total solution resource and partner with film, container/component, and tool suppliers.
- Combined offering of clips, spare parts, and service.
- Minimal wear parts, simplified mechanisms and assemblies.
- Quick release elements to change parts or for cleaning.
- Modern tools including remote machine connectivity and internet resources for support, parts, and upgrades.
- Inclusive start up, training, and annual service programs.

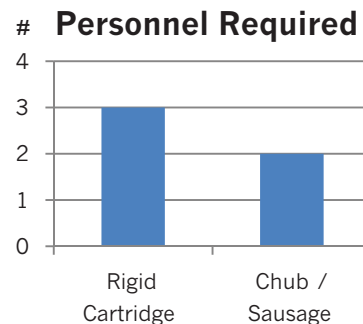
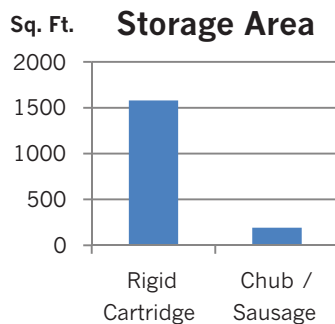
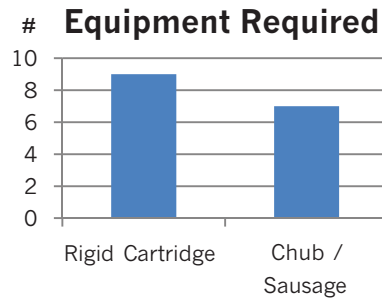
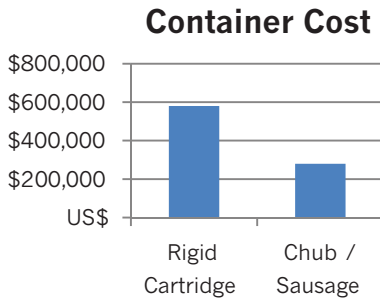
# Payback Profile with Chub Packaging

## Typical Case Study

Converting from rigid cartridges to flexible packaging offers considerable savings in multiple areas:

- Container and closure costs
- Material and storage requirements
- Simplified line configurations
- Reduced labor

The following data represent a medium-speed, single shift production line of 35 pieces/minute.



## Integrated System Support

TIPPER TIE is your single source solutions provider. By listening and applying our industry knowledge and resources, we can supply the appropriate packaging line based upon your unique requirements. As a turn-key solutions provider, we are both a machinery manufacturer, supplier and a partner with you for film, container, component and tool sources. For operations of all sizes, TIPPER TIE offers the following packaging equipment and production lines.

### Low Speed (5-15 cartridges per minute)

Shirred Film > Doser > **KDCMA Clipper\*** > Transfer/Convey

### Medium Speed (25-70 cartridges per minute)

Drum Press > Doser > **TTSealH\*** > **TT Clipper\*** > Transfer/Convey > Case Packer

### High Speed (400+ cartridges per minute)

Product Supply > Metering > **TT Glue Sealer\*** > **Rota-Clip\*** > Transfer > Case Packer

\*Manufactured by TIPPER TIE.

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