

More than just line control:

Developed specifically for cosmetic tube manufacturing the SMART Control System offers much more than just line control. Using a large Colour Touch-Screen the smart system provides the tube manufacturer with more benefits that help to stay ahead of the competition.

- Simple, Fast and Easy Operation
- Auto-Line Speed Up and Setting
- Line Protection and Diagnostics
- Password Protection and Security Settings
- Export Vital Production Data and Traceability
- Multiple Language Setting
- Ethernet Enabled for Connection to your Network
- Integrated Modem for On-Line Support

Cosmetic Tube Extrusion

Typical Polymers	LDPE, LLDPE, MDPE, HDPE, PP
Tube Diameters	Up to 60mm
Tube Wall Thickness	0.3mm - 0.5mm
Line Speeds	Up to 30m/min*
Cutting Capacity	Up to 300 cuts/min*

* Dependent upon diameter, material and other conditions. Our policy of continuing design, materials and manufacturing improvement means that some modifications to this specification may be included.



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Working with You:

From initial technical discussions through to training and installation Boston Matthews will work closely with your team.

- Line Layouts & Services Locations
- Pre-Approval Concept Drawings & Layouts
- Pre-Delivery Testing & Acceptance
- Operator Training
- On-Site Commissioning
- After market - Dedicated Spare Parts Departments, Processing Engineers, Technical Support



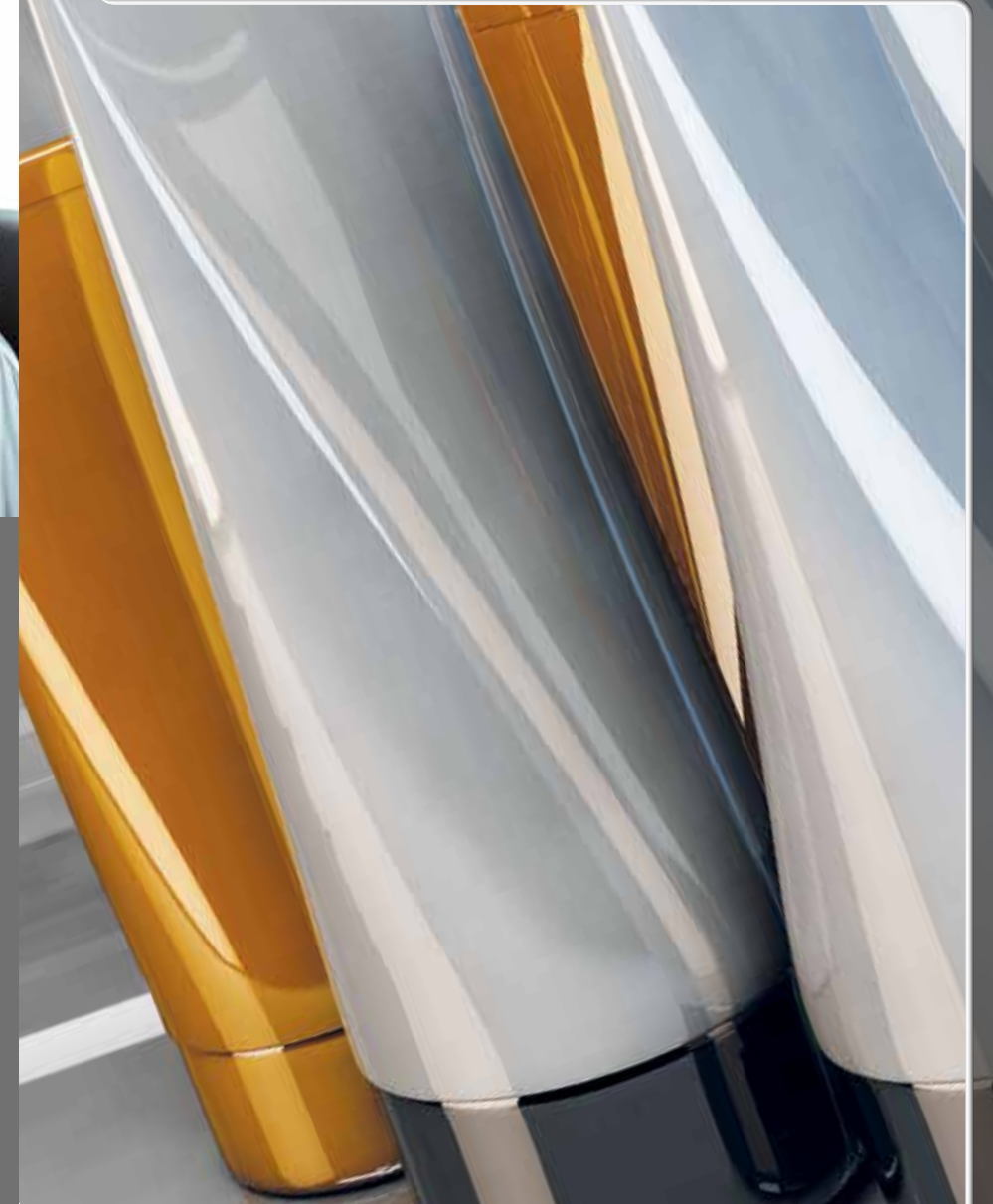
Boston Matthews Turn-Key Extrusion Lines:

- Automotive
- Medical Devices & Life Sciences
- PEX & PB Pipe (HVAC)
- Cosmetic Squeeze Tube
- Rod & Plate
- Zippers
- Aerosol Dip Tube
- Flexible & Rigid Profiles
- Heat Shrink Tube
- I.C. Carriers
- Wire & Cable
- Mircoducting

Boston Matthews Extruders & Downstream Equipment Ranges:

- Single Screw Extruders
- Co-Extruders
- High Temperature & Fluorocarbon Extruders
- Cooling & Sizing Baths
- Caterpillar Haul-Off's
- Cutters
- Saws
- Coilers
- Automatic Winders

Cosmetic Tubing



An industry where perfection is always the demand

Packaging is amongst the most innovative and creative industries in the world.

Today more and more products are being packaged using plastic tubes, and therefore the constant need to 'stand-out' from the crowd places further pressures upon tube manufacturers to develop new and more creative ideas.

In order to meet with the demands of this ever evolving and expanding industry tube manufacturers must have machinery suppliers that are able to provide high quality, high output, economical and reliable equipment.

Changing Times

- Extrusion Lines for today's demands, not yesterday's

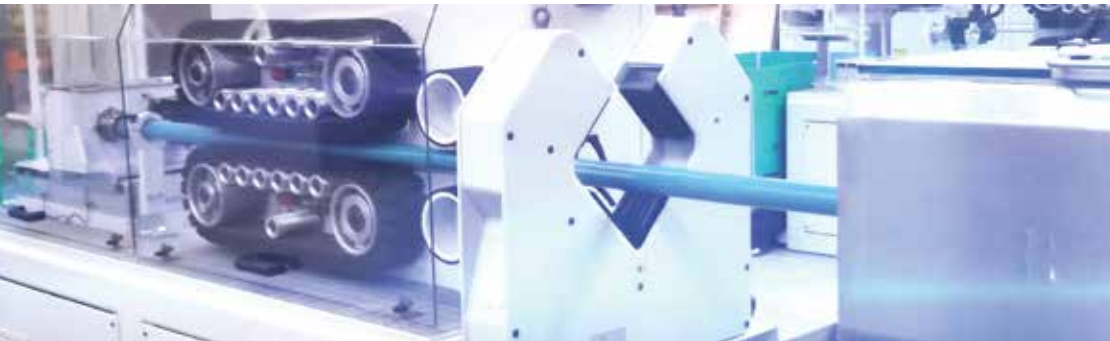
The tube packaging industry today is very different from two decades ago. The days when long runs were the norm are gone with the industry requiring shorter runs and the ability to quickly adapt to changing market conditions.

The extrusion line must reflect this and allow the manufacturer to quickly and easily change polymers, colours or tube configurations without incurring large scale interruption. Boston Matthews listened to tube makers from around the World and truly

understood their requirements. Boston Matthews Cosmetic Tube Extrusion Lines have been designed to provide a level of production flexibility that has previously never been available, truly representing The Next Generation of Cosmetic Tube Extrusion Lines.

Advanced Extrusion Technology:

Boston Matthews has over 50 years extrusion line, screw design and Polymer processing experience. It is this extensive knowledge and experience together with the latest 3D Computer Design and Polymer Flow Simulation Software that has enabled Boston Matthews to develop a complete range of extrusion lines especially for the production of Cosmetic Tubes.



Flexible Production, Quick Change Production = Increased Profitability

Every element of a Boston Matthews Cosmetic Tube Extrusion Line has been specifically designed to deliver maximum performance together with the ability to provide complete flexibility to the tube manufacturer. Extensive Die Head and Screw Design have enabled Boston Matthews to provide greater amounts of production flexibility.

- Fast and Easy Colour/Polymer Change Over
- Flexible Production - Produce 1 2 3 5 Layer Tubes Using the Same Line
- Fast Set-Up and Operation
- In-Built Line Safety
- Vital Production Data at Your Fingertips

Boston Matthews Cosmetic Tube Extrusion Lines are compatible with all makes of Heading Machines for easy integration for a fully automatic tube production operation.



Latest Technology today, ready for tomorrows demands:

The packaging industry moves fast and therefore it's vital that the tube manufacturing machinery is capable of meeting this demand.

Boston Matthews Cosmetic Tubing Extrusion Lines have been designed to incorporate the latest technologies. AC, Servo and PLC technology is found throughout every element of the line for complete control, consistency and accuracy throughout every element of this critical operation.

Tube Quality & Consistency is peace of mind:

In order to ensure that cosmetic tube production remains efficient and to meet with the demands of a fully automated production operation it is imperative that the tubes are mark free and of the highest quality. Boston Matthews Cosmetic Tube Extrusion Lines are designed to produce tubes to meet the tolerance and output demands expected of the industry.

Every operation within the Extrusion Line is undertaken using precision accuracy and control. Tube Quality Management Systems have been incorporated to ensure that tube quality is constantly monitored and maintained providing:

- Closed Loop Laser Diameter Control
- PLC Line Control
- Out of Tolerance Tube Rejection Systems