



FILM T-DIE

T-DIE



Specially Treated Flow
Channel Smoothness

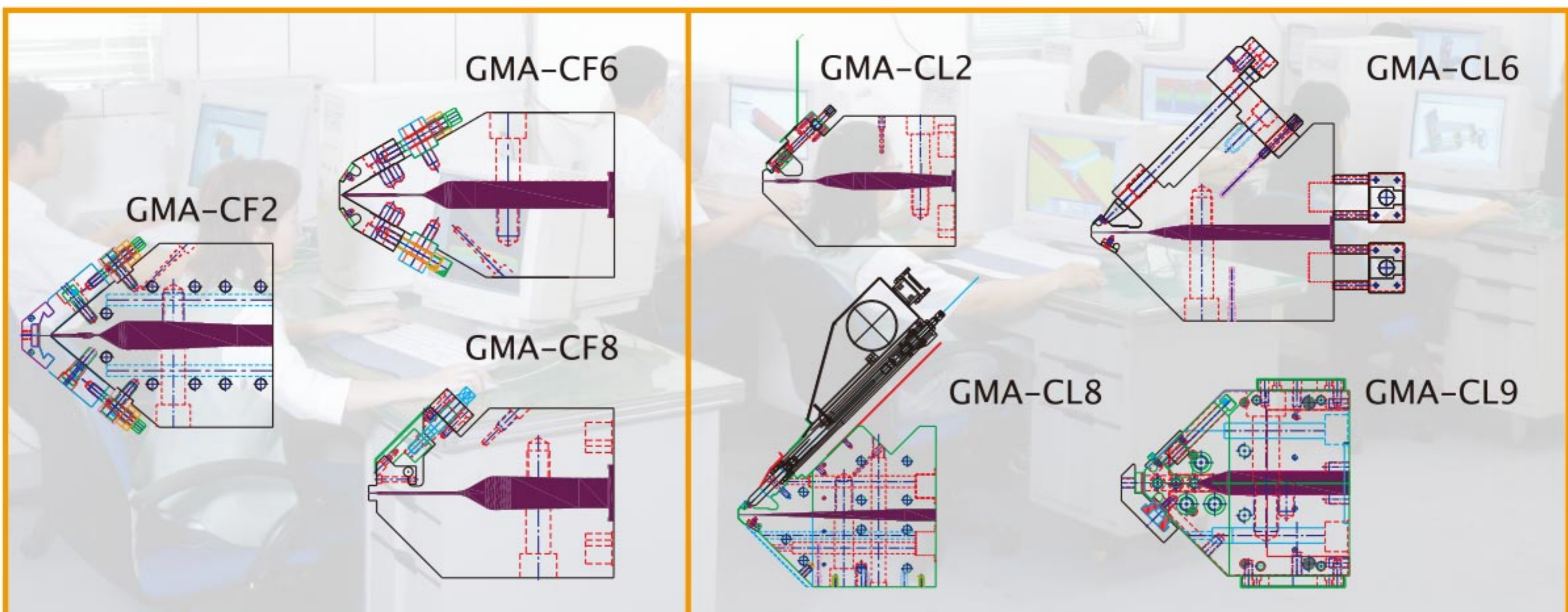


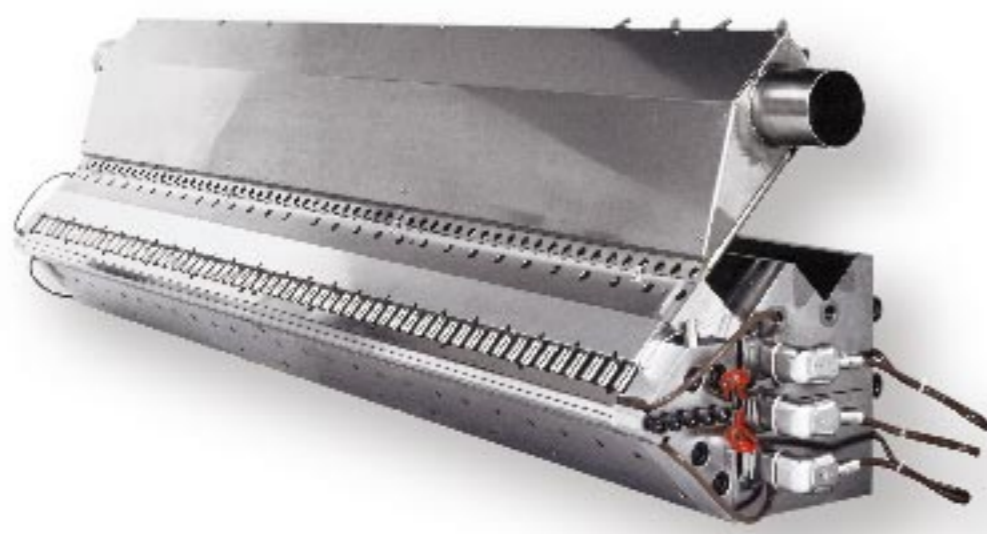
GMA has specialized in design and manufacturing T-Die for sheet and film over 15 years. Around those years, GMA has brought in more than 30 units of advanced machine tool for the needs of producing T-Die. In addition, numerous software equipments are employed for designing, which enable us to produce T-Die that fully meets with the requirement of various plastic materials and the needs of its environment. Due to the above issues, GMA is able to produce the width of T-Die range from 10 mm to 8,000 mm; Which is ideal for producing sheet and film with thickness from 0.08 ~ 100 mm. Up to now, GMA has accumulated experience by manufacturing over 5,000 sets of T-Die.

GMA did the technological cooperation and exchange with a well-known Germany Auto Die manufacturer and then proceed the Auto Die which is applying on the film extrusion machine. This Die had been successfully running in 2003 for producing PET film with thickness of 0.012 ± 0.0005 mm, line speed 150 M/min, and width up to 1800 mm. The major feature of GMA's Auto Die is -- when the adjustment screw received the signal from thickness gauge, the electric heater starts heating on the screw thereby controlling die lip closing motion through stretching of the steel rod in contact with the adjustment screw. To ensure consistency of the width and the thickness of film, an oil or air cooling system is available to choose from for controlling die lip opening. GMA is using German-made heater which features a long life and will be more stable. It can be used together with the thickness gauge from various countries to do the opening and closing control of die lip, rang from 0.6 ~ 1.2 mm or 0.8 ~ 2 mm. Custom sizes are available upon request. The high precision Auto Die eliminates die lip adjustment usually made by highly skilled technicians under a risk of burning injury while producing high quality plastic film and providing automated production.

LAMINATION

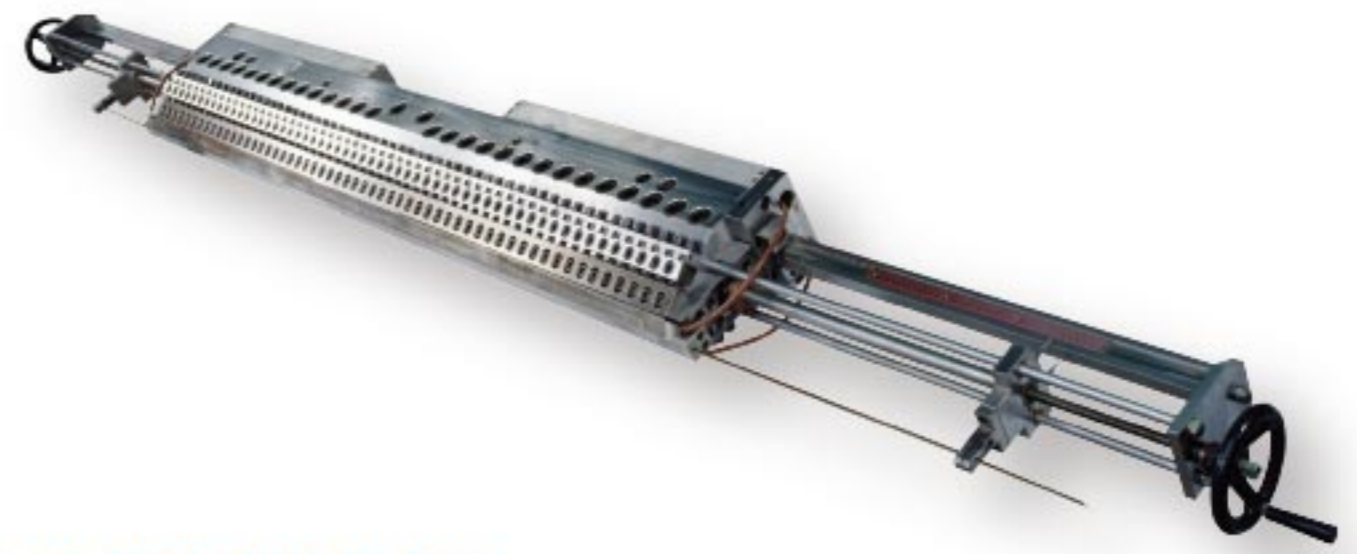
Cast Film Type2





AUTO DIE

- Automatic thickness adjustment which is collocating with thickness scanner.
- European thermal bolt control system control minimum thickness tolerance.
- Special treatment to internal flow channel, and the surface roughness is below 0.05u.
- Fast adjustment on die lip effectively increases cooling efficiency.
- Temperature around each bolt on T-die stays constant.
- Die opening and closing time are the same.
- Allows for replacing damaged screw during operation.
- Ball end adjustment screw provides more accurate adjustment.
- Die lip adjustment is computer controlled.



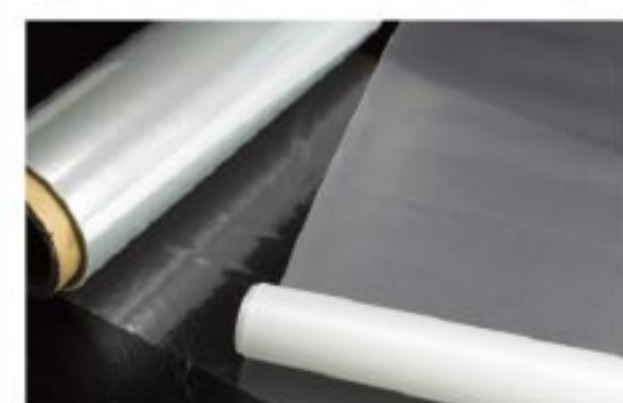
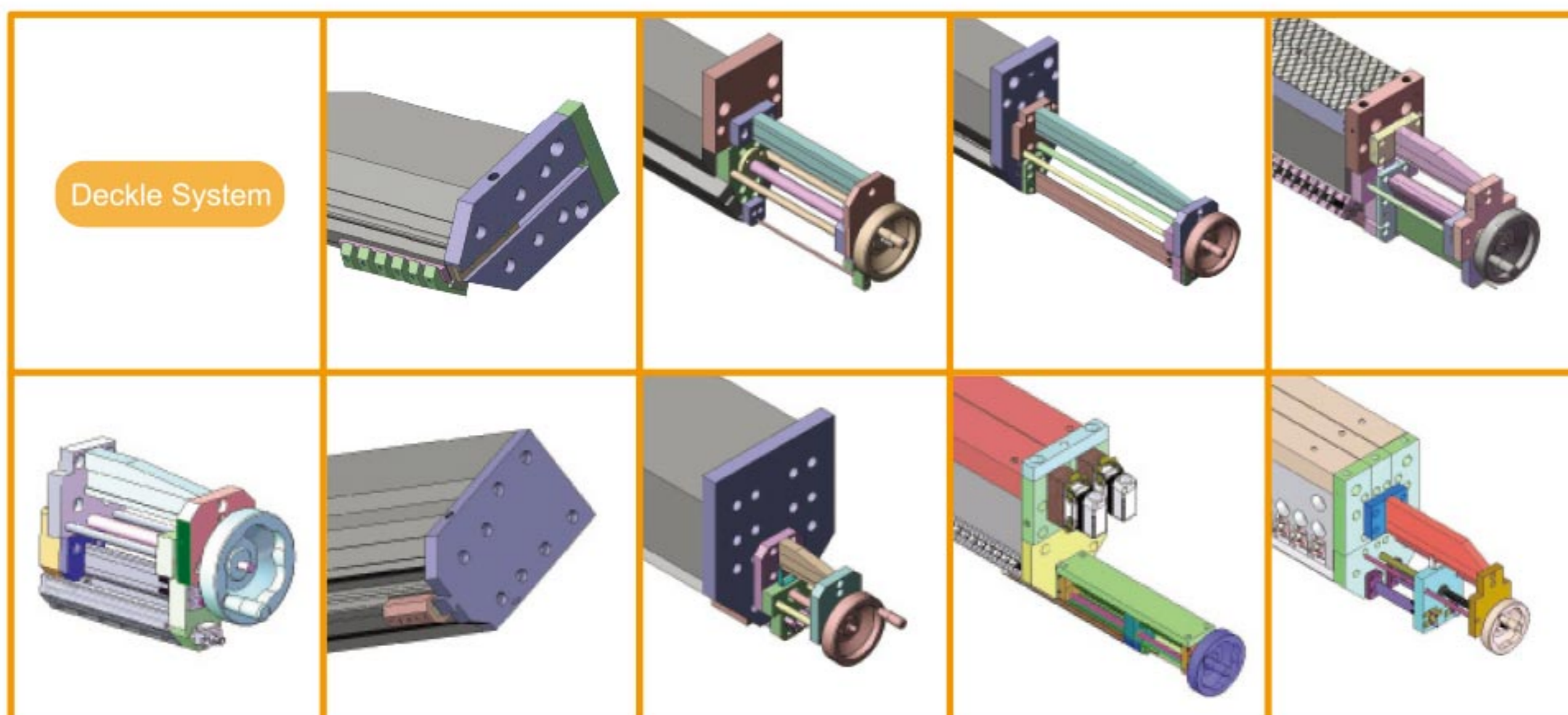
LAMINATE T-DIE

- The flow channel is highly polished. With special treatment of anti-viscous, it applies to high viscosity materials.
- Hardened Die-lip which is processed by extreme polishing will not deform easily. Material will hardly remain on the surface.
- Deckle systems from mature technology enable fine thickness adjustment of both sides material, and the product without trimming can be achieved by this adjustment.
- We use different surface processing method according to different kinds of material property in order to reduce waste material.
- Die-lip heat keeping design lessens the drop in temperature of the material it improves the adhesion of coating layer.
- Single of multiple flow channel design for one or more than one layer coating/lamination T-Die; the design varies from material to material in melting temperature and property.



T-DIE FOR FILM

- Fishtail type flow channel reduces the remaining of material.
- Precise manifold design raises the quality of product thickness and each layer has best thickness distribution in process multi-layer coextrusion.
- Various kind of Deckle system match varied material varied products. We develop the most applicable design for best result.
- Additional application of automatic thickness control system.
- Combination with vacuum box and air knife upgrades product quality.



AUTO/MANUAL DIE

SCREEN CHANGER

GEAR PUMP

FEED BLOCK

STATIC MIXER

AIR KNIFE

SOFT AIR BOX

**E
I
T**

Taichung



TAIWAN

GMA

PRODUCT RANGE

Based on a diversified technological background, GMA has design and manufactured a wide variety of products. Each one will fully meet rigorous customer requirements.



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