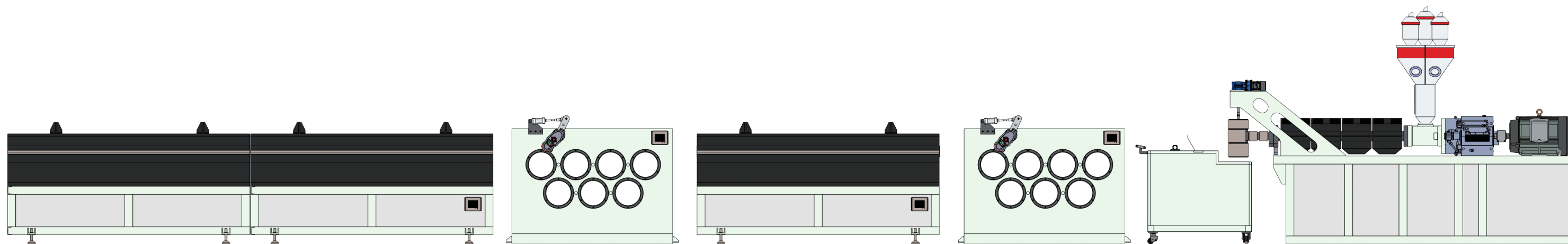


Extrusion Machine



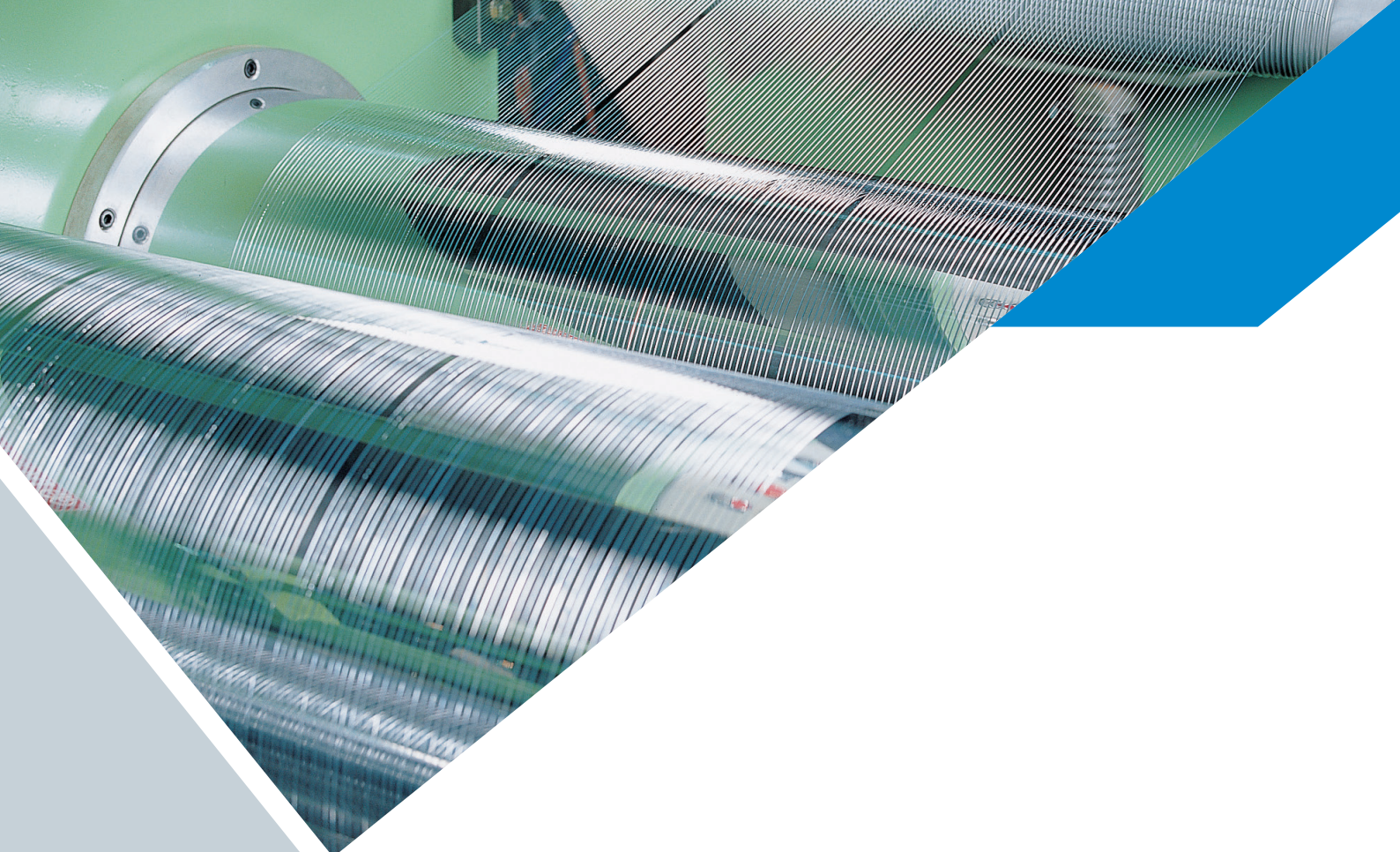
Extrusion Machine



DAEKWANG MACHINERY Co., Ltd.

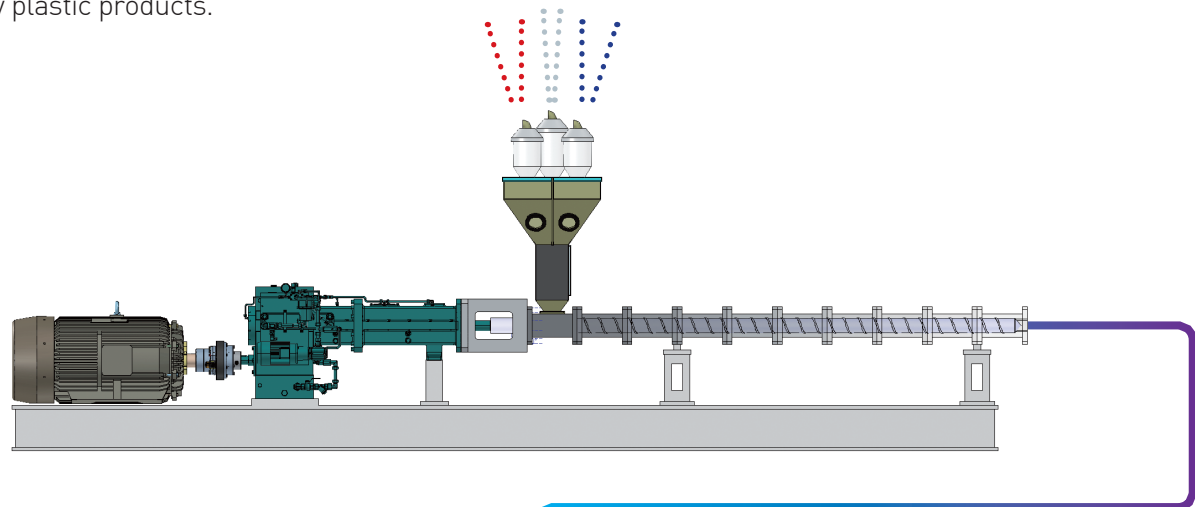
29, Songjeong-ro 210beon-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do, Korea
T.+82-31-356-7744 F.+82-31-366-8415 E.dk@extruder.co.kr
www.extruder.co.kr

Passion for Extrusion



Fundamentals of Extrusion Machine

The most important unit of an Extrusion Line is the Extruder(s). Through an interaction between the screw and barrel, polymer pellets are melted. Molten polymer is delivered for crystallization (solidification) process. Most of cases, this is a cooling process for forming the molten polymer into a desired shape. As occasion arises, there may be additional processes; heating, stretching, cooling and coating. These processes complete the products which are appropriate for use. There is no doubt that each process, extrusion and forming, should be composed in harmony and be under strict control in order to produce high quality plastic products.



Introduction

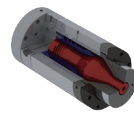
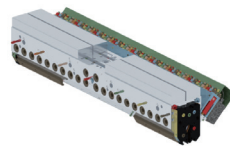
Since founded in 1973, we, Daekwang Machinery have grown up with the support from the valued customers. We have strived to develop technology to provide the customers with maximum satisfaction. This led us to be one of the trusted converting and extrusion system manufacturers.

Beginning in 1986 with the first exportation to Pakistan, we have been proactively focusing on the global market and we have exported over 200 systems to 24 countries so far. We are constantly investing in research and development in order to become one of the leading companies in this industry. You may be experienced our system indirectly when you brush your teeth. Because No. 1 manufacturer of Lamination Tube in the world is operating Daekwang's Extrusion Lamination System to produce their world class products, the tooth paste container you may have touched this morning presumably has passed through our systems on its long way to a final product.

Never contented with current technical level, we are trying to maximize efficiency, stability, marketability and user convenience of our systems. We are confident that our products guarantee successful business of our customers.

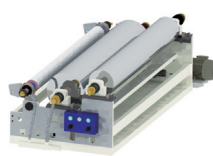
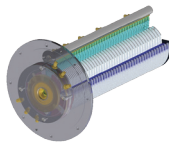
We promise to not only develop most reliable systems, but also provide the greatest service we can offer. Through our impressive system and dedicated staffs, we will strive to become the best business partner of you.

Extrusion



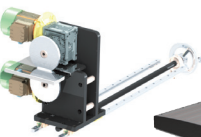
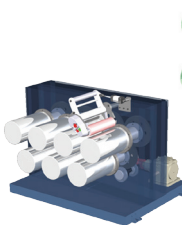
Flat shape die
Round Shape die

Solidification



Calendar roller
Air knife
Casting
Quenching bath
Vacuum chamber
Vacuum calibrator

Additional Process



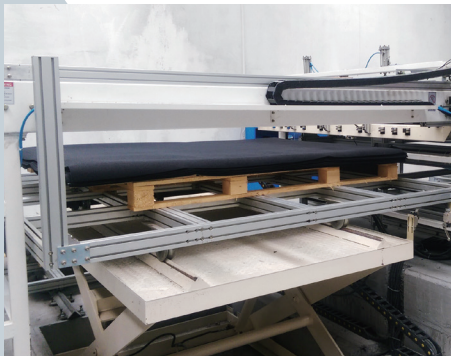
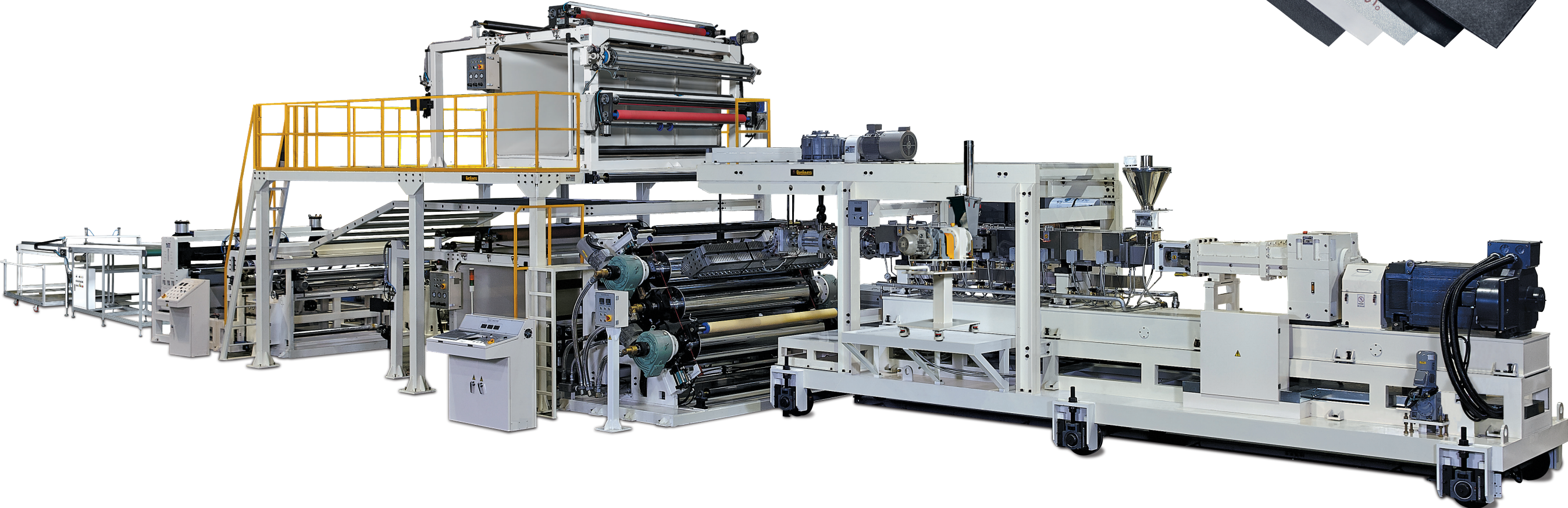
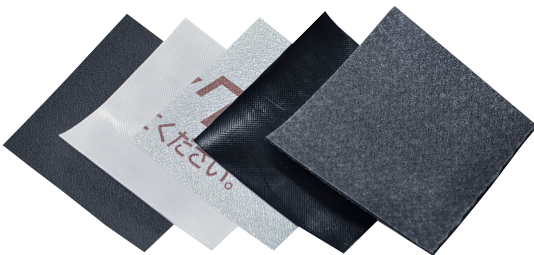
Stretching
Annealing
Coating
Trimming
Winding
Cutting

Products

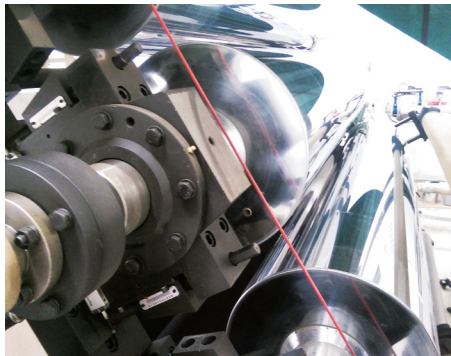


Sheet

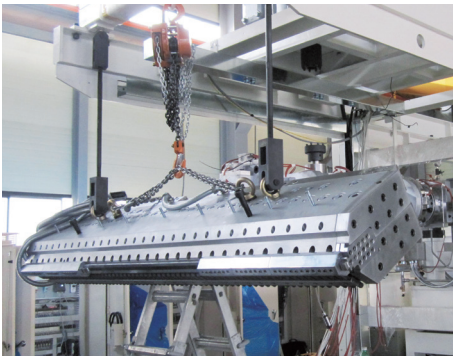
The products having 0.2 mm or above thickness are called sheets. Sheets must have uniform gauge and flatness for good appearance and to facilitate smooth downstream processes. To produce good quality sheet products, screw(s), melt pump, precision calender roll unit, and a pressure control system must be in place constituting an organic system. All of our customers are satisfied with our customized screw combinations and stable and accurate control systems.



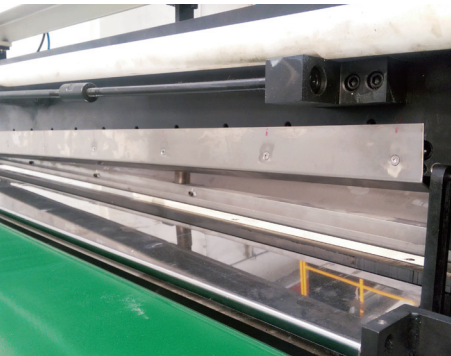
Auto stacker



Calender roll with Taper block



T-Die



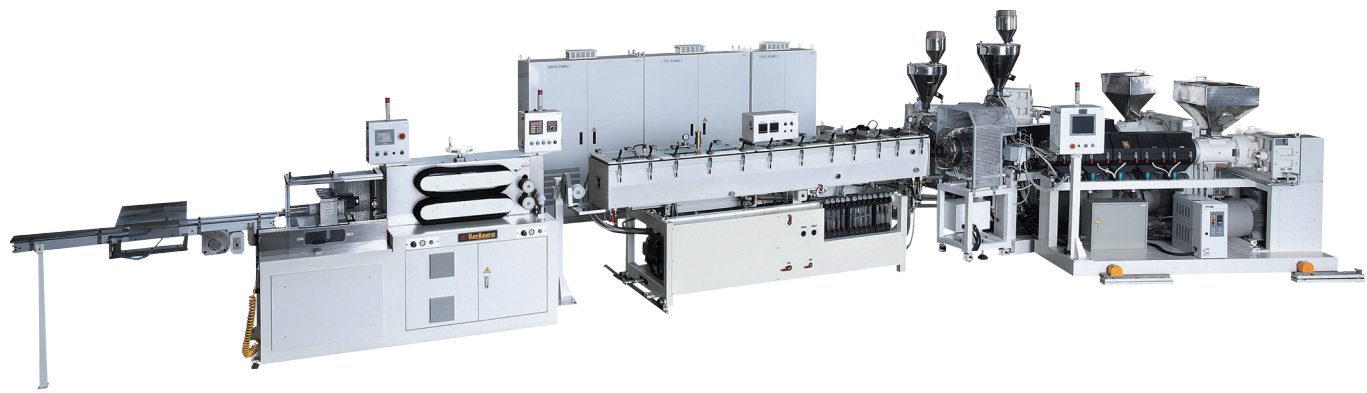
Guillotine cutter

DKSEM-92TE_x

Extruders	92mm (Twin screw extruder with segments)
Machine speed (Meters / Min)	20
product width(mm)	2,200
Calendar roll	3-rolls (Oblique positioned)
T-die	Manual with out deckle bar (Coat Hanger Type)
Cutting	Lind speed synchronized guillotine
Stacking	Auto (Pull and stack)

Tube

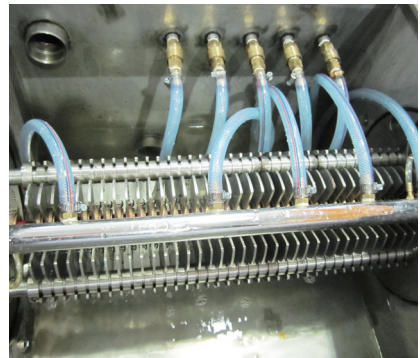
Shown below is an extrusion line for producing 5-layer seamless tubes. Most of seamless tubes have one or more barrier layers to protect the content which is sensitive to air. EVOH is the most commonly used barrier material. Due to poor bonding performance between EVOH and PE, a tie layer is interposed between the EVOH and PE layers. One inner barrier layer of EVOH, two tie layers and two outer PE layers are a typical structure of seamless tubes. The outer diameter of tube is automatically controlled by the pressure of the calibrator which is getting signals from diameter gauge.



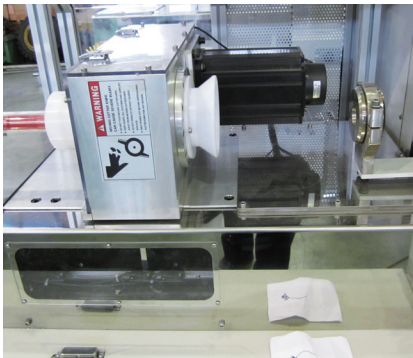
DKTEM-4Ex	
Extruder	60/60/40/40mm
Machine speed (Meters/Min)	30
product dia.	16~50mm
Typical structure	PE/TIE/EVOH/TIE/PE
Cutting	Planetary knife
Haul-off	Caterpillar (Sponge) by AC servo motor



Extruders



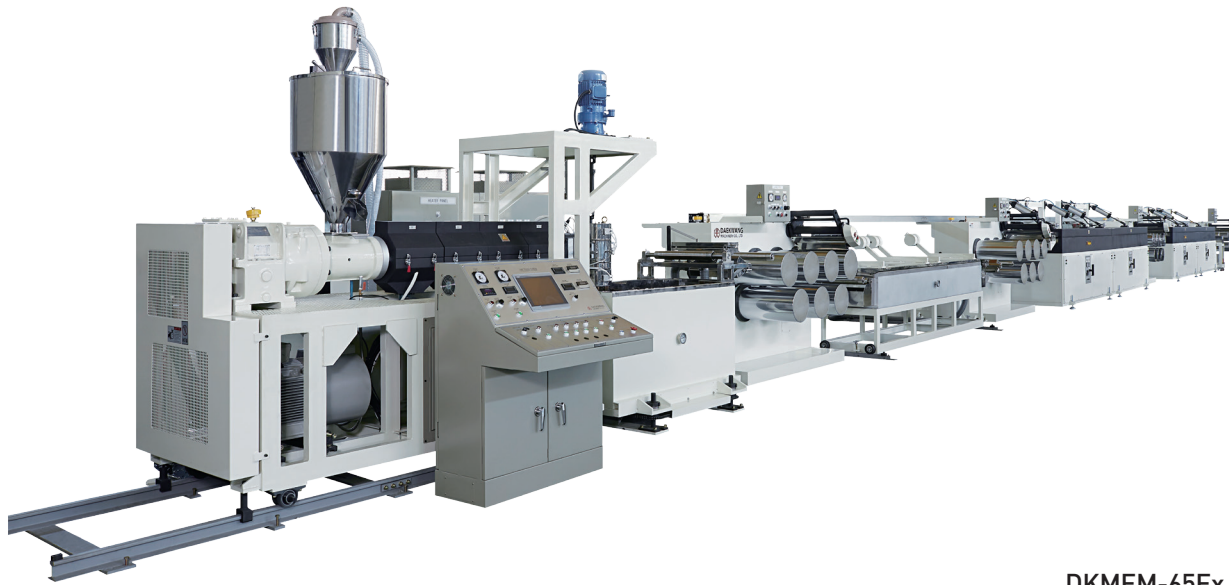
Calibrating Sleeve



Plaretery Cutter

Monofilament

Plastic filaments are used in various areas, medical, sports, clothing and so on. The most important and fundamental property that filaments should have is the uniformity of cross-section. In this respect, our machines' perfect combination between software (pressure control) and hardware (melt pump, gear-driven rollers and winder) make this possible on your production. Our system will enable you to achieve uniformity of cross-section by controlling the resin pressure at the nozzle. Filaments produced with this system meet every specification you desire and guarantee smooth operation of downstream processes, achieving highest-level of productivity.



DKMEM-65Ex	
Extruder	65mm (Single screw)
Machine speed (Meters/Min)	250
Product dia.	0.08~2.0mm
Oven	Hot air circulation
Pressure control	By closed loop feed-back (Between screw drive and pressure sensor)
Roll stand	7 Roll (driven by helical gear connection)
Winder	No flange type bobbin with Traverse system driven by servo motor



Extruder and Quenching bath



Roll stand



Stretching oven