

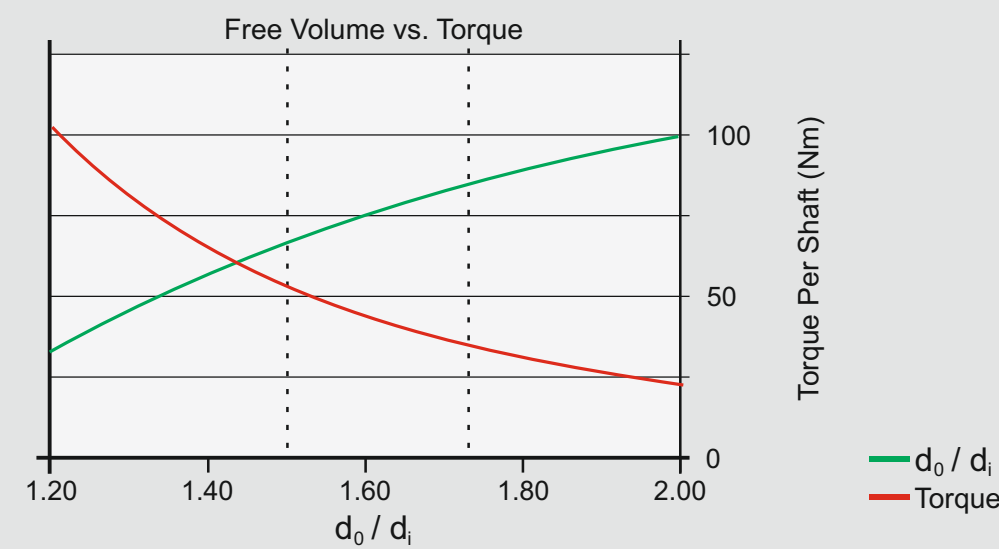
FEATURES

MONOMEX MODEL MEX T		25	45	55	65	75	85	95	125	135
Nominal Diameter Std/High-Vol. (mm)		25/27	42/43	52/55	58/60	70/72	80/82	92/94	120/123	133/135
Screw Number of Lobes		2	2	2	2	2	2	2	2	2
Screw Center-to-Center (mm)		21,5	35	42	48	58,5	64	76	100	110
Screw Speed (rpm) Other Values on Request		600 900 1200	600 900 1200	600 900 1200	600 900 1200	600 900 1200	600 900 1200	600 900 1200	300 600	350
Torque on Each Screw (Nm)	HT (High Torque)	105	398	923	1321	2626	3263	5045	12430	18463
	XT (Extra Torque)	125	640	1185	1700	3200	4750	6900	13500	19506
L/D Ratio		28+52	28+52	28+52	28+52	28+52	28+52	28+52	28+52	28+52

AREAS OF APPLICATION

- > Hot Melt and Pressure Sensitive Adhesives
- > LFT Long Fiber Reinforced Thermoplastics
- > TPE Thermoplastic Elastomers
- > Heavy Layer
- > Battery Separator Films
- > Plastics innovative Recycling
- > Powder Coating
- > Food & Pet food
- > Pharmaceutical
- > Compounding
- > Polyolefins
- > Engineering Plastics
- > Carbon black masterbatch
- > PET masterbatch
- > Effect-pigment masterbatch
- > Bio Plastics
- > PVC Processing
- > HFFR (ATH, Mg(OH)2)

RESIDENCE TIME DISTRIBUTION FUNCTIONS E(t)



MONOMEX

MACHINERY TECHNOLOGIES



MONOMER EXTRUDER LTD.

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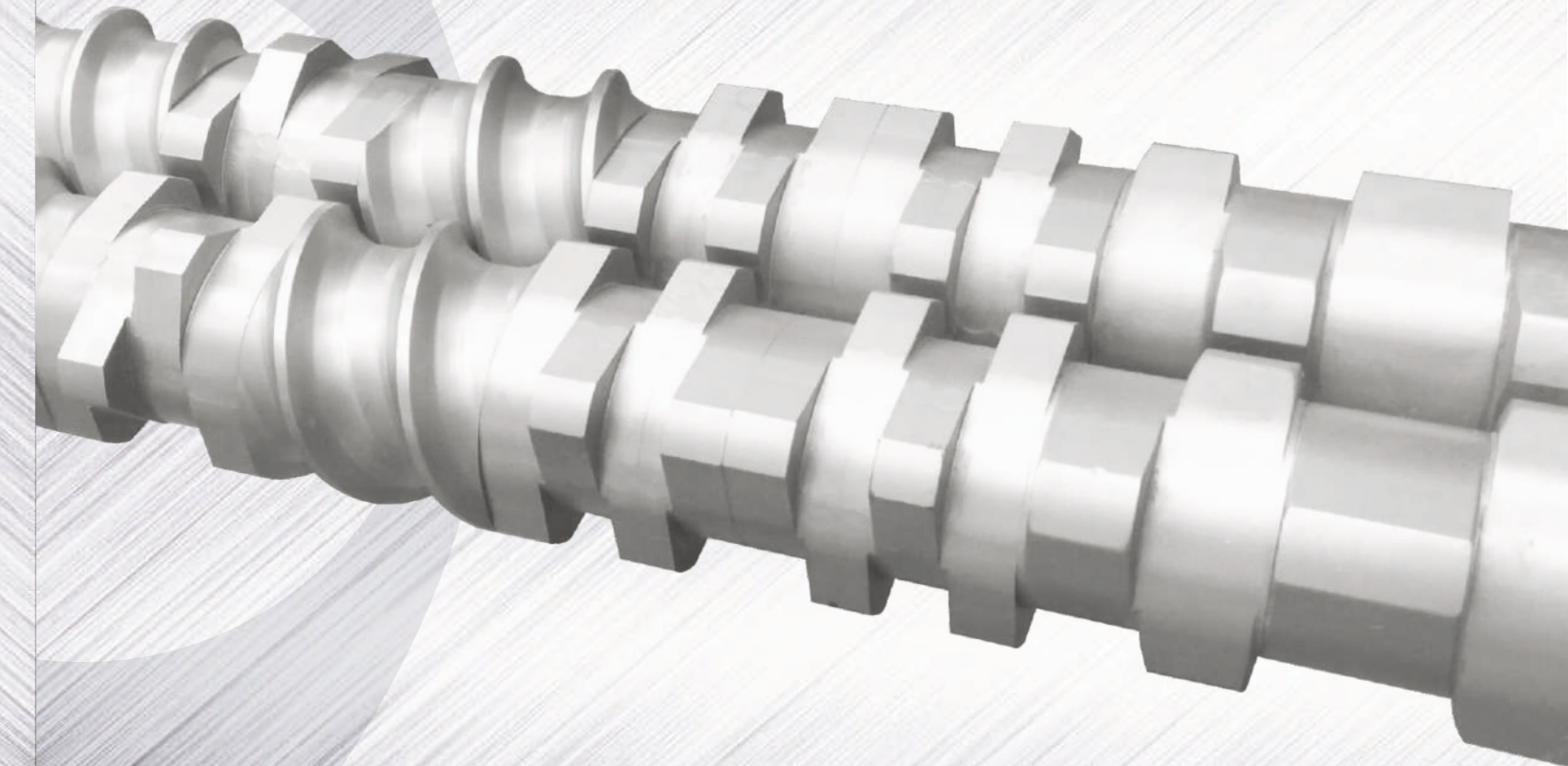
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"Beyond Appearance"



TWIN SCREW CO-ROTATE EXTRUDER

EXTRUDER GEARBOX

30% Torque increase with specific torque of 18 Nm/cm³ european reducer. Increases in throughput of upto 100% are possible.

BARREL HEATING SYSTEM

The barrel elements have an energy-saving heating system. Heating with Cartridge Heaters is more effective for product sensitivity. Failure of Cartridge Heaters in the same area does not stop production. In case of malfunction, the heaters used in the region can easily change while the machine is running during production.

SIDE FEEDER

Side feeding, which is a special process for twin screw extruders, increases the extruder capacity and its thermal resistance and dispersion properties are used to compound different material to obtain high-quality products.

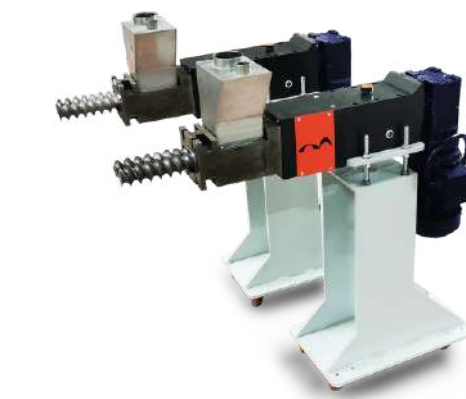
INTELLIGENT CONTROL

Depending on machine and customer requirements, economic and optimum interaction of material feeding, extruder and equipment distinguishes individually programmed by the Monomex controls from others. With the data gathered and entered at the HMI (human machine interface) the whole extrusion process can be monitored, controlled, documented and analysed.



SCREW SHAFT SYSTEM

Our company, which design sand manufactures, provides a ratio of 1.55 to 1.8 of Do / Di with extruder screws optimize according to customer requirements. It achieves exceptionally high throughput with maximum product quality. The screw material used according to the product is made of tool steels or HIP materials. The shafts reliably withstand the high mechanical stress and the screw elements feature high wear-resistance.



MELT PUMP

Superior volumetric efficiency enables pumping at reduced shear rate, slower speed, lower temperature and tight dwell time distribution. Improving the set attributes results in better pumping rate, greater reliability, higher polymer quality, and longer service life. At the same time, energy consumption is significantly reduced. Monomex melt pumps and extrusion pumps adhere to the principle.

WATERING PELLETIZER

The plastic melt material exits through the wear-resistant dieplate, and is knocked off by the pelletizer blades. The pellets cooled in the water ring are flushed out, dried in the centrifuge and discharged. By adjusting the blade pressure, pelletizer blades provide a long service life; replacement is quick and easy.

