Delta Series, 2 1/2 inch (65mm) to 6 inch (150mm) Horizontal Single Screw Extruders

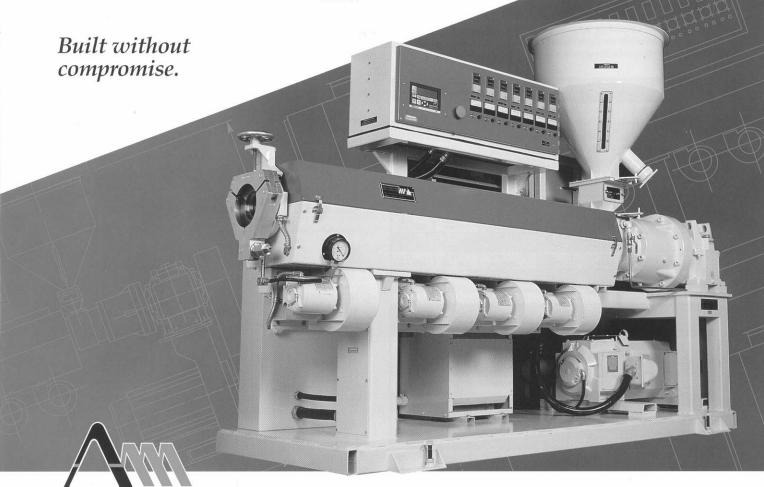
Engineered and manufactured for top performance and durability utilizing precision manufactured long life components to add reliability and productivity to your operation. Built-in accordance with your specific requirements and materials to be processed. Sizes ranging from 2 1/2" to 6" with various L/D ratios and downstream equipment available. Rugged equipment built without compromise for long term productivity and performance.

Features:

- Bimetallic Lined Barrels
- Solid Cast Aluminum Heat/Cool Elements
- Solid State or Mercury Relays
- Air or Liquid Cooled

Ideal for the following industries:

- Profile
- Pipe
- Compounding
- Reclaim
- · Wire and Cable
- Sheet



DELTAPLAST MACHINERY LTD.

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Extruder Drive

Digital DC, AC vector or brushless DC drive systems available for all polymer applications. Connected to gear reducer via fully guarded matched belts and sheaves allowing interchangeability to meet different torque and speed requirements.

Gear Reducer

Double reduction parallel shaft helical reducer with generous mechanical and thermal ratings. Self contained splash type oil bath.

Thrust Assembly

Heavy duty cylindrical roller type bearings mounted in a separate thrust housing with its own oil bath which does not allow any cross contamination with the gear reducer.

Feed Throat

High density class 40 iron casting jacketed for water cooling. The large rectangular feed hole is tangetial to the bore, which has a pressed fit removable bimetallic liner. A powder seal is fitted in the rear of the feed throat. A high capacity hopper complete with sight glass and dump chute is included. An optional dual shutter magnet box is also available.

Barrel Heating and Cooling

Processing control achieved via cast aluminum heating elements, each zone individually shrouded to guide cooling air directly over barrel elements. Cooling air

provided by externally mounted blowers. Liquid cooling via closed circuit cooling pump system optionally available.

Barrel

Centrifical cast bimetallic lined barrel, base material 4140 or JP38 tube steel, precision machined taper grip flanges threaded and welded for added strength. Designed for maximum operating pressures of 10,000 PSI. Optional superior corrosion, wear resistant and vented barrels available.

Base

Heavy duty structural steel base provides for exact alignment between all plastification components. Extruder components including motor control panel and transformer pre wired in a compact unitzed package for easy component accessibility and minimal installation time. The front barrel support is heavy duty weldment with horizontally inserted dowl pins allowing for linear barrel expansion. The adjustment feature of the front barrel support allows for precise barrel alignment.

Screw

Single stage metering type, base material pre hardened 4140, chrome plated, colmonoy hardened flights, and optional coring for cooling. Special performance designs engineered to suit individual applications for superior outputs and melt quality available including barrier type and special mixing sections.

Clamp

Three piece taper grip clamp with single swing bolt fastening capability provides positive seal and alignment between barrel and die flange. Two piece double hinged swing bolt design and adjustable hinged die support optionally available.

Control Cabinet

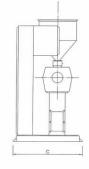
Base mounted control panel containing microprocessor based temperature controllers, circuit breakers, ammeters, load contactors, and control transformer for each barrel and die zone. The drive operator keypad station containing the following; speed regulation, start/stop, screw speed indicator, load indicator as well as other drive data and fault indicators which are remote mounted near head on operator side. A die heating stepdown transformer is included. Power requirements 460/3/60 standard, 230/3/60 or 575/3/60 available.

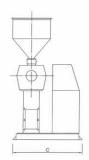
Optionally available Deltatech PLC-based touchscreen extrusion control system with multi microprocessor control, PID temperature control, closed loop speed control, direct access menus, full drive synchronization capability, alarm diagnostics, and RS232 communications.

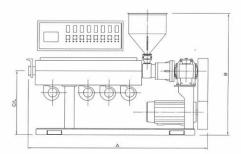
	RATIO	APPROXIMATE WEIGHT			С	C/L	
2-1/2 in	24:1	5800 lbs.	102 in	80 in	42 in	42 in	
65 mm		2635 kg.	2590 mm	2035 mm	1065 mm	1065 mm	
2-1/2 in	30:1	6150 lbs.	117 in	80 in	42 in	42 in	
65 mm		2795 kg.	2975 mm	2035 mm	1065 mm	1065 mm	
3 in	24:1	8200 lbs.	124 in	84 in	48 in	42 in	
75 mm		3725 kg.	3150 mm	2135 mm	1220 mm	1065 mm	
3 in	30:1	8500 lbs.	142 in	84 in	48 in	42 in	
75 mm		3865 kg.	3605 mm	2135 mm	1220 mm	1065 mm	
3-1/2 in	24:1	9300 lbs.	136 in	84 in	48 in	42 in	
90 mm		4225 kg.	3455 mm	2135 mm	1220 mm	1065 mm	
3-1/2 in	30:1	9800 lbs.	157 in	84 in	48 in	42 in	
90 mm		4455 kg.	3990 mm	2135 mm	1220 mm	1065 mm	
4-1/2 in	24:1	15200 lbs.	174 in	88 in	78 in	42 in	
120 mm		6910 kg.	4420 mm	2235 mm	1980 mm	1065 mm	
4-1/2 in	30:1	16700 lbs.	201 in	88 in	78 in	42 in	
120 mm		7590 kg.	5105 mm	2235 mm	1980 mm	1065 mm	
6 in	24:1	22000 lbs.	225 in	97 in	90 in	42 in	
150 mm		10000 kg.	5715 mm	2465 mm	2285 mm	1065 mm	
6 in	30:1	25000 lbs.	261 in	97 in	90 in	42 in	
150 mm		11365 kg.	6630 mm	2465 mm	2285 mm	1065 mm	

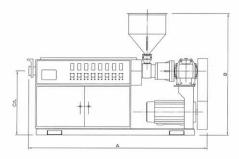
	L/D RATIO	STD. DRIVE HP	REDUCTION RATIO	AGMA HP RATING	THRUST BEARING AVG. B10 LIFE HOURS	# OF ZONES	TOTAL KW	CFM
2-1/2 in 65 mm	24:1	40	16:1	90	650,000	4	24.5	400
2-1/2 in 65 mm	30:1	50	16:1	90	650,000	5	28.0	400
3 in 75 mm	24:1	60	16:1	142	350,000	4	28.0	525
3 in 75 mm	30:1	75	16:1	142	350,000	5	35.0	525
3-1/2 in 90 mm	24:1	75	16:1	142	350,000	4	36.0	525
3-1/2 in 90 mm	30:1	100	16:1	213	350,000	5	42.5	525
4-1/2 in 120 mm	24:1	150	16:1	304	410,000	5	58.5	850
4-1/2 in 120 mm	30:1	200	16:1	705	410,000	6	70.0	850
6 in 150 mm	24:1	250	16:1	705	325,000	5	96.0	1100
6 in 150 mm	30:1	300	16:1	705	325,000	6	112.0	1100

Please note: Our continuous improvement of product lines may make dimensions and specifications subject to change without notice.











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