

Delta Series, 3/4 inch (20mm) to 2 inch (50mm) 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 3/4" to 2" with various L/D ratios and downstream equipment available. Rugged equipment built without compromise for long term productivity and performance.

Features:

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

Ideal for the following industries:

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

*Built without
compromise.*



DELTAPLAST MACHINERY LTD.

130 Staffern Drive, Concord, Ontario L4K 2X3 Canada Tel: (905) 669-2966 Fax: (905) 669-2336

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 or single stage worm gear units 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. Large rectangular feed hole with extended bimetallic barrel liner. A high capacity hopper complete with sight glass and dump chute is included.

Barrel Heating and Cooling

Processing control achieved via maxiband aluminum heating elements, each zone individually shrouded to guide cooling air directly over barrel elements. Cooling air provided by externally mounted blowers.

Barrel

Centrifugal 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 also 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 unitized package for easy component accessibility and minimal installation time. The front barrel support is heavy duty weldment with horizontally inserted dowel 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

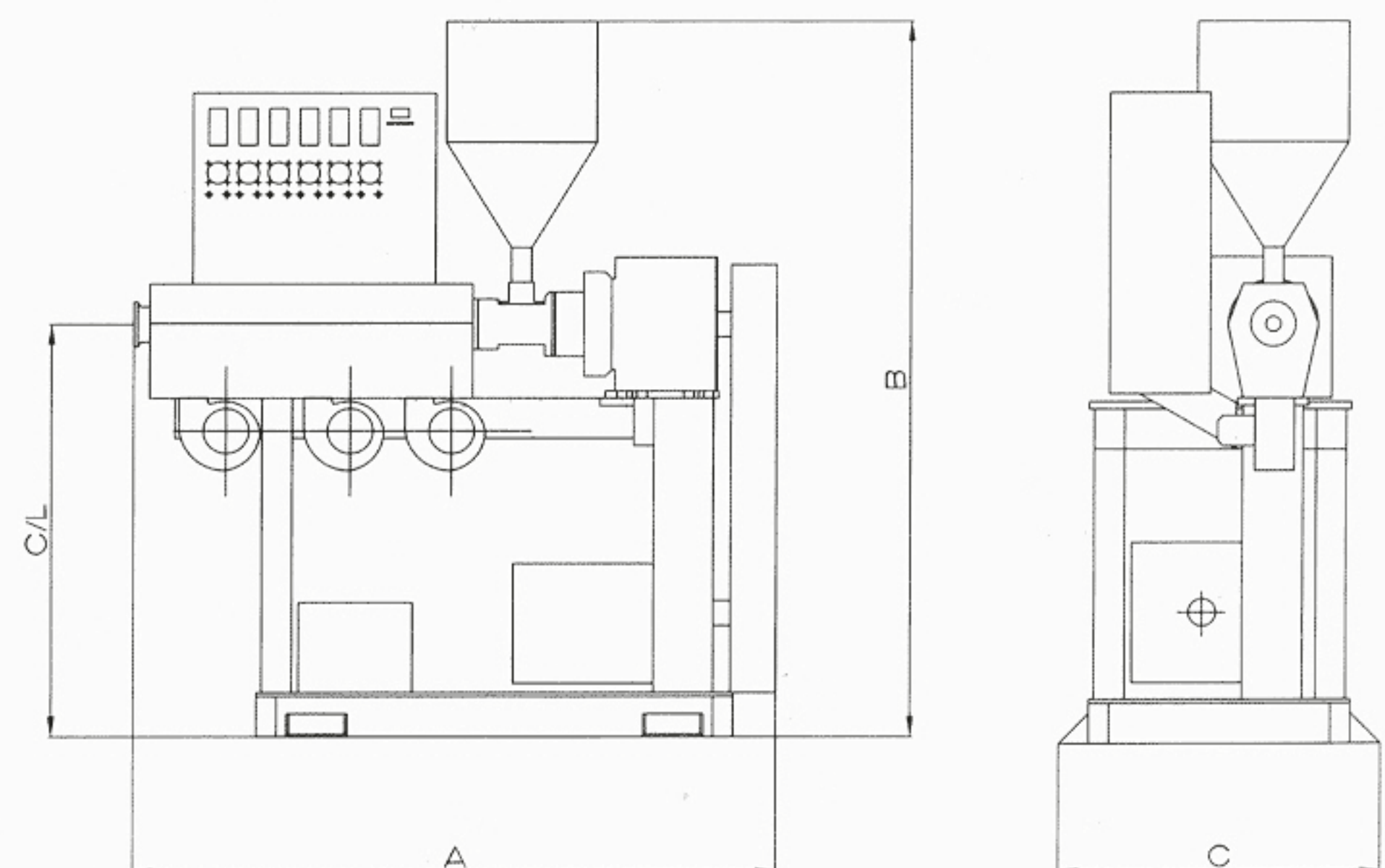
Three or two piece taper grip clamp with single swing bolt fastening capability provides positive seal and alignment between barrel and die flange. Two piece double hinged swing bolt design and adjustable hinged die support optionally available.

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.

SIZE	RATIO	APPROXIMATE WEIGHT	A	B	C	C/L
3/4 in 20 mm	24:1	800 lbs. 365 kg.	33 in 840 mm	66 in 1675 mm	28 in 715 mm	42 in 1065 mm
1 in 25 mm	24:1	900 lbs. 410 kg.	39 in 990 mm	66 in 1675 mm	28 in 715 mm	42 in 1065 mm
1-1/4 in 30 mm	24:1	1750 lbs. 795 kg.	58 in 1475 mm	69 in 1755 mm	32 in 815 mm	42 in 1065 mm
1-1/4 in 30 mm	30:1	1850 lbs. 840 kg.	65.5 in 1665 mm	69 in 1755 mm	32 in 815 mm	42 in 1065 mm
1-1/2 in 40 mm	24:1	2000 lbs. 910 kg.	65 in 1650 mm	69 in 1755 mm	32 in 815 mm	42 in 1065 mm
1-1/2 in 40 mm	30:1	2150 lbs. 975 kg.	74 in 1880 mm	69 in 1755 mm	32 in 815 mm	42 in 1065 mm
1-3/4 in 45 mm	24:1	2150 lbs. 975 kg.	71 in 1805 mm	75 in 1905 mm	36 in 915 mm	42 in 1065 mm
1-3/4 in 45 mm	30:1	2275 lbs. 1035 kg.	81.5 in 2070 mm	75 in 1905 mm	36 in 915 mm	42 in 1065 mm
2 in 50 mm	24:1	4000 lbs. 1820 kg.	75 in 1905 mm	75 in 1905 mm	36 in 915 mm	42 in 1065 mm
2 in 50 mm	30:1	4250 lbs. 1930 kg.	87 in 2210 mm	75 in 1905 mm	36 in 915 mm	42 in 1065 mm

SIZE	L/D RATIO	STD. DRIVE HP	REDUCTION RATIO	AGMA HP RATING	THRUST BEARING AVG. B10 LIFE HOURS	# OF ZONES	TOTAL KW	CFM
3/4 in 20 mm	24:1	3	15:1	5.72	210,000	2	2.5	75
1 in 25 mm	24:1	3	15:1	5.72	210,000	2	2.5	75
1-1/4 in 30 mm	24:1	5	16:1	11.8	190,000	3	6.5	130
1-1/4 in 30 mm	30:1	7.5	16:1	11.8	190,000	4	7.5	130
1-1/2 in 40 mm	24:1	7.5	16:1	11.8	150,000	3	7.5	240
1-1/2 in 40 mm	30:1	10	16:1	17.1	150,000	4	10	240
1-3/4 in 45 mm	24:1	15	16:1	29.7	725,000	4	10.8	240
1-3/4 in 45 mm	30:1	20	15:1	44.4	725,000	5	12.5	240
2 in 50 mm	24:1	20	15:1	44.4	725,000	4	12.5	400
2 in 50 mm	30:1	30	15:1	75.1	725,000	5	14.5	400



DELTAPLAST MACHINERY LTD.

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

130 Staffern Drive, Concord, Ontario L4K 2X3 Canada
Tel: (905) 669-2966 Fax: (905) 699-2336

Printed in Canada