

DTS Series Parallel Twin Screw Extruders

The DTS Series is engineered and manufactured with the latest in P.V.C. twin screw technology utilizing precision manufactured long life components for top performance and durability. DTS Series extruders are available in three sizes: 75, 94 and 114mm screw diameters. All feature 26:1 or 33:1 L/D screw technology for high outputs. This rugged equipment is built without compromise for long term productivity and performance.

Features:

- High Output Rates
- Closed loop Internal Self Optimizing Screw Cooling System
- Solid Cast Aluminum Heat/Cool Elements
- Air Cooled
- Low Maintenance
- Compact Design

Ideal for:

- P.V.C. Profile
- P.V.C. Pipe

Built without compromise.



DELTAPLAST MACHINERY LTD.

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Extruder Drive

AC vector drive systems for all applications in conjunction with vector duty low maintenance AC motors. Connected via direct coupling or fully guarded matched belts and sheaves.

Gear Box

Heavy duty high torque rated gear reducer with incorporated high capacity thrust bearings. The gear box is of compact design with sturdy cast housing manufactured to reduce misalignment and eliminate vibration. Optimized gear geometry and the use of high quality alloy steels in conjunction with special gear wheel production techniques have contributed to lower noise levels and longer gear box lifetime.

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. Long preheating zone for wide processing window.

Barrel

Precision manufactured twin borings of the highest quality nitrided alloy steel. Extra depth nitriding of 0.7 to 0.9mm and hardness level of 58 to 60 HRC. Customer specific flanging available.

Base

Heavy duty structural steel base provides for exact alignment between all plastification components. Extruder components including motor control panel and transformer prewired in a compact unitized package for easy component accessibility and minimal installation time. The adjustment feature of the front barrel support allows for precise barrel alignment.

Screws

Extra depth nitrided screws designed for optimal throughputs manufactured from the highest quality nitrided alloy steel. Internal screw cooling achieved through a closed loop self optimizing system that requires no maintenance. Molybdenum surface wear protection coating for high wear applications gives significantly longer screw life, optionally available. Special performance designs engineered to suit individual applications for superior outputs and melt quality available.

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.

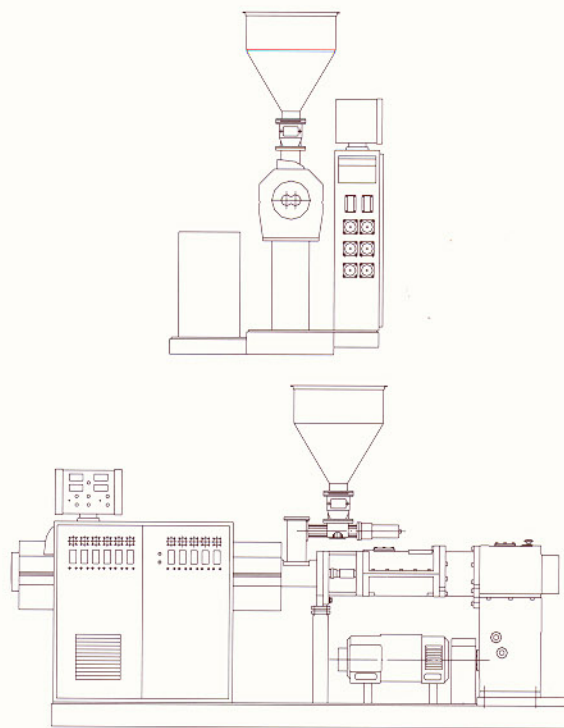
Control Cabinet

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 station contains 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-processor control, PID temperature control, closed loop speed control, direct access menus, full drive synchronization capability, alarm diagnostics, and various communications means.

	DTS 75-26	DTS 75-33	DTS 94-26	DTS 94-33	DTS 114-26	DTS 114-33
SCREW DIAMETER (MM)	75	75	94	94	114	114
SCREW LENGTH L/D	26	33	26	33	26	33
MAX SCREW SPEED (RPM)	32	32	26	26	21	21
MOTOR POWER (HP)	50	60	75	100	100	125
NUMBER OF HEAT ZONES	2	3	2	3	2	3
HEATING POWER (KW)	12	18	18	27	24	36
NUMBER OF HEAT/COOL ZONES	3	3	3	3	3	3
HEAT/COOL POWER (KW)	9	9	15	15	18	21
COOLING MEDIUM	AIR	AIR	AIR	AIR	AIR	AIR
VACUUM PUMP HP	1.0	1.0	1.5	1.5	2.0	2.0
TOTAL DIE ZONES	6	6	8	8	8	8
POWER OF DIE ZONES (KW)	18	18	24	24	24	24
MAX OUTPUT PROFILE RPVC LB/KG/HR	650/295	715/325	913/415	1000/455	1232/560	1320/600
MAXIMUM OUTPUT PIPE RPVC LB/KG/HR	780/355	880/400	1210/550	1375/625	1560/710	1870/850
LENGTH OVERALL IN/MM	148/3750	168/4270	185/4700	210/5350	208/5300	240/6100
WIDTH OVERALL IN/MM	48/1220	48/1220	48/1220	48/1220	52/1320	52/1320
HEIGHT OVERALL IN/MM	96/2450	96/2450	98/2500	98/2500	100/2550	100/2550
WEIGHT LB/KG	7150/3250	7436/3380	9660/4390	10035/4560	13450/6110	14000/6360

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



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