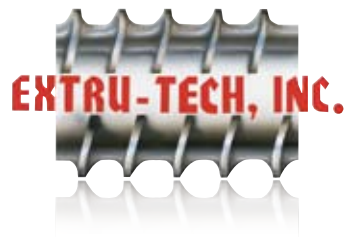




Extrusion Cooking Systems



World class extrusion cooking systems.



Extrusion Cooking Systems

The broad line of Extrusion Cooking Systems from Extru-Tech Inc. has evolved from numerous years of innovative engineering, metallurgical advancement, and the evolution of superior manufacturing processes. From the beginning, the overriding goal of the Extru-Tech engineering staff has been to design an extrusion cooking system that will yield high production levels of premium quality products. Whether it's snack, pet, aquatic or animal feed production, Extru-Tech Extruders are the most efficient single screw extrusion cooking systems available on the market.



Extruder Barrels

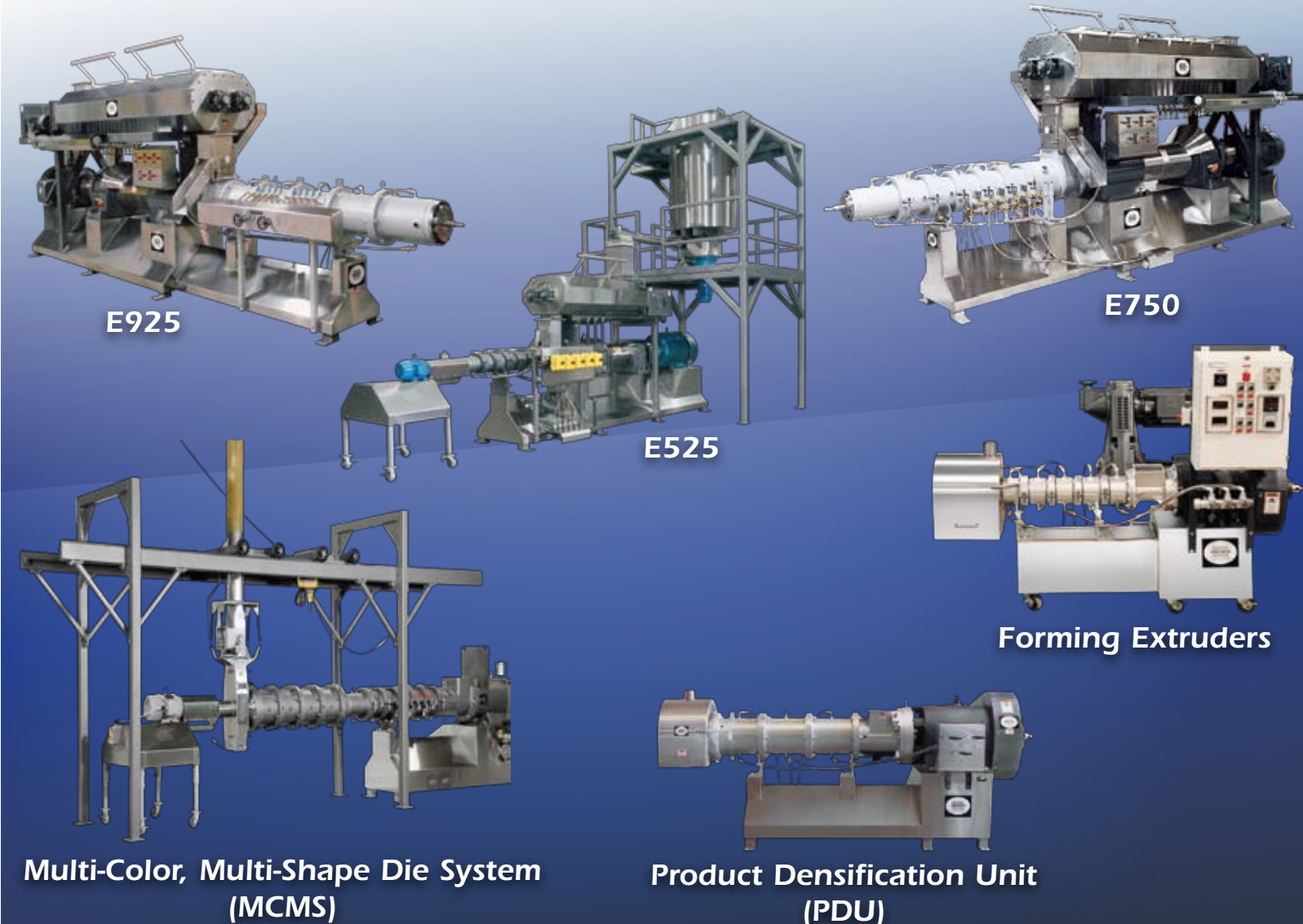
Extru-Tech Extruder Barrels are designed for broad production capabilities with maximum efficiency and minimal metal-to-metal wear. Each extruder model can be equipped with multiple barrel length packages, each designed for the production of specific product types. The back of the inlet heads incorporate two mechanical seals which prevent material leakage between the rear of the inlet head and drive shaft. Adequate spacing is provided between the inlet head and bearing housing to further prevent the chance of material reaching the bearing housing seals.

Segmented screws and shearlocks are positioned on the extruder drive shaft and can be configured to attain desired characteristics for a wide variety of extruded products. Segmented, jacketed heads with replaceable wear liners allow for easy injection of either water or steam into the individual barrel segments to control extrusion temperatures. High-pressure steam is injected into the product zone to enhance cooking characteristics and increase the rate of production.

All screws and liners are constructed of high quality, wear-resistant stainless steel alloys. Upon completion of manufacturing, screws are polished, heat treated to required hardness specifications, and then parallel ground to ensure proper fit between barrel components.



From unprecedented production capacities to exacting finished product quality, Extru-Tech Extrusion Cooking Systems have established the industry standards for performance and value. All Extrusion Cooking Systems are engineered to optimize both barrel component performance and energy efficiency while maintaining the nutritive integrity and palatability of the products being produced.



Extruder Bases

Extruder Bases are constructed of carbon steel plate with stainless steel lamination covering the complete exterior. Its sloped design combined with the stainless steel lamination provides not only a very durable, low maintenance base, but also a sanitary work area.

Extruder Drives

Extruder Drive choices consist of either the reliable "v-belt" system or the advanced "In-line" mechanism. The "In-line" drive utilizes an efficient helical gear speed reducer that decreases horsepower requirements by as much as 20 hp when compared to conventional "v-belt" drive systems with equal horsepower ratings. The "In-line" drive also eliminates routine maintenance required to keep a "v-belt" drive system operating efficiently.

General Extruder Specifications



EXTRU-TECH® E925 COOKER/EXTRUDERS*

			AQUATIC FEEDS				PET FOODS			
			1.5 mm to 4.0 mm		5.0 mm to 10.0 mm		Chunk Style Dog Food		Cat Food	
Model	HP	KW	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr
E925	up to 600	up to 450	7,700 - 24,000	3,500 - 10,880	28,200 - 33,000	12,800 - 15,000	28,200 - 33,000	12,800 - 15,000	22,000 - 26,000	10,000 - 11,800
MAXXIM										
E925XL	300	225	6,400 - 21,000	2,900 - 9,500	22,000 - 28,200	10,000 - 12,800	22,000 - 28,200	10,000 - 12,800	16,500 - 19,850	7,500 - 9,000
E925A	250	190	6,400 - 17,640	2,900 - 8,000	17,640 - 22,000	8,000 - 10,000	17,640 - 22,000	8,000 - 10,000	13,900 - 16,540	6,300 - 7,500

* The above chart illustrates typical capacity ranges for "floating" aquatic feeds and pet foods. Specific performance guarantees will be supplied by Extru-Tech after each customer's particular application has been evaluated.

EXTRU-TECH® E750 COOKER/EXTRUDERS*

			AQUATIC FEEDS				PET FOODS			
			1.5 mm to 4.0 mm		5.0 mm to 10.0 mm		Chunk Style Dog Food		Cat Food	
Model	HP	KW	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr
E750XL	250	190	3,500 - 13,230	1,600 - 6,000	13,230 - 17,640	6,000 - 8,000	13,230 - 17,640	6,000 - 8,000	11,900 - 13,670	5,400 - 6,200
E750A	200	150	3,500 - 11,900	1,600 - 5,400	11,900 - 13,230	5,400 - 6,000	11,900 - 13,230	5,400 - 6,000	9,920 - 11,460	4,500 - 5,200
E750B	150	110	3,500 - 7,700	1,600 - 3,500	7,700 - 8,820	3,500 - 4,000	7,700 - 8,820	3,500 - 4,000	4,400 - 6,600	2,000 - 3,000

* The above chart illustrates typical capacity ranges for "floating" aquatic feeds and pet foods. Specific performance guarantees will be supplied by Extru-Tech after each customer's particular application has been evaluated.

EXTRU-TECH® E525 COOKER/EXTRUDERS*

			HUMAN FOOD APPLICATIONS				AQUATIC, ANIMAL, PET FOOD APPLICATIONS	
			# HEADS	lbs/hr	kg/hr		lbs/hr	kg/hr
Model	HP	KW						
E525HP	100	75	4	550 - 800	250 - 365			
E525XL	150	110	7				5,000 - 7,500	2,270 - 3,400
E525A	125	93	7				2,650 - 3,300	1,200 - 1,500
E525B	100	75	5				1,760 - 2,200	800 - 1,000

* The above chart illustrates typical capacity ranges for "floating" aquatic feeds and pet foods. Specific performance guarantees will be supplied by Extru-Tech after each customer's particular application has been evaluated.

Does not apply

Note: In addition to horsepower and barrel length, the type of feeding system utilized and size of conditioning cylinder contribute to the variations in capacity rates among the units.

EXTRU-TECH® E325 COOKER/EXTRUDERS* (For Research and Development Only)

			HUMAN FOOD APPLICATIONS				AQUATIC, ANIMAL, PET FOOD APPLICATIONS	
			# HEADS	lbs/hr	kg/hr		lbs/hr	kg/hr
Model	HP	KW						
E325	40	30	4	150 - 300	68 - 136			
E325	40	30	6				350 - 800	159 - 363

* The above chart illustrates typical capacity ranges for the applications stated. Specific performance guarantees will be supplied by Extru-Tech® after each customer's particular products have been evaluated.

Does not apply



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