

Single Screw Extruder Specifications	Extruder Size						
	2.5"	3.5"	4.5"	6"	8"	10"	12"
Nominal Screw Diameter	2.5" (65mm)	3.5" (65mm)	4.5" (65mm)	6" (150mm)	8" (200mm)	10" (250mm)	12" (300mm)
Effective Length / Diameter Ratio	24:1, 30:1, 36:1, 48:1 or as required	24:1, 30:1, 36:1 or as required	24:1, 30:1, 36:1 or as required	24:1-32:1-36:1 or as required	24:1-32:1-36:1 or as required	12:1, 18:1, 24:1-32:1 or as required	12:1, 18:1, 24:1-32:1 or as required
Maximum Rated Pressure	10,000 PSI	10,000 PSI	10,000 PSI	10,000 PSI	10,000 PSI	10,000 PSI	10,000 PSI
Feed Opening Size	2.5" round - 2.5" x 5" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners	3.5" round - 3.5" x 7" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners	4.5" round - 4.5" x 9" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners	6" round - 6" x 12" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners	8" round - 8" x 16" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners	10" round - 10" x 20" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners	12" round - 12" x 24" rectangular or special feed openings for RAM and crammer feed. Other options - Melt feed with seal - Grooved feed liners
Barrel Adapter Gate	4 bolt swing gate with threaded flange heater, optional C clamp, or hydraulic clamp, or as required	4 bolt swing gate with threaded flange heater, optional C clamp, or hydraulic clamp, or as required	4 bolt swing gate with threaded flange heater, optional C clamp, or hydraulic clamp, or as required	4 bolt swing gate with threaded flange heater, optional C clamp, or hydraulic clamp, or as required	4 bolt swing gate with threaded flange heater, optional C clamp, or hydraulic clamp, or as required	12 bolt standard flange with heater, C clamp or hydraulic clamp	12 bolt standard flange with heater, C clamp or hydraulic clamp
Transmission Type	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity	Helical Gear - AGMA 14 - High Torque reducers. 1.5 Service factor with extreme duty thrust capacity
Stock Gear Ratios and Capacities (1750/2000 rpm input speed):							
Ratio	10:1, 15:1, 18:1, 25:1, 30:1, or as required	10:1, 15:1, 18:1, 25:1, 30:1, 35:1 or as required	10:1, 18:1, 25:1, 30:1, 35:1 or as required	10:1, 15:1, 18:1, 25:1, 30:1, 35:1 or as required	10:1, 15:1, 18:1, 25:1, 30:1, 35:1 or as required	5:1, 10:1, 15:1, 25:1, 30:1, 35:1 or as required	5:1, 10:1, 15:1, 25:1, 30:1, 35:1 or as required
Screw RPM	200, 140, 80, 70, 60	200, 140, 80, 70, 60	200, 140, 80, 70, 60	200, 140, 80, 70, 60	200, 140, 80, 70, 60	230, 200, 140, 80, 70, 60	200, 140, 80, 70, 60
(24 Hour Continuous AGMA Class II) Other Ratios Available Between Extremes Listed Above							
Drive Motor Size	40-100 HP AC or DC, or as required	50-200 HP AC or DC, or as required	50-400 HP AC or DC, or as required	100-600 HP AC or DC, or as required	100-1000 HP AC or DC, or as required	500-3000 HP AC or DC, or as required	500-3000 HP AC or DC, or as required
Thrust Bearing Rating	Minimum 250,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,000,000 hours	Minimum 250,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,000,000 hours	Minimum 250,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,000,000 hours	Minimum 500,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,500,000 hours	Minimum 500,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,500,000 hours	Minimum 500,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,500,000 hours	Minimum 500,000 hours B-10 at 5,000 PSI, 100 RPM average life at 1,500,000 hours
Heater Type	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling	Cast in aluminum resistance heaters with incoloy cooling tubes or fins for air or liquid cooling
Number of Zones	4-8 barrel, or others as required	4-8 barrel, or others as required	4-8 barrel, or others as required	4-10 barrel, or others as required	4-10 barrel, or others as required	Up to 12 barrel, or others as required	Up to 12 barrel, or others as required
Heater Wattage	Up to 48 KW (at 35 W/in2)	Up to 48 KW (at 35 W/in2)	Up to 48 KW (at 35 W/in2)	Up to 48 KW (at 35 W/in2)	Up to 48 KW (at 35 W/in2)	Up to 48 KW (at 35 W/in2)	Up to 48 KW (at 35 W/in2)
Cooling System	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 200,000 BTU/HR capacity.	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 500,000 BTU/HR capacity.	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 500,000 BTU/HR capacity.	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 500,000 BTU/HR capacity.	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 1,000,000 BTU/HR capacity.	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 1,000,000 BTU/HR capacity.	Automatic closed circuit liquid or cast aluminum finned air cooling with precision rate control. 1,000,000 BTU/HR capacity.
Control Cabinet	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.	Free standing, fully pre-wired, dust tight with rear opening doors or piggyback mounting.
Computer / Microprocessor	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.	Standard control systems are provided for all CROWN/CDL equipment and processing lines. Special software packages or custom engineering is also available on request.
Weight	Approx. 4,000 lbs.	Approx. 6,000 lbs.	Approx. 8,000 lbs.	Approx. 12,000 lbs.	Approx. 18,000 lbs.	Approx. 25,000 lbs.	Approx. 35,000 lbs.