



ENTEK



103MM Extruder

Masterbatch compounding; 700 or 1400 HP;
300 or 600 RPM

Screws

Diameter	103mm
Rotation	Co-Rotating
Length	28-52 L/D
Screw Center Distance (mm)	84
Screw Do/Di Ratio	1.59
Flight Depth (mm)	19.0
Free Area, 2-Flight (cm ²)	61.5
Shafts	24 Tooth Involute Spline

Drive System

Std. Gearbox Ratios	2.92 / 4.3 / 5.8
Screw Speeds	600 / 400 / 300 rpm
Motor @ 1750 rpm	1400 / 950 / 700 hp
Motor Equivalent in Watts	1044 / 708 / 522 kW
Voltage Options	380 / 415 / 460 / 575 Volt
Standard Motor Controller	AC

Barrels

Form	Square, Flanged	
Length	412 mm	
Cooling	Internal Liquid Cooling	
Open Barrel Heat Zone	12.5 kW Aluminum	16.6 kW Bronze/ Cast Iron
Closed Barrel Heat Zone	15.5 kW Aluminum	23.6 kW Bronze/ Cast Iron

Controls

Controller	Ethernet PLC with Color Computer Interface
Heat/Cool Zones	Up to 16 Standard (additional upon request)

Size & Utilities

Installed Cooling Capacity (gearbox and barrel)	143 tons (1,810,100 kJ) [528 kW] @1000 hp
Typical Cooling	32 tons (405,056 kJ)
Est. Power Requirements*	1346A Power, Minimum Breaker 1800 Amps
Centerline Height	1155 mm [45.5 in]
Length, 48D	9308 mm [366 in]
Width	1225 mm [48.5 in]
Height (top of motor)	1675 mm [66 in]
Weight (approx.)	15000 kg [33000 lb]

* - Standard Machine Configuration: 1 Feed Barrel, 9 Solid Barrels (6 Aluminum, 3 Bronze/Cast Iron), 1 Vent Barrel, Gear Box Lube 40mm and Up, Barrel Cooling Pump, Main Motor Blowers 400 hp and Up

