



# ENTEK



## 53MM Extruder

Medium lot-size custom compounding;  
400 or 800 HP; 600 or 1200 RPM

### Screws

Diameter	53mm
Rotation	Co-Rotating
Length	28-52 L/D
Screw Center Distance (mm)	43
Screw Do/Di Ratio	1.62
Flight Depth (mm)	10.0
Free Area, 2-Flight (cm <sup>2</sup> )	17.2
Shafts	24 Tooth Involute Spline

### Drive System

Std. Gearbox Ratios	1.46 / 2.92
Screw Speeds	1200 / 600 rpm
Motor @ 1750 rpm	300 / 150 hp
Motor Equivalent in Watts	224 / 112 kW
Voltage Options	380 / 415 / 460 / 575 Volt
Standard Motor Controller	AC

### Barrels

Form	Square, Flanged	
Length	210 mm	
Cooling	Internal Liquid Cooling	
Open Barrel Heat Zone	3.4 kW Aluminum	4.4 kW Bronze/ Cast Iron
Closed Barrel Heat Zone	4.0 kW Aluminum	6.0 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)	28 tons (354,420 kJ) [81 kW] @ 150 hp and 600 rpm
Typical Cooling	6.3 tons (79,750 kJ)
Est. Power Requirements*	287A Power, Minimum Breaker 300 Amps
Centerline Height	1090 mm [43 in]
Length, 48D	5410 mm [213 in]
Width	1030 mm [40.5 in]
Height (top of motor)	1470 mm [58 in]
Weight (approx.)	5440 kg [12000 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 400hp and Up

