



ENTEK



HR³ 53mm Extruder

Medium lot-size custom compounding;
150 or 300 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 ²)	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
Closed Barrel Heat Zone	4.0 kW Aluminum	6.0 kW Bronze

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

