

HR³™ 73mm

Co-rotating Twin-Screw Extruder

High Rate, High Reliability, High Return -
Ideal for large lot-size custom compounding



Screws

Diameter	73mm
Rotation	Co-Rotating
Length	28-52 L/D
Screw Center Distance (mm)	59.5
Screw Do/Di Ratio	1.59
Flight Depth (mm)	13.5
Free Area, 2-Flight (cm ²)	31.0
Shafts	24 Tooth Involute Spline

Drive System

Std. Gearbox Ratios	2.00 / 2.93 / 3.84
Screw Speeds	900 rpm
Motor @ 1750 rpm	600 hp
Motor Equivalent in Watts	447 kW
Voltage Options	380 / 415 / 460 / 575 Volt
Standard Motor Controller	AC

Barrels

Form	Square, Flanged	
Length	292 mm	
Cooling	Internal Liquid Cooling	
Open Barrel Heat Zone	5.5 kW Aluminum	6.2 kW Bronze
Closed Barrel Heat Zone	6.6 kW Aluminum	8.0 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)	59 tons (746,820 kJ) [215 kW] @400 hp and 600 rpm
Typical Cooling	13.3 tons (168,350 kJ)
Est. Power Requirements*	601A Power, Minimum Breaker 800 Amps
Centerline Height	1120 mm [44 in]
Length, 48D	7110 mm [280 in]
Width	1205 mm [47.5 in]
Height (top of motor)	1480 mm [58 in]
Weight (approx.)	8160 kg [18000 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,

