



QC³ 43MM TWIN-SCREW EXTRUDER

Quick Change,
QC³ = Quick Clean,
Quality Control!

- **Designed with Customer Input to Provide What Compounders Need and Want:** Quick Change, Quick Clean, and Quality Control
- **Quick Change:** Allows for fast, easy screw-set changeovers. New self-alignment feature takes the worry out of installing the screws into couplings, and new design allows screws to only be installed one way – the correct way. All necessary tools for changeover and maintenance are mounted at point-of-use on the extruder
- **Quick Clean:** New extruder frame design deflects dust and keeps machine clean under the hood. With Stainless Steel and powder-coated surfaces the machine looks great today and 10 years from now. Optional device allows for fast, easy barrel cleaning
- **Quality Control:** All QC³™ 43mm twin-screw extruders are engineered and built at ENTEK's headquarters in Lebanon, Oregon U.S.A. Top-quality components manufactured here in our shop give years of top-quality performance
- **Better Compounding:** Increased production rates (33% higher output shaft torque) with 200HP/1,200rpm motor and increased screw OD/ID for compounding the most challenging formulations
- **Ease of Use:** SMART controls feature enhanced graphics, recipe library, trending software, and web-based connectivity for remote troubleshooting

The equipment pictured above does not contain all labels, including safety warnings, that are included on equipment at the time of delivery to our customers.

Specifications



Component	QC³ 43mm
Barrels & Screws	
Nom. 4D Barrel Segment Length	180mm
Barrel Bore Diameter	43mm
Screw Center Distance	35mm
Screw Major/Minor Ratio (Do/Di)	1.61
Barrel Fasteners (per barrel Flange)	(8) M16 socket head cap screws & socket nuts; (2) M12 dowels
Heater Fastener Size	M10 HHCS
Shroud Style	Interlocking with quick turn fasteners
Feed Chute Style	Quick remove style
Additional Features	Barrel cleaning device
Shafts	
Rated Shaft Torque	565 Nm
Screw Spline	36 tooth
Screw Alignment Feature	Standard screws can only be installed in the proper orientation (some screws may need to be flipped end-to-end, i.e. KB-VAR, CoF-E)
Shaft Coupler Spline	24 tooth
Shaft Coupler Alignment Feature	Quick alignment puck on shaft mates with coupler
Shaft Coupler Style	Double collet
Drive Train	
Max. Motor Power at 1200rpm	200 HP
Max. Gearbox Output Shaft Torque	565 Nm
Gearbox Torque Density	13.2 N-m/cm³
Shaft Coupler Guard	Quick open with retained quick-turn fastener
Motor Coupler Guard	Quick open with retained quick-turn fastener
Packing Plate Retention	Fastens into lantern
Additional Features	Optional water-cooled motor to reduce sound level; clutch standard
Lubrication System	
Oil Capacity	60L in gearbox (no external reservoir required)
Oil Cooling	Cooling coil inside gearbox
Pressure Relief	100 psi relief internal to lube pump; no bypass pressure relief required
Oil Filter	Donaldson medium pressure HMK04 series
Gauge Display	Integrated in frame gauge panel
Additional Features	Preheat option for cold ambient starting
Cooling System	
Cooling Manifold Pressure Regulation	Automatic back pressure control valve
Barrel Cooling Hoses	Stainless braided Teflon with ½" tube ends
Gauge Display	Integrated in frame gauge panel
Barrel Cooling Valve Control	Ethernet solenoid valve bank



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KEEPING THEM THERE.

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