QC³® 33MM TWIN-SCREW EXTRUDER

Quick Change, 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. Newly patented 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:** 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® 33mm twin-screw extruders are engineered and built at ENTEK’s headquarters in Lebanon, Oregon U.S.A. Top-quality components manufactured in our shop give years of top-quality performance
- **Better Compounding:** Increased production rates with 100HP/1,750rpm 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® 33mm
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**Barrels & Screws**
Nom. 4D Barrel Segment Length | 135mm
Barrel Bore Diameter | 33mm
Screw Center Distance | 26.9mm
Screw Major/Minor Ratio (Do/Di) | 1.61
Barrel Fasteners (per barrel Flange) | (8) M12 socket head cap screws & socket nuts; (2) M12 dowels
Heater Fastener Size | M8 HHCS
Shroud Style | Interlocking with quick turn fasteners
Feed Chute Style | Quick remove style
Additional Features | Barrel cleaning device

### Shafts
Rated Shaft Torque | 254 Nm
Screw Spline | 32 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 | Patented quick alignment puck on shaft mates with coupler
Shaft Coupler Style | Double collet

### Drive Train
Max. Motor Power at 1400rpm | 100 HP
Max. Gearbox Output Shaft Torque | 254 Nm (min)
Gearbox Torque Density | 13.1 N-m/cm³ (min)
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 feed barrel
Additional Features | Optional water-cooled motor to reduce sound level; clutch standard

### Lubrication System
Oil Capacity | 27L 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 3/8” tube ends
Gauge Display | Integrated in frame gauge panel
Barrel Cooling Valve Control | Solenoid valve bank

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Twin-Screw Extruders | Replacement Wear Parts | In-House Pilot Plant Services
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**ENTEK Extruders**
200 Hansard Avenue, Lebanon, Oregon, USA, 97355
Tel: 541-259-1068 | Fax: 541-259-8018 | www.enteke.com