## Parallel Twin Screw Extruder Specifications

### Drive Train
- **Number of Screws**: T93-26, T33, T172-33, T172-26
- **Screw Dia. (in/mm)**: 2.95/75, 2.95/75, 2.95/75
- **LD (From Downstream Edge of Feed Throat)**: 26.1/26.1, 33.1/33.1, 26.1/26.1
- **Direction of Rotation**: Counter-Rotating
- **Speed Range (rpm) (min-1)**: 0 to 50, 0 to 50, 0 to 50, 0 to 40, 0 to 40, 0 to 40
- **Total Available Torque Maximum (ft/lbs) (Nm)**: 6000/8135, 6000/8135, 6000/8135
- **Motor Rating (HP) (kW)**: 60/45, 60/45
- **Motor Base Speed (rpm) (min-1)**: 1750, 1750, 1750, 1750
- **Total Gear Reduction**: 1.625, 1.625, 1.625
- **Continuous Maximum Load (1) (lbs) (kN)**: 42700/190, 42700/190, 42700/190
- **Short Term Maximum Load (1) (lbs) (kN)**: 50200/223, 50200/223

### Electrical
- **Throughput Rates**: 0 to 40, 0 to 40, 0 to 40
- **Drive Train**: Extruder Drive, Barrel Heat Zones, Die Heat Zones
- **Main Drive Motor (460V/3 Phase/60Hz) Amps**: 230/60, 230/60, 230/60
- **Isolation Transformer for AC Drive & Motor (3) (kVA)**: 51/75, 51/75, 51/75
- **Total Number of Barrel Heating Zones**: 6, 6, 6
- **Total Barrel Cooling Capacity**: 28, 36, 59
- **Number of Screw Temperature Control Zones**: 1, 1, 1
- **Total Screw Heating Capacity (Watt/hr) (kW/hr)**: 8/6, 96/96, 96/96
- **Number of Die Zones including Entry Adapter (5)**: 8, 8, 8
- **Total Die Heating Capacity - Standard No. Die Zones (5)**: 51, 51, 51
- **Minimum Water Pressure (psi) (bar)**: 50, 50, 50
- **Maximum Water Temperature (deg F) (deg C)**: 68, 68, 68
- **Average Water Consumption (gpm) (m³/hr)**: 15, 15, 15
- **Vacuum Pump (HP) (kW) (6)**: 3, 3
- **Type**: Liquid Ring
- **Dual Vent Capability**: No, Yes, Yes
- **Water Drain Connection Pipe Size (in)**: 0.5, 0.5, 0.5
- **Vacuum Pump Exhaust Pipe Size (in)**: 1.625, 1.625, 1.625
- **Water Supply Connection Pipe Size (in)**: 0.5, 0.5, 0.5
- **Water Drain Connection Pipe Size (in)**: 0.5, 0.5, 0.5

### Vacuum
- **Wash Water Connection Pipe Size (in)**: 0.5, 0.5, 0.5

### Air & Water
- **Average Cooling Tower Load (tons) (kW)**: 6, 21, 6, 21
- **Total Length without Entry Adapter (in/mm)**: 150.5/3823, 208.0/5101, 226.5/5752, 243.8/6192
- **Width (in/mm)**: 56.8/1443
- **Height with Doser Feeder & Hopper (in)**: 102.5/2604
- **Extrusion Height Center Line (in)**: 43.3/1100
- **Extruder Weight, Approximate (lbs) (kN)**: 11,600/3262
- **Rigid PVC Profile (lbs/hr) (kg/hr)**: to 1.000, to 1.000, to 1.000
- **Rigid PVC Siding (lbs/hr) (kg/hr)**: to 720, to 720, to 720
- **Rigid PVC Sheet-Solid (lbs/hr) (kg/hr)**: to 720, to 720, to 720
- **Flexible PVC Pelletizing (lbs/hr) (kg/hr)**: to 1.200, to 1.200, to 1.200

### Application Throughput Rates
- **Wood (Natural) Fiber Plastic Composite (lbs/hr) (kg/hr)**: NA, NA, NA

### Notes:
1) Per screw.
2) Main drive motor load also includes barrel and screw oil zones at 460/3/60.
3) Isolation transformer highly recommended for protection of extruder drive.
4) Main drive motor load also includes barrel and screw oil zones at 460/3/60.
5) Auxiliary exhaust fan required to meet rated throughput.
6) On TP115 and larger, for high HP pumps, vacuum pump should be upgraded one size larger. For WPC applications, vacuum pump should be 10 HP.
7) Continuous Maximum Load (1) (lbs) (kN): 42700/190, 42700/190, 42700/190
8) Short Term Maximum Load (1) (lbs) (kN): 50200/223, 50200/223
9) Rigid PVC output rates are based on average formulations with a bulk density of 40 lbs/ft³ or 640 g/L. All throughput rates are dependent on formulation, tooling, and downstream. Laboratory trials should be conducted to determine specific throughput range for a given application.