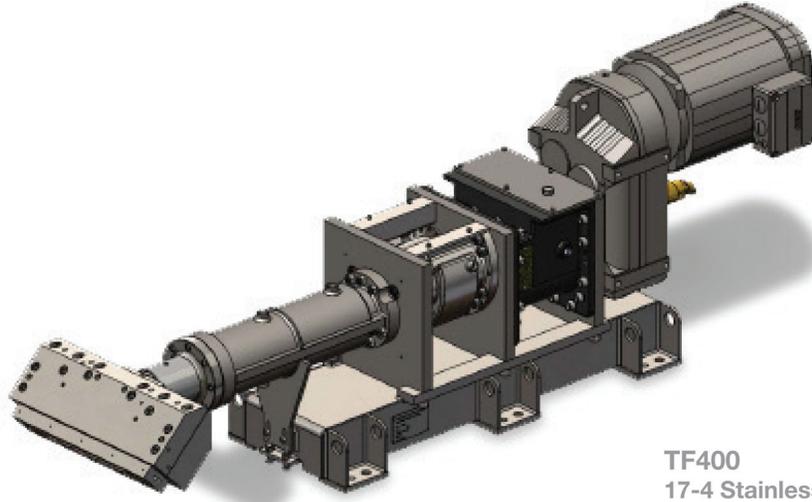




# TF400

## 4" TWIN FEED EXTRUDER



**TF400**  
17-4 Stainless Steel Extruder available in models from 4:1 – 16:1 length over diameter.

### **TF400**

The Diamond America **TF400** Cold Feed Extruders provide high performance that can deliver up to **33,000 in<sup>3</sup>/hr**. The TF400 features a four-inch diameter barrel screw, simple controls, improved serviceability and twin counter-rotating packing screws to keep material moving into the system. Its optional mobile cart allows the TF400 to be positioned wherever needed for use and an open, maintenance-friendly design ensures maximum uptime.

### **Common Applications & Materials** *(melting not required)*

- » Adhesives & Sealants
- » Biomass materials
- » Carbon & Coal
- » Catalysts
- » Ceramics
- » Chemicals
- » Feedstock
- » Food
- » Grains
- » Inorganic materials
- » Laboratory
- » Pharmaceutical
- » Pet Food & Treats
- » Purification & Filtration
- » Recycling
- » Rubber
- » Silicone
- » Waxes

### **Robust, Reliable, & Easy To Maintain**

- » High quality materials of construction and exceptional engineering with tight tolerances reduces wear, maintenance, and downtime.
- » Modular, open, hygienic design for easy cleaning.
- » High capacity bearings with increased pressure capability meet aggressive demands.
- » Gear motors eliminate belt slippage for continuous performance
- » All material contact components made from Food Grade Stainless Steel.

# Features & Benefits

## Extrusion Screw

4" diameter extrusion screw made from 17-4PH H1150 stainless steel, hard-faced flight O.D. for increased life. Screws are available slotted or continuous based on the type of material to be processed. Screw can also be bored for cooling or heating.

## Extrusion Barrel

Available with serpentine flow channels or open jacket for liquid heating or cooling, and without jacket for electric band heating. Barrels are available with smooth or grooved, hardened Stainless Steel liners, with or without mixing pins. Barrels can also be manufactured to accept pressure/temperature probes.

## Packing Screws

Counter-Rotating Packing Screws provide a positive feed with a consistent flow of packed material, minimizing starvation and non-uniform extrudate. Packers allow one extruder to process a wider range of materials, eliminating added capital equipment cost.

## Hopper

17-4 Stainless Steel with a 6" X 10" opening. Hopper is also machined to accept liquid cooling or heating.

## Drive Motor

Nidec uni-drive AC drive motor with bright, easy to read LED keypad and speed reference potentiometer.

## Gear Motor

SEW-Eurodrive 25HP AC gear motor with 55 RPM top speed and 28,500 pounds of torque per inch.

## Controller

Custom built controllers with bright, easy to read LED keypad and a speed reference potentiometer.

# Technical Data

DA Extruder	Screw Diameter	Packing Screws	Hopper Size (inches)	Footprint (inches)	Max Volume (in <sup>3</sup> /hr)	Motor HP	RPM Max	Torque lbs./inch	Minimum Electrical
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<b>TF400</b>	4"	2	6 x 10	26.25 x 74.84 x 35.5	33,000	25	55	28,500	240/480 / 3PH
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<sup>1</sup> TT100 / SF100 / TF100 do not have barrel liners, jacketed hopper, or serpentine flow circuit. Barrels are jacketed for fluid circulation/temperature control.

**Dies**



**Packing Screws**



**Cutters**



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