

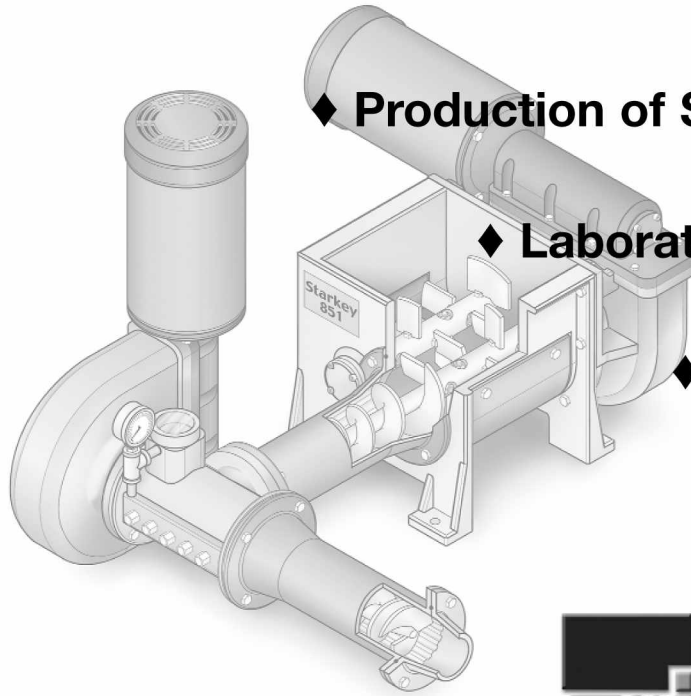
Model 851 Pugmill/Extruder

◆ Research & Development

◆ Production of Small Items

◆ Laboratory Testing

◆ Pilot Plant



starkey
smi machinery
incorporated

General Information

The Model 851 Pugmill/Extruder is designed for the production of small items, research, quality control, product development, and pilot plant applications.

- ◆ Stainless Steel Shafts, Augers, Paddles, Shredders, Barrels and Vacuum Chamber
- ◆ Barrels and Vacuum Chamber fit easily in a standard utility sink for cleaning
- ◆ *Viton*[®] Shaft Seals throughout resist wear, chemicals, pressure and heat
- ◆ Output per hour is between 250# and 450#, depending on material characteristics and composition
- ◆ ABEC 9 Angular Contact Thrust Bearings in both the Hopper and Vacuum Chamber
- ◆ Motor speeds can be controlled independently with optional variable frequency drives.
- ◆ Double-drive design allows motors to be started and stopped independently

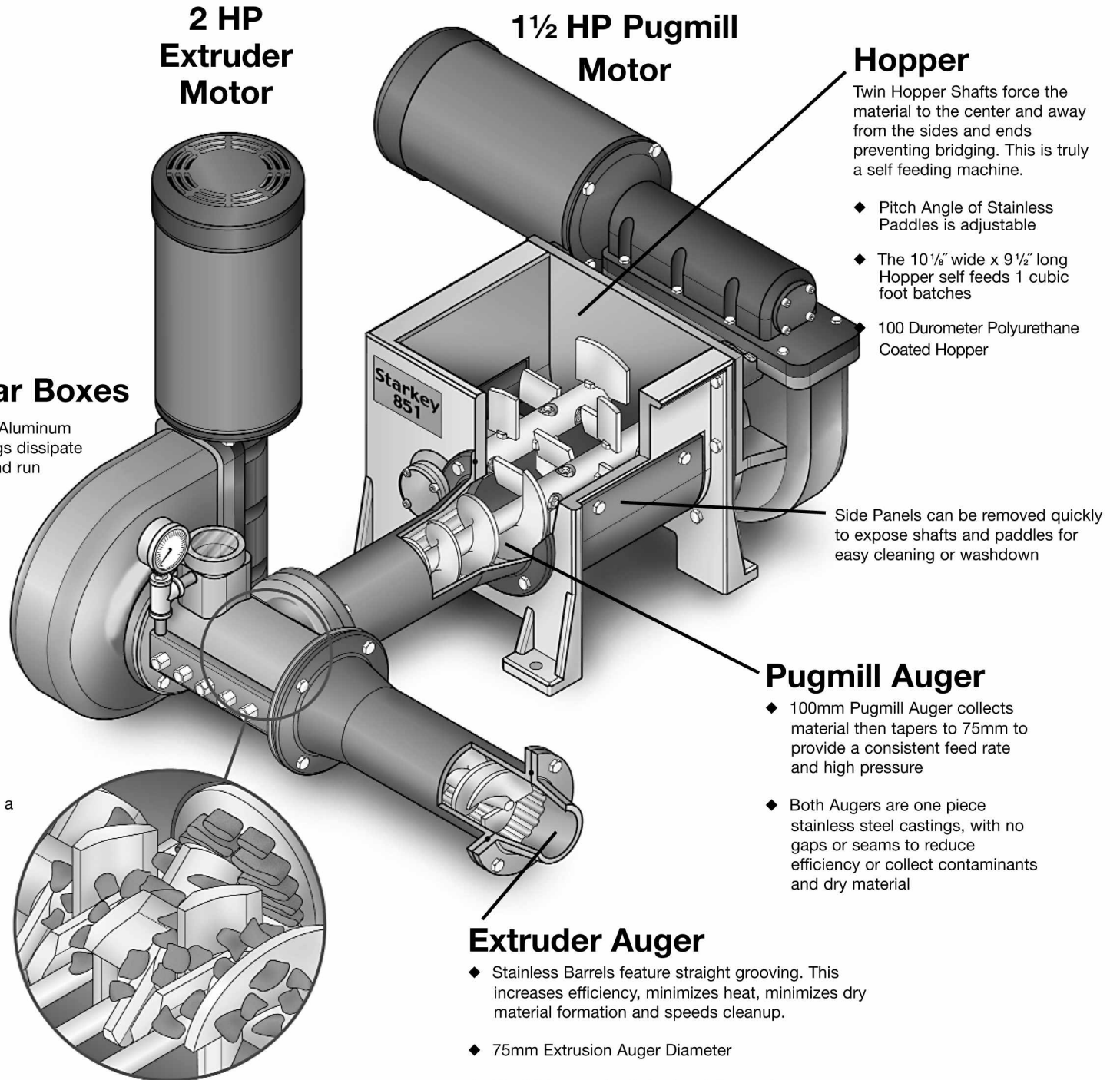
Vacuum Chamber

Material is shredded twice under vacuum, once by a slotted plate and then by a series of shredders.

- ◆ 100mm Diameter Vacuum Chamber
- ◆ Viewing window allows visual observation of Vacuum Chamber
- ◆ *Viton*[®] Vacuum Seals are rated at 6 times the pressure of Vacuum
- ◆ "O" Ring Seals on all Joints

Gear Boxes

Heavy Aluminum Castings dissipate heat and run silently.



2 HP Extruder Motor

1 1/2 HP Pugmill Motor

Hopper

Twin Hopper Shafts force the material to the center and away from the sides and ends preventing bridging. This is truly a self feeding machine.

- ◆ Pitch Angle of Stainless Paddles is adjustable
- ◆ The 10 1/8" wide x 9 1/2" long Hopper self feeds 1 cubic foot batches
- ◆ 100 Durometer Polyurethane Coated Hopper

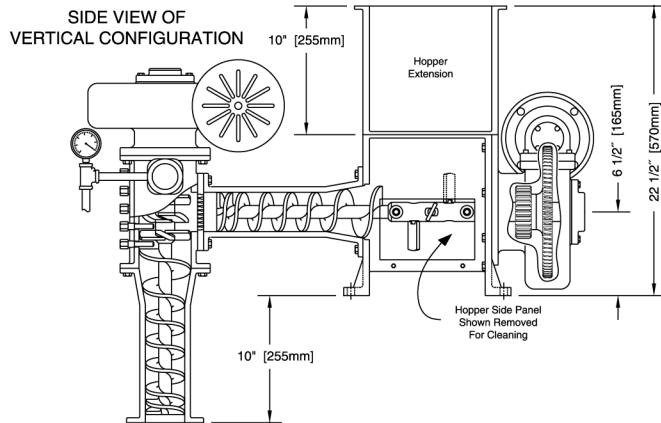
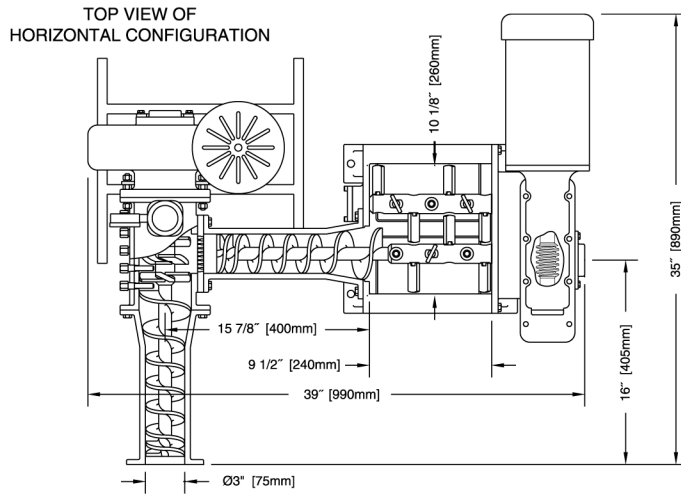
Side Panels can be removed quickly to expose shafts and paddles for easy cleaning or washdown

Pugmill Auger

- ◆ 100mm Pugmill Auger collects material then tapers to 75mm to provide a consistent feed rate and high pressure
- ◆ Both Augers are one piece stainless steel castings, with no gaps or seams to reduce efficiency or collect contaminants and dry material

Extruder Auger

- ◆ Stainless Barrels feature straight grooving. This increases efficiency, minimizes heat, minimizes dry material formation and speeds cleanup.
- ◆ 75mm Extrusion Auger Diameter
- ◆ The 851 can extrude horizontally, as shown, or vertically



Pugmill Extruder

HP	1.5	2
Voltage, 3 phase	208-230/460	208-230/460
AMPS	5.7 - 2.85	6.2 - 3.1
Auger RPM	14.43	21.83

General

Machine Weight / lbs.	325#
Mat. Output per/hr.	250-450 lbs./hr.
Tools required to disassemble for cleaning	2- 9/16" Wrenches
	1- 5/8" Wrench
	1- Flat Screwdriver
	1- Plastic Putty Knife
Control Panel	Included
Variable Frequency Drives	Optional
Vacuum Pump	Optional



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