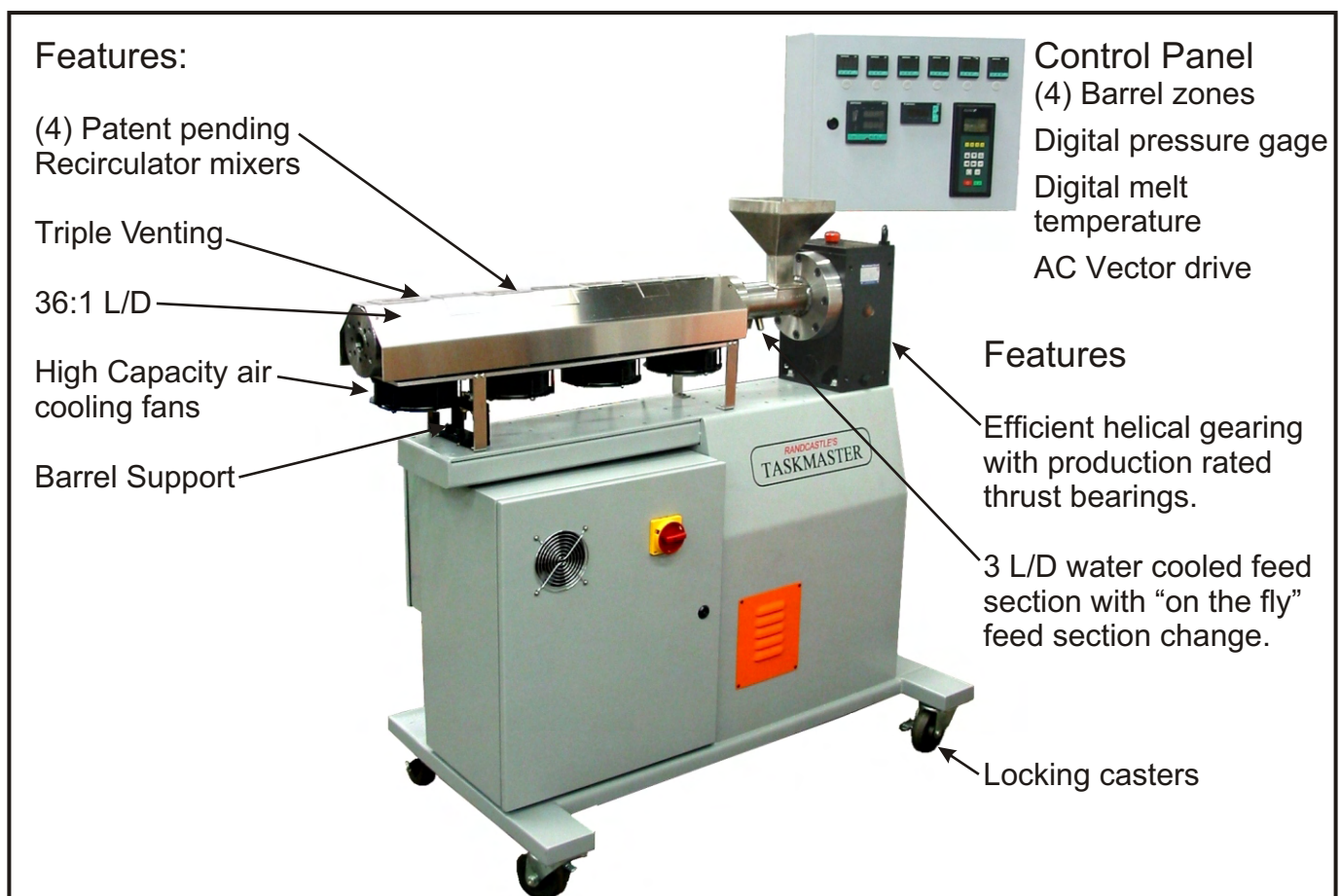


RANDCASTLE'S *Taskmaster*

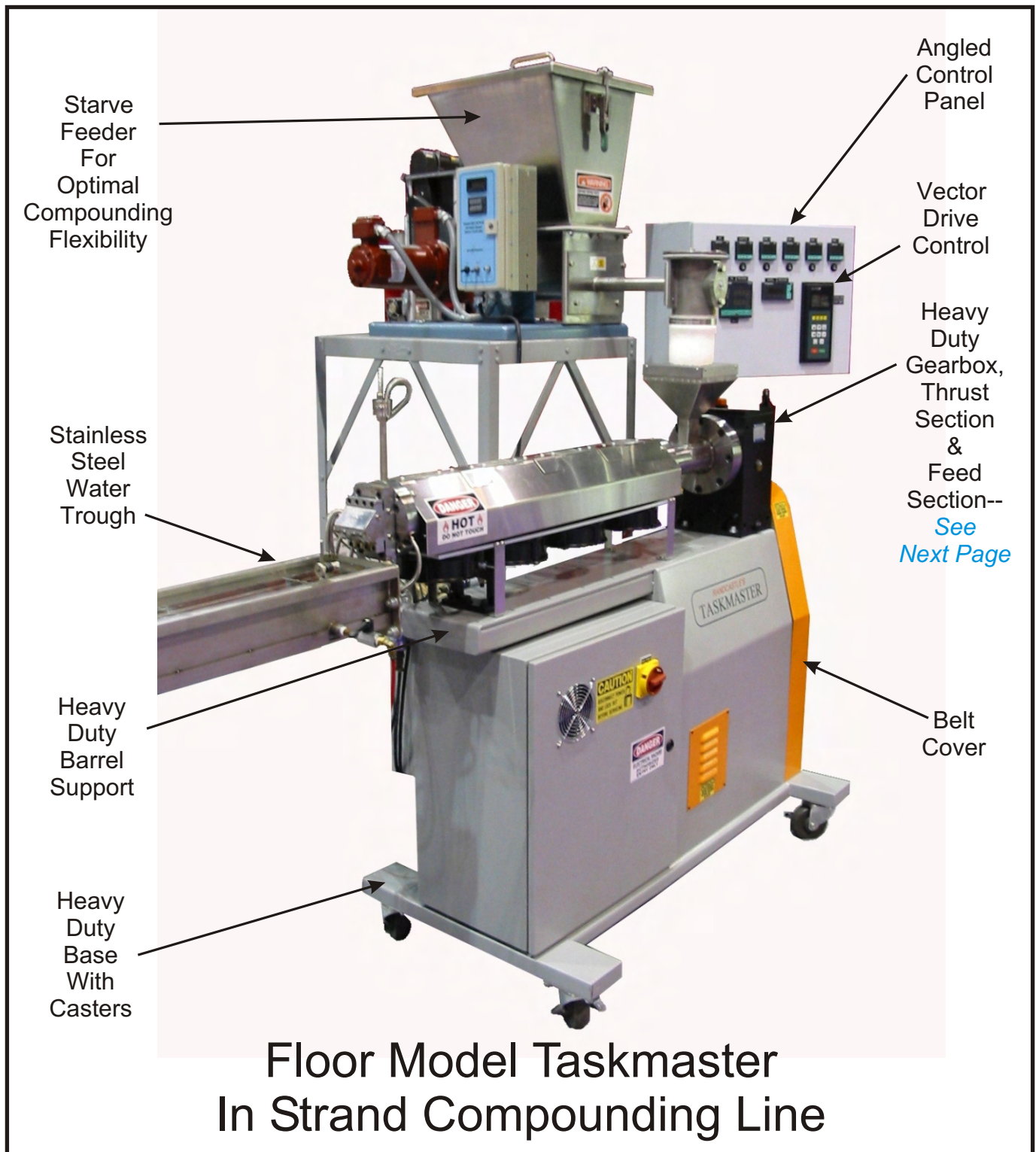
The 36:1 L/D Taskmaster can do more than any other single screw extruder mixing and devolatilizing like a twin with triple vents. The patent pending mixing technology, previously available only for our vertical line, is now available for our horizontal line of extruders.

The Taskmaster comes packed with features. Compounding takes energy and the Taskmaster is an energy transfer device. Unlike other single screw extruders where energy is primarily generated by shear, the Taskmaster uses elongation--the same dispersive mechanism used in twin screws. Like a twin screw, the elongational compounding starts early in the screw at high controlling modulus in our Recirculator mixing element. Here, the elongation is repeated many times within each of the four mixing elements. Screw speed up to 280 RPM and 7.5 HP.

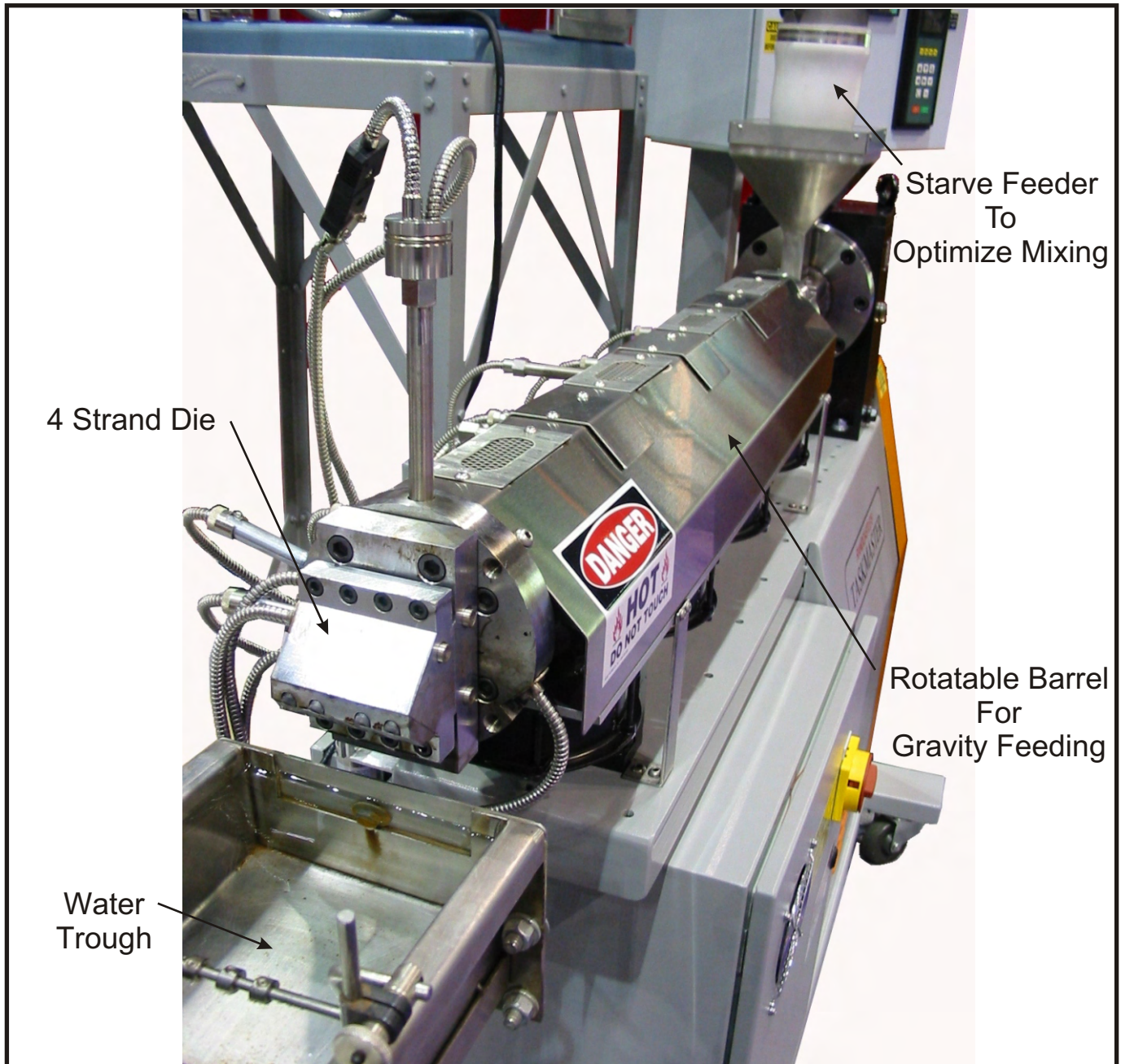
Feed flexibility is standard on the Taskmaster. Suppose you picked too low a compression ratio screw and the pressure keeps dropping to zero. Simply stop the extruder, change part of the barrel feed section in about a minute, and then start up with increased feeding and stable pressures. No need to change the screw.



RANDCASTLE'S 1 Inch Taskmaster



RANDCASTLE'S 1 Inch Taskmaster



Floor Model Taskmaster
In Strand Compounding Line

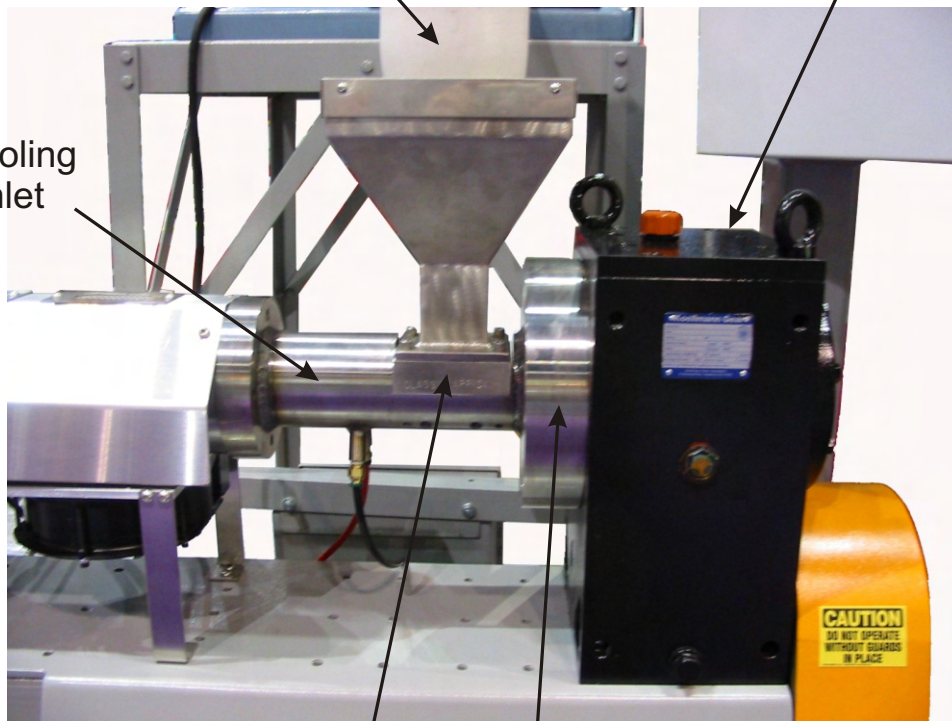
RANDCASTLE'S

1 Inch Taskmaster

Feeder Outlet

Bearing Life: L10-Life @ 100 RPM
and 5,000 PSI is 260,000 @ 150F
oil temperature.

3 L/D Cooling
After Inlet



Exchangeable Feed Inlet
*Change from top dead center
to tangential, to grooved and
various proprietary designs.*

Optional water cooled flange for
high temperature inlet materials.

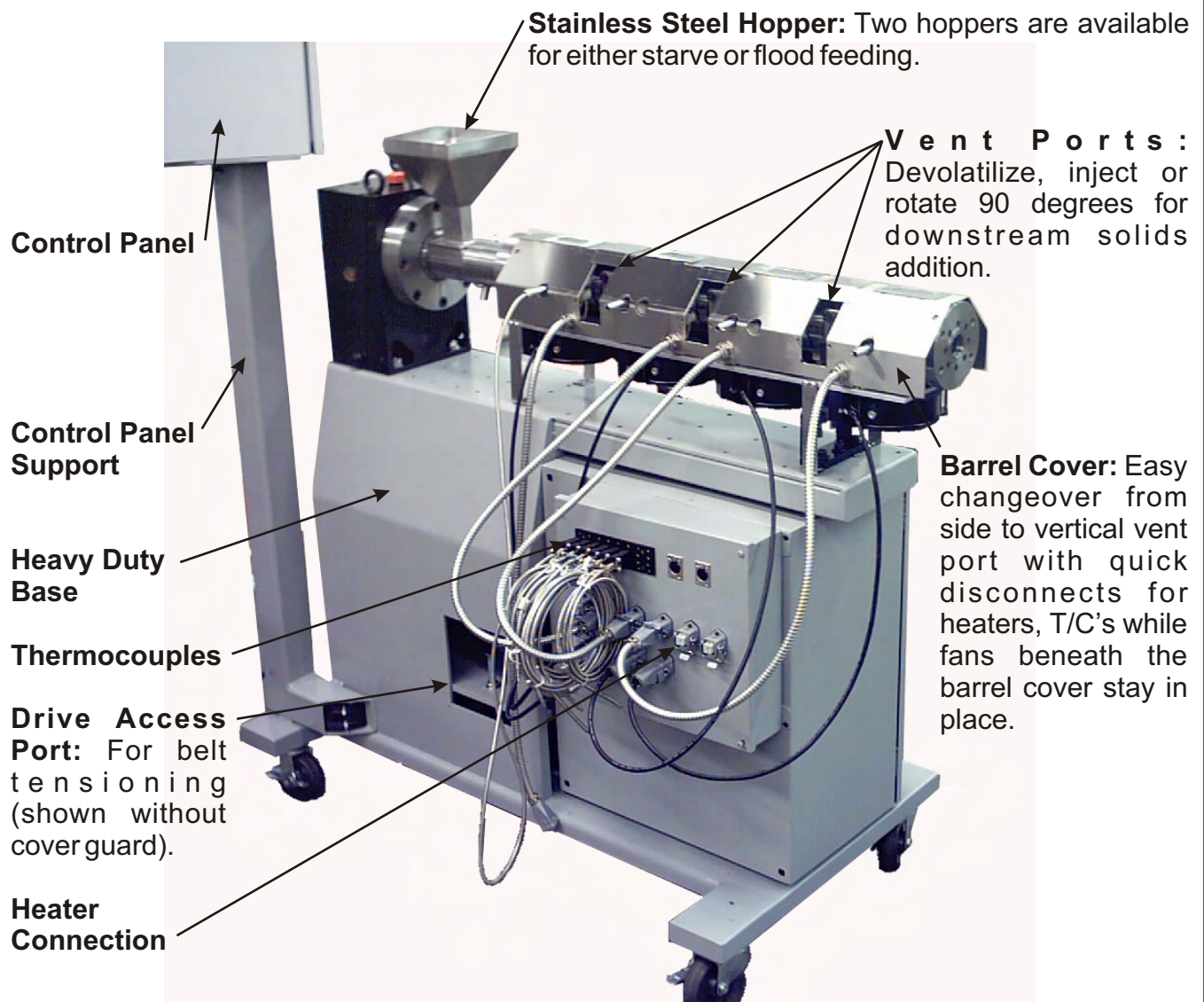
Floor Model Taskmaster
Feed Section & Gear Box Detail

High Pressure Development: Unlike twin screw compounders, the Taskmaster builds all the pressure you need to make film, sheet, coat wire, coextrude, etc.. Downstream systems are available for all lab applications in bench and floor model designs.

Flexible Vent Ports Design: The three vent ports are multi-purpose design. Besides devolatilization, connect to a gear pump for liquids injection. Or, rotate the barrel 90 degrees for multi-stage gravity solids feeding. The quick disconnect heaters, thermocouples and barrel cover make for fast changeover while the cooling fans are left in place.

Recirculator Mixing Elements: The key to our new compounder is the Recirculator Mixing Elements. Please see the information in our Microtruder brochure (Recirculator Mixing Element, Recirculator Results) and in the compounding paper on this disc for additional information.

Rear View Of Taskmaster



For more information on Randcastle's line, contact:

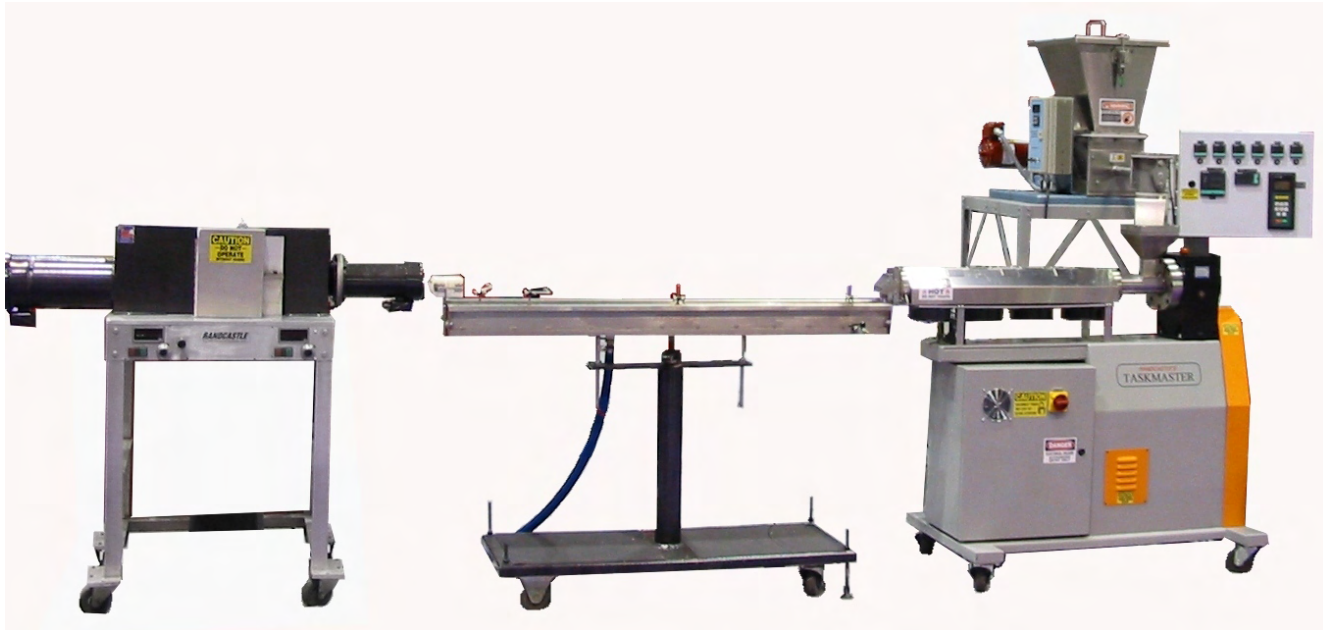
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Web Site: www.randcastle.com

RANDCASTLE'S

1 Inch Taskmaster

Compounding Line



RCP-2.0 Pelletizer
with dual drives

5 foot stainless
steel water trough

1 Inch Taskmaster
with starve feeder

See the line run in [Taskmast.mpg](#)

Floor Model Taskmaster
In 4 Strand Compounding Line

