



Vertical Form Fill Seal Machinery Comparison Matrix

Suggestions for use

- 1. Print these sheets on 11X17" paper**
- 2. Use the comparison matrix to identify attributes that are important qualifications or selection criteria for your application**
- 3. Consider a full range of machines. This is not intended to just compare Rovema machines. In fact we don't even offer machines in the "basic" category, but have included that because it's an adequate solution for some applications**
- 4. Find the best machine for your requirements!**

Vertical Form / Fill / Seal Machine Capability Matrix



Attribute	Basic	Intermediate	Advanced
Speed (max & normal)	< 60 PPM < 60 PPM	<100 PPM 75 PPM	150-200 PPM 80-150 PPM
Intermittent or Continuous Motion	Intermittent	Intermittent	Continuous
Controls	Low tech, minimal or no diagnostics available through operator controls	HMI with partial diagnostics & data collection capability	Allen Bradley or PC based HMI with full machine diagnostics and data collection capabilities
Drive	Mix of mechanical	Full electronic motion control through servo driven axes capable of automatic fault recover through zero positioning	Full electronic motion control through servo driven axes capable of automatic fault recover through zero positioning
PLC	Maybe	Rockwell / Allen Bradley or proprietary platform	Yes (or PC)
External interface	Yes, with scales, bag transfer, cartoner slave, coupon inserter, UPC scanner, date coder	Yes, with scales, bag transfer, cartoner slave, coupon inserter, UPC scanner, date coder	Yes, with scales, bag transfer, cartoner slave, coupon inserter, UPC scanner, date coder
Changeover time	Slowest	Minimal tools or toolless <10 minutes	Minimal tools or toolless <10 minutes
Multi-shift reliability	Two shift adequate reliability	Three shift high reliability	Three shift high reliability
Nema	12	12 (optional 4)	12 (optional 4)
UL (or CE)	Maybe	Yes	Yes
Guarding	Enclosed with limited access	Totally enclosed with easy access for service	Totally enclosed with easy access for service
Fit & finish	Average	High	High
R&L hand version available	Probably not	Yes	Yes
Interface with plant data collection systems	No	Probably not	Yes
Maximum noise level			90db
Energy & pneumatic efficient design			Yes
Specs & Features to Research			
Film - runs full range	Forming sets	Jaw profiles	Interfaces
HDPE, OPP, metalized, Nylon	forming set manufacturers	heat seal / impulse / ultrasonic options	discharge belt
from 1.5 - 5.0mil	ease of changeover	jaw weight operational data	data reporting
thinnest film it can run	tolerances in the shoulder / tube	use of heat pipes or other heat transfer devices	MAP
Film carriage	dust collection design considerations / awareness	ease of replacement thermocouples	available solutions
type of power unwind	gusseting fingers	ease of replacement heater elements	supplier responsibility
pinch film drive feed	gusseting plows	wiring protection / wash down	Gusseting devices
dancer arm assembly design	Linear seal	how are they manufactured	servo, mechanical, air or other
number of film rollers & length of film path to forming set	type of drive and control	types of knives, action, drive	design of plows
accept up to 26" web & 400 lb roll	band seal single? dual long & short	how are jaws hardened	repeatability of action
film car options	hot air, wheel, other	how are jaws coated	changeover
film splicing table design	Sealing controls	how easy are they to move	types of adjustments
printer capabilities	product detection		Package types
registration capabilities	variable pressure sealing		how many configurations can be run on the machine
film tracking solutions (photo eye or ultrasonic)			
position of film tracking			
adjustable roller or carriage movement for tracking			

Your Critical Factors

Your Critical Factors