



KS-HSUP-400

Compact, single lane, quick changeover pouch machine, designed for medium/long-run high performance production of:

- 2-side-seal pouches with/without zipper**
- 3-side-seal pouches with/without zipper**
- Stand-up pouches with/without zipper**

Machine Specifications

Description	Specs
Machine useful working width, mm (inches)	420mm (16.53")
Main reel width, mm (inches)	Max. 840mm (33.07")
Main reel core int. diam, mm (inches)	76mm (3") (optional 152mm - 6")
Main reel ext. diam, mm (inches)	800mm (31,49")
Materials specs*	PET, ALU, PA laminated with PP or PE
Material thickness, μ	55 μ - 200 μ
Installed power, Kw	3ph + N, 400V, 50/60Hz – 42 Kw
Air requirement, L/min	6Bar/90PSI 15L/min
Area of installation (LxWxH), mm	~ 11000x2000x2200mm
Mechanical speed	200cpm
Machine compliance	CE (UL/CSA upon request)

* Other laminate structures are possible and should be discussed with Karlville team

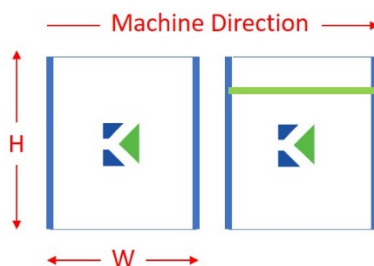
Main features

- Compact machine (short and narrow).
- Easy to machine to operate and control; since all the stations and modules are very accessible.
- Very low scrap rate during machine start-up. Machine has integrated ramp speed that is controllable through the HMI. This allows the machine to run at high speeds consistently after being setup at lower speed (reducing waste). Also, provides maximum film control when starting and stopping at high speeds.
- No maintenance flying knife (no-tool fast blade replacement); guillotine available as optional for paper pouches production.
- Machine equipped with independent servo motor for each film feed drive (standard is 3 servo system).
- One servo motor for longitudinal sealing/cooling section and one servo motor for cross sealing/cooling section; alternatively (as option on specific request) all stations can be independently servo controlled.
- Low maintenance requirements; easy access to all stations for maintenance.
- Initial reject discard function to prevent operator confusion with badly sealed pouches on start-up, film is discarded by double feeding for a selected distance after the cutter.
- Digital printing friendly, compliant to Industry 4.0, CE Certified (UL/ CSA upon request).

Pouches

Pouches that can be manufactured on the machine:

2-side-seal pouches (from 1 web folded)

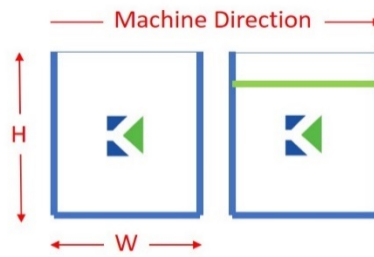


	Metric (mm)		Imperial (inch)	
	Min.	Max.	Min.	Max.
○ 1-up without zipper				
○ 1-up with zipper				
○ Width range (W)	80	350*	3,14	13,77*
○ Height range (H) without zipper	80	400	3,14	15,74
○ Height range (H) with zipper	160**	400	6,29**	15,74

*** Width can be increased with skip sealing function (included in the software)**

**** Min. height 100mm (3,93") with adjustable V board position**

3-side-seal pouches (from 1 web folded)

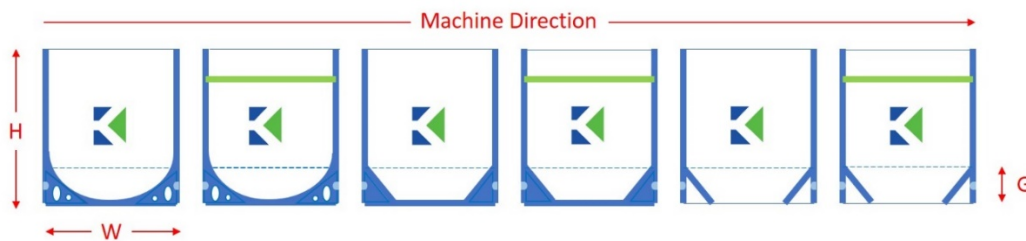


○ 1-up without zipper	Metric (mm)		Imperial (inch)	
○ 1-up with zipper	Min.	Max.	Min.	Max.
○ Width range (W)	80	350*	3,14	13,77*
○ Height range (H) without zipper	100	400	3,93	15,74
○ Height range (H) with zipper	160**	400	6,29**	15,74

* Width can be increased with skip sealing function (included in the software)

** Min. height 100mm (3,93") with special tool for bottom seal and adjustable V board position

Stand-up pouches (from 1 web folded)



○ 1-up without zipper	Metric (mm)		Imperial (inch)	
○ 1-up with zipper	Min.	Max.	Min.	Max.
○ Width range (W)	80	350	3,14	13,77
○ Height range (H) without zipper	100	375	3,93	14,76
○ Height range (H) with zipper	160**	375	6,29**	14,76
○ Gusset depth (G) folded	25	65	0,98	2,55

** Min. height 100mm (3,93") with special tool for bottom seal and adjustable V board position

Advantages

- Compact machine not only in terms of dimensions, but also due to the limited amount of material (linear meters) in the machine bed.
- Ease to use for new-in-the-job operators.
- Increased productivity especially for medium and long jobs.
- Reduced scrap rates during machine start-up, changeovers and roll changes.
- Machine with a very intuitive software and simple HMI (innovative set-up mode).
- All temperatures are controlled via the HMI touchscreen. Machine can store hundreds of preset recipes for quick changeovers.
- Tool-less machine: Replacing sealing and cooling dies does not require tools which allows for easy and fast job changeovers.

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- Motor driven unwind with tension control to maintain constant tension throughout the unwind station.
- Ultrasonic edge guide system for smooth and consistent web tracking.
- Nip rollers are servomotor driven and pneumatically adjustable for excellent film control as it passes through the machine. 3 Servo driven draw rollers.
- Machine has eye mark sensor for precise positioning of sealing and punching. Machine has linear potentiometer-controlled dancer arms in conjunction with the nip rollers to adjust for print repeat issues. This equates to very little movement and ability to help correct bad repeats for consistent pouch production.
- Pouch general tolerance $\pm 1\text{mm}$ (length/width/height).

Layout

