

KS7

Single End Sizing Machine

Features

- Developed to size various fibers, spun yarns (cotton, silk, hemp etc.) as well as a variety of filaments yarns to prevent fuzz, improve strength and sustain elongation properties.
- Links three processes (coating {sizing}, drying and winding) into one machine.
- Dramatically improves efficiency, quality and space saving.



Specifications

Note	Type	Steam Heater Type			Electric Heater Type			Note	Type	Steam Heater Type			Electric Heater Type			
		3	6	12	3	6	12			3	6	12	3	6	12	
Performance (on the machine)		3	6	12	3	6	12	Motor and Heater		3	6	12	3	6	12	
Yarn Speed	m/min	50~550 *Yarn speed depends on yarn count						Main Motor	KW	1.5	2.2	1.5	2.2			
Sizing pump flow rate	L/min	15						Sizing pump motor	KW	0.4						
Fan flow rate	m ³ /min	8.0	13.3	26	8.0	13.3	26.0	Fan motor	KW	0.25	0.75	1.5	0.25	0.75	1.5	
Drying chamber temp	°C	50~80max						Drying chamber heater	KW	_____			8	15	30	
Sizing tank temp	°C	MAX 80						Sizing tank heater	KW	_____			2	4	4	
Drying chamber yarn	m	About 380						Steam arrangement capacity	KCA 1/H	1000	19000	35000	_____			
Sizing tank capacity	L	20	40	20	40			Steam pressure	Kg/cm ²	MIN. 4.5			_____			
Winding system		Each spindle individual driven						Voltage	v	Can comply with customer requirements (AC200V, 380V, etc.)						
Winding capacity	Kg	1.0 (5" or 6" traverse) Optional cone winding available						Total electrical capacity	KVA	4.7	5.6	8	14.7	24.6	42	
Stop motion function		On yarn breakage, yardage counter set point, and other misc. alarms						Dimension (Setting Space) and Weight								
Yardage counter		Each spindle equipped with yardage counter; yardage displayed on operation						Length	mm	3035	4175	6455	3035	4175	6455	
								Width	mm	1235						
								Height	mm	1700						
Working by the user		1) Connect the primary power source 2) Working duct (next blower) 3) Arrangement of feed water and drain 4) Piping to the inlet valve piping drain side (next trap-only steam heater type)						Weight	Kg	1390	1700	2200	1390	1700	2200	

Please contact Izumi International, Inc. for special requirements

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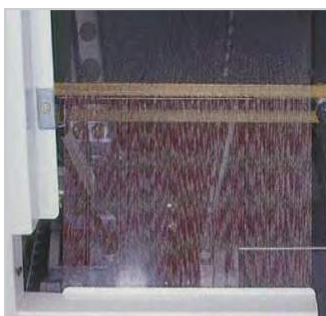
Single End Sizing Machine

Details



Winding

Drum Winding
Winding width of 5 or 6 inch
Wind up to 1.2kg/package



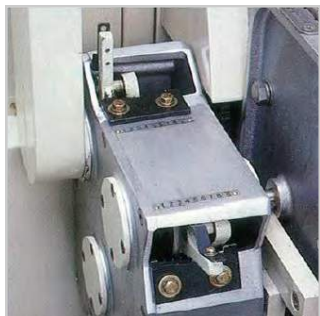
Drying Chamber, Reel

Reel advances fiber 1mm at each rotation. Yarn length inside chamber is 380m. Yarn breakage sensor and full package stop motion switch is adjustable. Reel taper is adjustable to prevent excessive tension caused by yarn shrinkage.



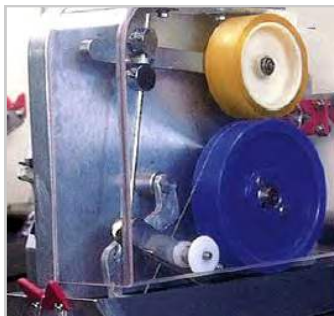
Tension

Accurate tension control contributes to good form and shape of wound package.



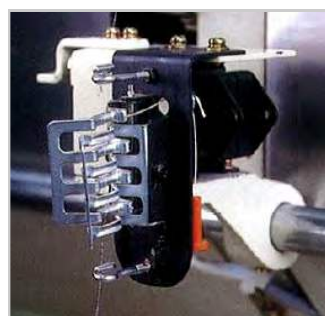
Gear Box

Feed roller and winding drum speed adjustable in 8 levels, at pitch range of 0.5%. (percentage based on drying chamber reel speed)



Sizing Bath

Sizing is applied by submerging fiber through sizing bath, squeezing excess sizing off by means of SUS squeeze plates. Sized yarn runs between 2 rollers (feed-roll & squeeze roller) to allow sizing to penetrate core of material. The squeezing pressure is adjustable. The feed roller is adjustable in 8 different speeds via the gearbox.



Gate Tensioner

Reduction of tension fluctuation of the yarn before reaching the sizing bath is controlled via the gate tensioner.



Operation Panel

Operation via touchscreen panel. Speed/temperature indications and settings, yardage counter settings can be adjusted via touchscreen panel as well as viewing alarm conditions.



Hot Air Circulation System

Hot air supplied to each drying chamber and re-circulated to enhance efficiency. Temperature settings adjusted via operation panel.

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