

## HSD-961 HIGH SPEED DRAW FRAME



## MAIN SPECIFICATIONS

Specifications		Model	
		HSD-961	HSD-961AL
Autoleveller		Without	With
No. of Delivery		One Head Two Deliveries	
Fiber Length		22~57 / 57~80 mm	
Draft System		5 over 4 With Pressure Bar / 4over 3	
Draft Range		5~14	
Sliver Doublings		6~8	
Delivery Speed		Up to 850 M/min	
Roller Weighting		Top Arm Spring System	
Can Changer		Automatic Can Changer	
Creel		Positively Driven	
Stop Motion		Photo Cell, Limit switch	Ditto & Control by Computer
		Creel individual sliver breakage sensor for option	
Motor	Main Motor / Inverter	5.5 KW x 4P / 7.5 KW	
	Can Changer Motor	0.2KW x 4P	
	Pneumatic Motor	0.75 KW x 2P	
	Servo Motor	Without	1 KW / Each Delivery
Feed Can	Diameter mm (inch)	408 (16")~1016 (40")	
	Height mm (inch)	914 (36")~1270 (50")	
Coiler Can	Diameter mm (inch)	229 (9"), 305 (12"), 356 (14"), 406 (16"), 457 (18"), 508 (20"), 610 (24")	
	Height mm (inch)	914 (36"), 1067 (42"), 1143 (45"), 1219 (48"), 1270 (50")	
Clearer	Top Roller	Intermittently revolving cloth	
	Bottom Roller	Swinging rubber tube	
Machine Width x Depth mm		2120 X 950 (9"~20"), 2280 X 950 (24")	
Machine Height mm		1493(36"), 1645 (42"), 1720 (45"), 1797 (48"), 1848 (50")	

Design and specifications are subject to change without notice

## FEATURE

- An Inverter controls main motor speed, it is not necessary to change pulleys when adjusting the delivery speed. It enables speed stably and more smoothly when start or stop the machine.
- Special design on the slot of coiler tube, to guide the sliver more smoothly and get sliver appearance better and improved the evenness of sliver.
- Oil bath system are employed in gear boxes of both Gear End and Out End, during high speed operation to keep the best performance, lower components worn out and noiseless operation.
- Automatic cleaning device and blowing-off device for drafting system, promote excellent sliver quality.
- Wide and versatile drafting range can be easily adjusted according to the producing condition.
- The machine is fully equipped with safe stop motion and indicator to control the quality of sliver.
- 5 over 4 with pressure bar drafting system provide wide drafting range. The gauge of pressure bar can be easily adjusted to stabilize the sliver evenness.
- The whole new PLC gives the facilities for simple wiring and easy maintenance.
- Top arm with spring pressure provides stable pressure on top rollers, easier adjustment and improving quality.
- Special design of gatherer and reducer are easily mounting and dismounting.
- Top clearer cloth and rubber tube device, automatic clearing device and blowing off device for drafting system with minimum air loss design can clean drafting effectively.
- The computer full-screen display panel allows all the machine information you need to show in a place.



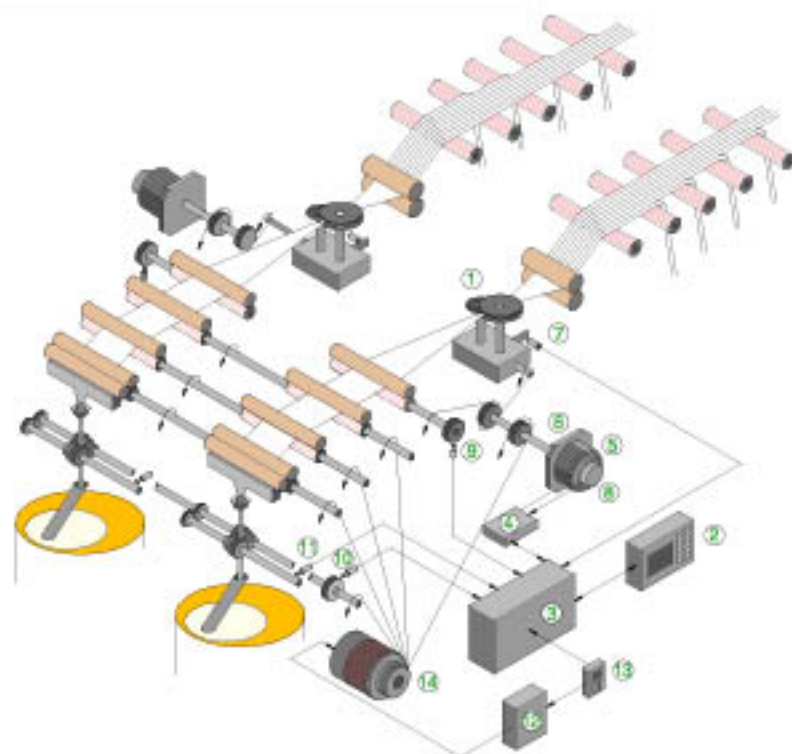
- With high-precision weight and speed sensors, all data are processed and calculated by an advanced CPU. The feed in slivers are detected by a precise T&G device, instantaneous short term control of the drafting drive is performed with a highly responsive AC servo motor and a differential gear box, thus the sliver weight deviation could be corrected accurately.

- The computer control systems are of human management and each system with an individual control board. It enables easy adjustment and maintenance

- The preset deviation range of input sliver within  $\pm 25\%$  could be corrected accurately. The machine will automatic stop when the sliver is over than the presetting value.



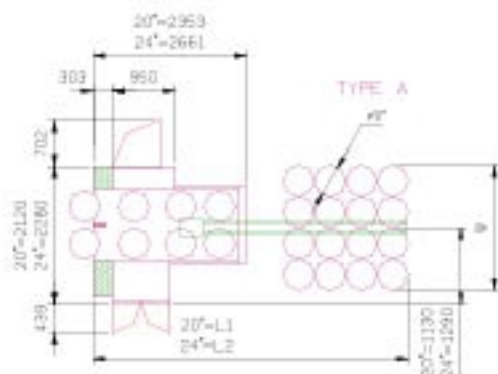
## The illustration of HSD-961AL



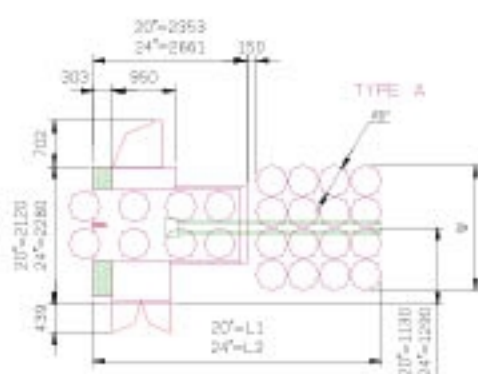
1. T & G Roller	2. Control Terminal	3. Control Unit
4. Servo Driver	5. Servo Motor	6. Differential Gear Box
7. Weight Sensor (Feed in)	8. Encoder	9. Speed Sensor
10. Speed Sensor	11. Weight Sensor	12. Inverter
13. PLC	14. Main Motor	

## HSD-961AL CREEL ARRANGEMENT ( Unit:mm )

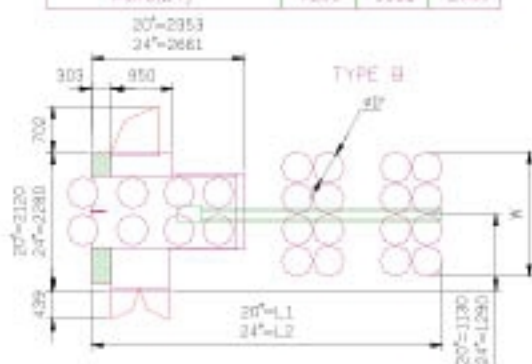
## HSD-961 CREEL ARRANGEMENT ( Unit:mm )



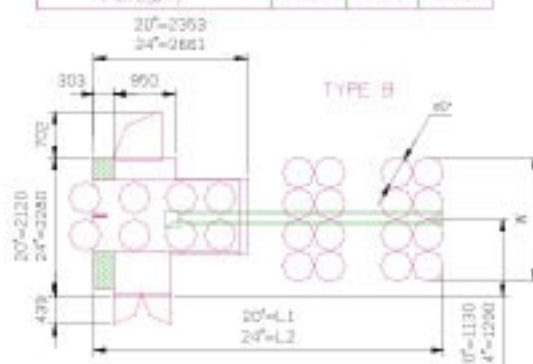
Feed can outer diam D	L1	L2	W
φ430(16")	4546	4656	1720
φ480(18")	4723	5031	1920
φ535(20")	4916	5224	2140
φ640(24")	5283	5591	2560



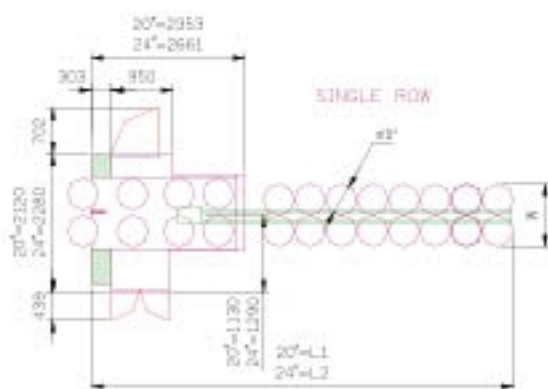
Feed can outer diam D	L1	L2	W
φ430(16")	4223	4521	1720
φ480(18")	4423	4731	1920
φ535(20")	4643	4951	2140
φ640(24")	5063	5371	2560



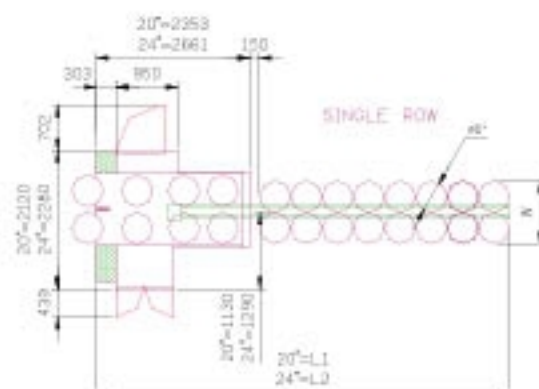
Feed can outer diam D	L1	L2	W
φ430(16")	4973	5281	1720
φ480(18")	5273	5581	1920
φ535(20")	5593	5901	2140
φ640(24")	6213	6521	2560



Feed can outer diam D	L1	L2	W
φ430(16")	4973	5281	1720
φ480(18")	5273	5581	1920
φ535(20")	5593	5901	2140
φ640(24")	6213	6521	2560



Feed can outer diam D	L1	L2	W
φ430(16")	6253	6561	860
φ480(18")	6628	6936	960
φ535(20")	7041	7349	1070
φ640(24")	7828	8136	1280
φ850(36")	10153	10461	1900
φ1050(40")	10903	11211	2100



Feed can outer diam D	L1	L2	W
φ430(16")	5943	6251	860
φ480(18")	6343	6651	960
φ535(20")	6783	7091	1070
φ640(24")	7623	7931	1280
φ850(36")	10103	10411	1900
φ1050(40")	10903	11211	2100

Remark: 20", 24", shown in the above drawings means delivery can size.