

CLF



Polaris

THIN PIECES OF FOOD PACKAGING

HYBRID MACHINE



1 高速 **2 精密** **3 穩定** **4 高產能** **HIGH SPEED** **PRECISION** **STABLE** **HIGH PRODUCTION CAPACITY**

For high-cycle thin pieces of food packaging equipment program, CLF provide the hybrid electric high speed machine. Integrate high quality and energy saving, high-speed precision production system. In addition to standard molds, we also offer stacked molds to choose. The strong point is increasing the production capacity and suitable for customers who need rapid mass production. CLF have lots of successful experiences and strong reliable team that we can integrated the whole injection machine, mold, robot, automatic packaging technology. To meets the goals of high production, we will do our best to create high value and create the high benefits for customers.

- Using Oil-electric hybrid design, and include the hydraulic and servo motor oil pressure advantages, for excellent performance and high accuracy, energy saving, multiple circuits etc.
- Electric clamping mechanism design shows high speed and high reproducibility, and using German Siemens control and servo motors.
- The main transmission components are made in Japan's NSK lead ball-screw for high accuracy and high life.
- The injection has ACC and servo valve, and using single cylinder mechanism and electric storage. Achieve the high stability and high-speed injection requirements.
- With the Austria KEB controller, 12 Inches colored TFT-LCD that display touch screen.
- Energy saving system with ECO STAR servo system and ABB driver.
- With ceramic electric heating system and PP + PE Special screw design.



THIN PIECES OF FOOD PACKAGING SERIES

STANDARD MOLD

MICROWAVE BOX TYPE		650ml Microwave box	1000ml Microwave box	650ml Microwave box	Microwave box cover	Microwave box cover
Single piece weight	g	16	25	16	11	11
Mold cavity	cavity	2	2	4	2	4
Production cycle	sec.	5.5	6	6	4.5	5
Productivity (one day)	piece	31418	28800	57600	38400	69120
Machine model (hybrid machine)		230AE-HB+750D-D45	230AE-HB+750D-D45	450AE-HB+1050D-D50	230AE-HB+750D-D45	350AE-HB+1050D-D50
MICROWAVE BOX TYPE		250ml Round bowl	450ml Round bowl	600ml Round bowl	Round bowl cover	
Single piece weight	g	9	14	21	7	
Mold cavity	cavity	4	4	4	4	
Production cycle	sec.	5.5	5.5	5.5	4.5	
Productivity (one day)	piece	62836	62836	62836	76800	
Machine model (hybrid machine)		285AE-HB+750D-D45	350AE-HB+1050D-D50	350AE-HB+1050D-D50	230AE-HB+750D-D45	

STACKING MOLD

MICROWAVE BOX TYPE		650ml Microwave box cover		Microwave box cover	
Single piece weight	g	16	11	11	11
Mold cavity	cavity	2	2	2	2
Production cycle	sec.	5.5		5	
Productivity (one day)	piece	31418	31418	69120	
Machine model (hybrid machine)		285AE-HB-STM+1050D-D50		230AE-HB-STM+750D-D50	

STANDARD MOLD

FORK SPOON TYPE		Fork spoon	Fork spoon	Fork spoon	Fork spoon
Single piece weight	g	2	2	2	2
Mold cavity	cavity	24	32	48	64
Production cycle	sec.	6	7	7.5	8
Productivity (one day)	piece	345600	394971	552960	691200
Machine model (hybrid machine)		230AE-HB+750D-D45	285AE-HB+750D-D45	350AE-HB+1050D-D50	450AE-HB+1450D-D60

Machine model		230AE-HB	285AE-HB	350AE-HB	450AE-HB	450AE-HB	230AE-HB-STM	285AE-HB-STM
International code		2300H-750D	2300H-750D	3500H-1050D	3500H-1050D	4500H-1450D	2300H-750D	2850H-1050D
INJECTION UNIT	Unit							
Screw diameter	mm	45	45	50	50	60	45	50
Theoretical injection volume	cm ³	398	398	530	530	848	398	530
Injection pressure	kg/cm ²	1889	1889	1965	1965	1705	1889	1965
Injection rate	cm ³ /sec	636	636	785	785	1131	636	785
Shot weight in PP	gram	290	290	387	387	619	290	387
Screw rotating speed	rpm	400	400	400	400	300	400	400
CLAMPING UNIT								
Distance between columns(H x V)	mm	560 x 560	610 x 610	730 x 730	730 x 730	810 x 810	560 x 560	610 x 610
Dimension of platens	mm	860 x 860	940 x 940	1120 x 1120	1120 x 1120	1260 x 1260	860 x 860	940 x 940
Mold hight Max./Min.	mm	550/200	650/250	700/300	700/300	800/300	1000/550	750/400
Mold opening stroke	mm	550	600	700	700	800	550	600
Clamping force	ton	230	285	350	350	450	230	285
Dia. of locating ring	mm	125	125	160	160	160	125	125
Ejector stroke	mm	150	150	150	150	180	150	150
Ejector force	ton	5.2	6.2	7	7	10	5.2	6.2
GENERAL DATA								
Heating zones	zone	5	5	5	5	6	5	5
Heating capacity	kW	13.5	13.5	17	17	22.9	13.5	17
Pump driving motor	kW	15	15	22	22	30	15	22
Oil tank capacity	L	220	220	220	220	325	220	220
Machine dimension (L x W x H)	m	6.2 x 1.66 x 2.1	6.7 x 1.74 x 2.05	7.91 x 2.1 x 2.2	8.27 x 2.2 x 2.35	8.45 x 2.2 x 2.35	6.7 x 1.66 x 2.1	8 x 1.74 x 2.05
Net weight	ton	11	13	18	22	24	14	17

* All specification, dimensions and design characteristics shown in this catalogue are subject to change without notice.

www.clf.com.tw



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