







High-Speed High-Pressure Injection! Energy-Saving & Environmental Protection! Complete German Siemens Control System!

CLF control system combines outstanding features from those of European and Japanese ones. Features simultaneous control on multiple axes that may shorten considerable molding cycle time.



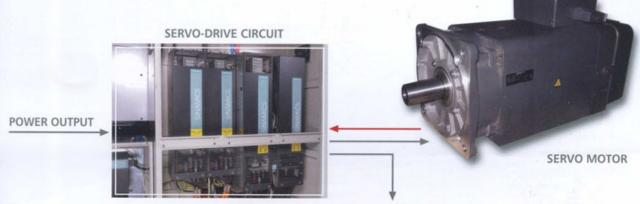
Electricity Regeneration Circuit

Electricity Saved by 15%

- The energy generated while the servo motor is decelerating will convert into electricity through the servo-driver circuit. This electricity can be used by the driver (without fitting with a brake resistor).
- Saves electricity by over 15% approximately for energy saving and environmental protection.

Siemens Servo Drive Controls

- FULLY CLOSED LOOP SERVO CONTROL: A drive system that features 31 bit control accuracy for speed, position and torque. it increases repeatability accuracy and stability.
- High precision low-pressure protection function.
- Applies German drive-based technology for multi-axes control.
- Employs German top performance servo motor with IP64 isolation level.
- Employs European industrial communication interface technology for interfacing between the controller and the driver, achieving high speed and safety features.
- Exclusive FEI (Fluid-Effect of Inertia) function control effectively reduces internal mold pressure when changing motion from injection to pressure holding.



WITHOUT BRAKE RESISTOR

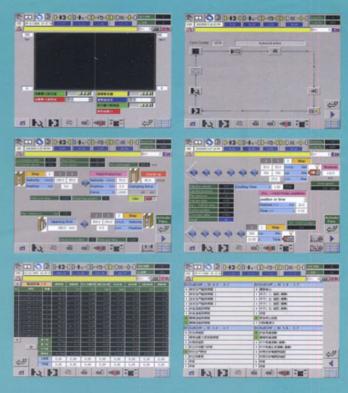
Siemens Germany

Extra Large LCD Color Touch Screen Panel

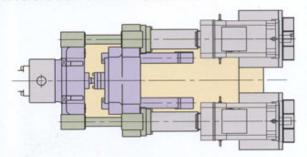
- Siemens 12" Touch-Screen Monitor.
- Windows CE embedded operation system.
- Film type keyboard.
- Multi-language selection.
- Supports mold numbers access function through USB.
- 500 sets of monitoring records.
- Management leveling function.
- Supports remote monitoring.

Ergonomics Operation Interface

A superior Ergonomics operation interfacing system that combines the features of European open type system and Japanese closed type system.

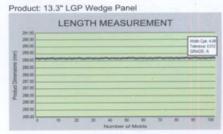


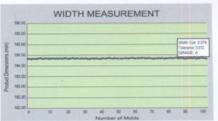
HIGH-SPEED HIGH-PRESSURE INJECTION UNIT Injection Speed 0→600mm Acceleration within 60ms



The injection unit is synchronously driven by two servo motors and transmitted through two ball screws to achieve extra high-end and high-pressure injection performance.

Consistency of Finished Product Sizes



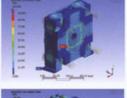


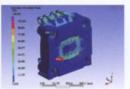
AE SERIES Specifications of All Electric Series

Machine Model	CLF-120AE		CL	F-180	AE	CLF-230AE							
International Code		1200F	1-270E	180	0H-46	60E	2300H-460E			23			
INJECTION UNIT UNIT													
Screw Diameter	mm	30	35	35	40	45	35	40	45	40			
Theoretical Inj. Volume	cm ³	99	135	173	226	286	173	226	286	264			
Injection Pressure	kg/cm ²	2730	2006	2664	2040	1612	2664	2040	1612	2974			
Inj. Holding Pressure	kg/cm ²	2321	1705	2265	1734	1370	2265	1734	1370	2528			
Injection Speed	mm/sec	250 177	250 241	250 241	250	250 398	250 241	250 314	250 398	230 289			
Injection Rate	cm³/sec.				314								
Shot Weight in GPPS	gram	89	122	156	204	258	156	204	258	238			
Screw Rotating Speed	RPM	350		300									
CLAMPING UNIT													
Distance between Columns (HxV)	mm	420	x 420	5	10 x 51	10			560	x 560			
Dimensions of Platens	mm	630 x 630		765 x 765			860			x 860			
Mold height Max./Min.	mm	450 / 150		500 / 200			550 /			/ 200			
Mold Opening Stroke	mm	400		450			550			50			
Clamping Force	Ton	120		180			230			30			
Dia. of Locating Ring	mm	100		125			125			25			
Ejector Stroke	mm	100		120			150			50			
Ejector Force	Ton	3.3		4			5.2						
GENERAL DATA													
Heating Zones	zone	6		6				6					
Heating Capacity	kw	5.8		9.2				9.2					
Machine Dimensions (LxWxH) .	m	4.84 x 1.	5.27 x 1.56 x 1.97			5.56 x 1.66 x 2.07			6.34				
Net Weight	Ton	4.5		7.5			9			1			

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







Inward toggle structure

Automatic Lubrication System

The automatic lubrication system provides outstanding lubrication to the extra heavy loaded ball screws. The use of the excellent lubrication system may greatly reduce wear on the ball screws and assure maximum smoothness of motions.



Rigid Platen Rigidity 60% UP

- Extra thick platen design increases machine rigidity by 60%, which minimizes the structural deformation.
- The platen structure design is analyzed by CAE computer software, assuring maximum toughness and rigidity.

		CLF-285AE						CLF-350AE						CLF-450AE						
0H-785E 2		28	2850H-785E		2850H-1190E			3500H-785E			3500H-1190E			4500H-1190E			4500H-1585E			
45	50	40	45	50	50	55	60	40	45	50	50	55	60	50	55	60	55	60	65	
334	412	264	334	412	491	594	707	264	334	412	491	594	707	491	594	707	665	792	929	
2350	1903	2974	2350	1903	2420	2000	1680	2974	2350	1903	2420	2000	1680	2420	2000	1680	2380	2000	1704	
1997	1618	2528	1997	1618	2057	1700	1428	2528	1997	1618	2057	1700	1428	2057	1700	1428	2023	1700	1449	
230	230	230	230	230	200	200	200	230	230	230	200	200	200	200	200	200	170	170	170	
366	452	289	366	452	393	475	565	289	366	452	393	475	565	393	475	565	404	481	564	
301	372	238	301	372	443	536	638	238	301	372	443	536	638	443	536	638	600	714	839	
300	300 300 250					300 250					250		220							
		610 x 610						730 x 730						810 x 810						
		940 x 940					1120 x 1120						1260 x 1260							
		650 / 250					700 / 300						800 / 300							
		600					700						800							
	285					350						450								
	125						160						160							
	150						150						180							
				6.	2				50000		7					1	0	-		
6	6		6		6		6		6			6			6					
11.8			11.8 16.3				11.8 16.3				16.3				18.2					
x 1.66	x 2.1	6.8 x 1.74 x 2.25 7.1 x 1.74 x 2.26			2.26	7.2	7.2 x 2.1 x 2.2 7.5 x 2.1 x 2.2					7.9 x 2.2 x 2.35			8.1 x 2.2 x 2.35					
11	1 13 15				17 20					24 26										



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