



# PET Series

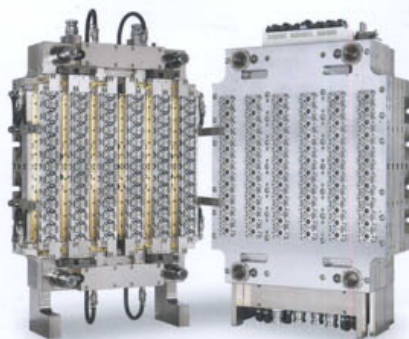
PET Preform Series Injection  
Molding Machines



Being Advanced is Most Important at CLF.



CHUAN LIH FA offers a full series of plastic injection molding machines for big, medium and small mouth PET preform production.

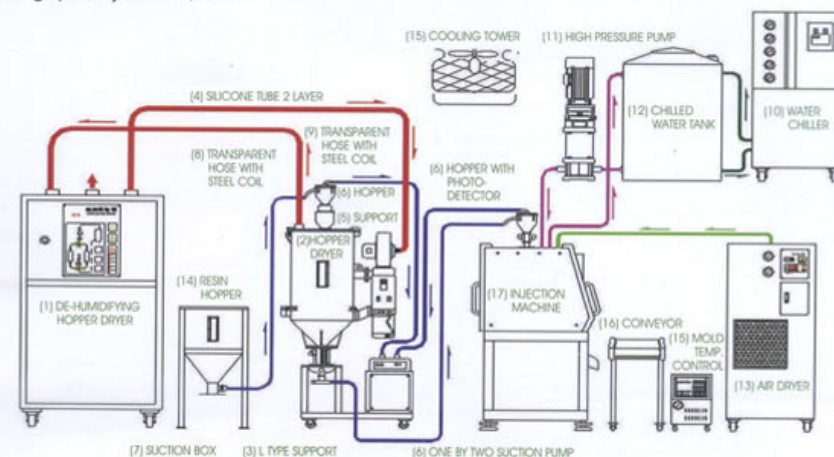


# PET Series

PET Preform Series Injection Molding Machines

With extensive experience in multi-turnkey projects for our customers, CHUAN LIH FA offers a full series of plastic injection molding machines for big, medium and small mouth PET preform production. Each model is designed meet the special requirements of PET resin.

To meet various production environments, CHUAN LIH FA also offers comprehensive peripheral equipment that helps customers to produce high quality preforms. The available peripheral equipment includes: resin drying system, resin conveying system, PET preform mold with various designs and cavities, hot runner system and temperature control, chilled water and dry air system, product handling system and packing quantity control, etc.





# PET Series



## FEATURES:

1. High production speed. Above models perform material loading and mold clamping simultaneously. (CLF Patented No. 145402)
2. Depending on product characteristics and production requirements, the machine series is available to equip with accumulator and servo valve for high speed, high precision molding control. Contact CLF for detailed specifications.
3. To shorten the in-mold cooling time and increase productivity. An out-mold cooling device is available. (Optional)



## PET Preform Series Injection Molding Machine Specifications:

| Machine Model              |                       | CLF-230TX-PET  |              | CLF-285TX-PET                            |              | CLF-350TX-PET                            |              | CLF-400TX-PET                            |              | CLF-500TX-PET                            |              | CLF-600TX-PET                            |              |                                          |
|----------------------------|-----------------------|----------------|--------------|------------------------------------------|--------------|------------------------------------------|--------------|------------------------------------------|--------------|------------------------------------------|--------------|------------------------------------------|--------------|------------------------------------------|
| INJECTION UNIT             | UNIT                  | 1470           |              | 2436                                     |              | 2436                                     |              | 4183                                     |              | 4183                                     |              | 6630                                     |              |                                          |
| Screw Diameter             | mm                    | 55             | 60           | 70                                       | 75           | 70                                       | 75           | 80                                       | 85           | 80                                       | 85           | 95                                       | 100          |                                          |
| Theoretical Inj. Volume    | cm <sup>3</sup>       | 712            | 847          | 1269                                     | 1457         | 1269                                     | 1457         | 2135                                     | 2410         | 2135                                     | 2410         | 3542                                     | 3925         |                                          |
| Max. Injection Pressure    | Kg/cm <sup>2</sup>    | 2066           | 1736         | 1920                                     | 1672         | 1920                                     | 1672         | 1959                                     | 1736         | 1959                                     | 1736         | 1872                                     | 1690         |                                          |
| Max. Injection Speed       | mm/sec.               | 141            | 141          | 124                                      | 124          | 124                                      | 124          | 115                                      | 115          | 125                                      | 125          | 104                                      | 104          |                                          |
| Max. Injection Rate        | cm <sup>3</sup> /sec. | 336            | 400          | 477                                      | 548          | 477                                      | 548          | 579                                      | 654          | 628                                      | 709          | 742                                      | 822          |                                          |
| PET Max. Shot Weight       | gram                  | 744            | 886          | 1327                                     | 1523         | 1327                                     | 1523         | 2232                                     | 2520         | 2232                                     | 2520         | 3701                                     | 4101         |                                          |
| PET Plasticizing Rate      | Kg/Hr.                | 81             | 96           | 123                                      | 140          | 123                                      | 140          | 166                                      | 188          | 166                                      | 188          | 249                                      | 276          |                                          |
| Screw Rotation Speed       | RPM                   | 128            |              | 130                                      |              | 130                                      |              | 93                                       |              | 93                                       |              | 98.5                                     |              |                                          |
| Nozzle Radius / Hole       | mm/ mm                | 15 / 7         |              | 15 / 10                                  |              | 15 / 10                                  |              | 20 / 12                                  |              | 20 / 14                                  |              | 25 / 30                                  |              |                                          |
| Heating Zones              | zone                  | 6              |              | 7                                        |              | 7                                        |              | 8                                        |              | 8                                        |              | 10                                       |              |                                          |
| Heating Capacity           | KW                    | 19             |              | 24                                       |              | 24                                       |              | 35.5                                     |              | 35.5                                     |              | 49.8                                     |              |                                          |
| CLAMPING UNIT              |                       |                |              |                                          |              |                                          |              |                                          |              |                                          |              |                                          |              |                                          |
| Distance Between Tie Bars  | mm                    | 560 x 560      |              | 610 x 610                                |              | 670 x 670                                |              | 730 x 730                                |              | 810 x 810                                |              | 910 x 910                                |              |                                          |
| Dimension of Platen        | mm                    | 860 x 860      |              | 940 x 940                                |              | 1030 x 1030                              |              | 1120 x 1120                              |              | 1260 x 1260                              |              | 1390 x 1390                              |              |                                          |
| Mold Height                | mm                    | 200 - 600      |              | 200 - 650                                |              | 200 - 700                                |              | 250 - 750                                |              | 300 - 900                                |              | 300 - 1000                               |              |                                          |
| Mold Opening Stroke        | mm                    | 560            |              | 610                                      |              | 680                                      |              | 750                                      |              | 800                                      |              | 900                                      |              |                                          |
| Clamping Force             | Ton                   | 230            |              | 285                                      |              | 350                                      |              | 400                                      |              | 500                                      |              | 6000                                     |              |                                          |
| Dia. of Locating Ring      | mm                    | 160            |              | 160                                      |              | 160                                      |              | 160                                      |              | 200                                      |              | 200                                      |              |                                          |
| Ejector Stroke             | mm                    | 150            |              | 150                                      |              | 200                                      |              | 200                                      |              | 200                                      |              | 250                                      |              |                                          |
| Ejecting Force             | Ton                   | 6.2            |              | 6.2                                      |              | 7                                        |              | 7                                        |              | 11                                       |              | 13.3                                     |              |                                          |
| GENERAL DATA               |                       |                |              |                                          |              |                                          |              |                                          |              |                                          |              |                                          |              |                                          |
| Pump Driving Motor         | HP                    | 75             |              | 100                                      |              | 100                                      |              | 125                                      |              | 135                                      |              | 150                                      |              |                                          |
| Capacity of Oil Reservoir  | Liter                 | 900            |              | 1200                                     |              | 1200                                     |              | 1600                                     |              | 1800                                     |              | 2000                                     |              |                                          |
| Machine Dimension          | m                     | 7 x 1.65 x 2.1 |              | 7.5 x 1.75 x 2.3                         |              | 7.8 x 1.80 x 2.3                         |              | 7.8 x 1.8 x 2.4                          |              | 8.8 x 2.0 x 2.5                          |              | 10.3 x 2.3 x 2.5                         |              |                                          |
| Net Weight                 | Ton                   | 11             |              | 13                                       |              | 16.5                                     |              | 17.5                                     |              | 28.5                                     |              | 41                                       |              |                                          |
| PREFORM SIZE AND QUANTITY: |                       |                |              |                                          |              |                                          |              |                                          |              |                                          |              |                                          |              |                                          |
| Preform Weight             | Small Mouth           | *35g           | No. per shot | Estimated monthly production (Shot/Unit) | No. per shot | Estimated monthly production (Shot/Unit) | No. per shot | Estimated monthly production (Shot/Unit) | No. per shot | Estimated monthly production (Shot/Unit) | No. per shot | Estimated monthly production (Shot/Unit) | No. per shot | Estimated monthly production (Shot/Unit) |
|                            |                       | *65g           | 4*6*8        | 360000*480000*610000                     | 8*12         | 610000*900000                            | 12*16        | 900000*1200000                           | 24           | 1728000                                  | 48           | 3000000                                  | 48           | 3000000                                  |
|                            | Medium Mouth          | *120g          | 2*4          | 160000*300000                            | 4*6*8        | 300000*430000*550000                     | 6*8*12       | 430000*550000*800000                     | 16           | 1015000                                  | 24           | 1450000                                  | 48           | 2850000                                  |
|                            |                       | *70g           | 2            | 100000                                   | 4*6          | 200000*300000                            | 6*8          | 300000*400000                            | 12           | 576000                                   | 16           | 700000                                   | 32           | 1350000                                  |
|                            | Big Mouth             | *130g          |              |                                          | 4*6          | 250000*320000                            | 6*8          | 320000*400000                            | 8            | 450000                                   | 12           | 675000                                   | 16           | 900000                                   |
|                            |                       |                |              |                                          | 4            | 200000                                   | 6            | 300000                                   | 6            | 324000                                   | 8            | 420000                                   | 12           | 620000                                   |

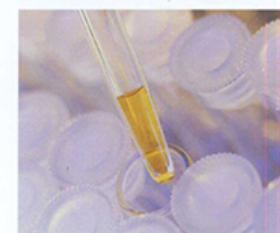
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## 5Gal. PET Preform Series Injection Molding Machine Specifications:

| Machine Model                             |                       | CLF-500TW-PET    |                                         |
|-------------------------------------------|-----------------------|------------------|-----------------------------------------|
| INJECTION UNIT                            | UNIT                  | 6630             |                                         |
| Screw Diameter                            | mm                    | 95               | 100                                     |
| Theoretical Inj. Volume                   | cm <sup>3</sup>       | 3542             | 3925                                    |
| Max. Injection Pressure                   | Kg/cm <sup>2</sup>    | 1872             | 1690                                    |
| Max. Injection Speed                      | mm/sec.               | 104              | 104                                     |
| Max. Injection Rate                       | cm <sup>3</sup> /sec. | 742              | 822                                     |
| PET Max. Shot Weight                      | gram                  | 3701             | 4101                                    |
| PET Plasticizing Rate                     | Kg/Hr.                | 249              | 276                                     |
| Screw Rotation Speed                      | RPM                   | 98.5             |                                         |
| Nozzle Radius / Hole                      | mm/ mm                | 25 / 30          |                                         |
| Heating Zones                             | zone                  | 10               |                                         |
| Heating Capacity                          | KW                    | 49.8             |                                         |
| CLAMPING UNIT                             |                       |                  |                                         |
| Distance Between Tie Bars                 | mm                    | 810 x 810        |                                         |
| Dimension of Platen                       | mm                    | 1260 x 1260      |                                         |
| Mold Height                               | mm                    | 300 - 900        |                                         |
| Mold Opening Stroke                       | mm                    | 1000             |                                         |
| Clamping Force                            | Ton                   | 500              |                                         |
| Dia. of Locating Ring                     | mm                    | 200              |                                         |
| Ejector Stroke                            | mm                    | 200              |                                         |
| Ejecting Force                            | Ton                   | 11               |                                         |
| GENERAL DATA                              |                       |                  |                                         |
| Pump Driving Motor                        | HP                    | 150              |                                         |
| Capacity of Oil Reservoir                 | Liter                 | 2000             |                                         |
| Machine Dimension                         | m                     | 9.4 x 1.95 x 2.5 |                                         |
| Net Weight                                | Ton                   | 30               |                                         |
| PREFORM SIZE AND QUANTITY:                |                       |                  |                                         |
| Preform for 5Gal. Mineral Water Container | *800g                 | No. per shot     | Estimated yearly production (Shot/Unit) |
|                                           |                       | 4                | 100000                                  |



# PET Series



PET CAP Series Injection Molding Machine Specifications:

| Machine Model             |               | CLF-120TX-CAP         |  | CLF-180TX-CAP   |      | CLF-230TX-CAP   |      | CLF-285TX-CAP   |      | CLF-350TX-CAP   |      | CLF-400TX-CAP   |      | CLF-500TX-CAP   |      |
|---------------------------|---------------|-----------------------|--|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| INJECTION UNIT            |               | UNIT                  |  | 416             |      | 717             |      | 1000            |      | 1470            |      | 1470            |      | 2436            |      |
| Screw Diameter            |               | mm                    |  | 35              | 40   | 40              | 45   | 45              | 50   | 55              | 60   | 55              | 60   | 70              | 75   |
| Theoretical Inj. Volume   |               | cm <sup>3</sup>       |  | 202             | 263  | 307             | 389  | 429             | 530  | 712             | 847  | 712             | 847  | 1269            | 1457 |
| Max. Injection Pressure   |               | Kg/cm <sup>2</sup>    |  | 2057            | 1575 | 2327            | 1839 | 2322            | 1881 | 2066            | 1736 | 2066            | 1736 | 1920            | 1672 |
| Max. Injection Speed      |               | mm/sec.               |  | 186             | 186  | 153             | 153  | 150             | 150  | 144             | 144  | 167             | 167  | 143             | 143  |
| Max. Injection Rate       |               | cm <sup>3</sup> /sec. |  | 179             | 234  | 192             | 243  | 238             | 294  | 342             | 407  | 396             | 472  | 552             | 633  |
| PE Max. Shot Weight       |               | gram                  |  | 146             | 190  | 222             | 281  | 310             | 383  | 514             | 611  | 514             | 611  | 916             | 1052 |
| PE Plasticizing Rate      | Cooling Time  | g/sec.                |  | 9.4             | 12.3 | 14.6            | 18.5 | 14.6            | 17.9 | 30.6            | 36.4 | 34.4            | 40.9 | 58.7            | 67.3 |
|                           | Mold Movement | g/sec.                |  | 9.4             | 12.3 | 14.6            | 18.5 | 14.6            | 17.9 | 17.4            | 20.7 | 20.9            | 24.8 | 29.3            | 33.6 |
| Screw Rotation Speed      | Cooling Time  | RPM                   |  | 228.5           |      | 272.5           |      | 213.3           |      | 274             |      | 308             |      | 324             |      |
|                           | Mold Movement | RPM                   |  | 228.5           |      | 272.5           |      | 213.3           |      | 156             |      | 187             |      | 162             |      |
| Nozzle Radius / Hole      |               | mm / mm               |  | 12.7 / 5        |      | 12.7 / 5        |      | 12.7 / 6        |      | 12.7 / 8        |      | 12.7 / 8        |      | 12.7 / 8        |      |
| Heating Zones             |               | zone                  |  | 5               |      | 5               |      | 5               |      | 5               |      | 5               |      | 7               |      |
| Heating Capacity          |               | KW                    |  | 5.7             | 6.8  | 9.6             | 10.6 | 12.6            | 12.6 | 16.9            | 18.6 | 16.9            | 18.6 | 24.1            | 25.9 |
| Clamping Unit             |               |                       |  |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Distance Between Tie Bars |               | mm                    |  | 420 x 420       |      | 510 x 510       |      | 560 x 560       |      | 610 x 610       |      | 670 x 670       |      | 730 x 730       |      |
| Dimension of Platen       |               | mm                    |  | 630 x 630       |      | 765 x 765       |      | 860 x 860       |      | 940 x 940       |      | 1030 x 1030     |      | 1120 x 1120     |      |
| Mold Height               |               | mm                    |  | 150 - 450       |      | 150 - 550       |      | 200 - 600       |      | 200 - 650       |      | 200 - 700       |      | 250 - 750       |      |
| Mold Opening Stroke       |               | mm                    |  | 420             |      | 500             |      | 560             |      | 610             |      | 680             |      | 750             |      |
| Clamping Force            |               | Ton                   |  | 120             |      | 180             |      | 230             |      | 285             |      | 350             |      | 400             |      |
| Dia. of Locating Ring     |               | mm                    |  | 125             |      | 160             |      | 160             |      | 160             |      | 160             |      | 160             |      |
| Ejector Stroke            |               | mm                    |  | 110             |      | 150             |      | 150             |      | 150             |      | 200             |      | 200             |      |
| Ejecting Force            |               | Ton                   |  | 5.4             |      | 5.4             |      | 6.2             |      | 6.2             |      | 7               |      | 7               |      |
| General Data              |               |                       |  |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Pump Driving Motor        |               | HP                    |  | 40              |      | 50              |      | 60              |      | 75              |      | 100             |      | 120             |      |
| Capacity of Oil Reservoir |               | Liter                 |  | 500             |      | 700             |      | 800             |      | 1000            |      | 1400            |      | 1400            |      |
| Machine Dimension         |               | m                     |  | 5.2 x 1.6 x 1.7 |      | 5.6 x 1.6 x 1.9 |      | 6.5 x 1.7 x 2.0 |      | 7.3 x 1.8 x 2.1 |      | 7.6 x 1.8 x 2.1 |      | 8.4 x 1.9 x 2.2 |      |
| Net Weight                |               | Ton                   |  | 5.6             |      | 8               |      | 10.6            |      | 13              |      | 16              |      | 21.6            |      |

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